

**GROUNDWATER LEVELS
in the
SOUTHERN HIGH PLAINS
DESIGNATED GROUND WATER BASIN
2018**



by
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Division of Water Resources
Department of Natural Resources

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Groundwater Level Measurements in the Southern High Plains Designated Ground Water Basin 2018

This report contains the basic groundwater level data collected from wells in the Southern High Plains Designated Basin. Acquisition and publication of this information is a cooperative effort between the well owners, Southern High Plains Ground Water Management District (SHPGWMD) and the Colorado Division of Water Resources (DWR). The SHPGWMD has historically obtained the water levels, but starting in 2014 most of the water levels are measured by DWR staff. Help from Don Wood and Max Smith of the SHPGWMD during this transition was greatly appreciated. The project is part of a statewide groundwater level monitoring program funded by Senate Bill 200 (1987 legislative session). This legislation directed that a portion of the fees collected for water well permit applications be used for the establishment of a program to monitor groundwater level trends throughout the state.

Six distinct aquifers or aquifer combinations are present within the Southern High Plains Designated Ground Water Basin. These include unconsolidated alluvium, Ogallala, Dakota, Cheyenne, undifferentiated Dakota/Cheyenne, and Dockum aquifers. A stratigraphic chart, Figure 1, is included in this report to show the relative age and geologic relationship of these aquifers. The majority of the wells in the basin are completed in the Ogallala, Dakota/Cheyenne, or Dockum aquifers. In general, wells in the southeast portion of the basin are completed in the Ogallala and Dockum aquifers while those in the northwest portion of the basin are completed in the Dakota and/or Cheyenne aquifers. Until 2009 these aquifer units were administered separately. On June 30, 2009, the Colorado Ground Water Commission accepted amended Rule 5.2.3 for the Southern High Plains Designated Ground Water Basin so that all of the aquifers identified above can be administered as a single geo-hydraulic system.

A total of 76 well water levels were measured and recorded during late February and early March 2018. Water levels were not measured in 12 wells that were pumping or where access was restricted. Figure 2 shows the location and designation of all 88 monitoring wells. The map shows the well number with “SHP” prefix removed for spacing purposes. Figure 3 well symbols indicate the aquifers in which these wells are completed. Tabular data are presented for each well for the previous ten years. Graphical data are presented for the entire period of record. Analyses of changes in the water level in the aquifer are complicated by unknown pumping schedules. The table below summarizes some observations gleaned from the data for each aquifer.

| Aquifer | 2018 Water Level Range (ft below ground) | Avg. Water Level Change 2017-2018 (ft) | Avg. Water Level Change 2013-2018 (ft) | Avg. Water Level Change 2008-2018 (ft) |
|-----------------|---|--|--|--|
| Ogallala | 94 to 305 | 0 | -3.5 | -21.2 |
| Dakota/Cheyenne | 58 to 321 | 0 | -4.1 | -13 |
| Dockum | 31 to 289 | 0.8 | -4.2 | -11.5 |

Generally water levels in all aquifers throughout the basin are declining. However, ten wells show a trend where water levels are increasing over the past 15-70 years. Seven of the wells are completed in the Dakota/Cheyenne aquifer, two in the Dockum aquifer and one in the Ogallala aquifer. The wells are primarily located in the Southern portion of the Designated Basin near Campo, CO (Figure 3).

An electronic copy of this report, in Adobe PDF format, is available on the Division of Water Resources website:

<http://water.state.co.us/groundwater/Levels/Pages/HydroGeo.aspx>

The direct link to the Southern High Plains Publication Area on the CDSS webpage:

<http://dnrweb.state.co.us/cdss/GroundWater/WaterLevels/Search?submitButton=Submit&SelectedPublicationAreaName=SOUTHERN%20HIGH%20PLAINS&SelectedAquiferName=All>

Additionally, all groundwater level data may be accessed and exported using the tools available on the Colorado Decision Support System:

<http://dnrweb.state.co.us/cdss/GroundWater/GroundWaterSearch>

and the Colorado Information Marketplace HydroBase Bulk Data Exporter:

<https://data.colorado.gov/Information-Sharing/DWR-Well-Water-Level/hfwh-wsgi>

or the Colorado Decision Support System MapViewer

<http://water.state.co.us/DataMaps/GISandMaps/MapViewer/Pages/FAQ.aspx>

If you have any questions regarding groundwater in the Southern High Plains Designated Ground Water Basin and the information in this report, please contact the Groundwater Information Desk at (303) 866-3587 or through AskDWR,

http://www.dwr.state.co.us/OnlineTools/AskDWR.aspx?topic_num=31&office_num=8

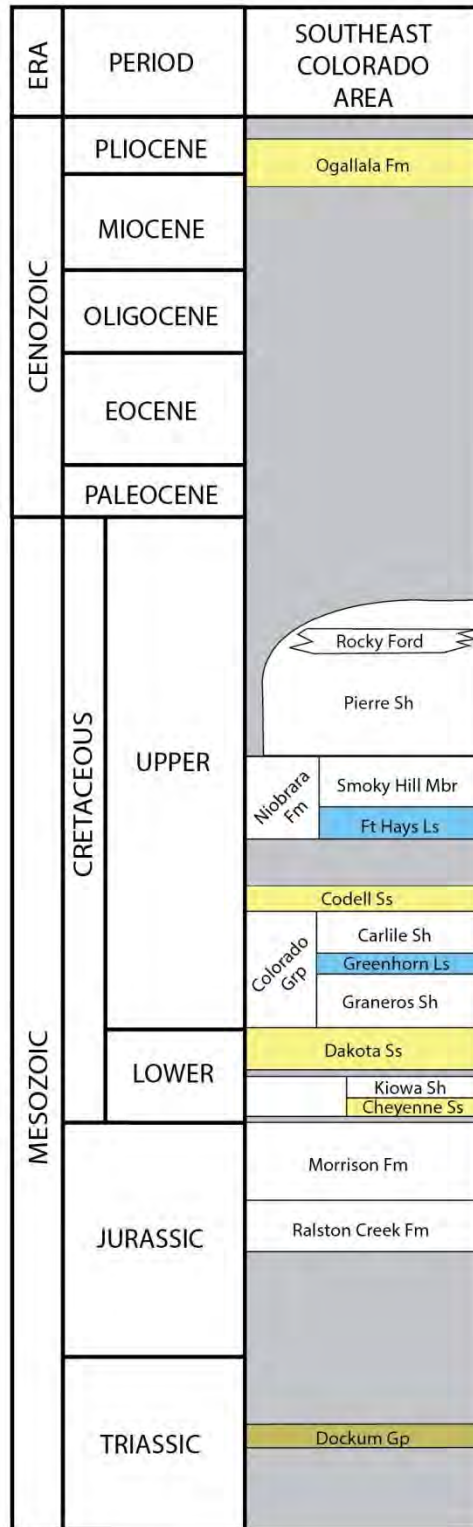

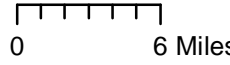
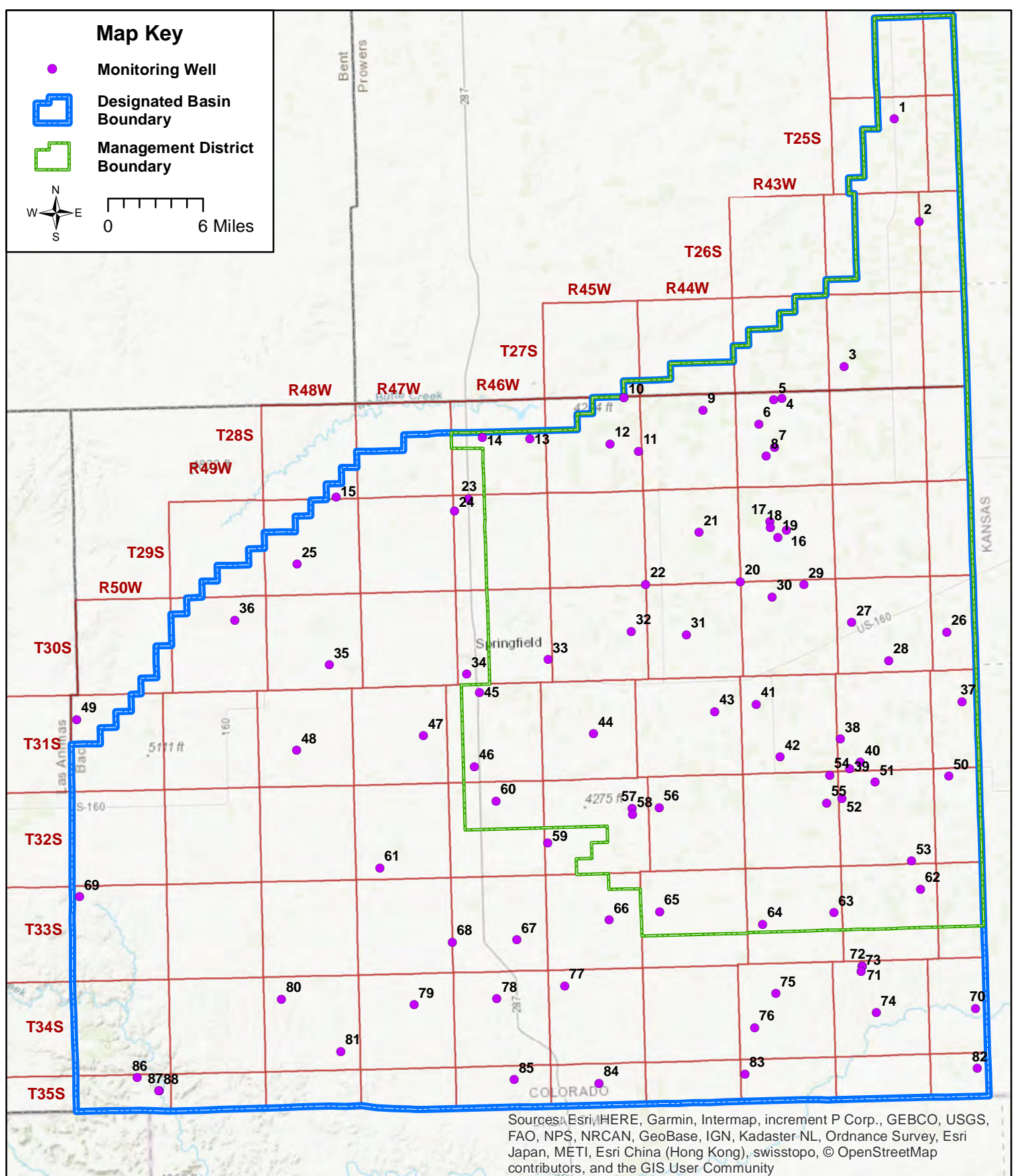


Figure 1 - Bedrock Aquifers of Southeast Colorado
(yellow - sandstone dominated; blue-limestone dominated)

Map Key

- Monitoring Well
 - Designated Basin Boundary
 - Management District Boundary
- 




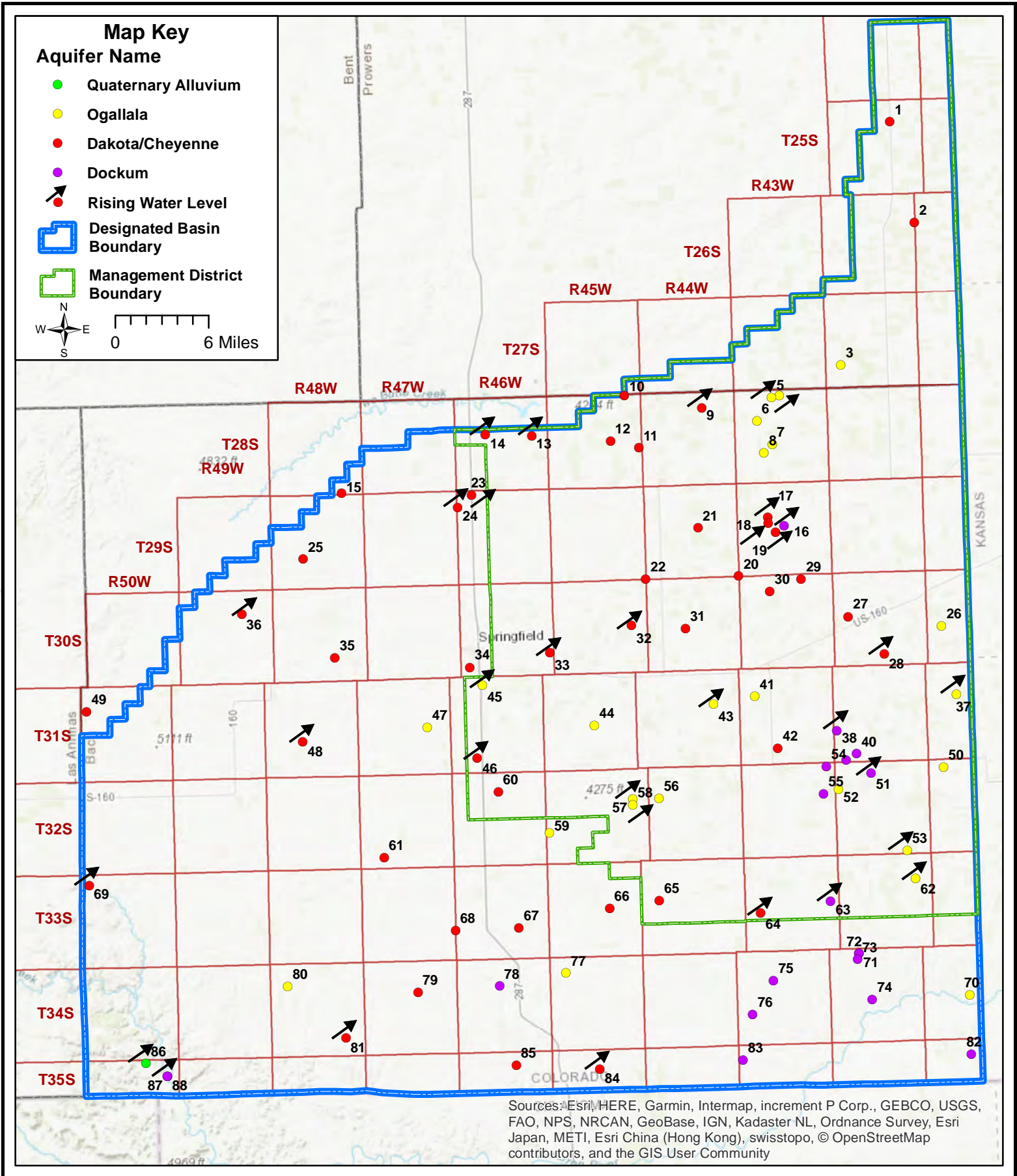
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community



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 Division of Water Resources
 Department of Natural Resources

Southern High Plains Designated Basin Monitoring Well Locations Figure 2

Date: 4/23/2018



Map Key

Groundwater Level Change

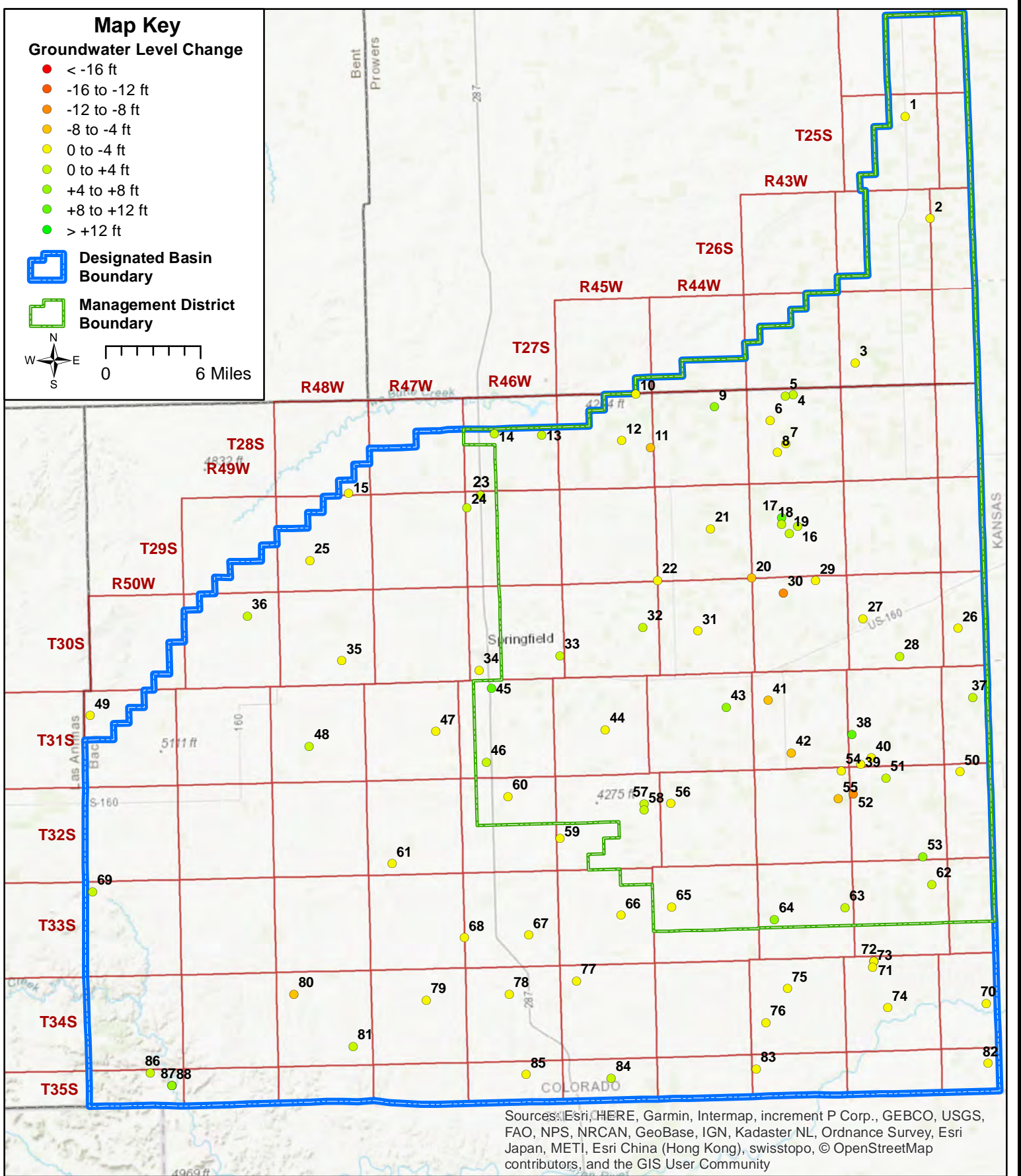
- < -16 ft
- -16 to -12 ft
- -12 to -8 ft
- -8 to -4 ft
- 0 to -4 ft
- 0 to +4 ft
- +4 to +8 ft
- +8 to +12 ft
- > +12 ft

 Designated Basin Boundary

 Management District Boundary



0 6 Miles



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community



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Southern High Plains Designated Basin Water Level Trends 2017-2018

Figure 4

Date: 4/23/2018

Map Key

Groundwater Level Change

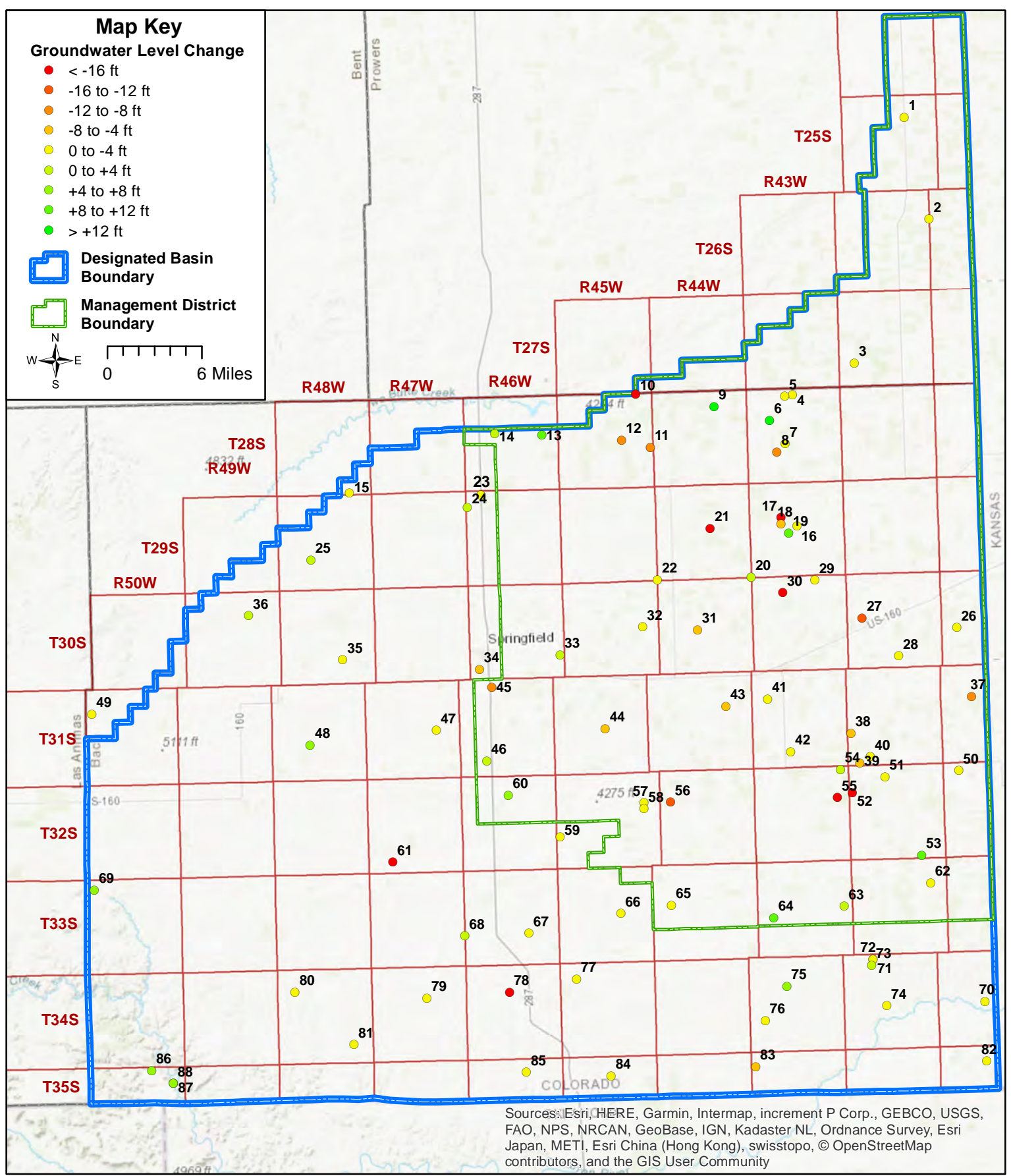
- < -16 ft
- -16 to -12 ft
- -12 to -8 ft
- -8 to -4 ft
- 0 to -4 ft
- 0 to +4 ft
- +4 to +8 ft
- +8 to +12 ft
- > +12 ft

 Designated Basin Boundary

 Management District Boundary



0 6 Miles



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community



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Department of Natural Resources

Southern High Plains Designated Basin Water Level Trends 2013-2018 Figure 5

Date: 4/23/2018

Map Key

Groundwater Level Change

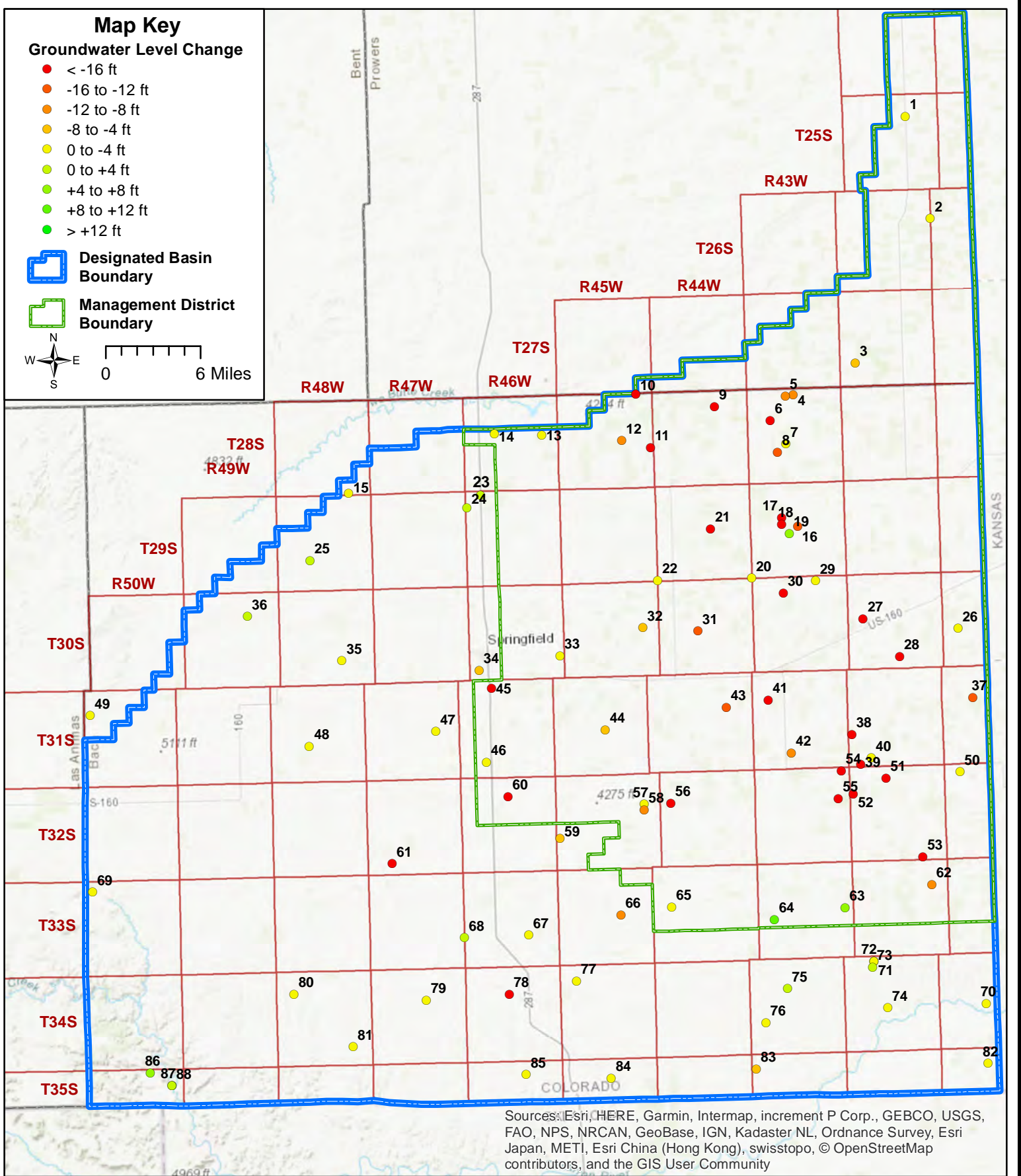
- < -16 ft
- -16 to -12 ft
- -12 to -8 ft
- -8 to -4 ft
- 0 to -4 ft
- 0 to +4 ft
- +4 to +8 ft
- +8 to +12 ft
- > +12 ft

 Designated Basin Boundary

 Management District Boundary



0 6 Miles



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community



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Southern High Plains Designated Basin Water Level Trends 2008-2018

Figure 6

Date: 4/23/2018



GROUNDWATER DETAILS

Well Name: SHP-01 BLAKE, JERREL

Permit Number: 10437-FP

WDID:

Data Source: DWR

Location Number: SC02504211BC

USGS Site ID:

Applicant/Contact: BLAKE, JERREL

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | SW | NW | 11 | 25.0 S | 42.0 W | S | 753591.9 | 4197641.7 | GPS |

Division: 2 District: 67
 County: PROWERS
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

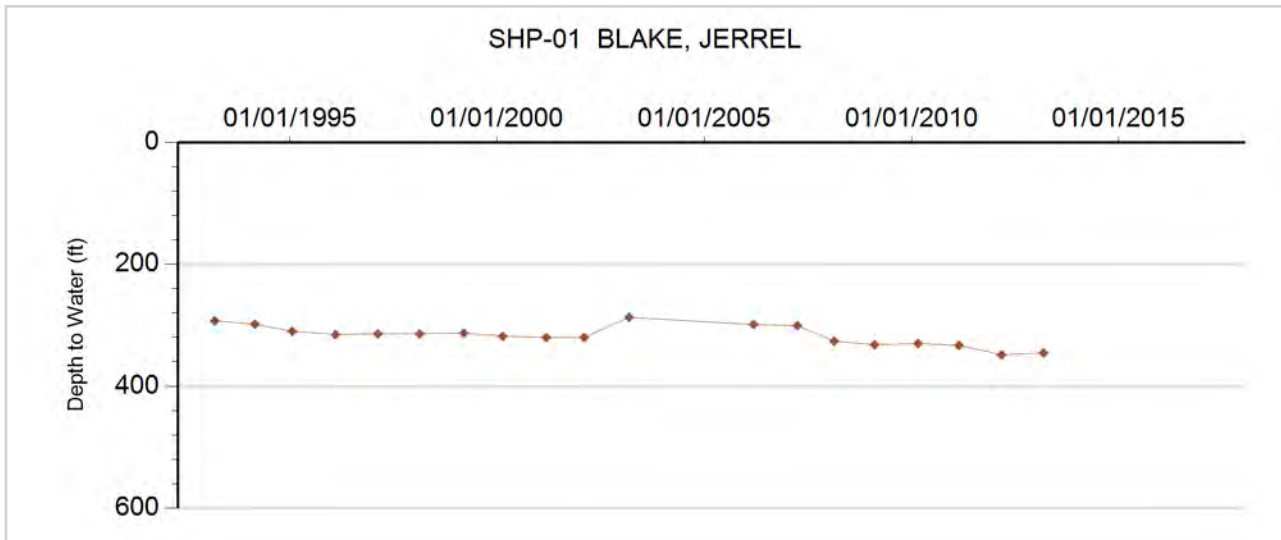
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/02/2017 | | | |
| 03/10/2016 | | | |
| 02/20/2015 | | | |
| 03/18/2014 | | | |
| 03/10/2013 | 345.30 | 3313.70 | -3.20 |
| 03/06/2012 | 348.50 | 3310.50 | 15.50 |
| 02/23/2011 | 333.00 | 3326.00 | 3.00 |
| 02/27/2010 | 330.00 | 3329.00 | -1.90 |
| 02/09/2009 | 331.90 | 3327.10 | 5.80 |
| 02/20/2008 | 326.10 | 3332.90 | 25.50 |

Construction Information

Surface Elevation (ft): 3659.00
 Well Depth (ft): 600.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA

Well Measurement Summary

Start Date: 03/11/1993 End Date: 03/02/2017
 Number of Measurements: 23





GROUNDWATER DETAILS

Well Name: SHP-02 BARTH,RBT.J.
Permit Number: 19211-FP
WDID:
Data Source: DWR

Location Number: SC02604107BC
USGS Site ID:
Applicant/Contact: BARTH,RBT.J.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | SW | NW | 7 | 26.0 S | 41.0 W | S | 756121.8 | 4187217.1 | GPS |

Division: 2 District: 67
 County: PROWERS
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

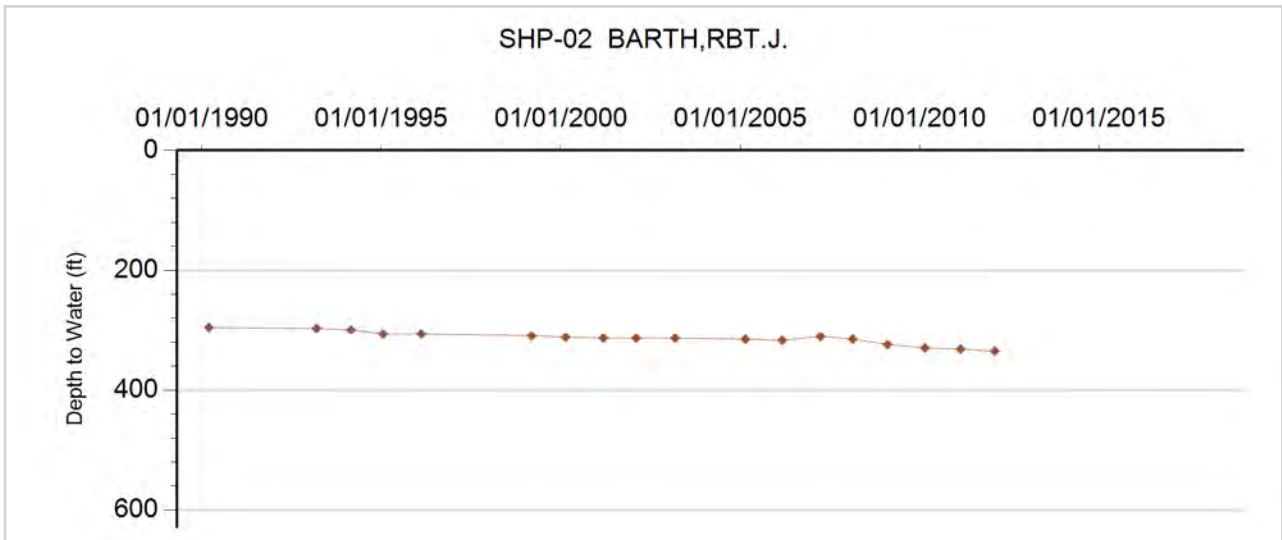
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/01/2018 | | | |
| 03/02/2017 | | | |
| 03/10/2016 | | | |
| 02/20/2015 | | | |
| 03/18/2014 | | | |
| 03/10/2013 | | | |
| 02/08/2012 | 335.00 | 3320.00 | 3.60 |
| 02/23/2011 | 331.40 | 3323.60 | 1.90 |
| 02/27/2010 | 329.50 | 3325.50 | 5.70 |
| 02/11/2009 | 323.80 | 3331.20 | 9.10 |

Construction Information

Surface Elevation (ft): 3655.00
 Well Depth (ft): 630.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA, CHEYENNE

Well Measurement Summary

Start Date: 03/12/1990 End Date: 03/01/2018
 Number of Measurements: 24





GROUNDWATER DETAILS

Well Name: SHP-03 WEEKS RANCHES INC.
Permit Number: 12269-FP
WDID:
Data Source: DWR

Location Number: SC02704229CBB
USGS Site ID: 373957102105800
Applicant/Contact: WEEKS RANCHES INC.

Physical Location

| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| | | NW | NW | SW | 29 | 27.0 S | 42.0 W | S | 748483.0 | 4172442.0 | GPS |

Division: 2 District: 67
 County: PROWERS
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

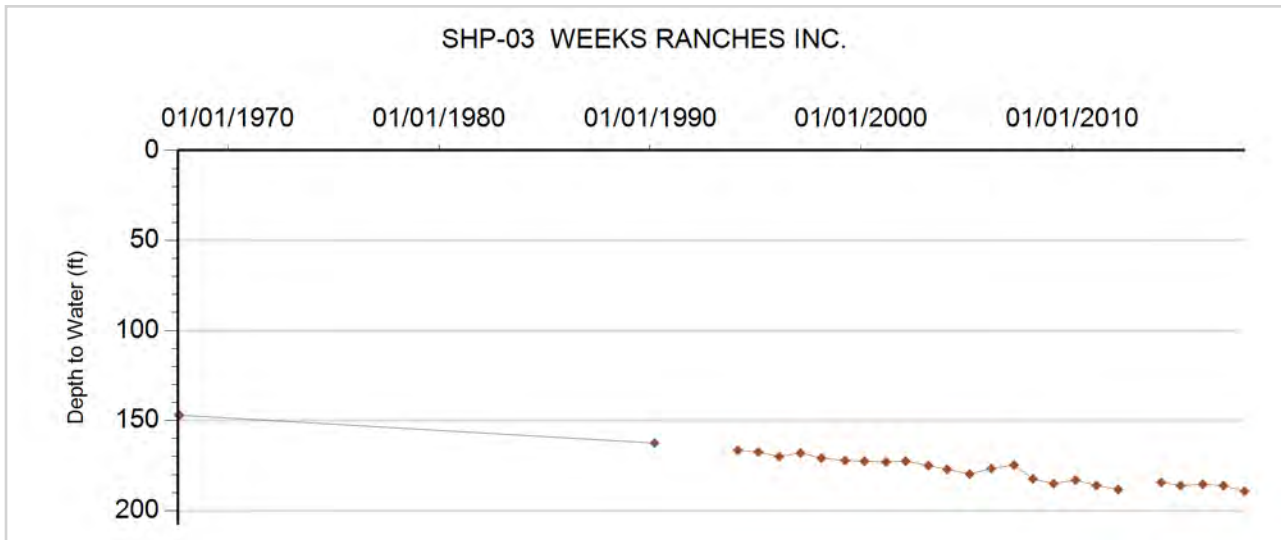
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/01/2018 | 189.30 | 3637.28 | 3.20 |
| 03/02/2017 | 186.10 | 3640.48 | 0.69 |
| 03/10/2016 | 185.41 | 3641.17 | -0.67 |
| 02/20/2015 | 186.08 | 3640.50 | 1.75 |
| 03/18/2014 | 184.33 | 3642.25 | |
| 03/10/2013 | | | |
| 03/06/2012 | 188.30 | 3638.28 | 2.30 |
| 02/23/2011 | 186.00 | 3640.58 | 3.00 |
| 02/27/2010 | 183.00 | 3643.58 | -2.00 |
| 02/11/2009 | 185.00 | 3641.58 | 2.60 |

Construction Information

Surface Elevation (ft): 3826.58
 Well Depth (ft): 208.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): OGALLALA

Well Measurement Summary

Start Date: 09/01/1967 End Date: 03/01/2018
 Number of Measurements: 29





GROUNDWATER DETAILS

Well Name: SHP-04 NUSSER,D.
Permit Number: 21218-FP
WDID:
Data Source: DWR

Location Number: SC02804304ADD1
USGS Site ID: 373816102152001
Applicant/Contact: NUSSER,D.

Physical Location

| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| | | SE | SE | NE | 4 | 28.0 S | 43.0 W | S | 742122.0 | 4169234.0 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

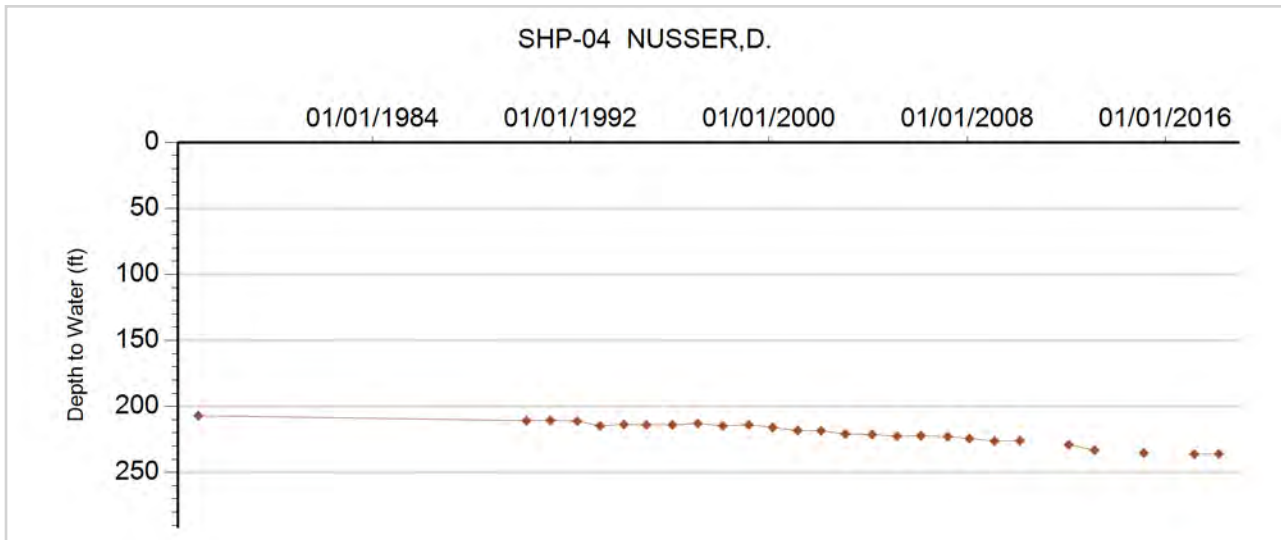
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/01/2018 | 236.01 | 3700.64 | -0.13 |
| 03/02/2017 | 236.14 | 3700.51 | |
| 03/09/2016 | | | |
| 02/20/2015 | 235.14 | 3701.51 | |
| 03/18/2014 | | | |
| 02/23/2013 | 233.10 | 3703.55 | 4.10 |
| 02/08/2012 | 229.00 | 3707.65 | |
| 04/13/2011 | | | |
| 02/18/2010 | 225.90 | 3710.75 | -0.30 |
| 02/07/2009 | 226.20 | 3710.45 | 1.90 |

Construction Information

Surface Elevation (ft): 3936.65
 Well Depth (ft): 292.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): OGALLALA

Well Measurement Summary

Start Date: 12/22/1976 End Date: 03/01/2018
 Number of Measurements: 30





GROUNDWATER DETAILS

Well Name: SHP-05 SCHNABEL,D.L.
Permit Number: 15639-FP
WDID:
Data Source: DWR

Location Number: SC02804304CA
USGS Site ID:
Applicant/Contact: SCHNABEL,D.L.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | NE | SW | 4 | 28.0 S | 43.0 W | S | 741337.5 | 4169041.4 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

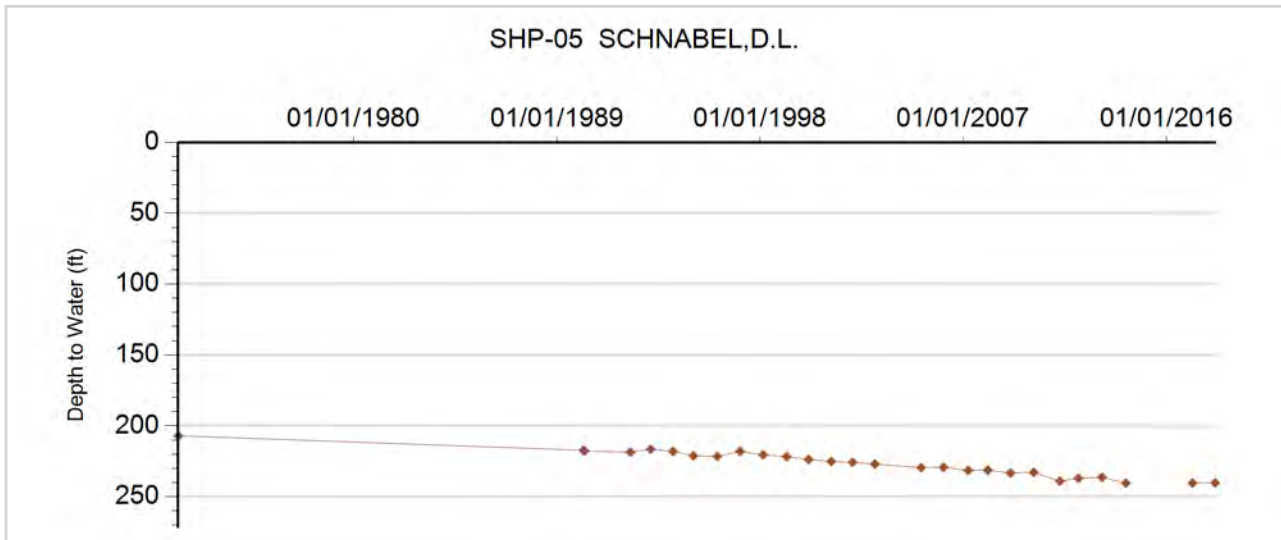
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/01/2018 | 240.19 | 3709.81 | -0.06 |
| 03/02/2017 | 240.25 | 3709.75 | |
| 03/09/2016 | | | |
| 02/20/2015 | | | |
| 03/18/2014 | 240.39 | 3709.61 | 4.09 |
| 02/23/2013 | 236.30 | 3713.70 | -0.70 |
| 02/08/2012 | 237.00 | 3713.00 | -2.00 |
| 04/14/2011 | 239.00 | 3711.00 | 6.20 |
| 02/18/2010 | 232.80 | 3717.20 | -0.50 |
| 02/06/2009 | 233.30 | 3716.70 | 2.10 |

Construction Information

Surface Elevation (ft): 3950.00
 Well Depth (ft): 272.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): OGALLALA

Well Measurement Summary

Start Date: 03/30/1972 End Date: 03/01/2018
 Number of Measurements: 29





GROUNDWATER DETAILS

Well Name: SHP-06 MEYERS, S.
Permit Number: 9222-FP
WDID:
Data Source: DWR

Location Number: SC02804308BA
USGS Site ID:
Applicant/Contact: MEYERS, S.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | NE | NW | 8 | 28.0 S | 43.0 W | S | 739792.0 | 4166605.0 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

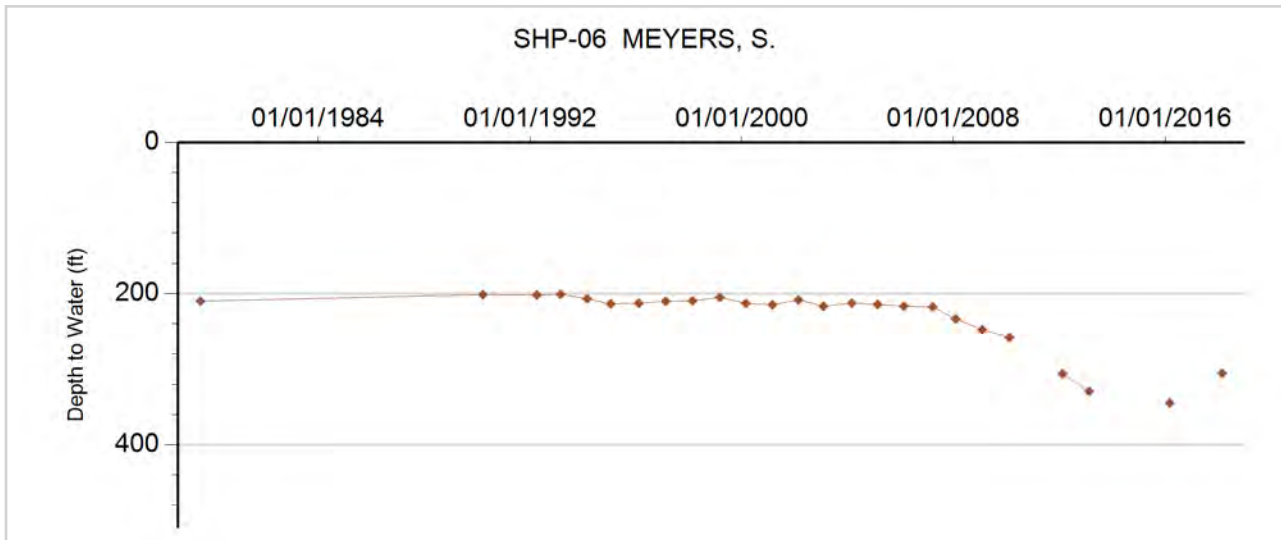
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/01/2018 | 305.45 | 3668.55 | |
| 03/02/2017 | | | |
| 03/09/2016 | 344.66 | 3629.34 | |
| 02/20/2015 | | | |
| 03/03/2014 | | | |
| 02/18/2013 | 329.50 | 3644.50 | 23.30 |
| 02/18/2012 | 306.20 | 3667.80 | |
| 04/13/2011 | | | |
| 02/14/2010 | 258.20 | 3715.80 | 10.40 |
| 02/03/2009 | 247.80 | 3726.20 | 14.30 |

Construction Information

Surface Elevation (ft): 3974.00
 Well Depth (ft): 510.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): OGALLALA, DAKOTA

Well Measurement Summary

Start Date: 07/17/1979 End Date: 03/01/2018
 Number of Measurements: 29





GROUNDWATER DETAILS

Well Name: SHP-07 GRIFFIN,L.& OTHERS
Permit Number: 6081-FP
WDID:
Data Source: DWR

Location Number: SC02804321BDD
USGS Site ID:
Applicant/Contact: GRIFFIN,L.& OTHERS

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | SE | SE | NW | 21 | 28.0 S | 43.0 W | S | 741391.2 | 4164223.6 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

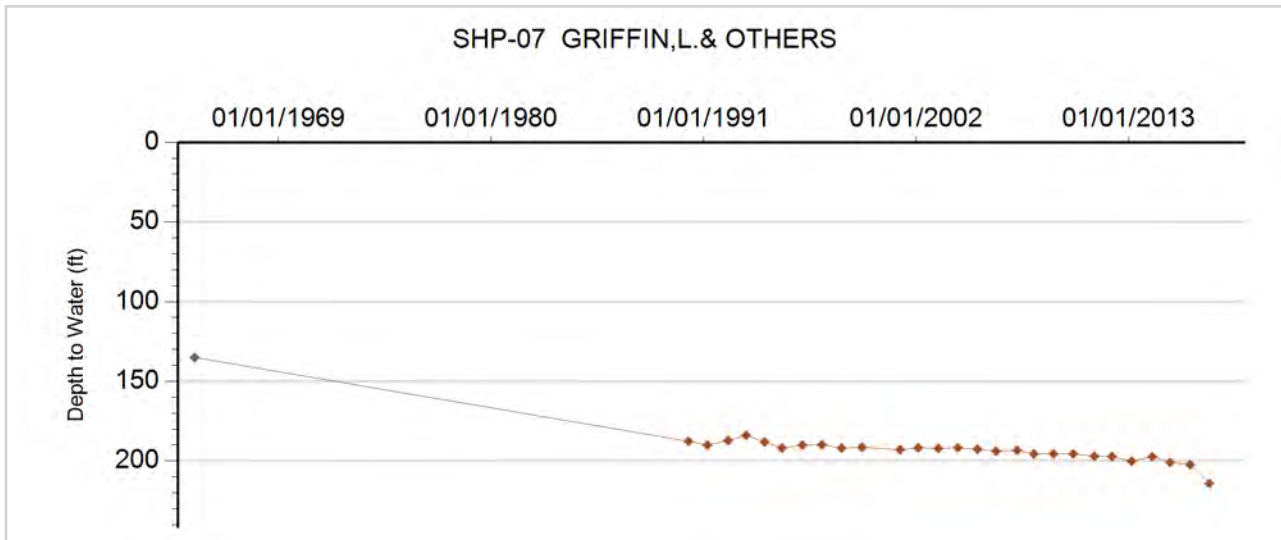
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/01/2018 | | | |
| 03/02/2017 | 214.08 | 3745.92 | 11.81 |
| 03/09/2016 | 202.27 | 3757.73 | 1.39 |
| 02/20/2015 | 200.88 | 3759.12 | 3.69 |
| 03/18/2014 | 197.19 | 3762.81 | -2.91 |
| 02/24/2013 | 200.10 | 3759.90 | 2.90 |
| 02/18/2012 | 197.20 | 3762.80 | 0.20 |
| 03/22/2011 | 197.00 | 3763.00 | 1.50 |
| 02/14/2010 | 195.50 | 3764.50 | 0.00 |
| 02/04/2009 | 195.50 | 3764.50 | 0.00 |

Construction Information

Surface Elevation (ft): 3960.00
 Well Depth (ft): 242.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft): 156
 Depth to Bottom of Perforated Casing (ft): 227
 Source Aquifer(s): OGALLALA, DAKOTA

Well Measurement Summary

Start Date: 08/29/1964 End Date: 03/01/2018
 Number of Measurements: 29





GROUNDWATER DETAILS

Well Name: SHP-08 COGBURN,A.
Permit Number: 6190-F
WDID:
Data Source: DWR

Location Number: SC02804329AAA
USGS Site ID:
Applicant/Contact: COGBURN,A.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | NE | NE | NE | 29 | 28.0 S | 43.0 W | S | 740540.2 | 4163308.9 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

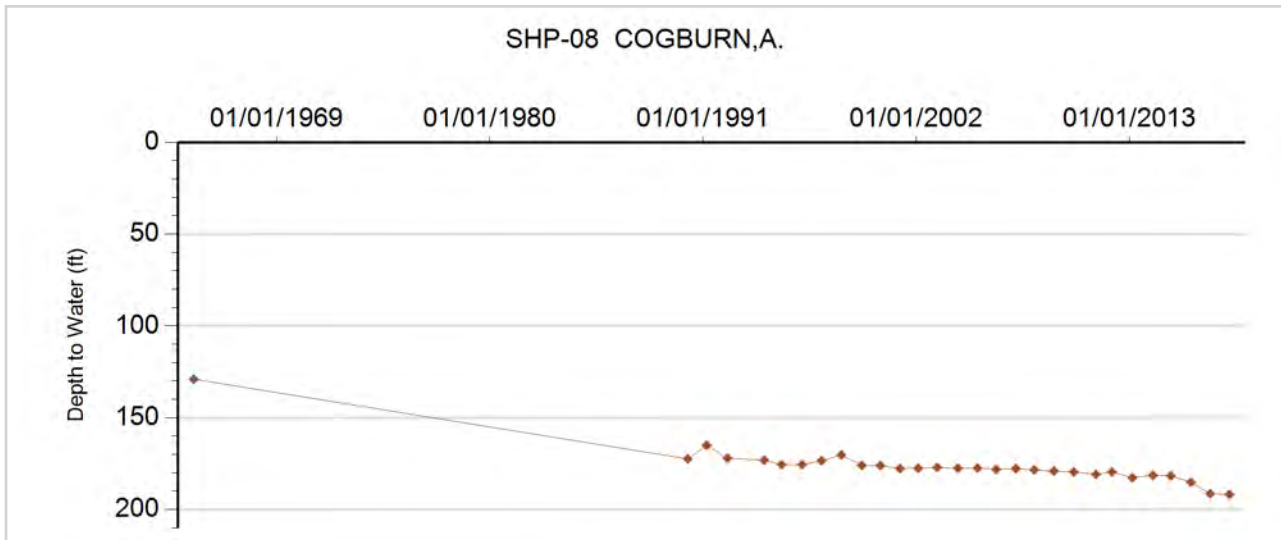
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/01/2018 | 191.81 | 3748.19 | 0.51 |
| 03/02/2017 | 191.30 | 3748.70 | 6.16 |
| 03/09/2016 | 185.14 | 3754.86 | 3.54 |
| 02/20/2015 | 181.60 | 3758.40 | 0.27 |
| 03/21/2014 | 181.33 | 3758.67 | -1.27 |
| 02/25/2013 | 182.60 | 3757.40 | 3.10 |
| 02/08/2012 | 179.50 | 3760.50 | -1.30 |
| 04/13/2011 | 180.80 | 3759.20 | 1.30 |
| 02/18/2010 | 179.50 | 3760.50 | 0.50 |
| 02/07/2009 | 179.00 | 3761.00 | 0.60 |

Construction Information

Surface Elevation (ft): 3940.00
 Well Depth (ft): 210.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): OGALLALA, DAKOTA

Well Measurement Summary

Start Date: 09/24/1964 End Date: 03/01/2018
 Number of Measurements: 29





GROUNDWATER DETAILS

Well Name: SHP-09 COGBURN, B.
Permit Number: 6183-FP
WDID:
Data Source: DWR

Location Number: SC02804410AAA
USGS Site ID:
Applicant/Contact: COGBURN, B.

Physical Location

| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| | | NE | NE | NE | 10 | 28.0 S | 44.0 W | S | 734114.4 | 4167972.4 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

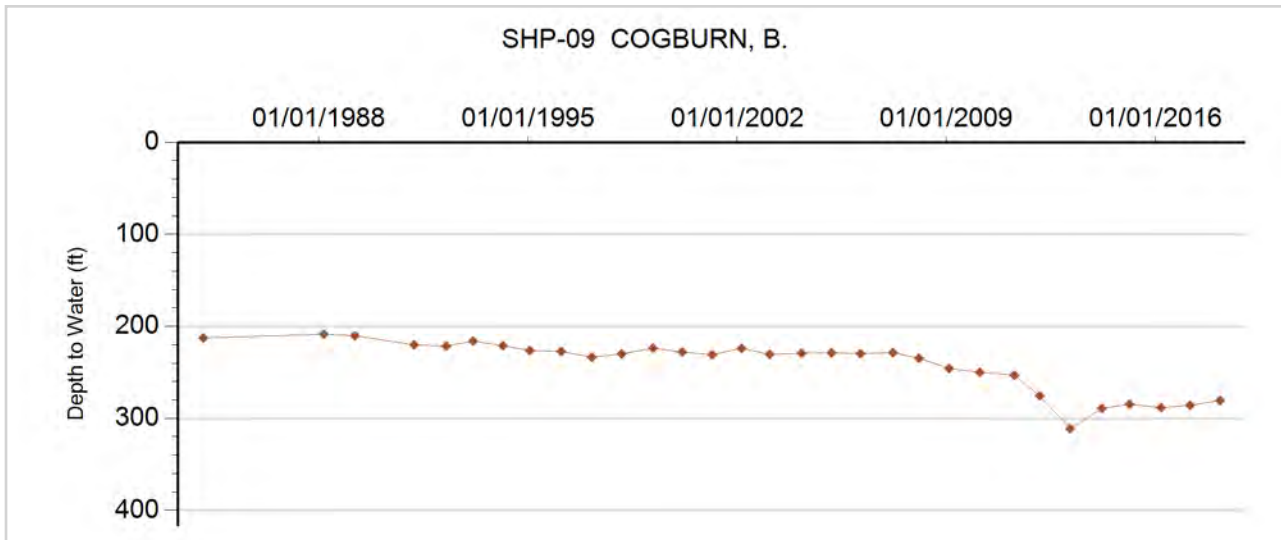
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/01/2018 | 280.59 | 3776.41 | -5.23 |
| 03/02/2017 | 285.82 | 3771.18 | -2.55 |
| 03/09/2016 | 288.37 | 3768.63 | 3.68 |
| 02/20/2015 | 284.69 | 3772.31 | -4.41 |
| 03/18/2014 | 289.10 | 3767.90 | -22.00 |
| 02/23/2013 | 311.10 | 3745.90 | 35.70 |
| 02/18/2012 | 275.40 | 3781.60 | 22.40 |
| 04/13/2011 | 253.00 | 3804.00 | 3.10 |
| 02/14/2010 | 249.90 | 3807.10 | 4.10 |
| 02/03/2009 | 245.80 | 3811.20 | 11.20 |

Construction Information

Surface Elevation (ft): 4057.00
 Well Depth (ft): 417.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): CHEYENNE

Well Measurement Summary

Start Date: 02/17/1984 End Date: 03/01/2018
 Number of Measurements: 31





GROUNDWATER DETAILS

Well Name: SHP-10 BELIN,OSCAR & ALTA
Permit Number: 5498-FP
WDID:
Data Source: DWR

Location Number: SC02804501BB
USGS Site ID:
Applicant/Contact: BELIN,OSCAR & ALTA

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | NW | NW | 1 | 28.0 S | 45.0 W | S | 726084.0 | 4169281.0 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

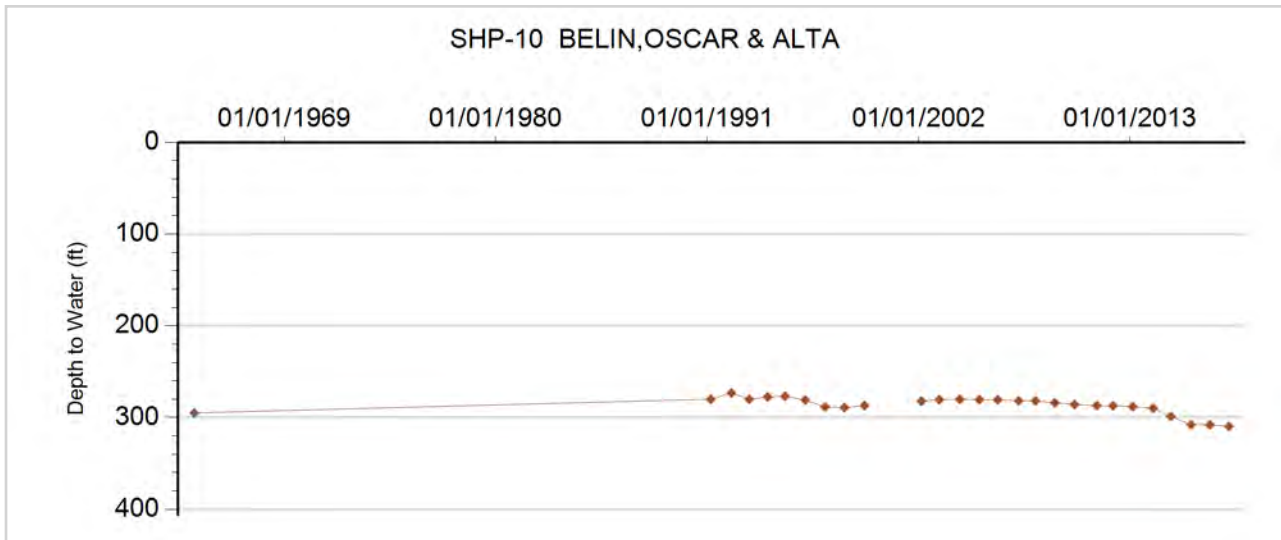
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2018 | 309.55 | 3875.45 | 1.61 |
| 03/01/2017 | 307.94 | 3877.06 | 0.12 |
| 03/09/2016 | 307.82 | 3877.18 | 9.10 |
| 02/20/2015 | 298.72 | 3886.28 | 8.93 |
| 03/18/2014 | 289.79 | 3895.21 | 1.69 |
| 02/23/2013 | 288.10 | 3896.90 | 0.90 |
| 02/18/2012 | 287.20 | 3897.80 | 0.20 |
| 04/12/2011 | 287.00 | 3898.00 | 1.30 |
| 02/14/2010 | 285.70 | 3899.30 | 1.80 |
| 02/07/2009 | 283.90 | 3901.10 | 2.10 |

Construction Information

Surface Elevation (ft): 4185.00
 Well Depth (ft): 407.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft): 207
 Depth to Bottom of Perforated Casing (ft): 407
 Source Aquifer(s): DAKOTA, DOCKUM

Well Measurement Summary

Start Date: 04/24/1964 End Date: 02/28/2018
 Number of Measurements: 29





GROUNDWATER DETAILS

Well Name: SHP-11 AUSMUS,G,& S. 1
Permit Number: 9350-FP
WDID:
Data Source: DWR

Location Number: SC02804514ADC
USGS Site ID:
Applicant/Contact: AUSMUS,G,& S.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | SW | SE | NE | 14 | 28.0 S | 45.0 W | S | 727567.5 | 4163814.8 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

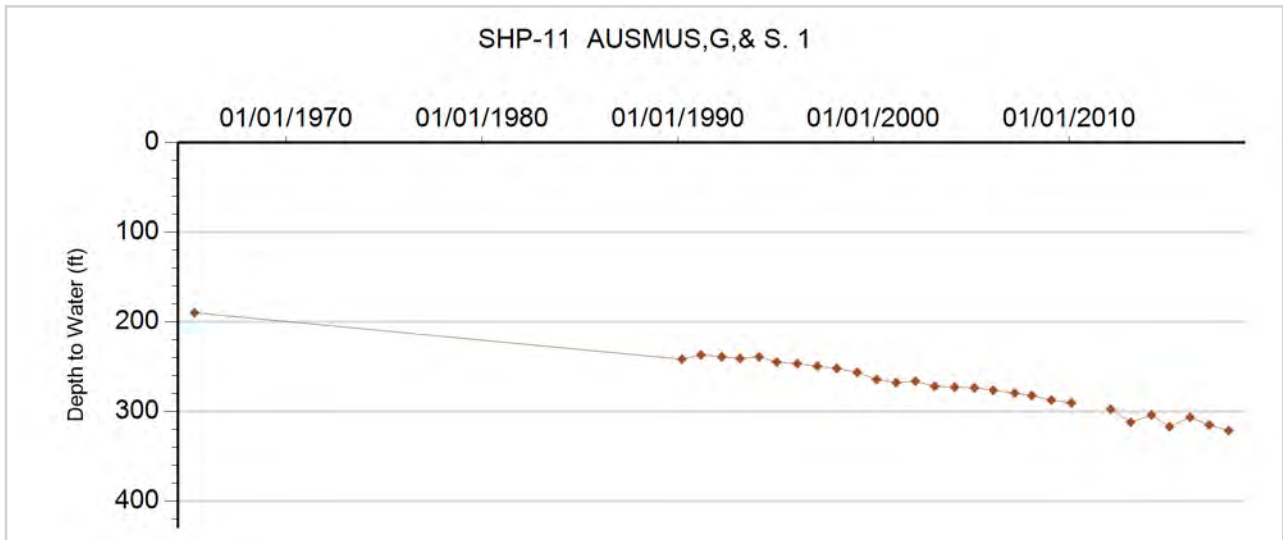
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2018 | 321.37 | 3828.63 | 6.23 |
| 03/01/2017 | 315.14 | 3834.86 | 8.50 |
| 03/09/2016 | 306.64 | 3843.36 | -10.44 |
| 02/20/2015 | 317.08 | 3832.92 | 12.98 |
| 03/18/2014 | 304.10 | 3845.90 | -8.00 |
| 02/23/2013 | 312.10 | 3837.90 | 14.50 |
| 02/18/2012 | 297.60 | 3852.40 | |
| 04/13/2011 | | | |
| 02/14/2010 | 290.50 | 3859.50 | 3.00 |
| 02/03/2009 | 287.50 | 3862.50 | 5.20 |

Construction Information

Surface Elevation (ft): 4150.00
 Well Depth (ft): 430.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA, CHEYENNE

Well Measurement Summary

Start Date: 04/23/1965 End Date: 02/28/2018
 Number of Measurements: 30





GROUNDWATER DETAILS

Well Name: SHP-12 AUSMUS,G.& S. 2
Permit Number: 5259-FP
WDID:
Data Source: DWR

Location Number: SC02804514CCC
USGS Site ID:
Applicant/Contact: AUSMUS,G.& S.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | SW | SW | SW | 14 | 28.0 S | 45.0 W | S | 724639.1 | 4164534.9 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

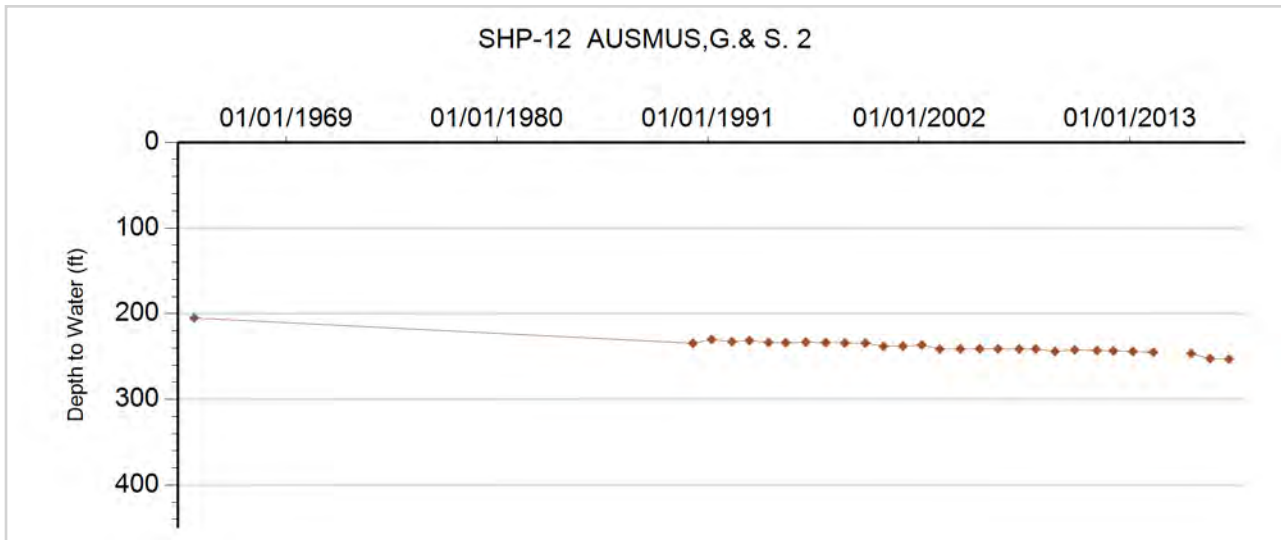
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2018 | 253.00 | 3952.00 | 0.66 |
| 03/01/2017 | 252.34 | 3952.66 | 5.84 |
| 03/09/2016 | 246.50 | 3958.50 | |
| 02/20/2015 | | | |
| 03/18/2014 | 244.87 | 3960.13 | 0.77 |
| 02/23/2013 | 244.10 | 3960.90 | 0.80 |
| 02/18/2012 | 243.30 | 3961.70 | 0.40 |
| 04/13/2011 | 242.90 | 3962.10 | 0.80 |
| 02/14/2010 | 242.10 | 3962.90 | -1.90 |
| 02/03/2009 | 244.00 | 3961.00 | 2.90 |

Construction Information

Surface Elevation (ft): 4205.00
 Well Depth (ft): 450.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): CHEYENNE

Well Measurement Summary

Start Date: 03/23/1964 End Date: 02/28/2018
 Number of Measurements: 30





GROUNDWATER DETAILS

Well Name: SHP-13 KITZMILLER,K.& M.
Permit Number: 10080-FP
WDID:
Data Source: DWR

Location Number: SC02804613BCC
USGS Site ID: 373626102324700
Applicant/Contact: KITZMILLER,K.& M.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | SW | SW | NW | 13 | 28.0 S | 46.0 W | S | 716484.0 | 4165090.0 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

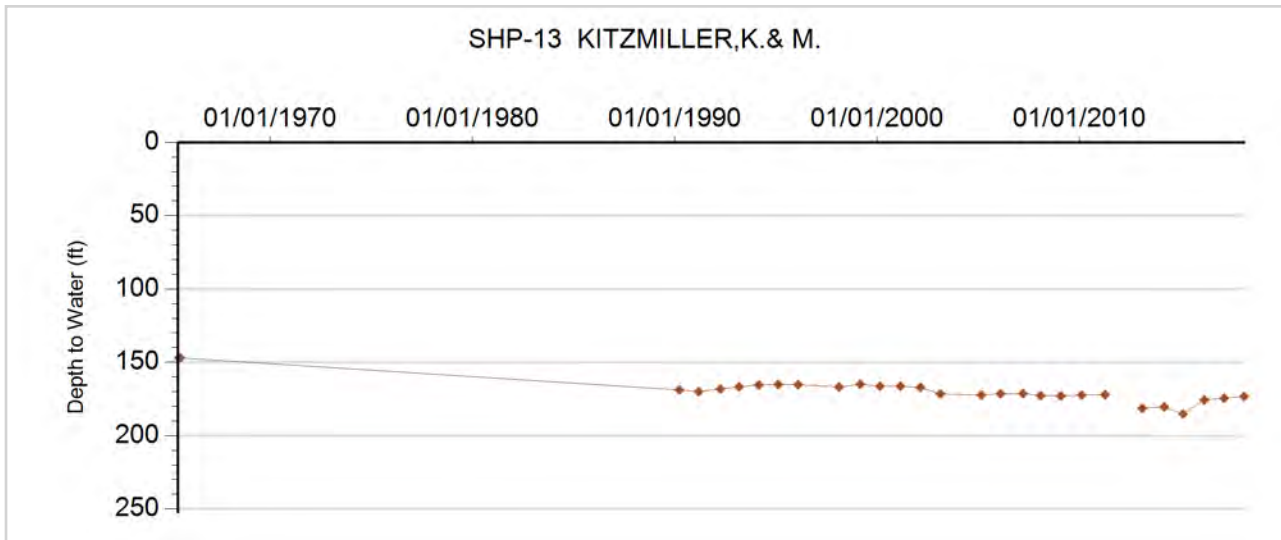
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2018 | 173.29 | 4138.67 | -1.16 |
| 03/01/2017 | 174.45 | 4137.51 | -1.15 |
| 03/09/2016 | 175.60 | 4136.36 | -9.59 |
| 02/19/2015 | 185.19 | 4126.77 | 4.79 |
| 03/18/2014 | 180.40 | 4131.56 | -0.90 |
| 02/16/2013 | 181.30 | 4130.66 | |
| 02/18/2012 | | | |
| 04/13/2011 | 172.10 | 4139.86 | -0.20 |
| 02/14/2010 | 172.30 | 4139.66 | -0.60 |
| 02/03/2009 | 172.90 | 4139.06 | 0.20 |

Construction Information

Surface Elevation (ft): 4311.96
 Well Depth (ft): 253.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): CHEYENNE

Well Measurement Summary

Start Date: 07/01/1965 End Date: 02/28/2018
 Number of Measurements: 29





GROUNDWATER DETAILS

Well Name: SHP-14 KITZMILLER,MARY F.
Permit Number: 9444-FP
WDID:
Data Source: DWR

Location Number: SC02804616BCB
USGS Site ID:
Applicant/Contact: KITZMILLER,MARY F.

Physical Location

| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| | | NW | SW | NW | 16 | 28.0 S | 46.0 W | S | 711662.1 | 4165227.2 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

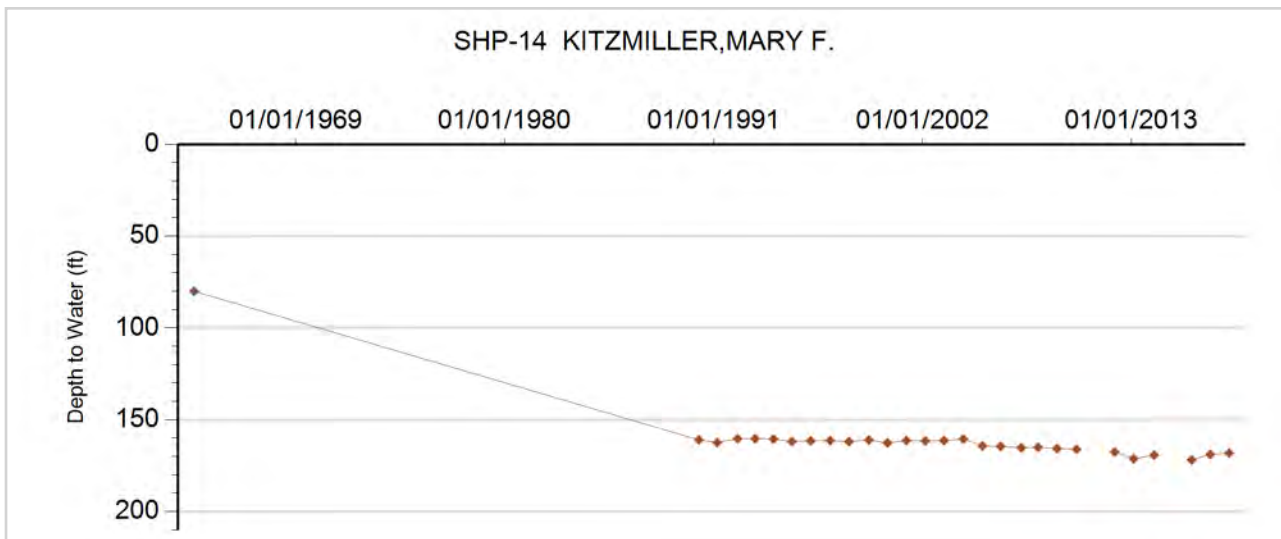
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2018 | 168.15 | 4216.85 | -0.72 |
| 03/01/2017 | 168.87 | 4216.13 | -3.02 |
| 03/09/2016 | 171.89 | 4213.11 | |
| 02/19/2015 | | | |
| 03/18/2014 | 169.29 | 4215.71 | -1.91 |
| 02/17/2013 | 171.20 | 4213.80 | 3.60 |
| 02/18/2012 | 167.60 | 4217.40 | |
| 04/12/2011 | | | |
| 02/14/2010 | 166.10 | 4218.90 | 0.40 |
| 02/03/2009 | 165.70 | 4219.30 | 0.70 |

Construction Information

Surface Elevation (ft): 4385.00
 Well Depth (ft): 210.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA

Well Measurement Summary

Start Date: 08/22/1963 End Date: 02/28/2018
 Number of Measurements: 30





GROUNDWATER DETAILS

Well Name: SHP-15 MOORE
Permit Number: 9835-
WDID:
Data Source: DWR

Location Number: SC02804835DCD
USGS Site ID:
Applicant/Contact: MOORE

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | SE | SW | SE | 35 | 28.0 S | 48.0 W | S | 696769.0 | 4159141.0 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

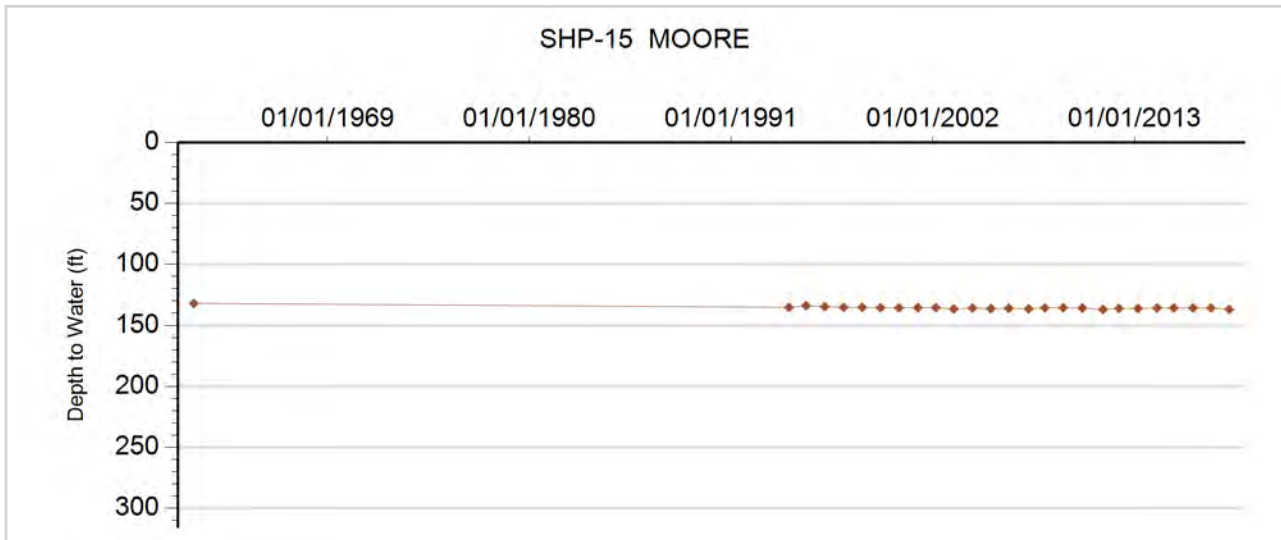
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2018 | 136.97 | 4473.03 | 1.22 |
| 03/01/2017 | 135.75 | 4474.25 | 0.02 |
| 03/09/2016 | 135.73 | 4474.27 | 0.03 |
| 02/19/2015 | 135.70 | 4474.30 | -0.04 |
| 03/25/2014 | 135.74 | 4474.26 | -0.46 |
| 03/08/2013 | 136.20 | 4473.80 | 0.10 |
| 02/25/2012 | 136.10 | 4473.90 | -0.90 |
| 04/12/2011 | 137.00 | 4473.00 | 1.20 |
| 02/24/2010 | 135.80 | 4474.20 | 0.20 |
| 02/06/2009 | 135.60 | 4474.40 | 0.00 |

Construction Information

Surface Elevation (ft): 4610.00
 Well Depth (ft): 316.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA

Well Measurement Summary

Start Date: 09/22/1961 End Date: 02/28/2018
 Number of Measurements: 26





GROUNDWATER DETAILS

Well Name: SHP-16 COMMERCE RANCH 1
Permit Number:
WDID:
Data Source: DWR

Location Number: SC02904315CCB
USGS Site ID: 373058102151500
Applicant/Contact: COMMERCE RANCH

Physical Location

| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| | | NW | SW | SW | 15 | 29.0 S | 43.0 W | S | 742599.0 | 4155748.0 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin:
 Management District:

Time Series Data - Ten Most Recent Reportings

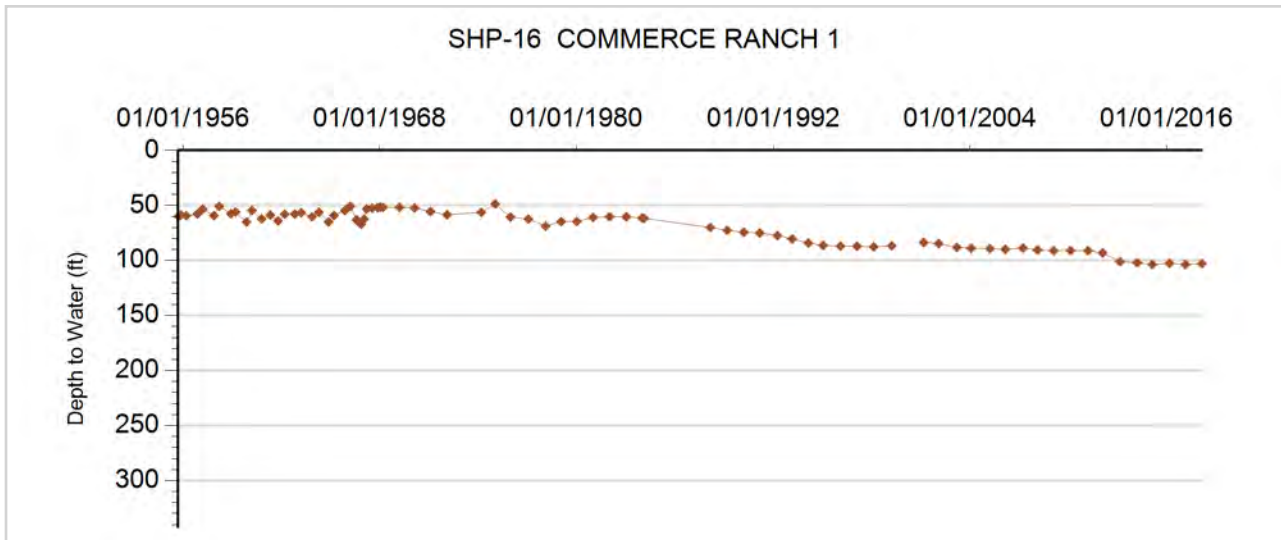
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/01/2018 | 102.89 | 3811.69 | -0.72 |
| 03/02/2017 | 103.61 | 3810.97 | 1.06 |
| 03/10/2016 | 102.55 | 3812.03 | -1.10 |
| 02/20/2015 | 103.65 | 3810.93 | 1.64 |
| 03/20/2014 | 102.01 | 3812.57 | 0.91 |
| 03/02/2013 | 101.10 | 3813.48 | 8.00 |
| 02/08/2012 | 93.10 | 3821.48 | 2.10 |
| 03/23/2011 | 91.00 | 3823.58 | 0.00 |
| 02/26/2010 | 91.00 | 3823.58 | -0.10 |
| 02/11/2009 | 91.10 | 3823.48 | 0.70 |

Construction Information

Surface Elevation (ft): 3914.58
 Well Depth (ft): 343.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DOCKUM

Well Measurement Summary

Start Date: 09/20/1955 End Date: 03/01/2018
 Number of Measurements: 79





GROUNDWATER DETAILS

Well Name: SHP-17 COMMERCE RANCH 2
Permit Number: 18427-RFP
WDID:
Data Source: DWR

Location Number: SC02904316BB
USGS Site ID:
Applicant/Contact: COMMERCE RANCH

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | NW | NW | 16 | 29.0 S | 43.0 W | S | 740942.8 | 4156665.3 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

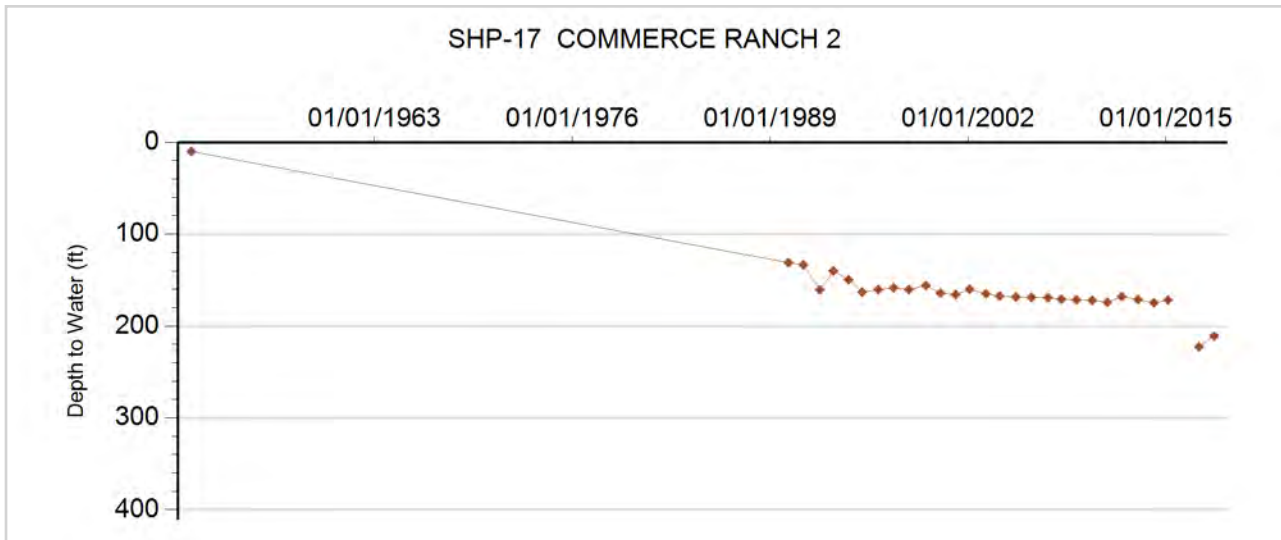
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/01/2018 | 210.90 | 3728.10 | -11.67 |
| 03/02/2017 | 222.57 | 3716.43 | |
| 03/10/2016 | | | |
| 02/20/2015 | 171.66 | 3767.34 | -3.03 |
| 03/20/2014 | 174.69 | 3764.31 | 3.59 |
| 03/02/2013 | 171.10 | 3767.90 | 3.10 |
| 02/08/2012 | 168.00 | 3771.00 | -6.10 |
| 02/23/2011 | 174.10 | 3764.90 | 2.10 |
| 02/26/2010 | 172.00 | 3767.00 | 0.50 |
| 02/11/2009 | 171.50 | 3767.50 | 0.80 |

Construction Information

Surface Elevation (ft): 3939.00
 Well Depth (ft): 411.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA, CHEYENNE

Well Measurement Summary

Start Date: 01/01/1951 End Date: 03/01/2018
 Number of Measurements: 30





GROUNDWATER DETAILS

Well Name: SHP-18 COMMERCE RANCH 3
Permit Number: 18427-SFP
WDID:
Data Source: DWR

Location Number: SC02904316CBB
USGS Site ID:
Applicant/Contact: COMMERCE RANCH

Physical Location

| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| 1914 S | 112 W | NW | NW | SW | 16 | 29.0 S | 43.0 W | S | 740959.7 | 4156029.1 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

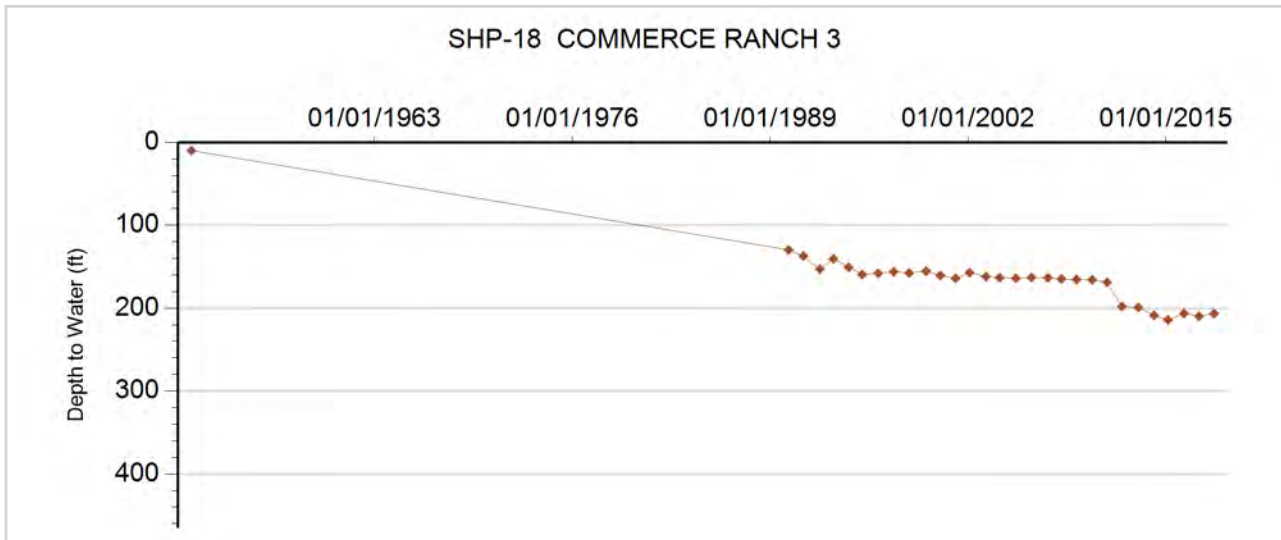
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/01/2018 | 206.44 | 3729.56 | -3.13 |
| 03/02/2017 | 209.57 | 3726.43 | 3.17 |
| 03/10/2016 | 206.40 | 3729.60 | -7.70 |
| 02/20/2015 | 214.10 | 3721.90 | 5.44 |
| 03/20/2014 | 208.66 | 3727.34 | 9.56 |
| 03/08/2013 | 199.10 | 3736.90 | 1.10 |
| 02/08/2012 | 198.00 | 3738.00 | 29.20 |
| 02/21/2011 | 168.80 | 3767.20 | 3.00 |
| 02/26/2010 | 165.80 | 3770.20 | 0.30 |
| 02/13/2009 | 165.50 | 3770.50 | 0.70 |

Construction Information

Surface Elevation (ft): 3936.00
 Well Depth (ft): 465.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA, CHEYENNE

Well Measurement Summary

Start Date: 01/01/1951 End Date: 03/01/2018
 Number of Measurements: 30





GROUNDWATER DETAILS

Well Name: SHP-19 COMMERCE RANCH 4
Permit Number: 67883-
WDID:
Data Source: DWR

Location Number: SC02904321BAD
USGS Site ID:
Applicant/Contact: COMMERCE RANCH

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | SE | NE | NW | 21 | 29.0 S | 43.0 W | S | 741741.0 | 4155067.0 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

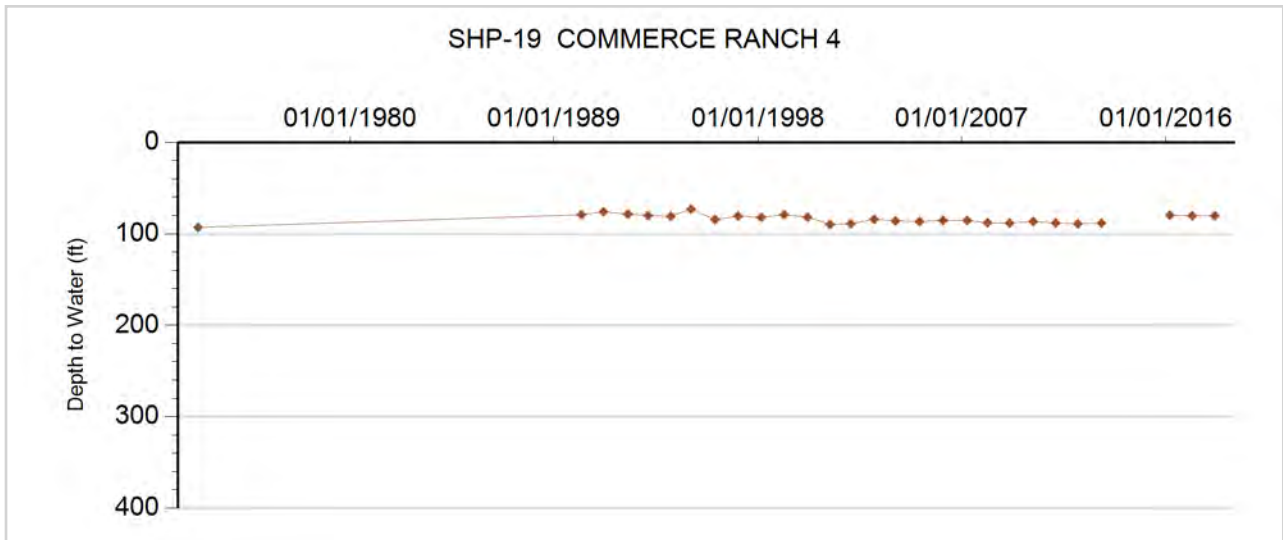
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/01/2018 | 80.27 | 3834.73 | -0.03 |
| 03/02/2017 | 80.30 | 3834.70 | 0.59 |
| 03/10/2016 | 79.71 | 3835.29 | |
| 02/20/2015 | | | |
| 03/20/2014 | | | |
| 03/02/2013 | 88.40 | 3826.60 | -0.70 |
| 02/18/2012 | 89.10 | 3825.90 | 0.80 |
| 02/22/2011 | 88.30 | 3826.70 | 1.70 |
| 02/26/2010 | 86.60 | 3828.40 | -1.70 |
| 02/11/2009 | 88.30 | 3826.70 | 0.30 |

Construction Information

Surface Elevation (ft): 3915.00
 Well Depth (ft): 400.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA, CHEYENNE

Well Measurement Summary

Start Date: 04/16/1973 End Date: 03/01/2018
 Number of Measurements: 30





GROUNDWATER DETAILS

Well Name: SHP-20 THOMPSON,H.J.
Permit Number: 12273-R
WDID:
Data Source: DWR

Location Number: SC02904331CCC
USGS Site ID:
Applicant/Contact: THOMPSON,H.J.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | SW | SW | SW | 31 | 29.0 S | 43.0 W | S | 737906.0 | 4150522.9 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

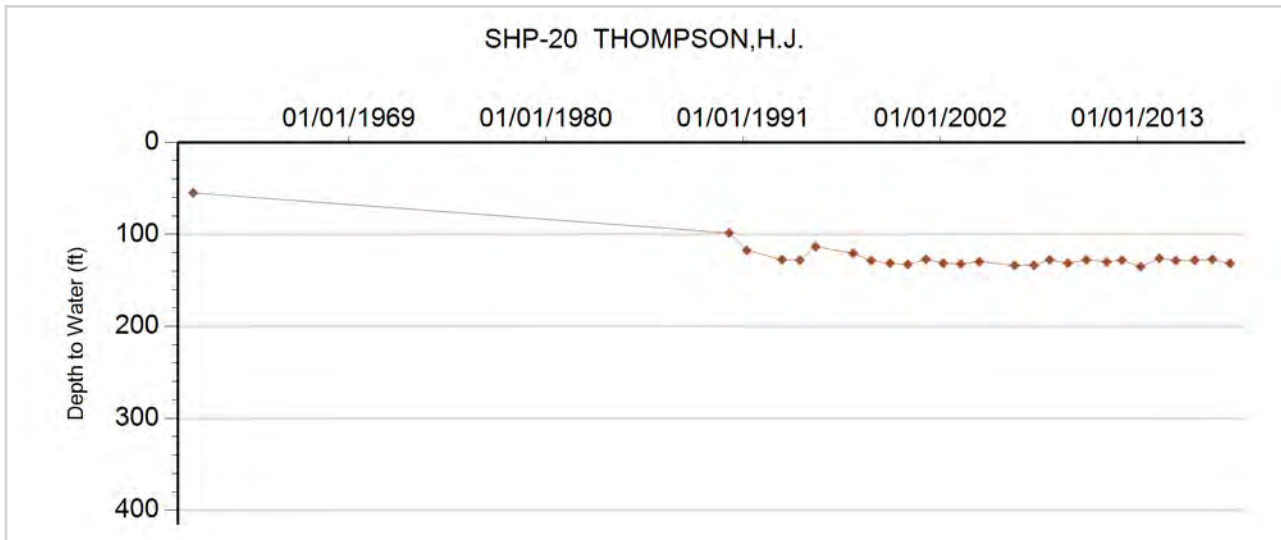
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/01/2018 | 131.69 | 3832.31 | 4.48 |
| 03/02/2017 | 127.21 | 3836.79 | -0.99 |
| 03/10/2016 | 128.20 | 3835.80 | -0.34 |
| 02/19/2015 | 128.54 | 3835.46 | 2.39 |
| 03/20/2014 | 126.15 | 3837.85 | -9.05 |
| 03/02/2013 | 135.20 | 3828.80 | 7.10 |
| 02/18/2012 | 128.10 | 3835.90 | -1.80 |
| 04/12/2011 | 129.90 | 3834.10 | 2.20 |
| 02/20/2010 | 127.70 | 3836.30 | -3.70 |
| 02/07/2009 | 131.40 | 3832.60 | 3.70 |

Construction Information

Surface Elevation (ft): 3964.00
 Well Depth (ft): 416.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA, CHEYENNE

Well Measurement Summary

Start Date: 04/20/1960 End Date: 03/01/2018
 Number of Measurements: 27





GROUNDWATER DETAILS

Well Name: SHP-21 SC02904415C
Permit Number: 10133-FP
WDID:
Data Source: DWR

Location Number: SC02904415CD
USGS Site ID:
Applicant/Contact:

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | SE | SW | 15 | 29.0 S | 44.0 W | S | 733706.2 | 4155531.0 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

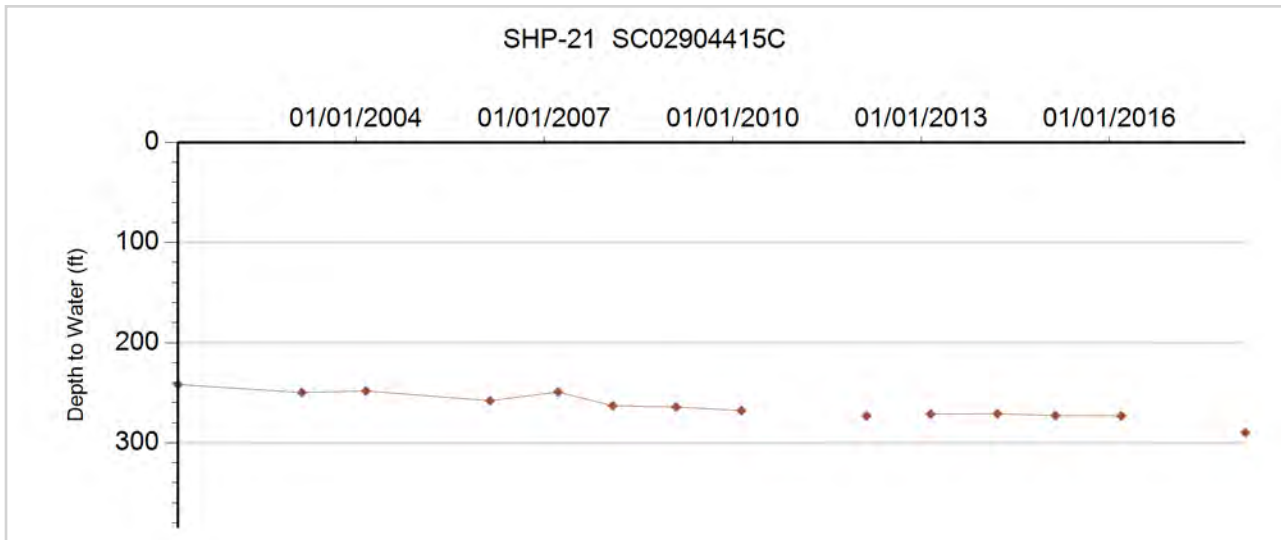
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2018 | 289.87 | 3755.13 | |
| 03/01/2017 | | | |
| 03/10/2016 | 273.08 | 3771.92 | 0.34 |
| 02/20/2015 | 272.74 | 3772.26 | 1.73 |
| 03/20/2014 | 271.01 | 3773.99 | -0.29 |
| 02/25/2013 | 271.30 | 3773.70 | |
| 02/24/2013 | | | |
| 02/18/2012 | 273.10 | 3771.90 | |
| 04/12/2011 | | | |
| 02/20/2010 | 267.80 | 3777.20 | 3.50 |

Construction Information

Surface Elevation (ft): 4045.00
 Well Depth (ft): 385.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA, CHEYENNE

Well Measurement Summary

Start Date: 03/04/2001 End Date: 02/28/2018
 Number of Measurements: 17





GROUNDWATER DETAILS

Well Name: SHP-22 DUNN-RED
Permit Number: 10173-F
WDID:
Data Source: DWR

Location Number: SC02904431CC
USGS Site ID:
Applicant/Contact: DUNN-RED

Physical Location

| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| 20 S | 2500 E | | SW | SW | 31 | 29.0 S | 44.0 W | S | 728293.5 | 4150245.8 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

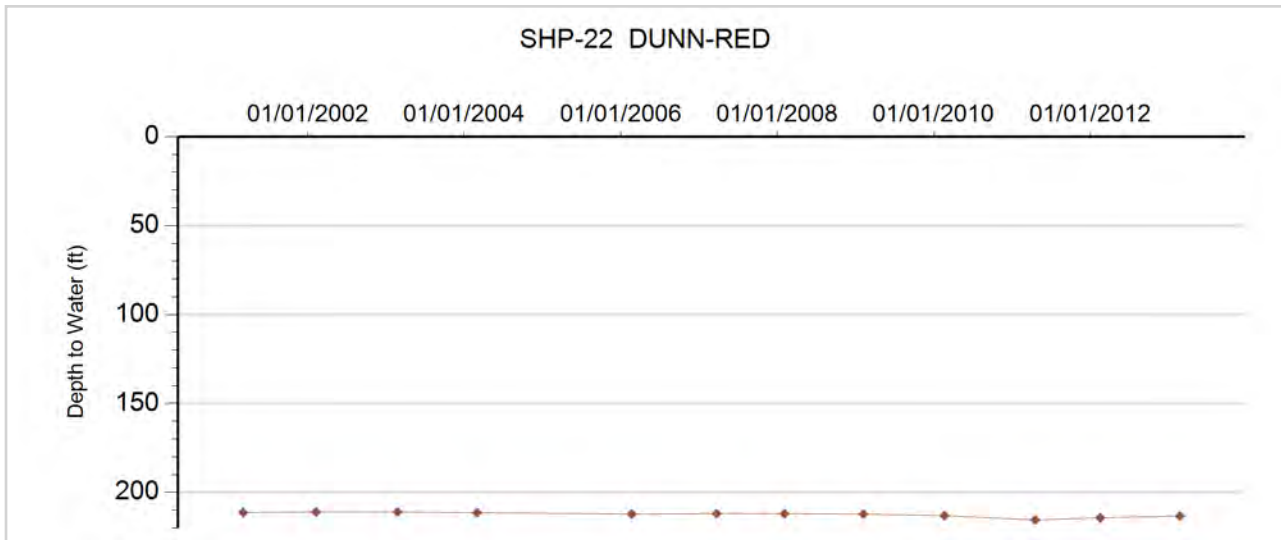
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/24/2013 | 213.30 | 3879.70 | -1.00 |
| 02/18/2012 | 214.30 | 3878.70 | -1.20 |
| 04/19/2011 | 215.50 | 3877.50 | 2.40 |
| 02/20/2010 | 213.10 | 3879.90 | 0.90 |
| 02/06/2009 | 212.20 | 3880.80 | 0.20 |
| 02/04/2008 | 212.00 | 3881.00 | 0.00 |
| 03/24/2007 | 212.00 | 3881.00 | -0.20 |
| 02/20/2006 | 212.20 | 3880.80 | 0.80 |
| 02/28/2004 | 211.40 | 3881.60 | 0.40 |
| 02/22/2003 | 211.00 | 3882.00 | 0.00 |

Construction Information

Surface Elevation (ft): 4093.00
 Well Depth (ft): 220.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA, ALL UNNAMED AQUIFERS

Well Measurement Summary

Start Date: 03/04/2001 End Date: 02/24/2013
 Number of Measurements: 12





GROUNDWATER DETAILS

Well Name: SHP-23 WILSON,F.
Permit Number: 3126-F
WDID:
Data Source: DWR

Location Number: SC02904605BB
USGS Site ID: 373308102370300
Applicant/Contact: WILSON,F.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | NW | NW | 5 | 29.0 S | 46.0 W | S | 710240.0 | 4158945.0 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2018 | 80.24 | 4301.78 | -0.45 |
| 03/01/2017 | 80.69 | 4301.33 | 0.19 |
| 03/09/2016 | 80.50 | 4301.52 | 0.12 |
| 02/19/2015 | 80.38 | 4301.64 | 0.11 |
| 03/20/2014 | 80.27 | 4301.75 | 0.07 |
| 03/08/2013 | 80.20 | 4301.82 | -0.70 |
| 02/25/2012 | 80.90 | 4301.12 | 0.40 |
| 04/12/2011 | 80.50 | 4301.52 | -0.40 |
| 02/24/2010 | 80.90 | 4301.12 | -0.30 |
| 02/06/2009 | 81.20 | 4300.82 | 0.10 |

Construction Information

Surface Elevation (ft): 4382.02
 Well Depth (ft): 132.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA

Well Measurement Summary

Start Date: 01/15/1965 End Date: 02/28/2018
 Number of Measurements: 51





GROUNDWATER DETAILS

Well Name: SHP-24 CHENOWETH,W.V.
Permit Number: 62402-
WDID:
Data Source: DWR

Location Number: SC02904607BBB
USGS Site ID:
Applicant/Contact: CHENOWETH,W.V.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | NW | NW | NW | 7 | 29.0 S | 46.0 W | S | 708818.0 | 4157678.0 | GPS |

Division: 2 District: 67
 County: PROWERS
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

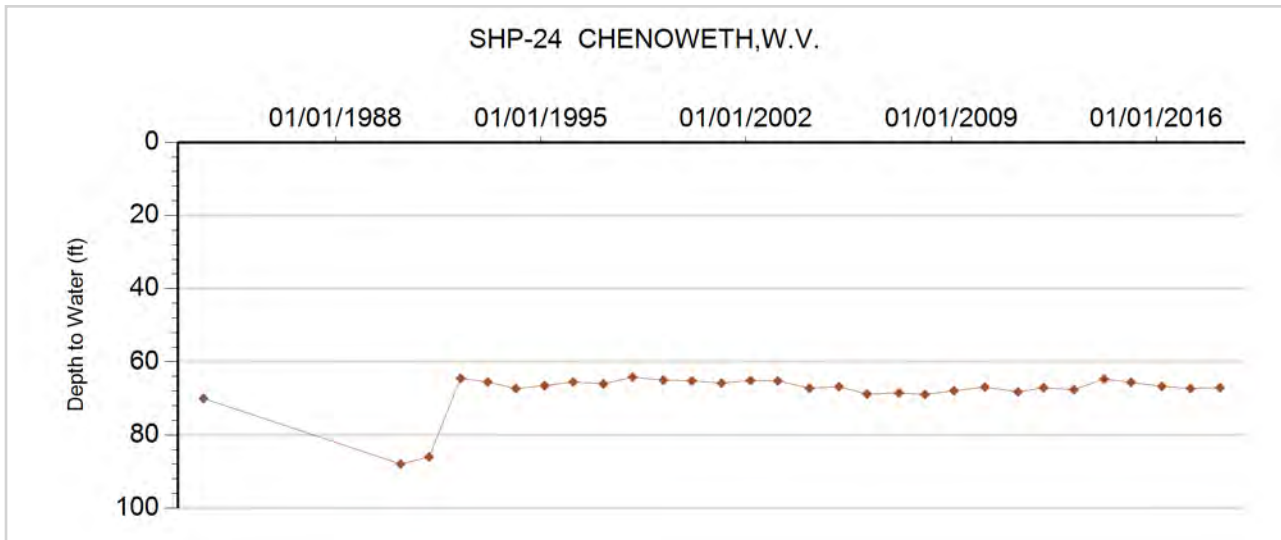
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2018 | 67.06 | 4312.94 | -0.22 |
| 03/01/2017 | 67.28 | 4312.72 | 0.60 |
| 03/09/2016 | 66.68 | 4313.32 | 1.07 |
| 02/19/2015 | 65.61 | 4314.39 | 0.91 |
| 03/20/2014 | 64.70 | 4315.30 | -2.90 |
| 03/08/2013 | 67.60 | 4312.40 | 0.50 |
| 02/25/2012 | 67.10 | 4312.90 | -1.10 |
| 04/12/2011 | 68.20 | 4311.80 | 1.30 |
| 02/24/2010 | 66.90 | 4313.10 | -1.00 |
| 02/03/2009 | 67.90 | 4312.10 | -1.00 |

Construction Information

Surface Elevation (ft): 4380.00
 Well Depth (ft): 100.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft): 70
 Depth to Bottom of Perforated Casing (ft): 100
 Source Aquifer(s): DAKOTA

Well Measurement Summary

Start Date: 07/01/1983 End Date: 02/28/2018
 Number of Measurements: 30





GROUNDWATER DETAILS

Well Name: SHP-25 BAMBER, M. R.
Permit Number: 593-RN
WDID:
Data Source: DWR

Location Number: SC02904828BBB
USGS Site ID:
Applicant/Contact: BAMBER, M. R.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | NW | NW | NW | 28 | 29.0 S | 48.0 W | S | 692804.5 | 4152286.8 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

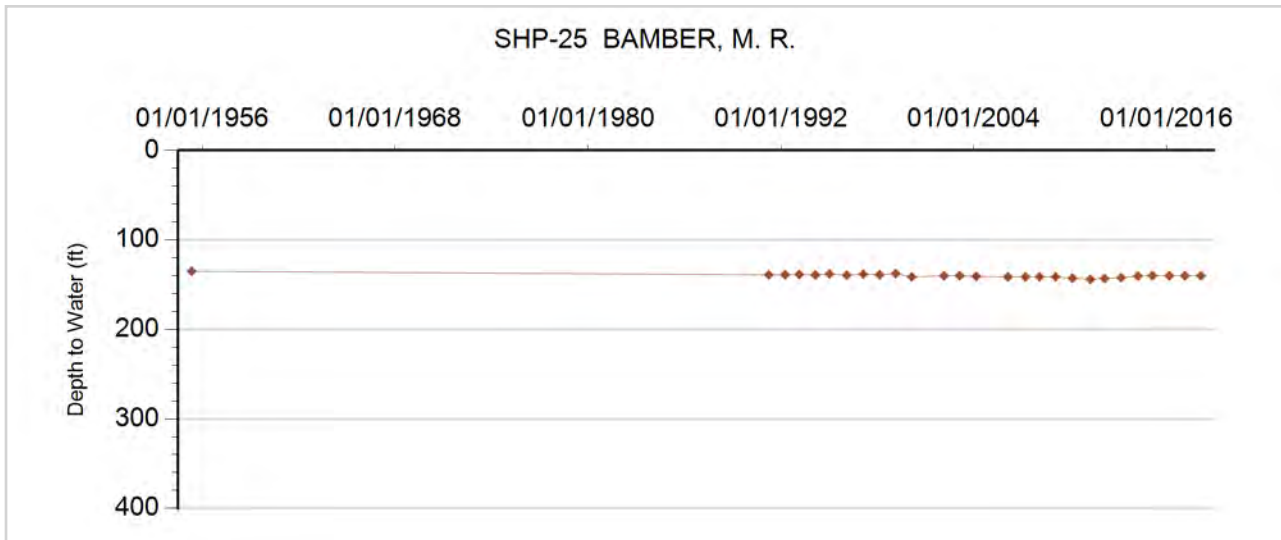
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2018 | 140.04 | 4534.96 | 0.01 |
| 03/01/2017 | 140.03 | 4534.97 | -0.01 |
| 03/09/2016 | 140.04 | 4534.96 | 0.18 |
| 02/19/2015 | 139.86 | 4535.14 | -0.50 |
| 03/25/2014 | 140.36 | 4534.64 | -1.84 |
| 03/08/2013 | 142.20 | 4532.80 | -0.90 |
| 02/25/2012 | 143.10 | 4531.90 | -0.90 |
| 04/13/2011 | 144.00 | 4531.00 | 1.30 |
| 02/24/2010 | 142.70 | 4532.30 | 1.50 |
| 02/06/2009 | 141.20 | 4533.80 | 0.00 |

Construction Information

Surface Elevation (ft): 4675.00
 Well Depth (ft): 401.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft): 350
 Depth to Bottom of Perforated Casing (ft): 401
 Source Aquifer(s): DAKOTA, CHEYENNE

Well Measurement Summary

Start Date: 05/05/1955 End Date: 02/28/2018
 Number of Measurements: 27





GROUNDWATER DETAILS

Well Name: SHP-26 DILLINGER, ARDEN
Permit Number: 5472-FP
WDID:
Data Source: DWR

Location Number: SC03004120CBB
USGS Site ID: 372511102042000
Applicant/Contact: DILLINGER, ARDEN

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | NW | NW | SW | 20 | 30.0 S | 41.0 W | S | 758955.0 | 4145393.0 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

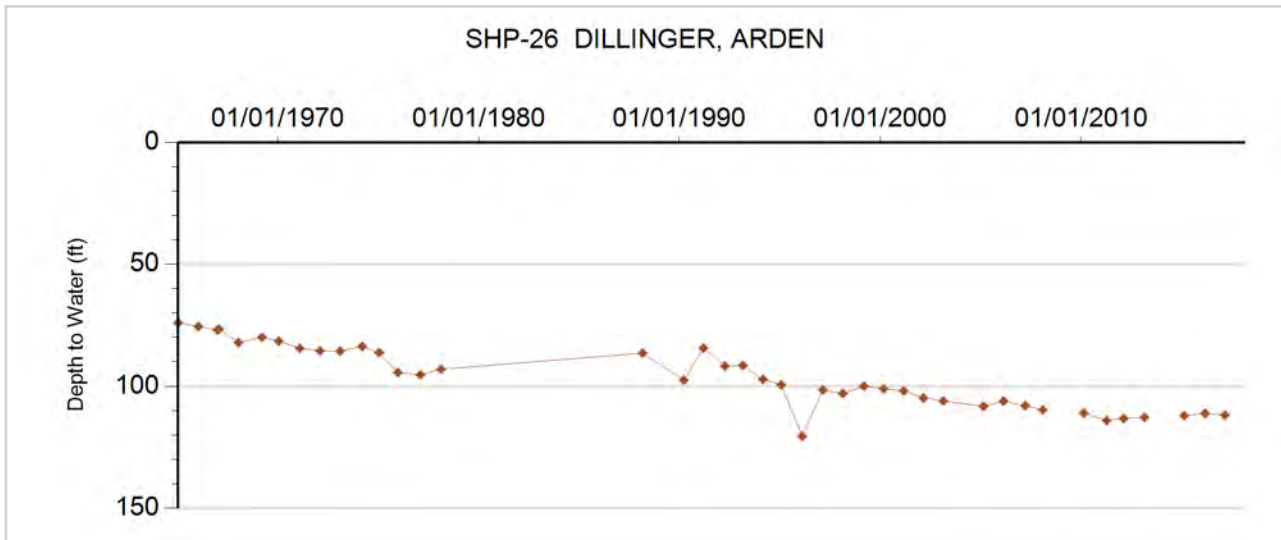
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/01/2018 | | | |
| 03/01/2017 | 111.82 | 3573.61 | 0.67 |
| 03/08/2016 | 111.15 | 3574.28 | -0.91 |
| 02/19/2015 | 112.06 | 3573.37 | |
| 03/20/2014 | | | |
| 03/02/2013 | 112.80 | 3572.63 | -0.40 |
| 02/18/2012 | 113.20 | 3572.23 | -0.80 |
| 04/13/2011 | 114.00 | 3571.43 | 3.00 |
| 02/19/2010 | 111.00 | 3574.43 | |
| 02/07/2009 | | | |

Construction Information

Surface Elevation (ft): 3685.43
 Well Depth (ft): 150.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): OGALLALA

Well Measurement Summary

Start Date: 01/15/1965 End Date: 03/01/2018
 Number of Measurements: 45





GROUNDWATER DETAILS

Well Name: SHP-27 SPIRITUAL SC. CHURCH
Permit Number: 3351-F
WDID:
Data Source: DWR

Location Number: SC03004217DD
USGS Site ID:
Applicant/Contact: SPIRITUAL SC. CHURCH

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | SE | SE | 17 | 30.0 S | 42.0 W | S | 749275.0 | 4146369.0 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

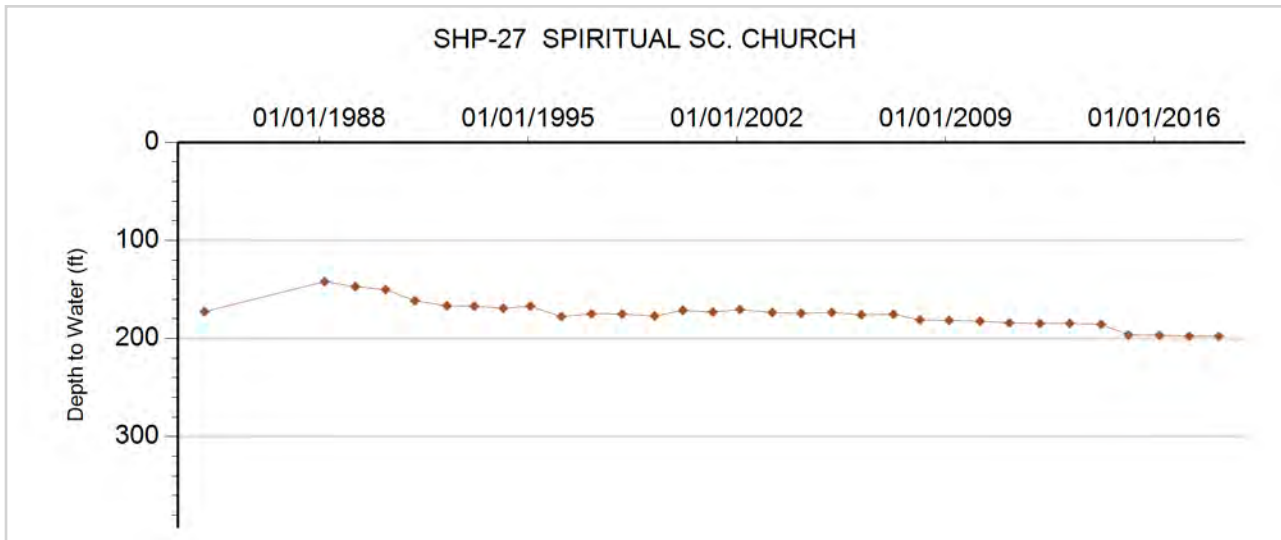
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/01/2018 | 197.57 | 3632.43 | 0.08 |
| 03/01/2017 | 197.49 | 3632.51 | 0.92 |
| 03/08/2016 | 196.57 | 3633.43 | 0.32 |
| 02/19/2015 | 196.25 | 3633.75 | 10.73 |
| 03/20/2014 | 185.52 | 3644.48 | 1.02 |
| 03/02/2013 | 184.50 | 3645.50 | -0.20 |
| 03/01/2012 | 184.70 | 3645.30 | 0.70 |
| 02/20/2011 | 184.00 | 3646.00 | 1.70 |
| 02/26/2010 | 182.30 | 3647.70 | 0.80 |
| 02/11/2009 | 181.50 | 3648.50 | 0.50 |

Construction Information

Surface Elevation (ft): 3830.00
 Well Depth (ft): 393.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA, CHEYENNE

Well Measurement Summary

Start Date: 02/20/1984 End Date: 03/01/2018
 Number of Measurements: 32





GROUNDWATER DETAILS

Well Name: SHP-28 HUME, ROD
Permit Number: 19206-FP
WDID:
Data Source: DWR

Location Number: SC03004234BC
USGS Site ID:
Applicant/Contact: HUME, ROD

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | SW | NW | 34 | 30.0 S | 42.0 W | S | 753003.0 | 4142489.1 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

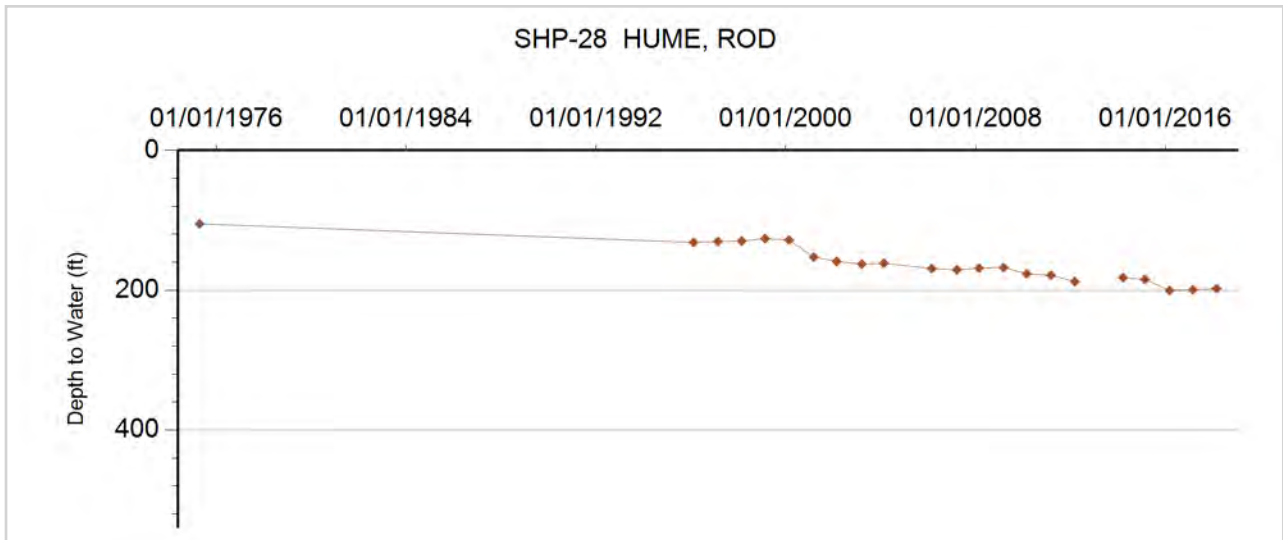
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/01/2018 | 197.63 | 3582.37 | -1.63 |
| 03/01/2017 | 199.26 | 3580.74 | -0.99 |
| 03/08/2016 | 200.25 | 3579.75 | 15.75 |
| 02/19/2015 | 184.50 | 3595.50 | 2.48 |
| 03/20/2014 | 182.02 | 3597.98 | |
| 03/01/2013 | | | |
| 03/09/2012 | 187.50 | 3592.50 | 9.00 |
| 03/06/2011 | 178.50 | 3601.50 | 2.00 |
| 02/28/2010 | 176.50 | 3603.50 | 9.00 |
| 03/08/2009 | 167.50 | 3612.50 | -0.80 |

Construction Information

Surface Elevation (ft): 3780.00
 Well Depth (ft): 540.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft): 222
 Depth to Bottom of Perforated Casing (ft): 540
 Source Aquifer(s): CHEYENNE, DOCKUM

Well Measurement Summary

Start Date: 04/20/1975 End Date: 03/01/2018
 Number of Measurements: 23





GROUNDWATER DETAILS

Well Name: SHP-29 MUNDELL,J.
Permit Number: 22678-
WDID:
Data Source: DWR

Location Number: SC03004302BCB
USGS Site ID:
Applicant/Contact: MUNDELL,J.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | NW | SW | NW | 2 | 30.0 S | 43.0 W | S | 744405.0 | 4150213.0 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

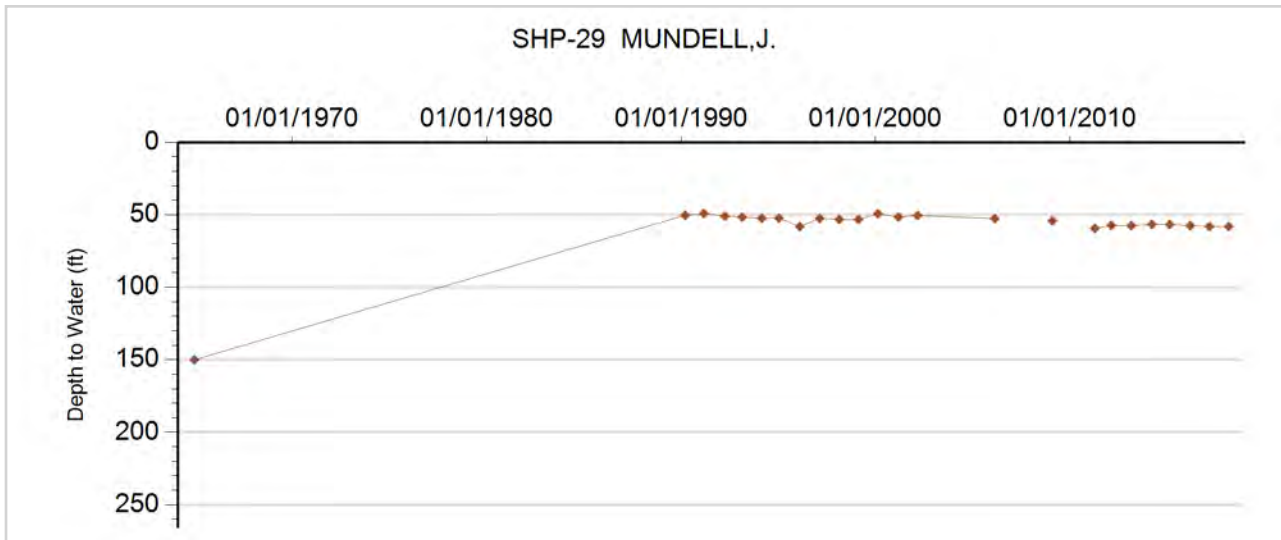
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/01/2018 | 58.08 | 3805.92 | 0.00 |
| 03/02/2017 | 58.08 | 3805.92 | 0.65 |
| 03/10/2016 | 57.43 | 3806.57 | 0.76 |
| 02/19/2015 | 56.67 | 3807.33 | 0.08 |
| 03/20/2014 | 56.59 | 3807.41 | -0.91 |
| 02/26/2013 | 57.50 | 3806.50 | 0.20 |
| 02/18/2012 | 57.30 | 3806.70 | -2.10 |
| 04/12/2011 | 59.40 | 3804.60 | |
| 02/18/2010 | | | |
| 02/07/2009 | 54.10 | 3809.90 | |

Construction Information

Surface Elevation (ft): 3864.00
 Well Depth (ft): 266.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA

Well Measurement Summary

Start Date: 12/30/1964 End Date: 03/01/2018
 Number of Measurements: 27





GROUNDWATER DETAILS

Well Name: SHP-30 HUME, CHARLES
Permit Number: 2503-FP
WDID:
Data Source: DWR

Location Number: SC03004309BBB
USGS Site ID:
Applicant/Contact: HUME, CHARLES

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | NW | NW | NW | 9 | 30.0 S | 43.0 W | S | 741154.7 | 4148967.2 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

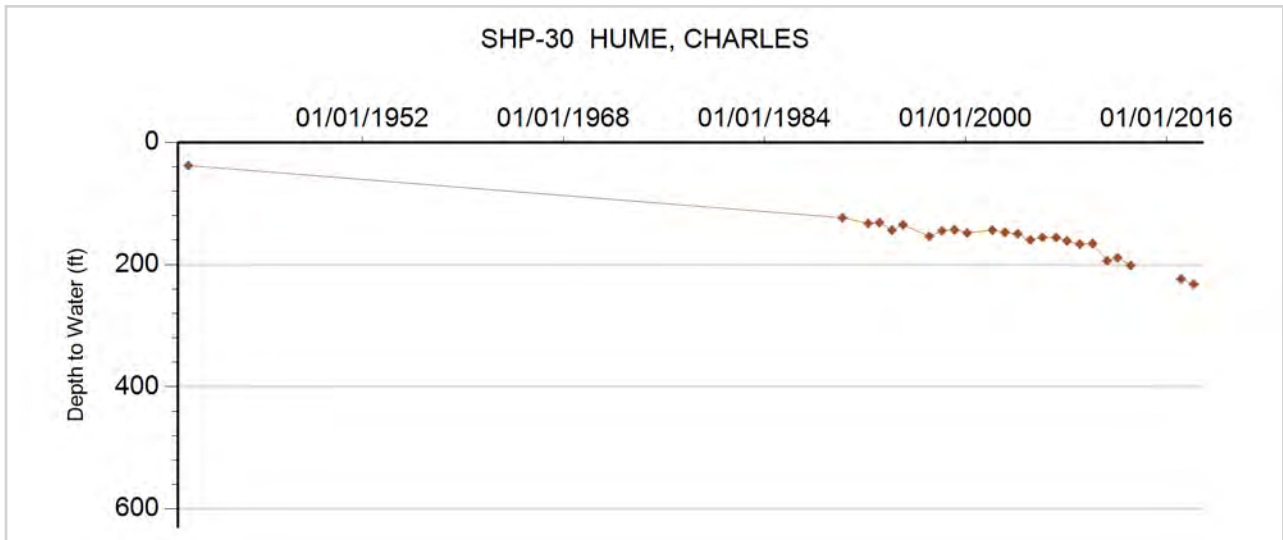
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/01/2018 | 232.23 | 3690.77 | 8.63 |
| 03/02/2017 | 223.60 | 3699.40 | |
| 03/10/2016 | | | |
| 02/19/2015 | | | |
| 03/20/2014 | | | |
| 02/25/2013 | 201.50 | 3721.50 | 12.50 |
| 02/08/2012 | 189.00 | 3734.00 | -5.00 |
| 04/12/2011 | 194.00 | 3729.00 | 28.30 |
| 02/18/2010 | 165.70 | 3757.30 | -1.00 |
| 02/07/2009 | 166.70 | 3756.30 | 5.50 |

Construction Information

Surface Elevation (ft): 3923.00
 Well Depth (ft): 631.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft): 200
 Depth to Bottom of Perforated Casing (ft): 300
 Source Aquifer(s): DAKOTA, CHEYENNE

Well Measurement Summary

Start Date: 02/21/1938 End Date: 03/01/2018
 Number of Measurements: 27





GROUNDWATER DETAILS

Well Name: SHP-31 AUSTIN
Permit Number: 16982-FP
WDID:
Data Source: DWR

Location Number: SC03004421BD
USGS Site ID:
Applicant/Contact: AUSTIN

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | SE | NW | 21 | 30.0 S | 44.0 W | S | 732419.0 | 4145097.4 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

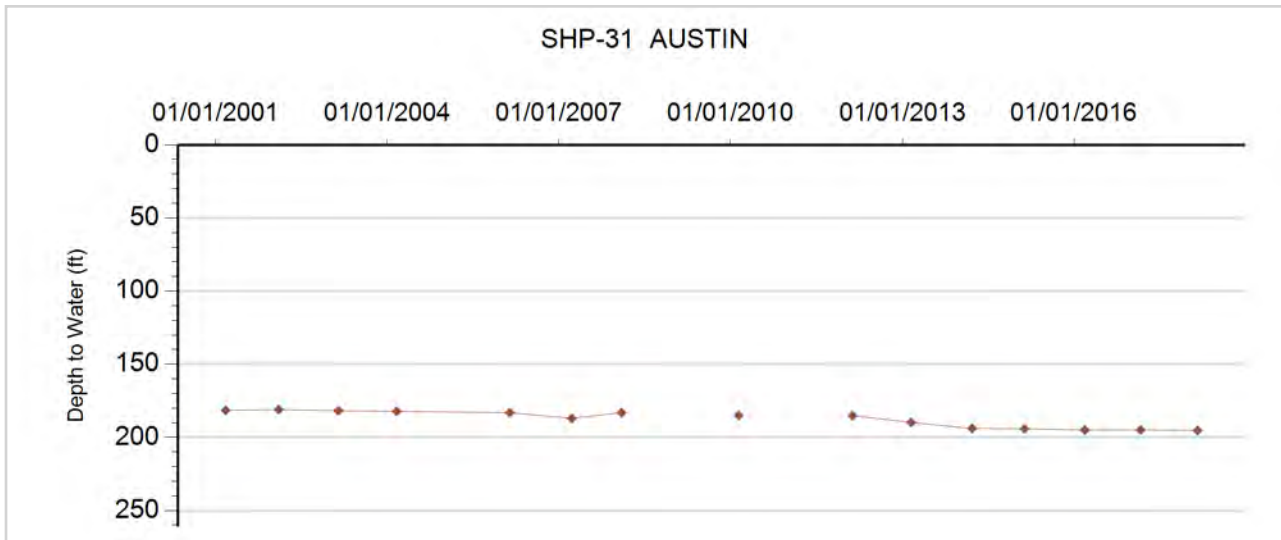
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2018 | 195.22 | 3854.78 | 0.31 |
| 03/01/2017 | 194.91 | 3855.09 | -0.04 |
| 03/10/2016 | 194.95 | 3855.05 | 0.82 |
| 02/19/2015 | 194.13 | 3855.87 | 0.22 |
| 03/21/2014 | 193.91 | 3856.09 | 4.11 |
| 02/26/2013 | 189.80 | 3860.20 | 4.70 |
| 02/18/2012 | 185.10 | 3864.90 | |
| 04/19/2011 | | | |
| 02/20/2010 | 185.00 | 3865.00 | |
| 01/01/2009 | | | |

Construction Information

Surface Elevation (ft): 4050.00
 Well Depth (ft): 261.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA, CHEYENNE

Well Measurement Summary

Start Date: 03/04/2001 End Date: 02/28/2018
 Number of Measurements: 17





GROUNDWATER DETAILS

Well Name: SHP-32 B & L FARMS
Permit Number: 10452-FP
WDID:
Data Source: DWR

Location Number: SC03004513CCC
USGS Site ID:
Applicant/Contact: B & L FARMS

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | SW | SW | SW | 13 | 30.0 S | 45.0 W | S | 726810.0 | 4145432.0 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

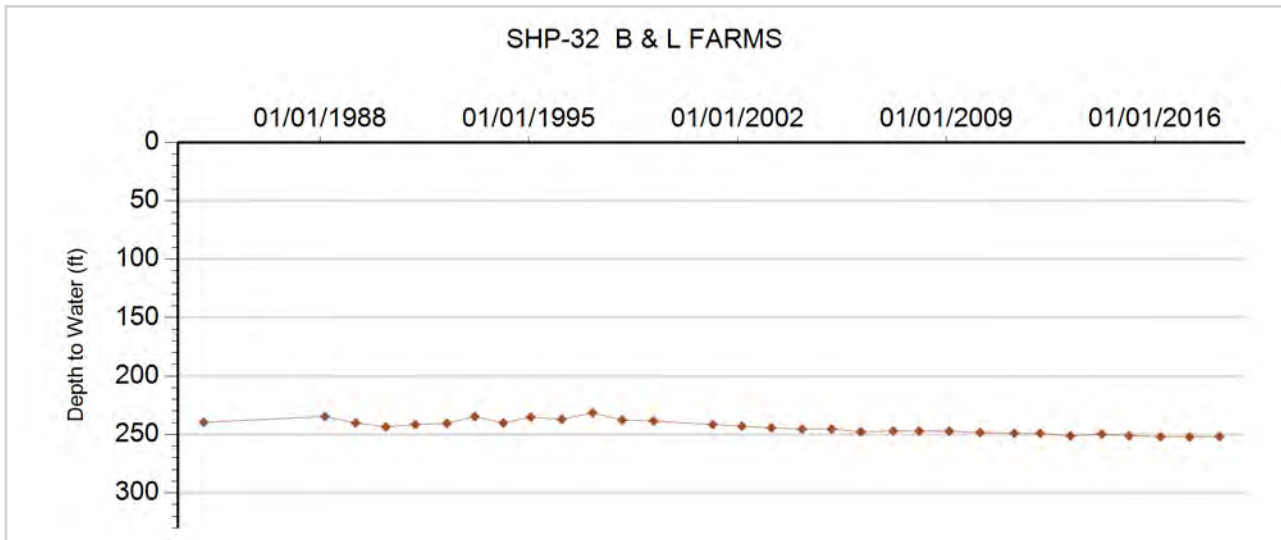
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2018 | 251.67 | 3896.33 | -0.51 |
| 03/01/2017 | 252.18 | 3895.82 | 0.36 |
| 03/10/2016 | 251.82 | 3896.18 | 0.77 |
| 02/19/2015 | 251.05 | 3896.95 | 1.39 |
| 03/21/2014 | 249.66 | 3898.34 | -1.54 |
| 03/02/2013 | 251.20 | 3896.80 | 2.10 |
| 02/25/2012 | 249.10 | 3898.90 | 0.10 |
| 04/13/2011 | 249.00 | 3899.00 | 0.70 |
| 02/20/2010 | 248.30 | 3899.70 | 1.10 |
| 02/06/2009 | 247.20 | 3900.80 | 0.10 |

Construction Information

Surface Elevation (ft): 4148.00
 Well Depth (ft): 330.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft): 260
 Depth to Bottom of Perforated Casing (ft): 330
 Source Aquifer(s): CHEYENNE

Well Measurement Summary

Start Date: 02/09/1984 End Date: 02/28/2018
 Number of Measurements: 31





GROUNDWATER DETAILS

Well Name: SHP-33 WARD, H.

Permit Number:

Location Number: SC03004625DAB

WDID:

USGS Site ID:

Data Source: DWR

Applicant/Contact: WARD, H.

Physical Location

| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| | | NW | NE | SE | 25 | 30.0 S | 46.0 W | S | 718353.0 | 4142603.0 | GPS |

Division: 2 District: 67

County: BACA

Designated Basin:

Management District:

Time Series Data - Ten Most Recent Reportings

| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/01/2018 | 66.80 | 4171.20 | -0.85 |
| 03/01/2017 | 67.65 | 4170.35 | 0.21 |
| 03/10/2016 | 67.44 | 4170.56 | -0.37 |
| 02/20/2015 | 67.81 | 4170.19 | -3.18 |
| 03/21/2014 | 70.99 | 4167.01 | 2.79 |
| 03/08/2013 | 68.20 | 4169.80 | -0.90 |
| 02/24/2012 | 69.10 | 4168.90 | 1.10 |
| 04/12/2011 | 68.00 | 4170.00 | 1.20 |
| 02/20/2010 | 66.80 | 4171.20 | 0.50 |
| 02/09/2009 | 66.30 | 4171.70 | 0.10 |

Construction Information

Surface Elevation (ft): 4238.00

Well Depth (ft):

Depth to Base of Grout (ft):

Depth to Top of Perforated Casing (ft):

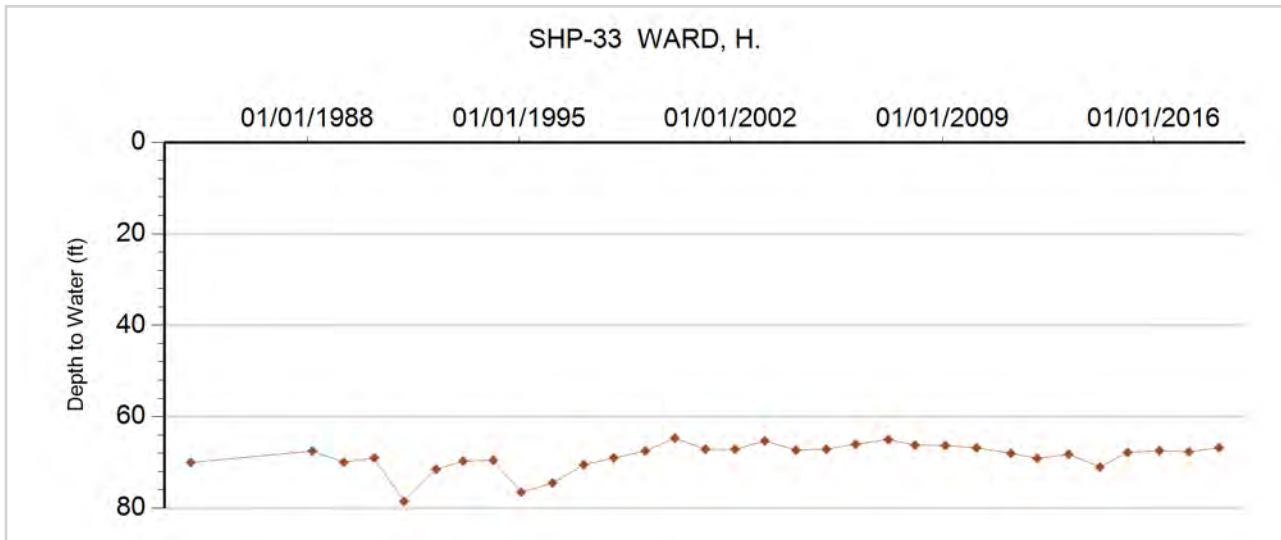
Depth to Bottom of Perforated Casing (ft):

Source Aquifer(s): DAKOTA

Well Measurement Summary

Start Date: 02/21/1984 End Date: 03/01/2018

Number of Measurements: 32





GROUNDWATER DETAILS

Well Name: SHP-34 TWN.OF SPRINGFIELD
Permit Number: 15430-F
WDID:
Data Source: DWR

Location Number: SC03004631AC
USGS Site ID:
Applicant/Contact: TWN.OF SPRINGFIELD

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | SW | NE | 31 | 30.0 S | 46.0 W | S | 710072.0 | 4141093.0 | Digitized |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

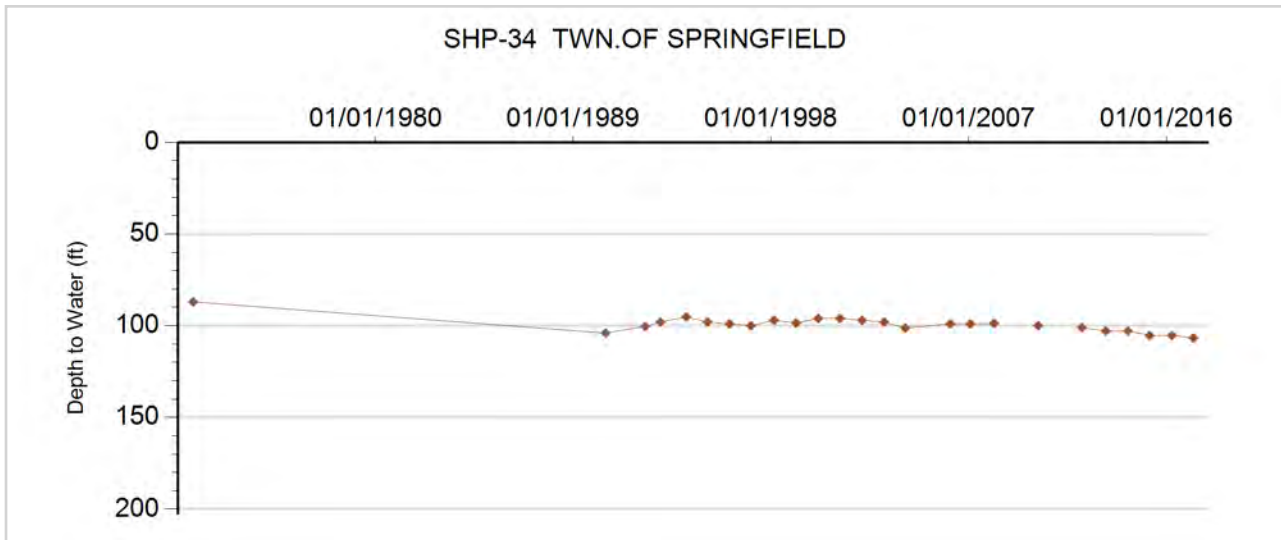
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/27/2017 | 106.67 | 4285.33 | 1.40 |
| 03/31/2016 | 105.27 | 4286.73 | -0.02 |
| 03/30/2015 | 105.29 | 4286.71 | 2.46 |
| 03/31/2014 | 102.83 | 4289.17 | -0.07 |
| 03/31/2013 | 102.90 | 4289.10 | 1.90 |
| 02/25/2012 | 101.00 | 4291.00 | |
| 03/03/2011 | | | |
| 02/28/2010 | 99.90 | 4292.10 | |
| 01/01/2009 | | | |
| 02/26/2008 | 98.70 | 4293.30 | -0.30 |

Construction Information

Surface Elevation (ft): 4392.00
 Well Depth (ft): 203.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft): 90
 Depth to Bottom of Perforated Casing (ft): 203
 Source Aquifer(s): DAKOTA

Well Measurement Summary

Start Date: 09/14/1971 End Date: 03/27/2017
 Number of Measurements: 27





GROUNDWATER DETAILS

Well Name: SHP-35 MINNICK, W & E
Permit Number: 11339-F
WDID:
Data Source: DWR

Location Number: SC03004827ADD
USGS Site ID:
Applicant/Contact: MINNICK, W & E

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | SE | SE | NE | 27 | 30.0 S | 48.0 W | S | 696077.0 | 4142061.0 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

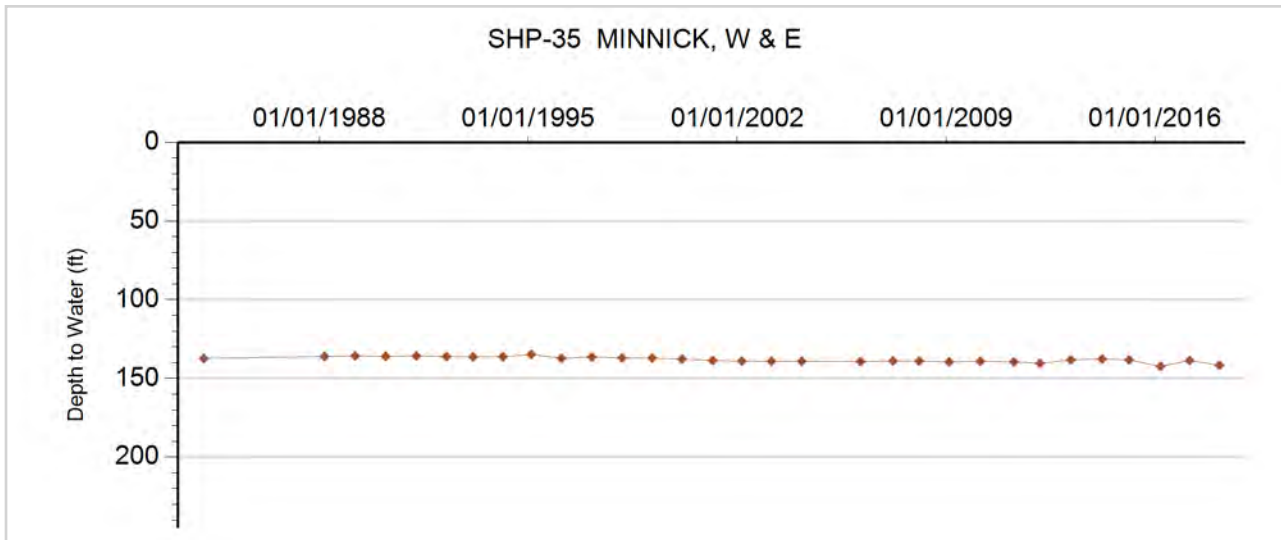
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2018 | 141.65 | 4530.35 | 3.06 |
| 03/01/2017 | 138.59 | 4533.41 | -3.80 |
| 03/09/2016 | 142.39 | 4529.61 | 4.14 |
| 02/19/2015 | 138.25 | 4533.75 | 0.59 |
| 03/25/2014 | 137.66 | 4534.34 | -0.54 |
| 03/08/2013 | 138.20 | 4533.80 | -2.20 |
| 02/24/2012 | 140.40 | 4531.60 | 0.90 |
| 04/12/2011 | 139.50 | 4532.50 | 0.40 |
| 02/24/2010 | 139.10 | 4532.90 | -0.40 |
| 02/06/2009 | 139.50 | 4532.50 | 0.50 |

Construction Information

Surface Elevation (ft): 4672.00
 Well Depth (ft): 245.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA

Well Measurement Summary

Start Date: 02/17/1984 End Date: 02/28/2018
 Number of Measurements: 31





GROUNDWATER DETAILS

Well Name: SHP-36 JESSER,HARVEY
Permit Number: 16299-FP
WDID:
Data Source: DWR

Location Number: SC03004911CB
USGS Site ID:
Applicant/Contact: JESSER,HARVEY

Physical Location

| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| 2615 S | 25 W | | NW | SW | 11 | 30.0 S | 49.0 W | S | 686430.0 | 4146606.0 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

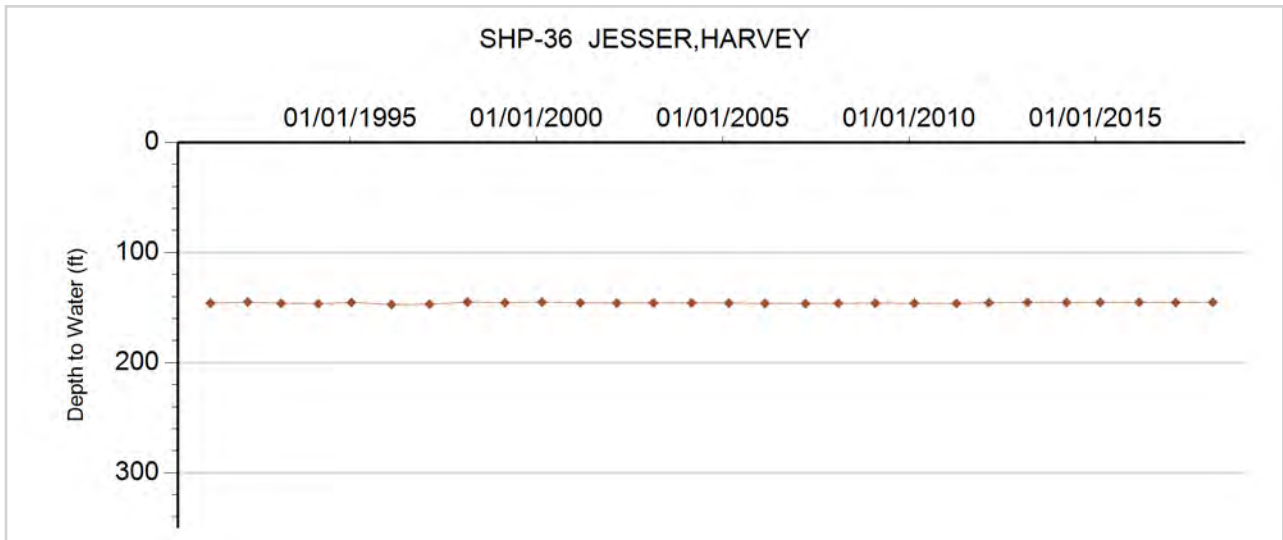
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2018 | 145.11 | 4634.89 | -0.26 |
| 03/01/2017 | 145.37 | 4634.63 | 0.18 |
| 03/09/2016 | 145.19 | 4634.81 | -0.07 |
| 02/19/2015 | 145.26 | 4634.74 | -0.11 |
| 03/25/2014 | 145.37 | 4634.63 | 0.17 |
| 03/08/2013 | 145.20 | 4634.80 | -0.40 |
| 02/25/2012 | 145.60 | 4634.40 | -0.65 |
| 04/12/2011 | 146.25 | 4633.75 | 0.15 |
| 02/24/2010 | 146.10 | 4633.90 | 0.10 |
| 02/06/2009 | 146.00 | 4634.00 | -0.10 |

Construction Information

Surface Elevation (ft): 4780.00
 Well Depth (ft): 350.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): CHEYENNE

Well Measurement Summary

Start Date: 04/02/1991 End Date: 02/28/2018
 Number of Measurements: 28





GROUNDWATER DETAILS

Well Name: SHP-37 C.D.M. TRUST
Permit Number: 13002-RFP
WDID:
Data Source: DWR

Location Number: SC03104108DD
USGS Site ID:
Applicant/Contact: C.D.M. TRUST

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | SE | SE | 8 | 31.0 S | 41.0 W | S | 760480.4 | 4138326.8 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

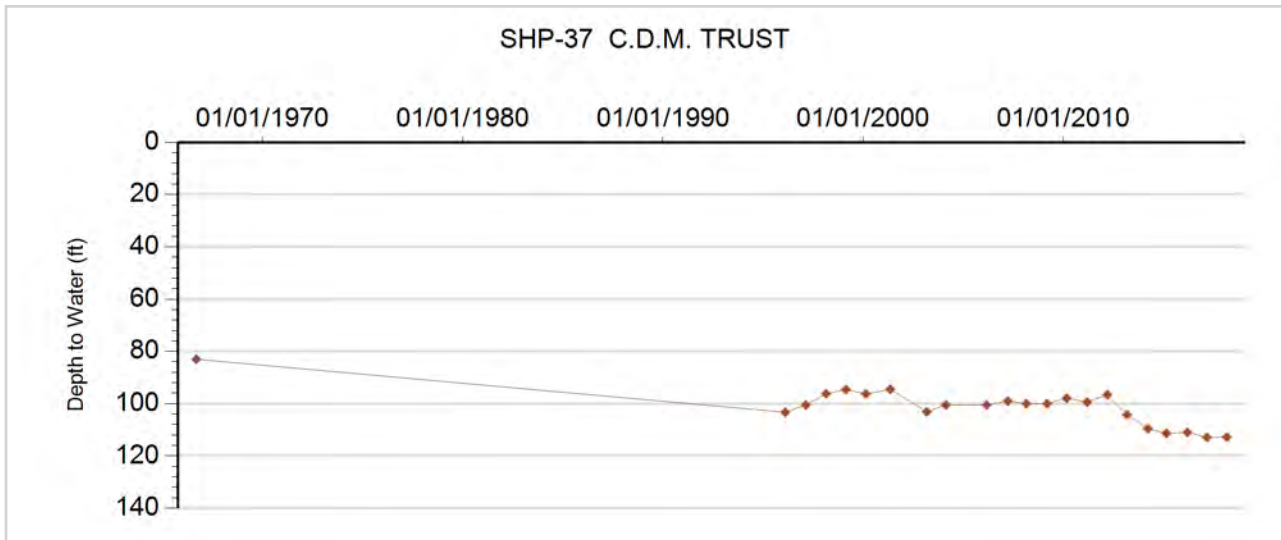
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/27/2018 | 112.80 | 3575.20 | -0.09 |
| 03/01/2017 | 112.89 | 3575.11 | 1.90 |
| 03/08/2016 | 110.99 | 3577.01 | -0.36 |
| 02/19/2015 | 111.35 | 3576.65 | 1.77 |
| 03/19/2014 | 109.58 | 3578.42 | 5.38 |
| 03/03/2013 | 104.20 | 3583.80 | 7.60 |
| 03/09/2012 | 96.60 | 3591.40 | -2.80 |
| 03/06/2011 | 99.40 | 3588.60 | 1.50 |
| 02/28/2010 | 97.90 | 3590.10 | -2.10 |
| 03/08/2009 | 100.00 | 3588.00 | 0.00 |

Construction Information

Surface Elevation (ft): 3688.00
 Well Depth (ft): 140.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): OGALLALA

Well Measurement Summary

Start Date: 09/15/1966 End Date: 02/27/2018
 Number of Measurements: 22





GROUNDWATER DETAILS

Well Name: SHP-38 MOORE, JOHN M.
Permit Number: 10290-FP
WDID:
Data Source: DWR

Location Number: SC03104230BAA
USGS Site ID:
Applicant/Contact: MOORE, JOHN M.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | NE | NE | NW | 30 | 31.0 S | 42.0 W | S | 748112.7 | 4134494.8 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

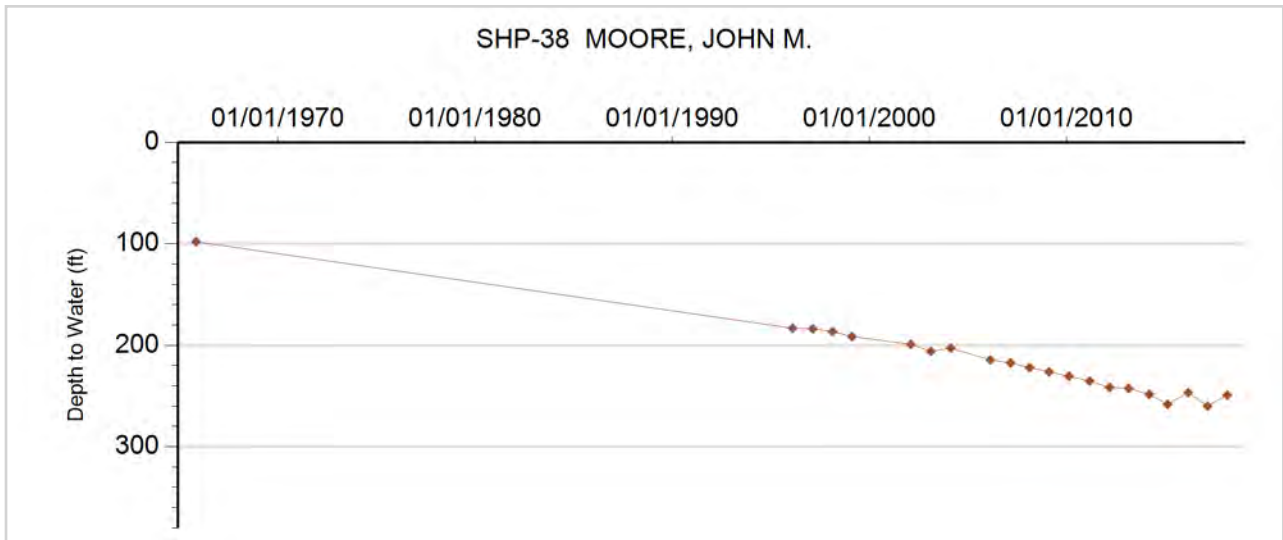
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2018 | 249.10 | 3580.90 | -10.77 |
| 03/01/2017 | 259.87 | 3570.13 | 13.25 |
| 03/08/2016 | 246.62 | 3583.38 | -11.58 |
| 02/18/2015 | 258.20 | 3571.80 | 9.86 |
| 03/19/2014 | 248.34 | 3581.66 | 5.84 |
| 03/02/2013 | 242.50 | 3587.50 | 1.10 |
| 03/10/2012 | 241.40 | 3588.60 | 6.20 |
| 03/06/2011 | 235.20 | 3594.80 | 4.70 |
| 02/16/2010 | 230.50 | 3599.50 | 4.30 |
| 02/16/2009 | 226.20 | 3603.80 | 4.20 |

Construction Information

Surface Elevation (ft): 3830.00
 Well Depth (ft): 380.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft): 85
 Depth to Bottom of Perforated Casing (ft): 380
 Source Aquifer(s): DOCKUM

Well Measurement Summary

Start Date: 11/12/1965 End Date: 02/28/2018
 Number of Measurements: 21





GROUNDWATER DETAILS

Well Name: SHP-39 MEASE, JAMES
Permit Number: 43852-FP
WDID:
Data Source: DWR

Location Number: SC03104231DDC
USGS Site ID:
Applicant/Contact: MEASE, JAMES

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | SW | SE | SE | 31 | 31.0 S | 42.0 W | S | 749032.9 | 4131484.6 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2018 | 282.85 | 3537.15 | |
| 03/01/2017 | | | |
| 03/08/2016 | 284.15 | 3535.85 | |
| 02/18/2015 | | | |
| 03/19/2014 | | | |
| 03/02/2013 | 277.80 | 3542.20 | 1.20 |
| 03/10/2012 | 276.60 | 3543.40 | 6.30 |
| 03/06/2011 | 270.30 | 3549.70 | 3.80 |
| 02/26/2010 | 266.50 | 3553.50 | 2.00 |
| 02/15/2009 | 264.50 | 3555.50 | 4.20 |

Construction Information

Surface Elevation (ft): 3820.00
 Well Depth (ft): 412.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft): 252
 Depth to Bottom of Perforated Casing (ft): 412
 Source Aquifer(s): DOCKUM

Well Measurement Summary

Start Date: 02/19/1997 End Date: 02/28/2018
 Number of Measurements: 20





GROUNDWATER DETAILS

Well Name: SHP-40 MOORE, JOHN
Permit Number: 10620-FP
WDID:
Data Source: DWR

Location Number: SC03104232BDD
USGS Site ID:
Applicant/Contact: MOORE, JOHN

Physical Location

| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| | | SE | SE | NW | 32 | 31.0 S | 42.0 W | S | 750135.3 | 4132131.1 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

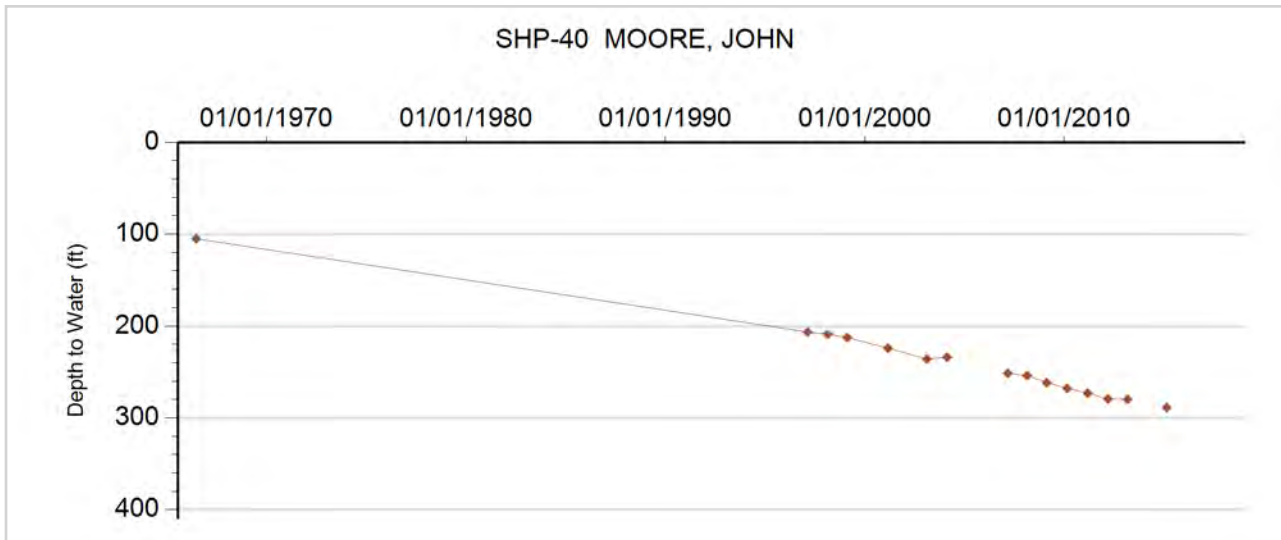
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2018 | | | |
| 03/01/2017 | | | |
| 03/08/2016 | | | |
| 02/18/2015 | 288.70 | 3516.30 | |
| 03/19/2014 | | | |
| 03/02/2013 | 279.80 | 3525.20 | 0.30 |
| 03/10/2012 | 279.50 | 3525.50 | 6.40 |
| 03/06/2011 | 273.10 | 3531.90 | 5.10 |
| 02/25/2010 | 268.00 | 3537.00 | 6.30 |
| 02/16/2009 | 261.70 | 3543.30 | 7.70 |

Construction Information

Surface Elevation (ft): 3805.00
 Well Depth (ft): 410.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft): 125
 Depth to Bottom of Perforated Casing (ft): 410
 Source Aquifer(s): DOCKUM

Well Measurement Summary

Start Date: 06/27/1966 End Date: 02/28/2018
 Number of Measurements: 20





GROUNDWATER DETAILS

Well Name: SHP-41 HOLT
Permit Number: 3573-FP
WDID:
Data Source: DWR

Location Number: SC03104308BC
USGS Site ID:
Applicant/Contact: HOLT

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | SW | NW | 8 | 31.0 S | 43.0 W | S | 739569.0 | 4138036.0 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

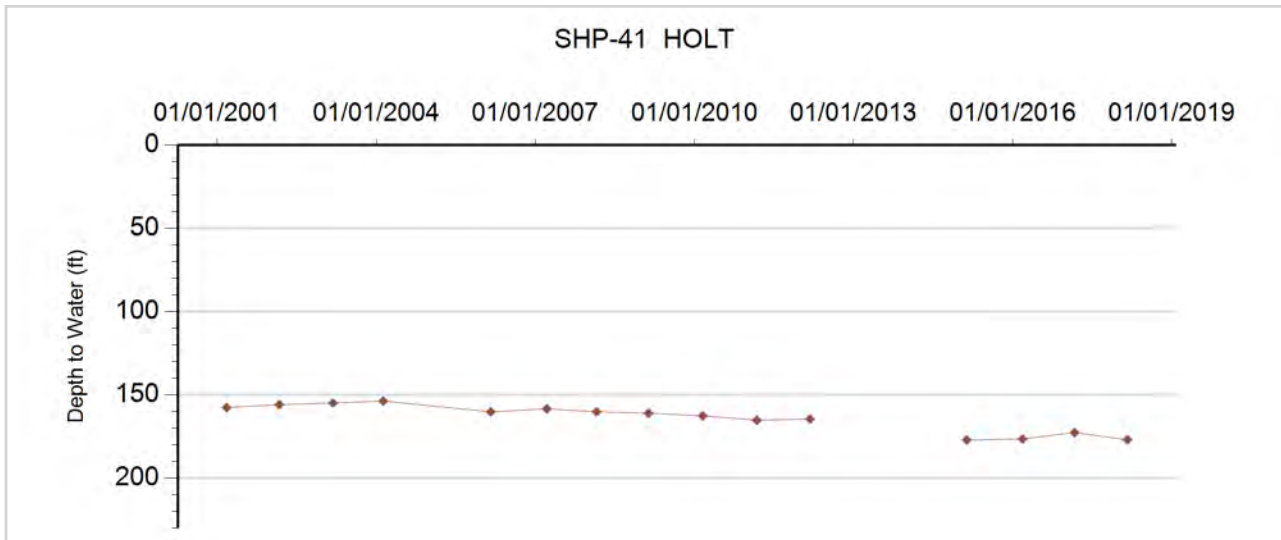
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2018 | 177.06 | 3782.94 | 4.36 |
| 03/01/2017 | 172.70 | 3787.30 | -3.89 |
| 03/08/2016 | 176.59 | 3783.41 | -0.60 |
| 02/18/2015 | 177.19 | 3782.81 | |
| 03/19/2014 | | | |
| 03/02/2013 | | | |
| 03/06/2012 | 164.60 | 3795.40 | -0.70 |
| 03/06/2011 | 165.30 | 3794.70 | 2.60 |
| 02/27/2010 | 162.70 | 3797.30 | 1.60 |
| 02/17/2009 | 161.10 | 3798.90 | 0.80 |

Construction Information

Surface Elevation (ft): 3960.00
 Well Depth (ft): 230.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): OGALLALA, CHEYENNE

Well Measurement Summary

Start Date: 03/07/2001 End Date: 02/28/2018
 Number of Measurements: 17





GROUNDWATER DETAILS

Well Name: SHP-42 BURCHFIELD, W.K.
Permit Number: 2529-FP
WDID:
Data Source: DWR

Location Number: SC03104333BAA
USGS Site ID: 371832102160900
Applicant/Contact: BURCHFIELD, W.K.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | NE | NE | NW | 33 | 31.0 S | 43.0 W | S | 741975.0 | 4132678.0 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

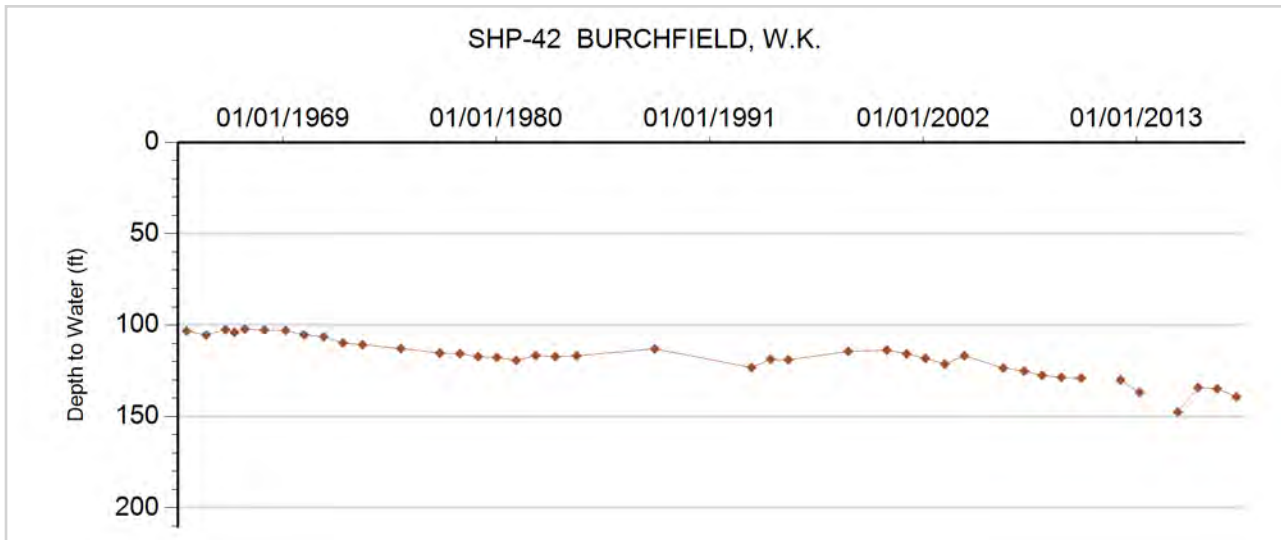
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2018 | 139.27 | 3782.29 | 4.45 |
| 03/01/2017 | 134.82 | 3786.74 | 0.57 |
| 03/08/2016 | 134.25 | 3787.31 | -13.38 |
| 02/18/2015 | 147.63 | 3773.93 | |
| 03/19/2014 | | | |
| 03/02/2013 | 136.80 | 3784.76 | 6.80 |
| 03/06/2012 | 130.00 | 3791.56 | |
| 03/06/2011 | | | |
| 02/27/2010 | 129.00 | 3792.56 | 0.40 |
| 02/15/2009 | 128.60 | 3792.96 | 1.10 |

Construction Information

Surface Elevation (ft): 3921.56
 Well Depth (ft): 211.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA

Well Measurement Summary

Start Date: 01/15/1964 End Date: 02/28/2018
 Number of Measurements: 43





GROUNDWATER DETAILS

Well Name: SHP-43 LOFLIN, L
Permit Number: 13835-RFP
WDID:
Data Source: DWR

Location Number: SC03104412CC
USGS Site ID:
Applicant/Contact: LOFLIN, L

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | SW | SW | 12 | 31.0 S | 44.0 W | S | 735311.0 | 4137295.0 | User supplied |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

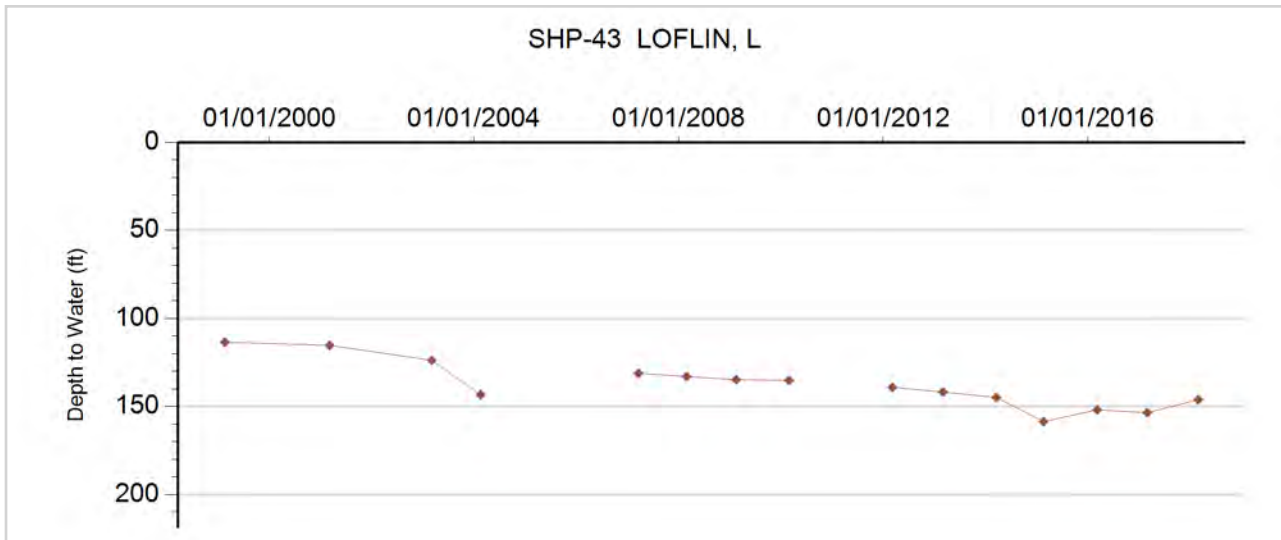
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2018 | 146.14 | 3884.86 | -7.39 |
| 03/01/2017 | 153.53 | 3877.47 | 1.61 |
| 03/08/2016 | 151.92 | 3879.08 | -6.69 |
| 02/18/2015 | 158.61 | 3872.39 | 13.72 |
| 03/19/2014 | 144.89 | 3886.11 | 3.09 |
| 03/02/2013 | 141.80 | 3889.20 | 2.70 |
| 03/06/2012 | 139.10 | 3891.90 | |
| 03/13/2011 | | | |
| 02/28/2010 | 135.20 | 3895.80 | 0.40 |
| 02/15/2009 | 134.80 | 3896.20 | 1.80 |

Construction Information

Surface Elevation (ft): 4031.00
 Well Depth (ft): 219.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): OGALLALA

Well Measurement Summary

Start Date: 02/18/1999 End Date: 02/28/2018
 Number of Measurements: 17





GROUNDWATER DETAILS

Well Name: SHP-44 WILSON, MACK
Permit Number: 2796-FP
WDID:
Data Source: DWR

Location Number: SC03104522BA
USGS Site ID:
Applicant/Contact: WILSON, MACK

Physical Location

| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| | | | NE | NW | 22 | 31.0 S | 45.0 W | S | 722954.9 | 4135054.7 | User supplied |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

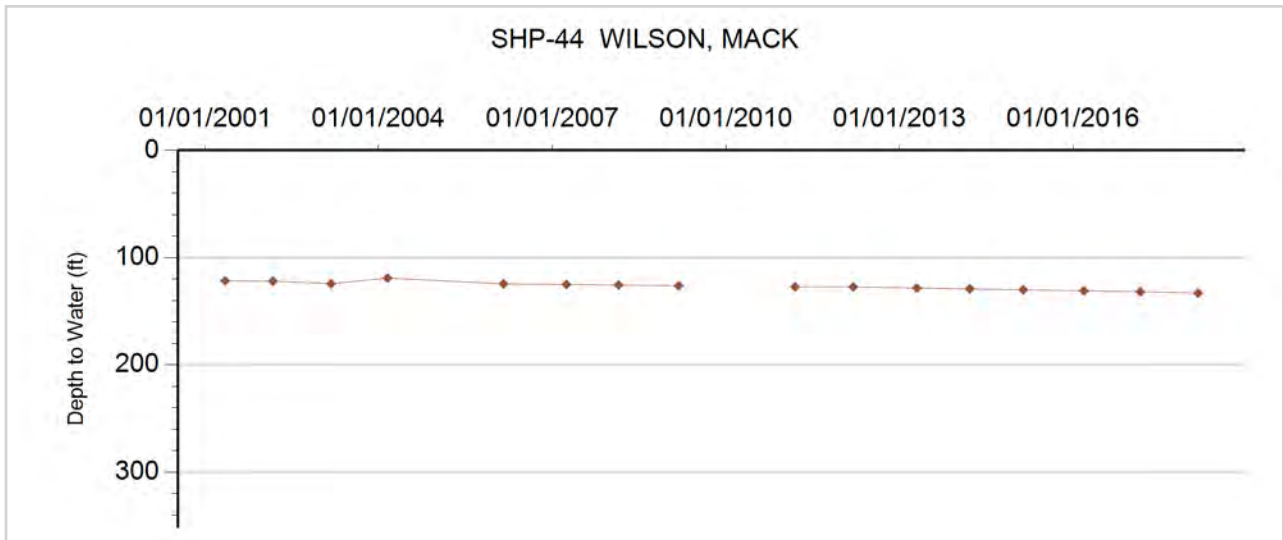
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/01/2018 | 132.92 | 4055.08 | 1.21 |
| 03/01/2017 | 131.71 | 4056.29 | 0.92 |
| 03/10/2016 | 130.79 | 4057.21 | 0.81 |
| 02/20/2015 | 129.98 | 4058.02 | 0.91 |
| 03/20/2014 | 129.07 | 4058.93 | 0.77 |
| 04/21/2013 | 128.30 | 4059.70 | 1.10 |
| 03/15/2012 | 127.20 | 4060.80 | 0.00 |
| 03/13/2011 | 127.20 | 4060.80 | |
| 01/01/2010 | | | |
| 03/09/2009 | 126.10 | 4061.90 | 0.60 |

Construction Information

Surface Elevation (ft): 4188.00
 Well Depth (ft): 352.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft): 80
 Depth to Bottom of Perforated Casing (ft): 352
 Source Aquifer(s): OGALLALA, DAKOTA

Well Measurement Summary

Start Date: 05/07/2001 End Date: 03/01/2018
 Number of Measurements: 17





GROUNDWATER DETAILS

Well Name: SHP-45 TWN.OF SPRINGFIELD
Permit Number: 6837-F
WDID:
Data Source: DWR

Location Number: SC03104604BC
USGS Site ID:
Applicant/Contact: TWN.OF SPRINGFIELD

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | SW | NW | 4 | 31.0 S | 46.0 W | S | 711351.0 | 4139215.0 | User supplied |

Division: 2 District: 67
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

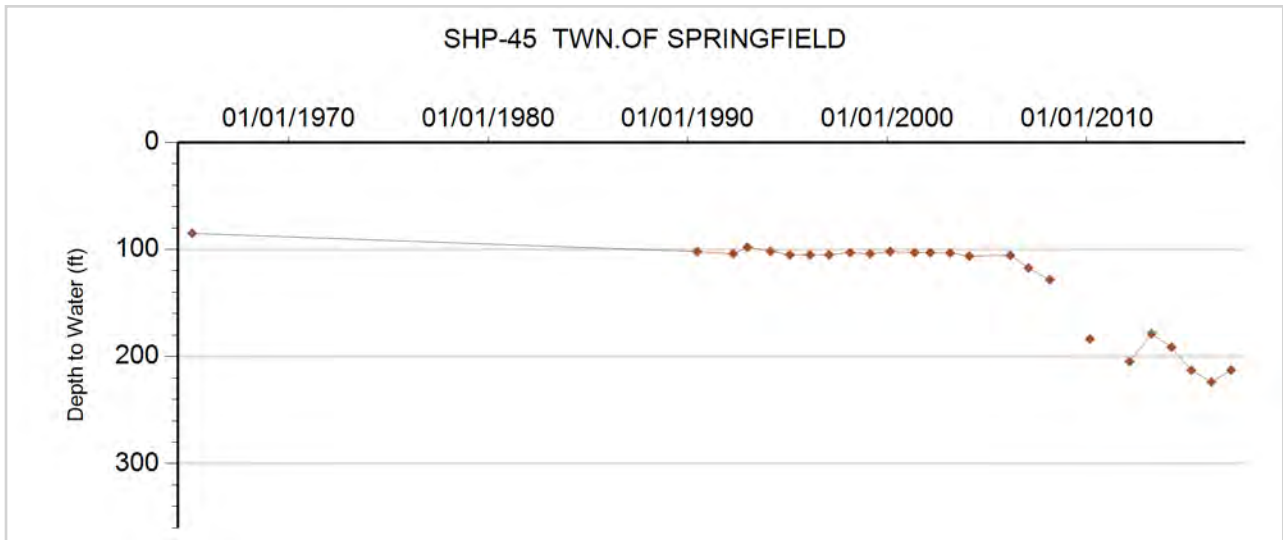
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/27/2017 | 212.71 | 4190.29 | -10.98 |
| 03/31/2016 | 223.69 | 4179.31 | 10.94 |
| 03/30/2015 | 212.75 | 4190.25 | 21.58 |
| 03/31/2014 | 191.17 | 4211.83 | 12.50 |
| 03/31/2013 | 178.67 | 4224.33 | -26.03 |
| 02/25/2012 | 204.70 | 4198.30 | |
| 03/03/2011 | | | |
| 02/28/2010 | 183.60 | 4219.40 | |
| 01/01/2009 | | | |
| 02/26/2008 | 128.20 | 4274.80 | 10.90 |

Construction Information

Surface Elevation (ft): 4403.00
 Well Depth (ft): 360.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): OGALLALA, DAKOTA

Well Measurement Summary

Start Date: 02/25/1965 End Date: 03/27/2017
 Number of Measurements: 27





GROUNDWATER DETAILS

Well Name: SHP-46 HUMPHREY
Permit Number: 10685-F
WDID:
Data Source: DWR

Location Number: SC03104632AB
USGS Site ID:
Applicant/Contact: HUMPHREY

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | NW | NE | 32 | 31.0 S | 46.0 W | S | 710838.0 | 4131715.0 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

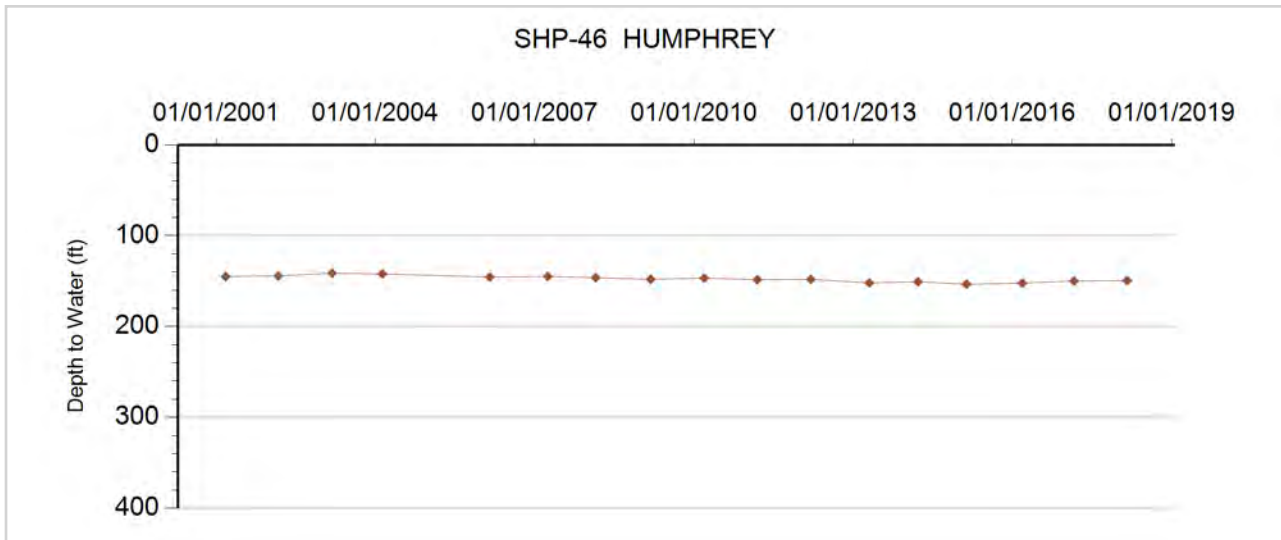
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/27/2018 | 149.42 | 4282.58 | -0.47 |
| 02/27/2017 | 149.89 | 4282.11 | -2.35 |
| 03/08/2016 | 152.24 | 4279.76 | -1.16 |
| 02/18/2015 | 153.40 | 4278.60 | 2.64 |
| 03/21/2014 | 150.76 | 4281.24 | -1.24 |
| 04/21/2013 | 152.00 | 4280.00 | 3.90 |
| 03/15/2012 | 148.10 | 4283.90 | -0.30 |
| 03/13/2011 | 148.40 | 4283.60 | 1.70 |
| 03/12/2010 | 146.70 | 4285.30 | -1.30 |
| 03/09/2009 | 148.00 | 4284.00 | 1.70 |

Construction Information

Surface Elevation (ft): 4432.00
 Well Depth (ft): 400.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA, CHEYENNE

Well Measurement Summary

Start Date: 03/07/2001 End Date: 02/27/2018
 Number of Measurements: 17





GROUNDWATER DETAILS

Well Name: SHP-47 TROY BISHOP
Permit Number: 19969-FP
WDID:
Data Source: DWR

Location Number: SC03104714DC
USGS Site ID:
Applicant/Contact: TROY BISHOP

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | SW | SE | 14 | 31.0 S | 47.0 W | S | 705638.0 | 4134848.0 | Digitized |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

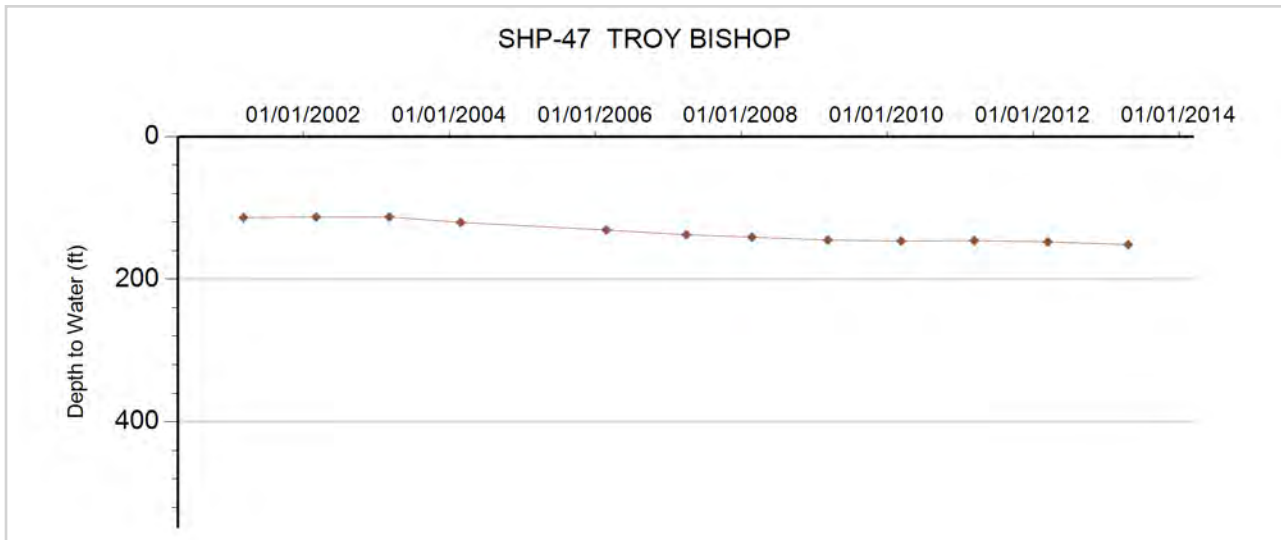
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 04/21/2013 | 151.40 | 4438.60 | 3.80 |
| 03/15/2012 | 147.60 | 4442.40 | 1.80 |
| 03/12/2011 | 145.80 | 4444.20 | -0.70 |
| 03/12/2010 | 146.50 | 4443.50 | 1.40 |
| 03/09/2009 | 145.10 | 4444.90 | 4.10 |
| 02/24/2008 | 141.00 | 4449.00 | 3.40 |
| 04/01/2007 | 137.60 | 4452.40 | 6.60 |
| 02/26/2006 | 131.00 | 4459.00 | 10.70 |
| 02/27/2004 | 120.30 | 4469.70 | 7.50 |
| 03/07/2003 | 112.80 | 4477.20 | 0.20 |

Construction Information

Surface Elevation (ft): 4590.00
 Well Depth (ft): 549.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): OGALLALA, DAKOTA

Well Measurement Summary

Start Date: 03/07/2001 End Date: 04/21/2013
 Number of Measurements: 12





GROUNDWATER DETAILS

Well Name: SHP-48 KIRKENDALL,RBT.
Permit Number: 29877-
WDID:
Data Source: DWR

Location Number: SC03104821CAD
USGS Site ID:
Applicant/Contact: KIRKENDALL,RBT.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | SE | NE | SW | 21 | 31.0 S | 48.0 W | S | 692752.8 | 4133361.8 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

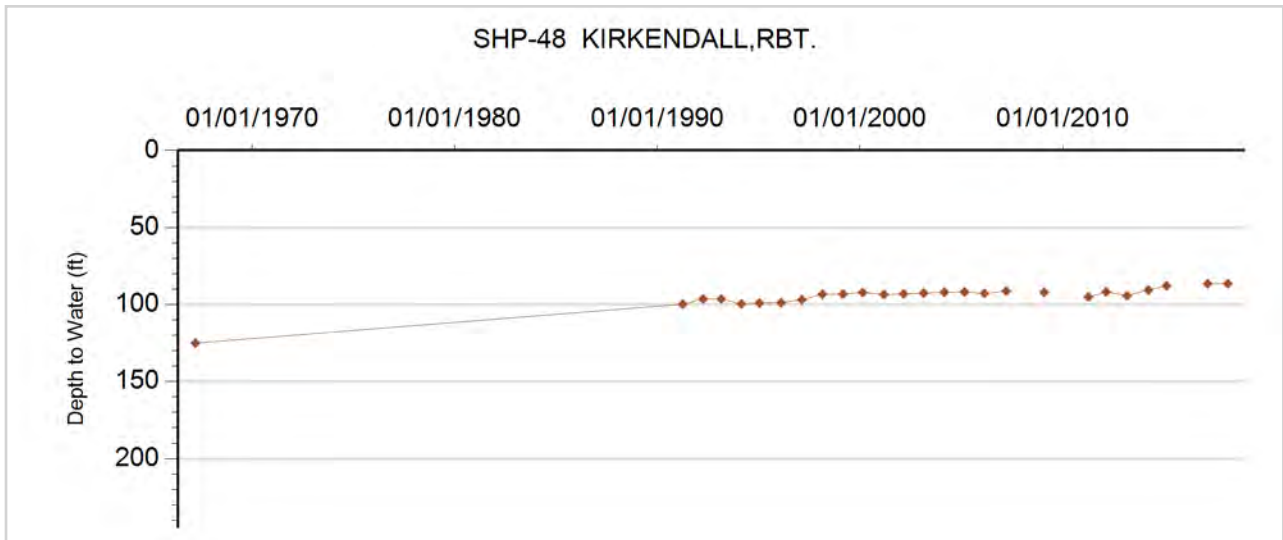
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/26/2018 | 86.45 | 4651.55 | -0.05 |
| 02/27/2017 | 86.50 | 4651.50 | |
| 03/08/2016 | | | |
| 02/18/2015 | 87.83 | 4650.17 | -2.75 |
| 03/25/2014 | 90.58 | 4647.42 | -3.72 |
| 03/08/2013 | 94.30 | 4643.70 | 2.50 |
| 02/26/2012 | 91.80 | 4646.20 | -3.30 |
| 04/12/2011 | 95.10 | 4642.90 | |
| 02/24/2010 | | | |
| 02/06/2009 | 92.10 | 4645.90 | |

Construction Information

Surface Elevation (ft): 4738.00
 Well Depth (ft): 245.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA

Well Measurement Summary

Start Date: 03/16/1967 End Date: 02/26/2018
 Number of Measurements: 29





GROUNDWATER DETAILS

Well Name: SHP-49 US FOREST SERVICE
Permit Number: 115543-
WDID:
Data Source: DWR

Location Number: SC03105007ACC
USGS Site ID:
Applicant/Contact: US FOREST SERVICE

Physical Location

| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| | | SW | SW | NE | 7 | 31.0 S | 50.0 W | S | 670348.8 | 4136465.0 | GPS |

Division: 2 District: 67
 County: BACA
 Designated Basin:
 Management District:

Time Series Data - Ten Most Recent Reportings

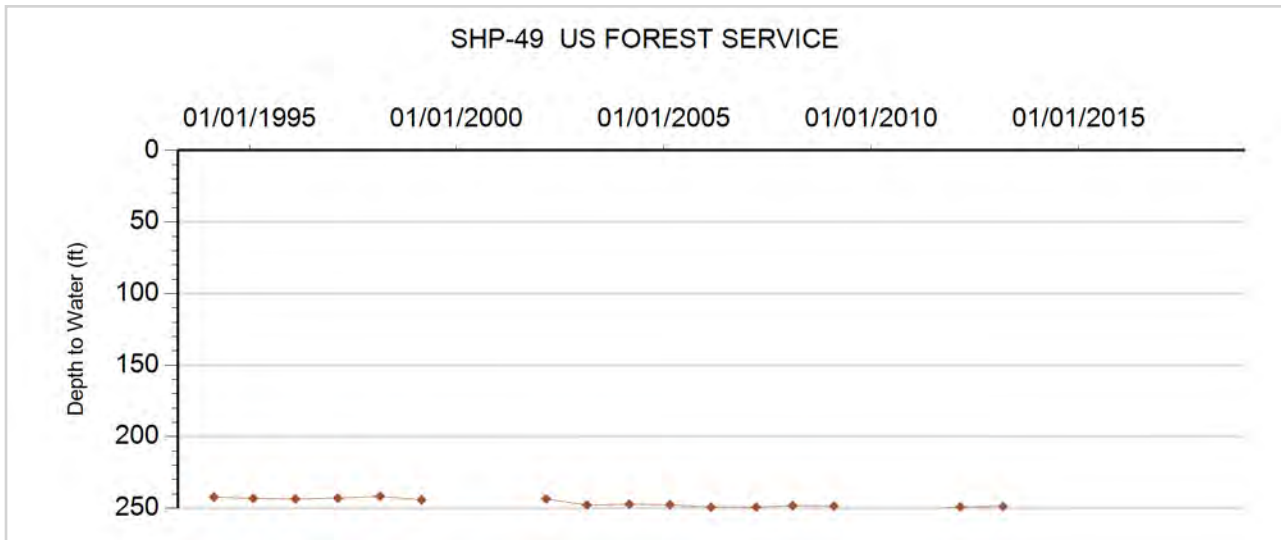
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/26/2018 | | | |
| 02/27/2017 | | | |
| 03/07/2016 | | | |
| 02/17/2015 | | | |
| 03/25/2014 | | | |
| 03/08/2013 | 248.80 | 4944.20 | -0.30 |
| 02/25/2012 | 249.10 | 4943.90 | -1.40 |
| 04/13/2011 | 250.50 | 4942.50 | |
| 01/01/2010 | | | |
| 02/06/2009 | 248.50 | 4944.50 | 0.30 |

Construction Information

Surface Elevation (ft): 5193.00
 Well Depth (ft): 250.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA, CHEYENNE

Well Measurement Summary

Start Date: 02/23/1994 End Date: 02/26/2018
 Number of Measurements: 25





GROUNDWATER DETAILS

Well Name: SHP-50 HUME,J.
Permit Number: 16087-F
WDID:
Data Source: DWR

Location Number: SC03204105BCC
USGS Site ID:
Applicant/Contact: HUME,J.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | SW | SW | NW | 5 | 32.0 S | 41.0 W | S | 759168.0 | 4130742.0 | Digitized |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

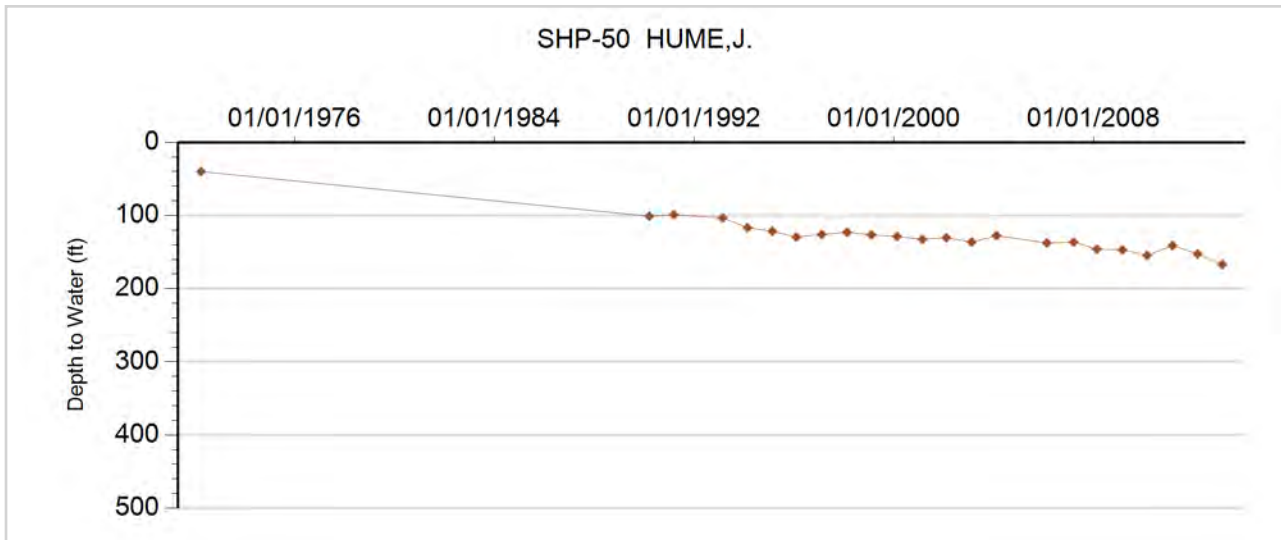
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/03/2013 | 166.90 | 3525.10 | 14.30 |
| 03/06/2012 | 152.60 | 3539.40 | 11.40 |
| 03/06/2011 | 141.20 | 3550.80 | -13.30 |
| 02/26/2010 | 154.50 | 3537.50 | 7.50 |
| 03/03/2009 | 147.00 | 3545.00 | 1.00 |
| 02/22/2008 | 146.00 | 3546.00 | 9.50 |
| 03/21/2007 | 136.50 | 3555.50 | -1.00 |
| 02/21/2006 | 137.50 | 3554.50 | 10.00 |
| 02/16/2004 | 127.50 | 3564.50 | -8.80 |
| 02/17/2003 | 136.30 | 3555.70 | 6.00 |

Construction Information

Surface Elevation (ft): 3692.00
 Well Depth (ft): 500.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): OGALLALA, DOCKUM

Well Measurement Summary

Start Date: 04/04/1972 End Date: 03/03/2013
 Number of Measurements: 23





GROUNDWATER DETAILS

Well Name: SHP-51 CECIL TRAHERN
Permit Number: 18035-FP
WDID:
Data Source: DWR

Location Number: SC03204204CD
USGS Site ID:
Applicant/Contact: CECIL TRAHERN

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | SE | SW | 4 | 32.0 S | 42.0 W | S | 751649.0 | 4130102.0 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

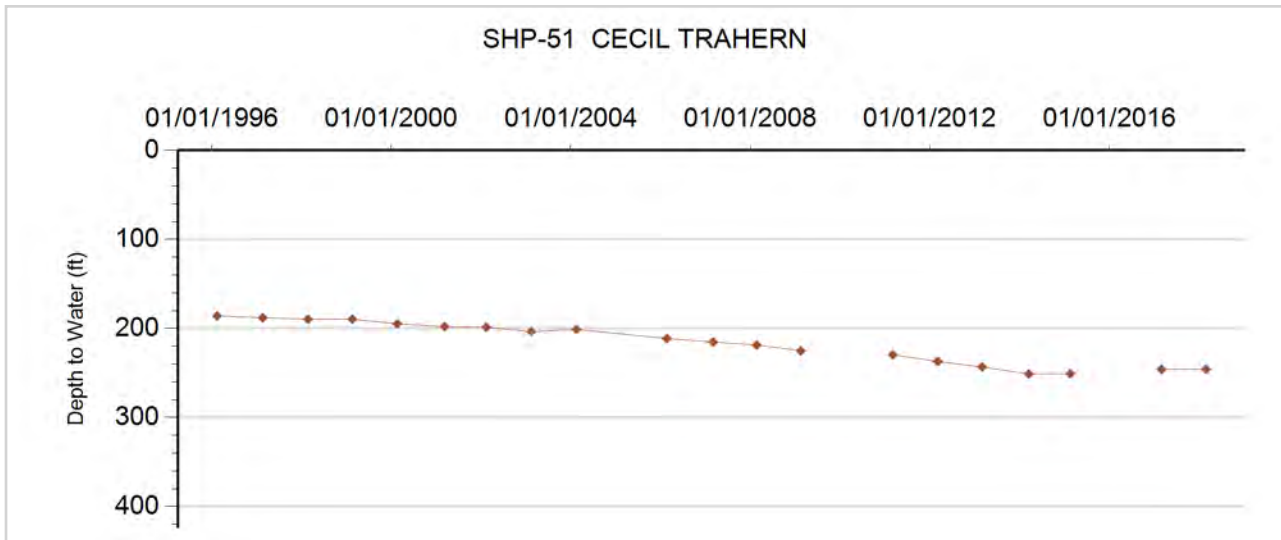
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2018 | 245.70 | 3854.30 | -0.13 |
| 03/01/2017 | 245.83 | 3854.17 | |
| 03/08/2016 | | | |
| 02/18/2015 | 250.79 | 3849.21 | -0.22 |
| 03/19/2014 | 251.01 | 3848.99 | 7.81 |
| 03/02/2013 | 243.20 | 3856.80 | 6.20 |
| 03/06/2012 | 237.00 | 3863.00 | 7.50 |
| 03/06/2011 | 229.50 | 3870.50 | |
| 01/01/2010 | | | |
| 02/16/2009 | 225.00 | 3875.00 | 6.50 |

Construction Information

Surface Elevation (ft): 4100.00
 Well Depth (ft): 424.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft): 200
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DOCKUM

Well Measurement Summary

Start Date: 02/13/1996 End Date: 02/28/2018
 Number of Measurements: 22





GROUNDWATER DETAILS

Well Name: SHP-52 BILL WRIGHT
Permit Number: 17021-FP
WDID:
Data Source: DWR

Location Number: SC03204207CB
USGS Site ID:
Applicant/Contact: BILL WRIGHT

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | NW | SW | 7 | 32.0 S | 42.0 W | S | 748283.0 | 4128417.4 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

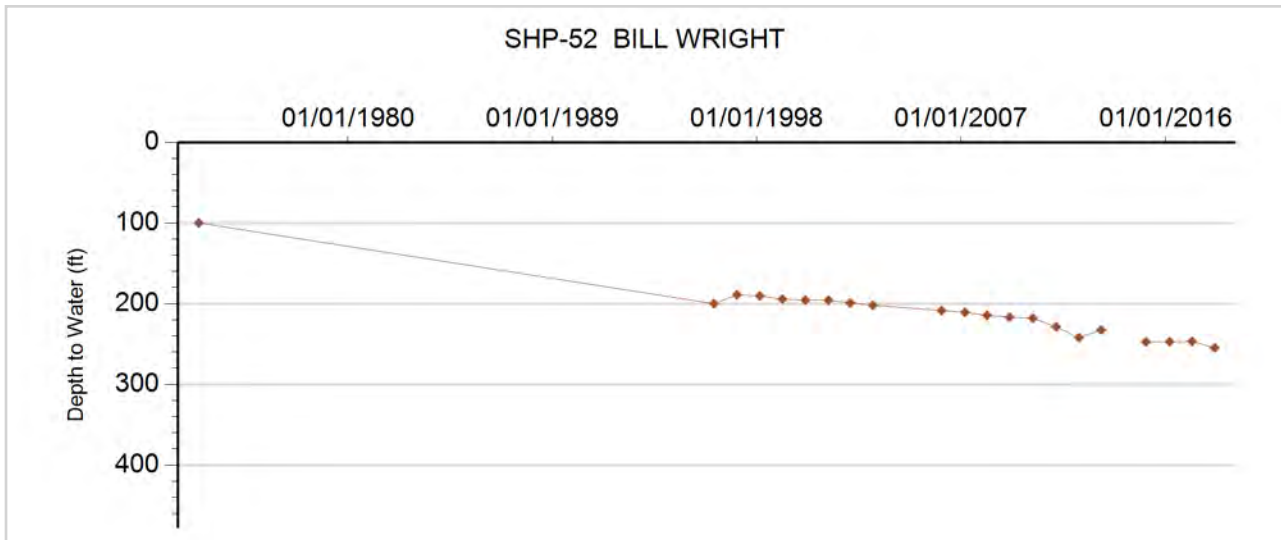
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2018 | 254.75 | 3573.25 | 8.01 |
| 03/01/2017 | 246.74 | 3581.26 | -0.48 |
| 03/08/2016 | 247.22 | 3580.78 | -0.10 |
| 02/18/2015 | 247.32 | 3580.68 | |
| 03/19/2014 | | | |
| 03/02/2013 | 232.70 | 3595.30 | -9.30 |
| 03/10/2012 | 242.00 | 3586.00 | 13.30 |
| 03/06/2011 | 228.70 | 3599.30 | 10.70 |
| 02/26/2010 | 218.00 | 3610.00 | 1.20 |
| 02/16/2009 | 216.80 | 3611.20 | 2.40 |

Construction Information

Surface Elevation (ft): 3828.00
 Well Depth (ft): 478.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): OGALLALA, DOCKUM

Well Measurement Summary

Start Date: 06/08/1973 End Date: 02/28/2018
 Number of Measurements: 22





GROUNDWATER DETAILS

Well Name: SHP-53 HUME, CHESNA
Permit Number: 13925-FP
WDID:
Data Source: DWR

Location Number: SC03204235DCB
USGS Site ID:
Applicant/Contact: HUME, CHESNA

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | NW | SW | SE | 35 | 32.0 S | 42.0 W | S | 755374.0 | 4122098.0 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

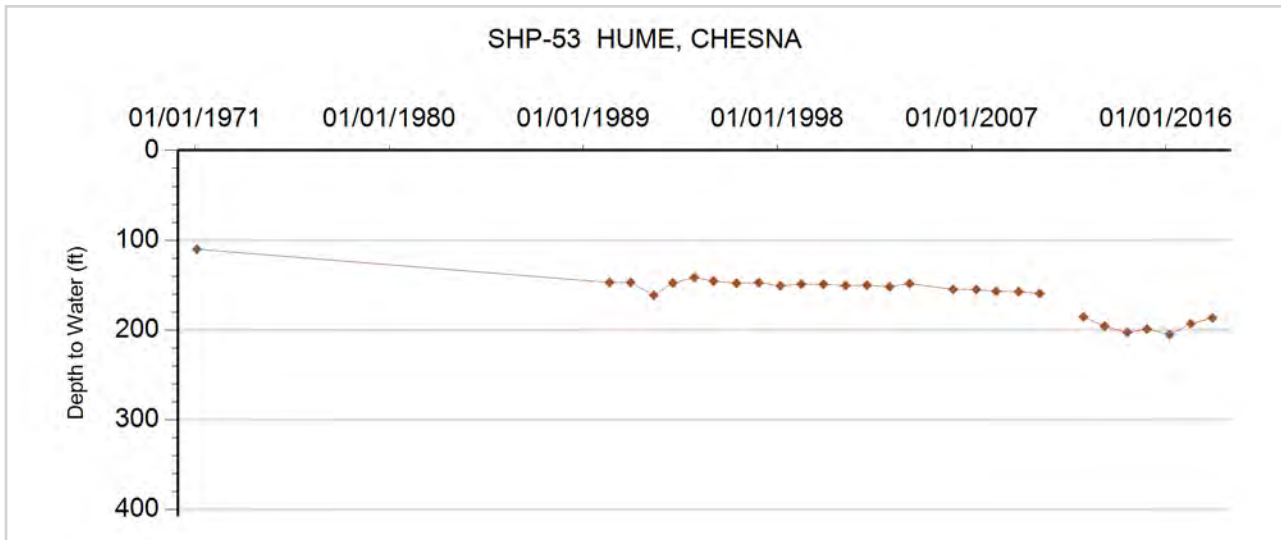
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2018 | 186.55 | 3572.45 | -6.44 |
| 02/28/2017 | 192.99 | 3566.01 | -11.95 |
| 03/08/2016 | 204.94 | 3554.06 | 6.00 |
| 02/18/2015 | 198.94 | 3560.06 | -3.82 |
| 03/19/2014 | 202.76 | 3556.24 | 7.06 |
| 03/03/2013 | 195.70 | 3563.30 | 10.20 |
| 03/09/2012 | 185.50 | 3573.50 | |
| 03/06/2011 | | | |
| 02/26/2010 | 159.30 | 3599.70 | 2.00 |
| 03/08/2009 | 157.30 | 3601.70 | 0.40 |

Construction Information

Surface Elevation (ft): 3759.00
 Well Depth (ft): 408.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft): 81
 Depth to Bottom of Perforated Casing (ft): 408
 Source Aquifer(s): OGALLALA, DAKOTA

Well Measurement Summary

Start Date: 02/04/1971 End Date: 02/28/2018
 Number of Measurements: 29





GROUNDWATER DETAILS

Well Name: SHP-54 WRIGHT, WM. F.& FERN
Permit Number: 15349-F
WDID:
Data Source: DWR

Location Number: SC03204301AC
USGS Site ID:
Applicant/Contact: WRIGHT, WM. F.& FERN

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | SW | NE | 1 | 32.0 S | 43.0 W | S | 747033.2 | 4130808.6 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

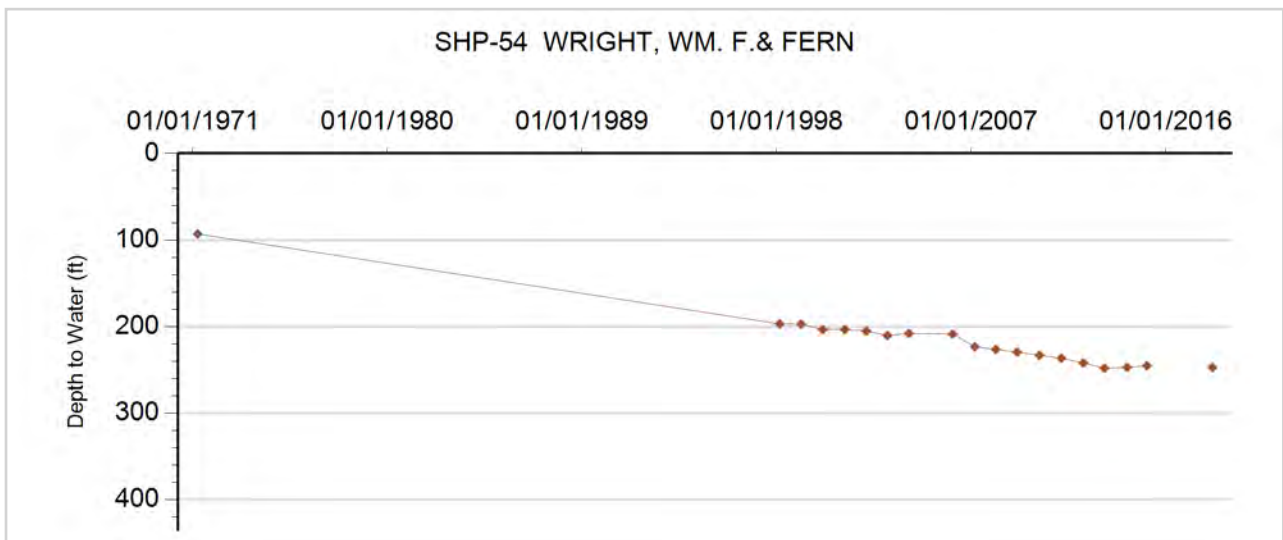
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2018 | 247.05 | 3590.95 | |
| 03/01/2017 | | | |
| 03/08/2016 | | | |
| 02/18/2015 | 245.14 | 3592.86 | -1.89 |
| 03/19/2014 | 247.03 | 3590.97 | -0.97 |
| 03/02/2013 | 248.00 | 3590.00 | 6.00 |
| 03/10/2012 | 242.00 | 3596.00 | 5.50 |
| 03/05/2011 | 236.50 | 3601.50 | 3.50 |
| 02/26/2010 | 233.00 | 3605.00 | 3.50 |
| 02/15/2009 | 229.50 | 3608.50 | 3.20 |

Construction Information

Surface Elevation (ft): 3838.00
 Well Depth (ft): 436.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DOCKUM, ALL UNNAMED
 AQUIFERS

Well Measurement Summary

Start Date: 03/23/1971 End Date: 02/28/2018
 Number of Measurements: 21





GROUNDWATER DETAILS

Well Name: SHP-55 JIM BURHN
Permit Number: 20402-FP
WDID:
Data Source: DWR

Location Number: SC03204312CDC
USGS Site ID:
Applicant/Contact: JIM BURHN

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | SW | SE | SW | 12 | 32.0 S | 43.0 W | S | 746731.0 | 4127987.0 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

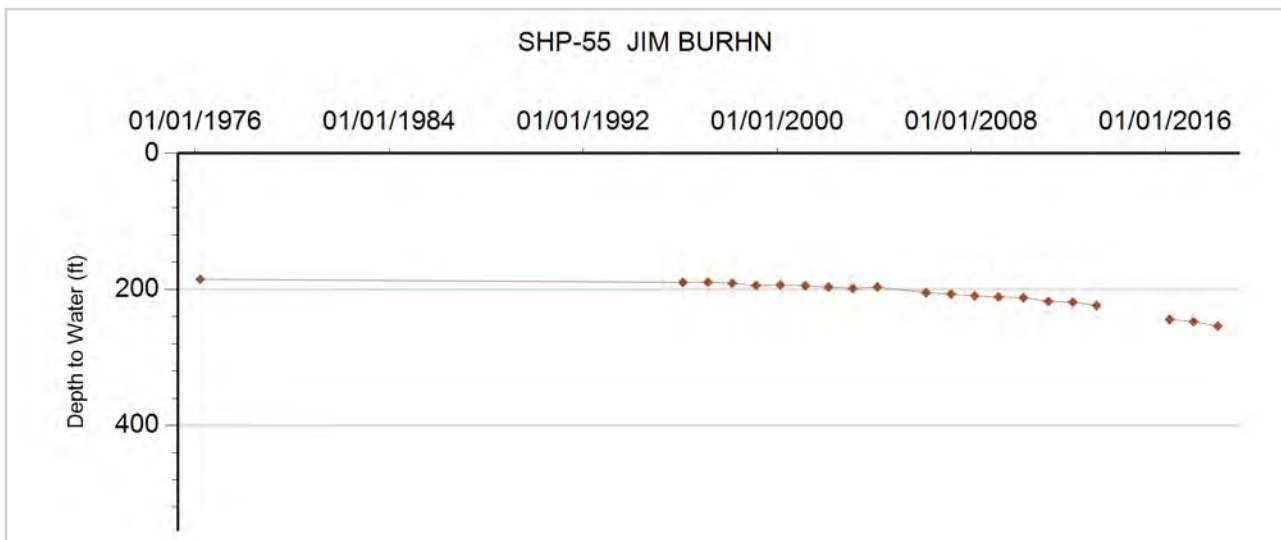
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2018 | 253.77 | 3584.23 | 6.56 |
| 03/01/2017 | 247.21 | 3590.79 | 3.16 |
| 03/08/2016 | 244.05 | 3593.95 | |
| 02/18/2015 | | | |
| 03/19/2014 | | | |
| 03/02/2013 | 223.50 | 3614.50 | 5.00 |
| 03/10/2012 | 218.50 | 3619.50 | 1.00 |
| 03/06/2011 | 217.50 | 3620.50 | 5.50 |
| 02/26/2010 | 212.00 | 3626.00 | 1.00 |
| 02/16/2009 | 211.00 | 3627.00 | 1.50 |

Construction Information

Surface Elevation (ft): 3838.00
 Well Depth (ft): 555.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DOCKUM, ALL UNNAMED
 AQUIFERS

Well Measurement Summary

Start Date: 03/19/1976 End Date: 02/28/2018
 Number of Measurements: 23





GROUNDWATER DETAILS

Well Name: SHP-56 COGBURN-HARDY FARMS
Permit Number: 14074-RFP
WDID:
Data Source: DWR

Location Number: SC03204407DCC
USGS Site ID:
Applicant/Contact: COGBURN-HARDY FARMS

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | SW | SW | SE | 7 | 32.0 S | 44.0 W | S | 729647.0 | 4127511.6 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

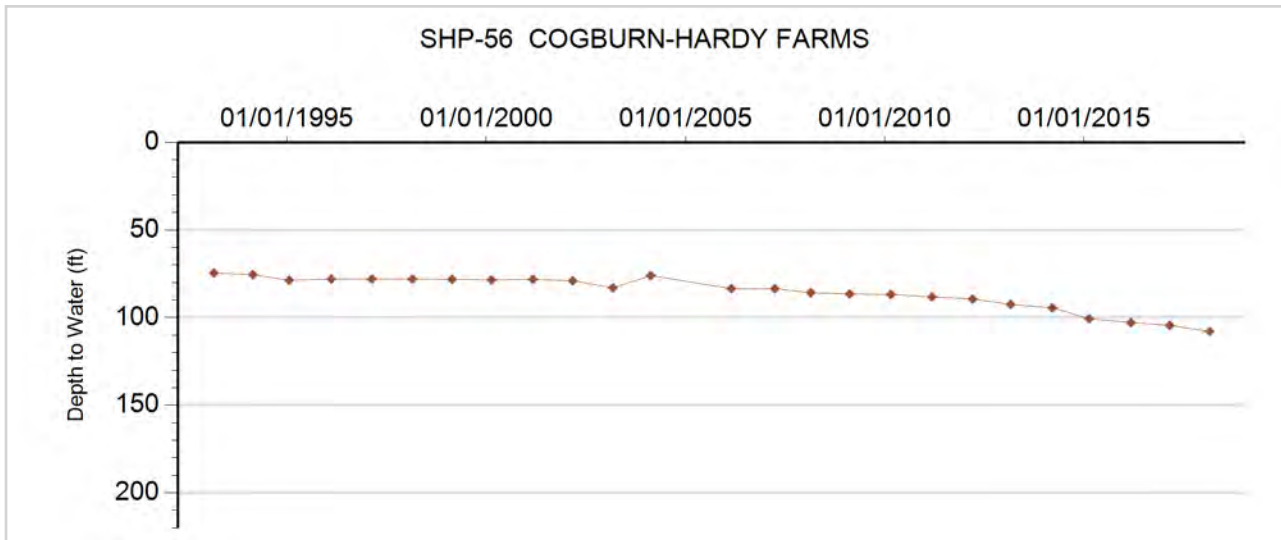
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/27/2018 | 107.88 | 4059.12 | 3.48 |
| 02/28/2017 | 104.40 | 4062.60 | 1.56 |
| 03/09/2016 | 102.84 | 4064.16 | 2.18 |
| 02/19/2015 | 100.66 | 4066.34 | 6.25 |
| 03/20/2014 | 94.41 | 4072.59 | 1.91 |
| 03/02/2013 | 92.50 | 4074.50 | 3.10 |
| 03/19/2012 | 89.40 | 4077.60 | 1.20 |
| 03/12/2011 | 88.20 | 4078.80 | 1.40 |
| 02/28/2010 | 86.80 | 4080.20 | 0.30 |
| 02/15/2009 | 86.50 | 4080.50 | 0.70 |

Construction Information

Surface Elevation (ft): 4167.00
 Well Depth (ft): 220.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): OGALLALA, CHEYENNE

Well Measurement Summary

Start Date: 02/28/1993 End Date: 02/27/2018
 Number of Measurements: 25





GROUNDWATER DETAILS

Well Name: SHP-57 TURNER
Permit Number: 10704-FP
WDID:
Data Source: DWR

Location Number: SC03204512CCC
USGS Site ID:
Applicant/Contact: TURNER

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | SW | SW | SW | 12 | 32.0 S | 45.0 W | S | 726918.0 | 4127430.0 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

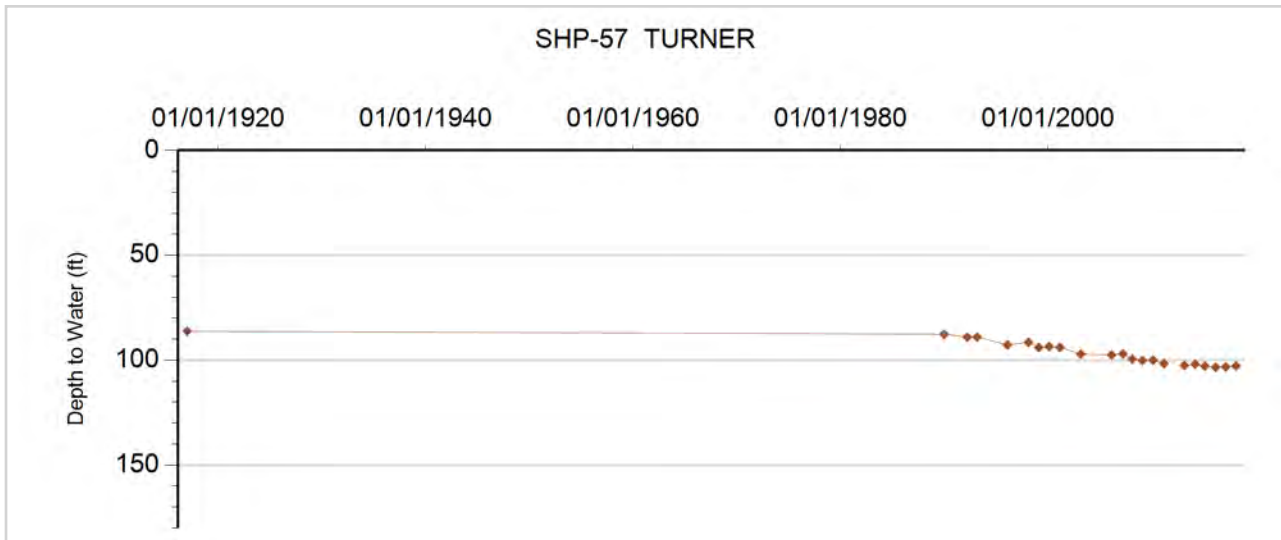
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/27/2018 | 102.70 | 4077.30 | -0.51 |
| 02/28/2017 | 103.21 | 4076.79 | -0.17 |
| 03/09/2016 | 103.38 | 4076.62 | 0.58 |
| 02/19/2015 | 102.80 | 4077.20 | 0.88 |
| 03/20/2014 | 101.92 | 4078.08 | -0.58 |
| 03/03/2013 | 102.50 | 4077.50 | |
| 03/19/2012 | | | |
| 03/12/2011 | 101.60 | 4078.40 | 1.60 |
| 02/28/2010 | 100.00 | 4080.00 | -0.20 |
| 02/15/2009 | 100.20 | 4079.80 | 0.70 |

Construction Information

Surface Elevation (ft): 4180.00
 Well Depth (ft): 180.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): OGALLALA

Well Measurement Summary

Start Date: 01/01/1917 End Date: 02/27/2018
 Number of Measurements: 23





GROUNDWATER DETAILS

Well Name: SHP-58 HUME, TIM
Permit Number: 17551-
WDID:
Data Source: DWR

Location Number: SC03204513BCB
USGS Site ID:
Applicant/Contact: HUME, TIM

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | NW | SW | NW | 13 | 32.0 S | 45.0 W | S | 726926.9 | 4126823.6 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

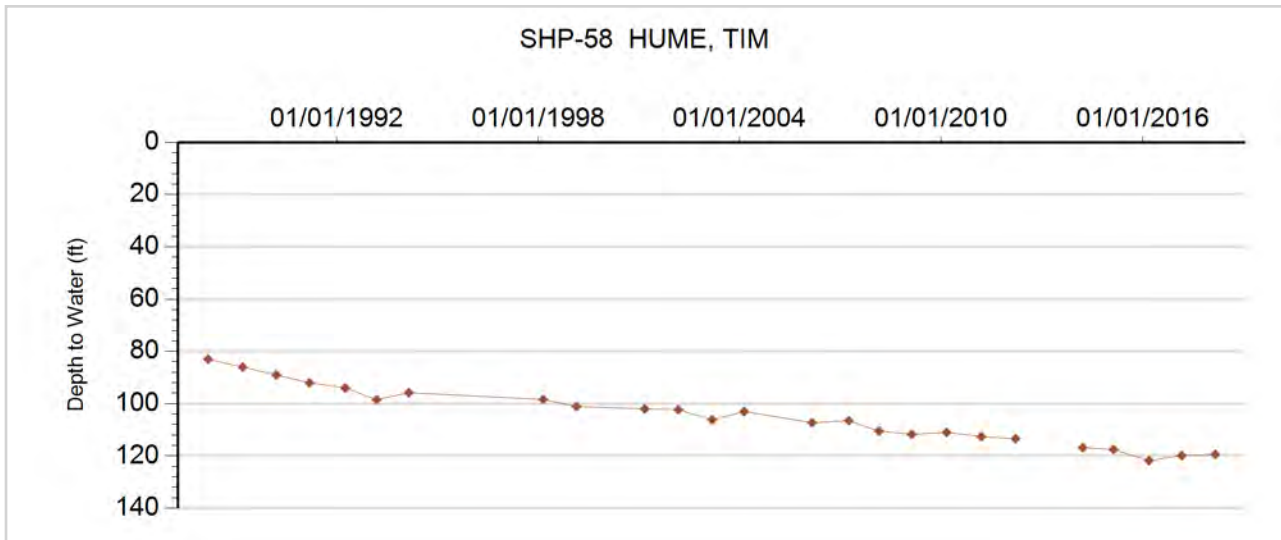
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/27/2018 | 119.38 | 4101.62 | -0.47 |
| 02/28/2017 | 119.85 | 4101.15 | -1.95 |
| 03/09/2016 | 121.80 | 4099.20 | 4.25 |
| 02/19/2015 | 117.55 | 4103.45 | 0.72 |
| 03/20/2014 | 116.83 | 4104.17 | |
| 03/02/2013 | | | |
| 03/19/2012 | 113.40 | 4107.60 | 0.80 |
| 03/12/2011 | 112.60 | 4108.40 | 1.60 |
| 02/28/2010 | 111.00 | 4110.00 | -0.70 |
| 02/15/2009 | 111.70 | 4109.30 | 1.20 |

Construction Information

Surface Elevation (ft): 4221.00
 Well Depth (ft): 140.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): OGALLALA

Well Measurement Summary

Start Date: 03/03/1988 End Date: 02/27/2018
 Number of Measurements: 26





GROUNDWATER DETAILS

Well Name: SHP-59 LMS

Permit Number: 5344-F

WDID:

Data Source: DWR

Location Number: SC03204519CC

USGS Site ID:

Applicant/Contact: LMS

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | SW | SW | 19 | 32.0 S | 45.0 W | S | 718321.8 | 4123923.6 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

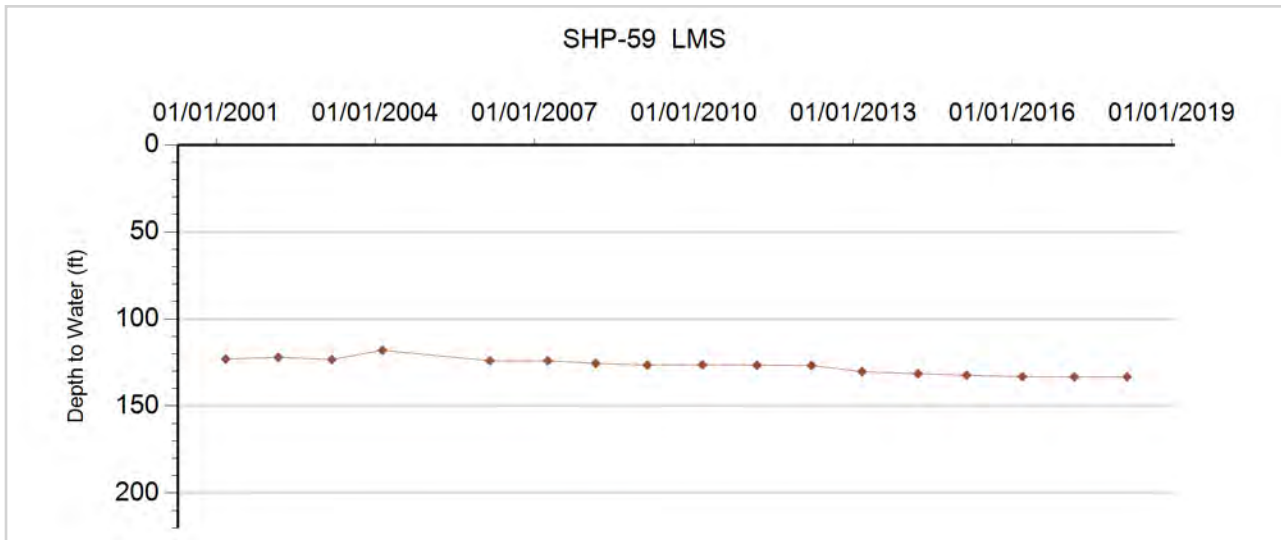
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/27/2018 | 133.29 | 4186.71 | 0.02 |
| 02/28/2017 | 133.27 | 4186.73 | 0.13 |
| 03/09/2016 | 133.14 | 4186.86 | 0.83 |
| 02/19/2015 | 132.31 | 4187.69 | 0.91 |
| 03/21/2014 | 131.40 | 4188.60 | 1.10 |
| 03/02/2013 | 130.30 | 4189.70 | 3.60 |
| 03/19/2012 | 126.70 | 4193.30 | 0.20 |
| 03/10/2011 | 126.50 | 4193.50 | 0.20 |
| 02/28/2010 | 126.30 | 4193.70 | -0.20 |
| 02/14/2009 | 126.50 | 4193.50 | 1.00 |

Construction Information

Surface Elevation (ft): 4320.00
 Well Depth (ft): 220.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): OGALLALA, PURGATOIRE

Well Measurement Summary

Start Date: 03/07/2001 End Date: 02/27/2018
 Number of Measurements: 17





GROUNDWATER DETAILS

Well Name: SHP-60 CRANE, W.
Permit Number: 12825-FP
WDID:
Data Source: DWR

Location Number: SC03204609AAD
USGS Site ID:
Applicant/Contact: CRANE, W.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | SE | NE | NE | 9 | 32.0 S | 46.0 W | S | 713025.0 | 4128182.0 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

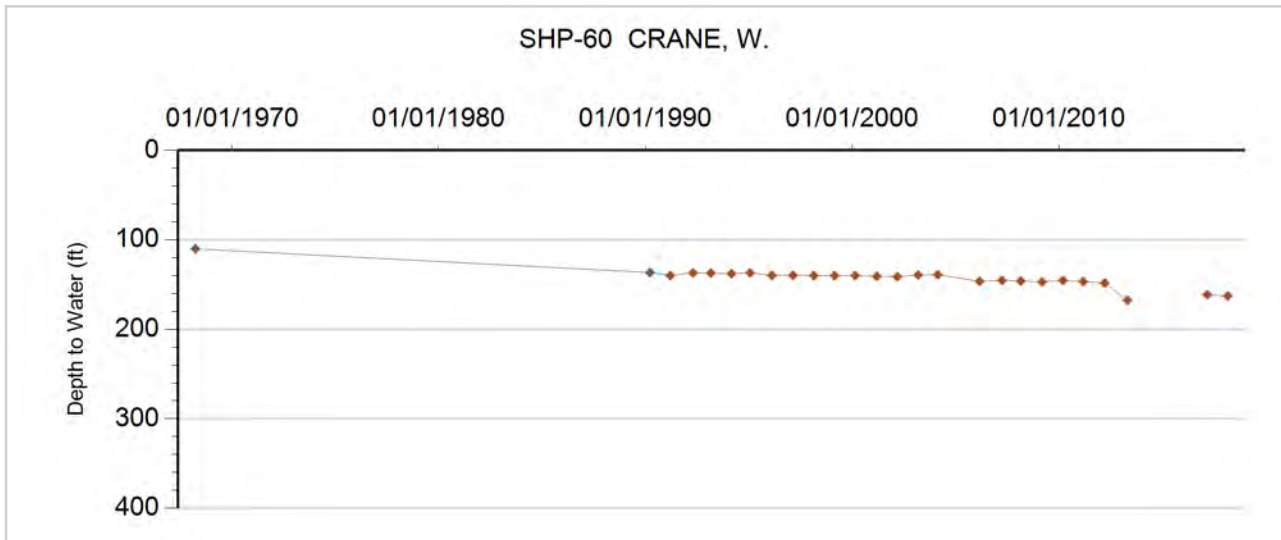
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/27/2018 | 162.61 | 4241.39 | 1.38 |
| 02/28/2017 | 161.23 | 4242.77 | |
| 03/09/2016 | | | |
| 02/19/2015 | | | |
| 03/20/2014 | | | |
| 04/21/2013 | 167.50 | 4236.50 | 19.30 |
| 03/15/2012 | 148.20 | 4255.80 | 1.60 |
| 03/05/2011 | 146.60 | 4257.40 | 1.30 |
| 03/12/2010 | 145.30 | 4258.70 | -1.70 |
| 03/09/2009 | 147.00 | 4257.00 | 1.00 |

Construction Information

Surface Elevation (ft): 4404.00
 Well Depth (ft): 400.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA, CHEYENNE

Well Measurement Summary

Start Date: 03/27/1968 End Date: 02/27/2018
 Number of Measurements: 29





GROUNDWATER DETAILS

Well Name: SHP-61 SC03204732CD
Permit Number:
WDID:
Data Source: DWR

Location Number: SC03204732AC
USGS Site ID:
Applicant/Contact:

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | SW | NE | 32 | 32.0 S | 47.0 W | S | 701199.0 | 4121354.3 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin:
 Management District:

Time Series Data - Ten Most Recent Reportings

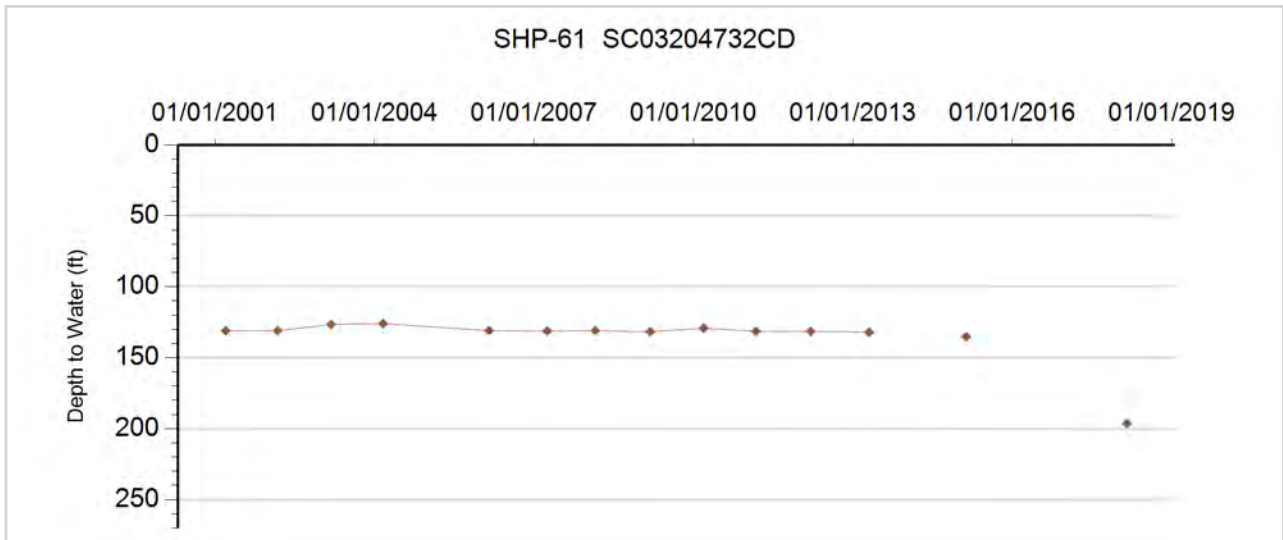
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/27/2018 | 196.35 | 4378.65 | |
| 02/27/2017 | | | |
| 03/08/2016 | | | |
| 02/18/2015 | 135.14 | 4439.86 | |
| 03/26/2014 | | | |
| 04/21/2013 | 132.00 | 4443.00 | 0.50 |
| 03/15/2012 | 131.50 | 4443.50 | 0.10 |
| 03/05/2011 | 131.40 | 4443.60 | 2.20 |
| 03/12/2010 | 129.20 | 4445.80 | -2.50 |
| 03/09/2009 | 131.70 | 4443.30 | 0.70 |

Construction Information

Surface Elevation (ft): 4575.00
 Well Depth (ft): 270.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA

Well Measurement Summary

Start Date: 03/13/2001 End Date: 02/27/2018
 Number of Measurements: 17





GROUNDWATER DETAILS

Well Name: SHP-62 ARDEN COGBURN
Permit Number: 13292-FP
WDID:
Data Source: DWR

Location Number: SC03304212CBB
USGS Site ID:
Applicant/Contact: ARDEN COGBURN

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | NW | NW | SW | 12 | 33.0 S | 42.0 W | S | 756273.4 | 4119209.6 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

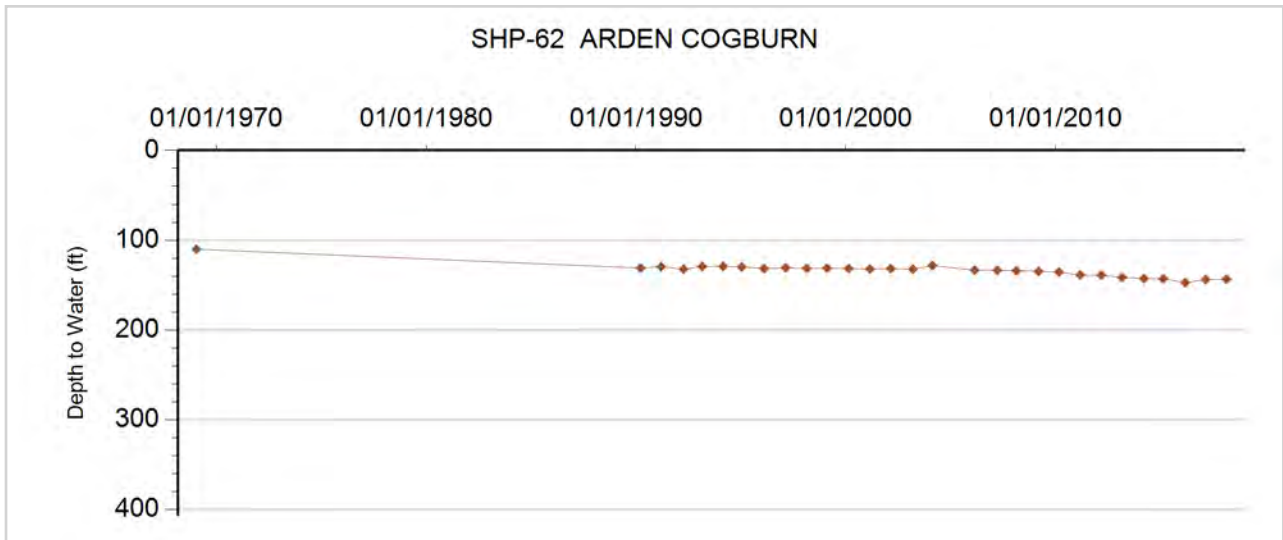
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/27/2018 | 143.45 | 3611.55 | -0.37 |
| 02/28/2017 | 143.82 | 3611.18 | -3.40 |
| 03/08/2016 | 147.22 | 3607.78 | 4.28 |
| 02/18/2015 | 142.94 | 3612.06 | 0.25 |
| 03/19/2014 | 142.69 | 3612.31 | 1.19 |
| 03/03/2013 | 141.50 | 3613.50 | 2.60 |
| 03/09/2012 | 138.90 | 3616.10 | 0.20 |
| 03/06/2011 | 138.70 | 3616.30 | 3.20 |
| 02/26/2010 | 135.50 | 3619.50 | 0.90 |
| 03/08/2009 | 134.60 | 3620.40 | 0.60 |

Construction Information

Surface Elevation (ft): 3755.00
 Well Depth (ft): 407.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): OGALLALA, DOCKUM

Well Measurement Summary

Start Date: 01/18/1969 End Date: 02/27/2018
 Number of Measurements: 29





GROUNDWATER DETAILS

Well Name: SHP-63 MIDWAY TRUST
Permit Number: 21235-FP
WDID:
Data Source: DWR

Location Number: SC03304313DC
USGS Site ID:
Applicant/Contact: MIDWAY TRUST

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | SW | SE | 13 | 33.0 S | 43.0 W | S | 747450.3 | 4116841.5 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

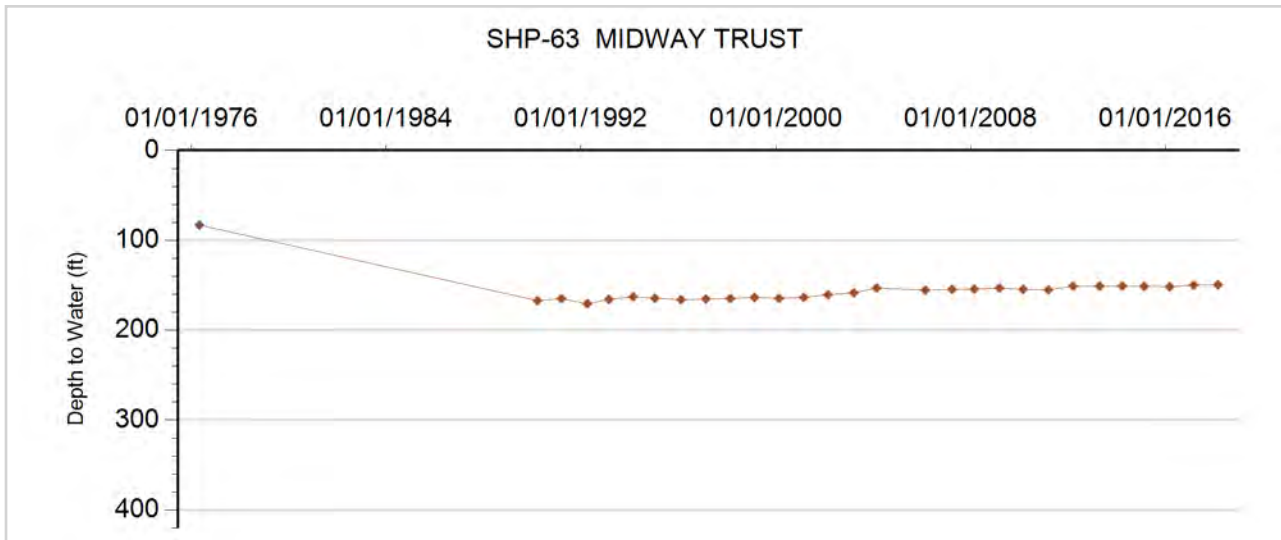
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/27/2018 | 149.39 | 3730.61 | -0.38 |
| 02/28/2017 | 149.77 | 3730.23 | -1.84 |
| 03/08/2016 | 151.61 | 3728.39 | 0.43 |
| 02/18/2015 | 151.18 | 3728.82 | 0.32 |
| 03/26/2014 | 150.86 | 3729.14 | -0.04 |
| 04/20/2013 | 150.90 | 3729.10 | -0.10 |
| 03/19/2012 | 151.00 | 3729.00 | -4.00 |
| 03/12/2011 | 155.00 | 3725.00 | 0.50 |
| 02/27/2010 | 154.50 | 3725.50 | 1.50 |
| 03/08/2009 | 153.00 | 3727.00 | -1.20 |

Construction Information

Surface Elevation (ft): 3880.00
 Well Depth (ft): 420.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DOCKUM

Well Measurement Summary

Start Date: 05/04/1976 End Date: 02/27/2018
 Number of Measurements: 29





GROUNDWATER DETAILS

Well Name: SHP-64 STAFFORD BROS.
Permit Number: 11026-FP
WDID:
Data Source: DWR

Location Number: SC03304319DA
USGS Site ID:
Applicant/Contact: STAFFORD BROS.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | NE | SE | 19 | 33.0 S | 43.0 W | S | 740212.2 | 4115647.5 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

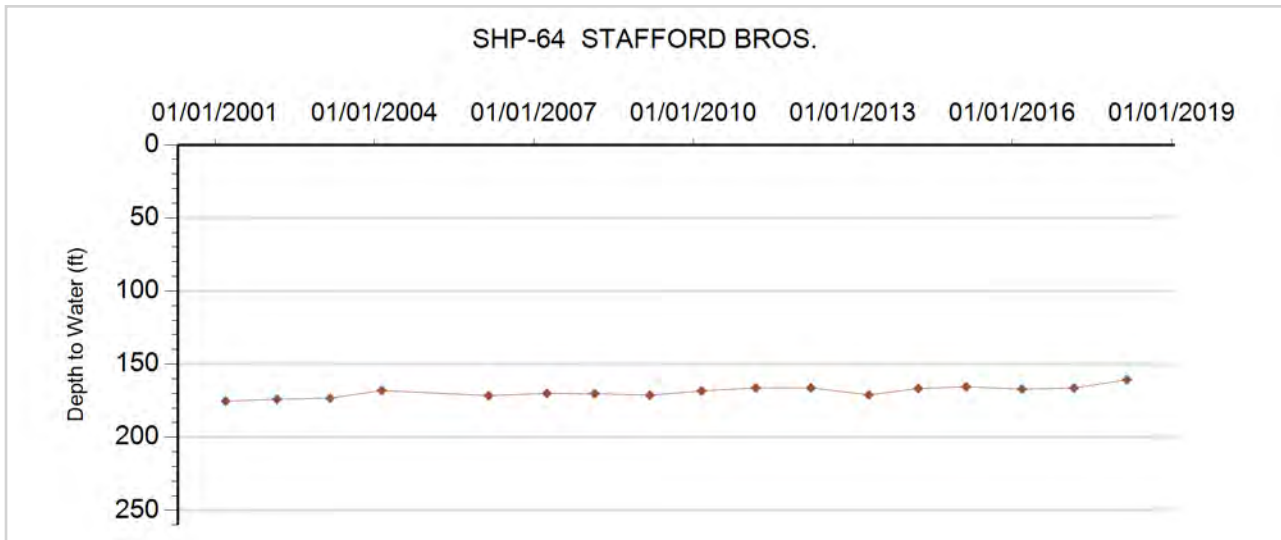
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/27/2018 | 160.67 | 3824.33 | -5.65 |
| 02/28/2017 | 166.32 | 3818.68 | -0.74 |
| 03/08/2016 | 167.06 | 3817.94 | 1.61 |
| 02/18/2015 | 165.45 | 3819.55 | -1.22 |
| 03/26/2014 | 166.67 | 3818.33 | -4.33 |
| 04/21/2013 | 171.00 | 3814.00 | 4.80 |
| 03/19/2012 | 166.20 | 3818.80 | 0.00 |
| 03/06/2011 | 166.20 | 3818.80 | -2.10 |
| 02/27/2010 | 168.30 | 3816.70 | -2.90 |
| 03/09/2009 | 171.20 | 3813.80 | 1.00 |

Construction Information

Surface Elevation (ft): 3985.00
 Well Depth (ft): 260.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA

Well Measurement Summary

Start Date: 03/16/2001 End Date: 02/27/2018
 Number of Measurements: 17





GROUNDWATER DETAILS

Well Name: SHP-65 U.S.FOREST SERVICE
Permit Number: 128624-
WDID:
Data Source: DWR

Location Number: SC03304417CBA
USGS Site ID:
Applicant/Contact: U.S.FOREST SERVICE

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | NE | NW | SW | 17 | 33.0 S | 44.0 W | S | 729723.0 | 4116908.5 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

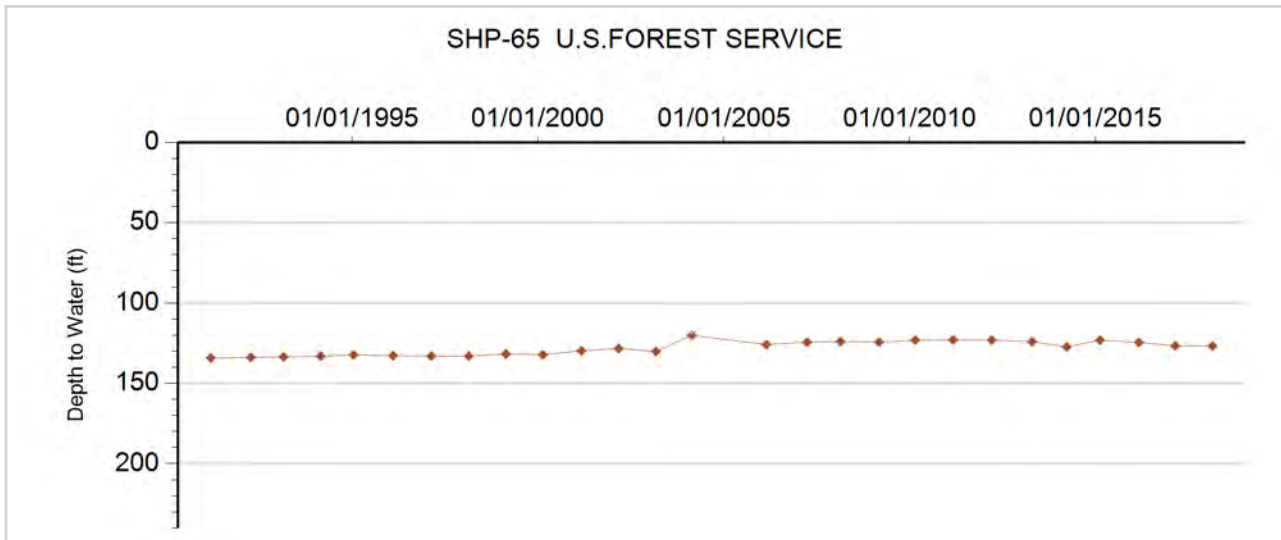
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/27/2018 | 126.75 | 4003.25 | 0.08 |
| 02/28/2017 | 126.67 | 4003.33 | 2.16 |
| 03/08/2016 | 124.51 | 4005.49 | 1.36 |
| 02/18/2015 | 123.15 | 4006.85 | -4.15 |
| 03/25/2014 | 127.30 | 4002.70 | 3.20 |
| 04/21/2013 | 124.10 | 4005.90 | 1.00 |
| 03/19/2012 | 123.10 | 4006.90 | 0.10 |
| 03/06/2011 | 123.00 | 4007.00 | -0.15 |
| 02/27/2010 | 123.15 | 4006.85 | -1.20 |
| 03/09/2009 | 124.35 | 4005.65 | 0.35 |

Construction Information

Surface Elevation (ft): 4130.00
 Well Depth (ft): 240.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA

Well Measurement Summary

Start Date: 03/13/1991 End Date: 02/27/2018
 Number of Measurements: 27





GROUNDWATER DETAILS

Well Name: SHP-66 SCHRODER
Permit Number: 77852-F
WDID:
Data Source: DWR

Location Number: SC03304515DD
USGS Site ID:
Applicant/Contact: SCHRODER

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | SE | SE | 15 | 33.0 S | 45.0 W | S | 724549.9 | 4116106.5 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

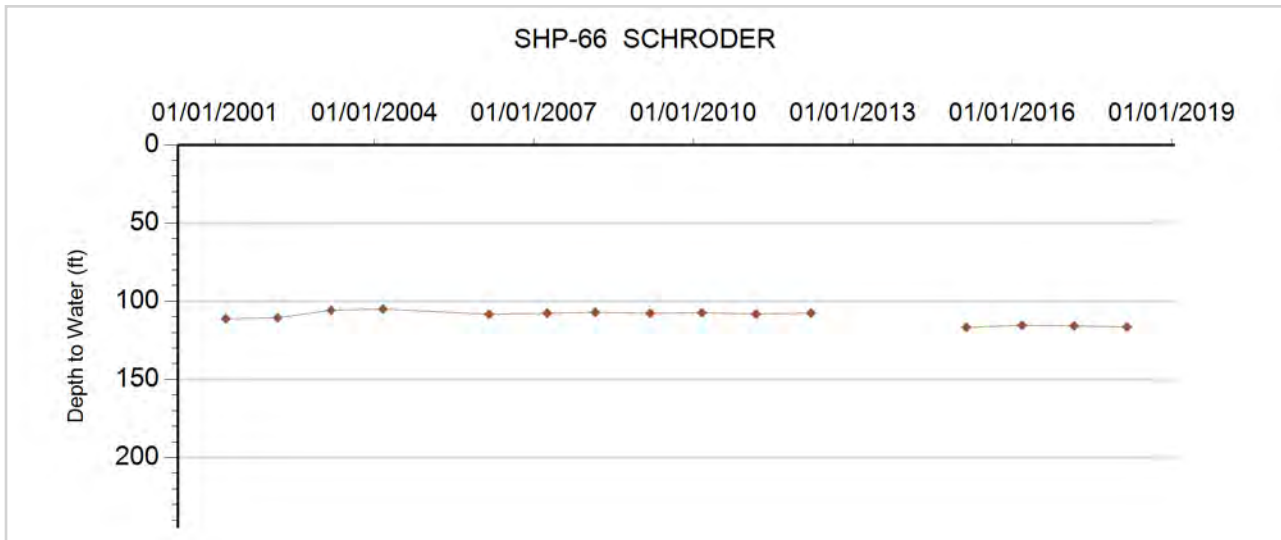
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/27/2018 | 116.47 | 4083.53 | 0.68 |
| 02/28/2017 | 115.79 | 4084.21 | 0.36 |
| 03/08/2016 | 115.43 | 4084.57 | -1.31 |
| 02/18/2015 | 116.74 | 4083.26 | |
| 03/25/2014 | | | |
| 04/20/2013 | | | |
| 03/19/2012 | 107.60 | 4092.40 | -0.60 |
| 03/06/2011 | 108.20 | 4091.80 | 0.80 |
| 02/27/2010 | 107.40 | 4092.60 | -0.30 |
| 03/09/2009 | 107.70 | 4092.30 | 0.60 |

Construction Information

Surface Elevation (ft): 4200.00
 Well Depth (ft): 245.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft): 120
 Depth to Bottom of Perforated Casing (ft): 235
 Source Aquifer(s): DAKOTA

Well Measurement Summary

Start Date: 03/13/2001 End Date: 02/27/2018
 Number of Measurements: 17





GROUNDWATER DETAILS

Well Name: SHP-67 FARMERS HOME ADMTN.
Permit Number: 19813-FP
WDID:
Data Source: DWR

Location Number: SC03304626BBB
USGS Site ID:
Applicant/Contact: FARMERS HOME ADMTN.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | NW | NW | NW | 26 | 33.0 S | 46.0 W | S | 715155.8 | 4114077.5 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

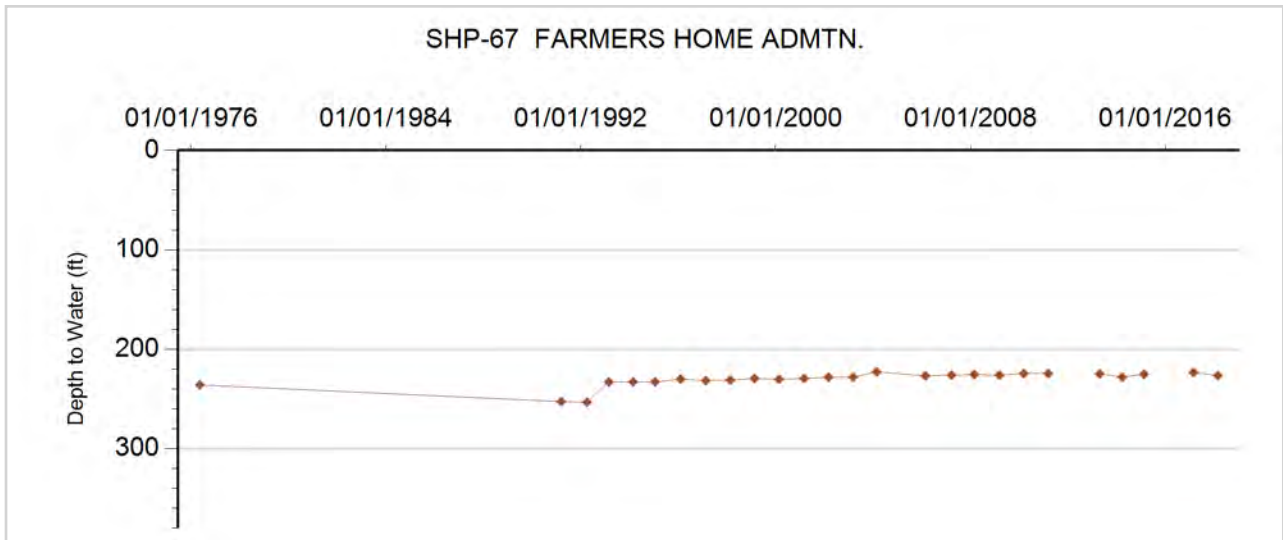
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/27/2018 | 226.63 | 4113.37 | 3.25 |
| 02/28/2017 | 223.38 | 4116.62 | |
| 03/08/2016 | | | |
| 02/17/2015 | 225.29 | 4114.71 | -2.90 |
| 03/25/2014 | 228.19 | 4111.81 | 3.39 |
| 04/21/2013 | 224.80 | 4115.20 | |
| 03/15/2012 | | | |
| 03/13/2011 | 224.50 | 4115.50 | 0.00 |
| 03/12/2010 | 224.50 | 4115.50 | -1.60 |
| 03/09/2009 | 226.10 | 4113.90 | 0.60 |

Construction Information

Surface Elevation (ft): 4340.00
 Well Depth (ft): 380.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): CHEYENNE

Well Measurement Summary

Start Date: 05/10/1976 End Date: 02/27/2018
 Number of Measurements: 28





GROUNDWATER DETAILS

Well Name: SHP-68 OMALLEY
Permit Number: 20427-F
WDID:
Data Source: DWR

Location Number: SC03304630AA
USGS Site ID:
Applicant/Contact: OMALLEY

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | NE | NE | 30 | 33.0 S | 46.0 W | S | 708573.8 | 4113809.5 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

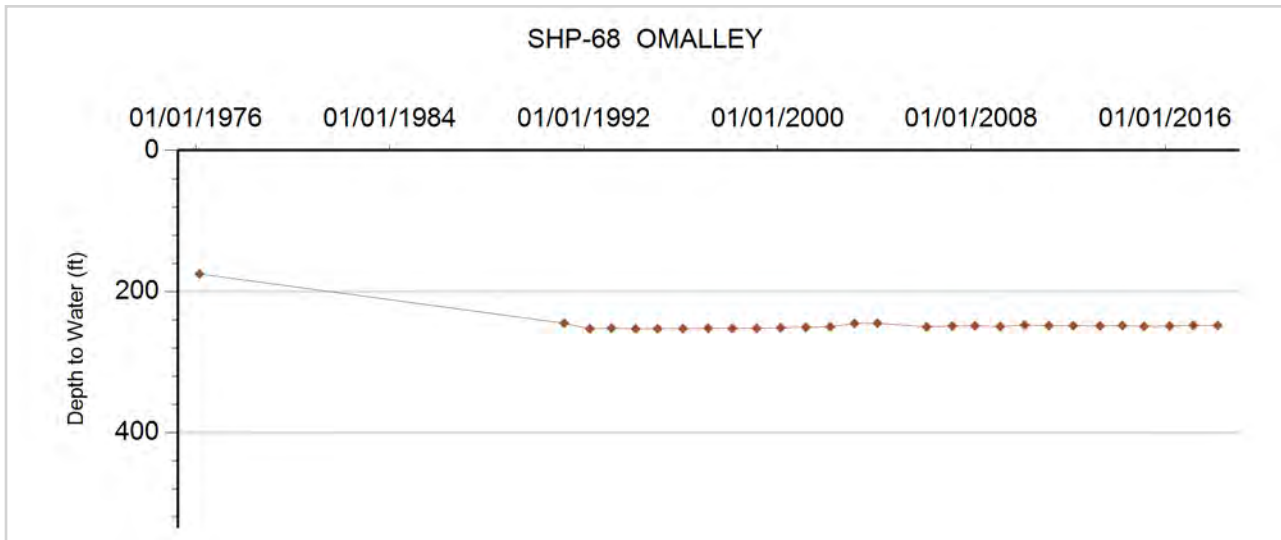
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/26/2018 | 247.99 | 4187.01 | 0.05 |
| 02/27/2017 | 247.94 | 4187.06 | -0.77 |
| 03/08/2016 | 248.71 | 4186.29 | -0.54 |
| 02/18/2015 | 249.25 | 4185.75 | 0.96 |
| 03/25/2014 | 248.29 | 4186.71 | -0.31 |
| 04/20/2013 | 248.60 | 4186.40 | 0.20 |
| 03/15/2012 | 248.40 | 4186.60 | 0.00 |
| 03/13/2011 | 248.40 | 4186.60 | 0.90 |
| 03/12/2010 | 247.50 | 4187.50 | -1.90 |
| 03/09/2009 | 249.40 | 4185.60 | 0.90 |

Construction Information

Surface Elevation (ft): 4435.00
 Well Depth (ft): 535.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA, CHEYENNE

Well Measurement Summary

Start Date: 02/27/1976 End Date: 02/26/2018
 Number of Measurements: 28





GROUNDWATER DETAILS

Well Name: SHP-69 RAY SIKES
Permit Number: 15029-F
WDID:
Data Source: DWR

Location Number: SC03305006CAD
USGS Site ID:
Applicant/Contact: RAY SIKES

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | SE | NE | SW | 6 | 33.0 S | 50.0 W | S | 670616.6 | 4118438.8 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

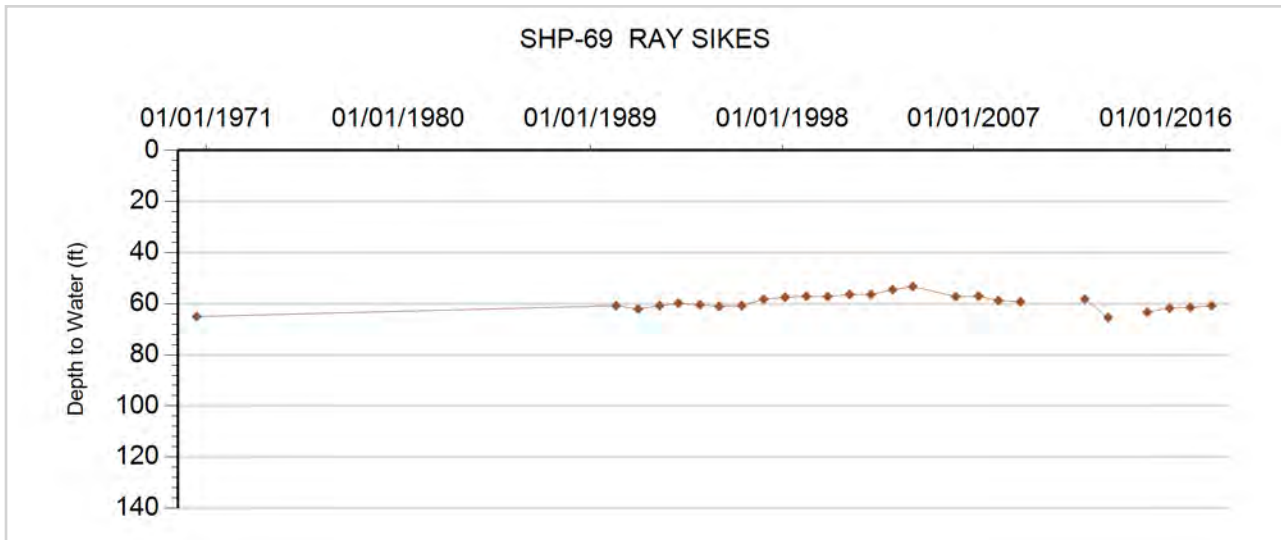
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/26/2018 | 60.74 | 4940.26 | -0.69 |
| 02/27/2017 | 61.43 | 4939.57 | -0.26 |
| 03/07/2016 | 61.69 | 4939.31 | -1.63 |
| 02/17/2015 | 63.32 | 4937.68 | |
| 03/25/2014 | | | |
| 04/20/2013 | 65.40 | 4935.60 | 7.20 |
| 03/15/2012 | 58.20 | 4942.80 | |
| 03/13/2011 | | | |
| 03/09/2009 | 59.20 | 4941.80 | 0.45 |
| 02/24/2008 | 58.75 | 4942.25 | 1.75 |

Construction Information

Surface Elevation (ft): 5001.00
 Well Depth (ft): 140.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA, CHEYENNE

Well Measurement Summary

Start Date: 07/22/1970 End Date: 02/26/2018
 Number of Measurements: 28





GROUNDWATER DETAILS

Well Name: SHP-70 GARY & TIM WHITE
Permit Number: 23774-FP
WDID:
Data Source: DWR

Location Number: SC03404122BA
USGS Site ID:
Applicant/Contact: GARY & TIM WHITE

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | NE | NW | 22 | 34.0 S | 41.0 W | S | 761865.0 | 4107104.0 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

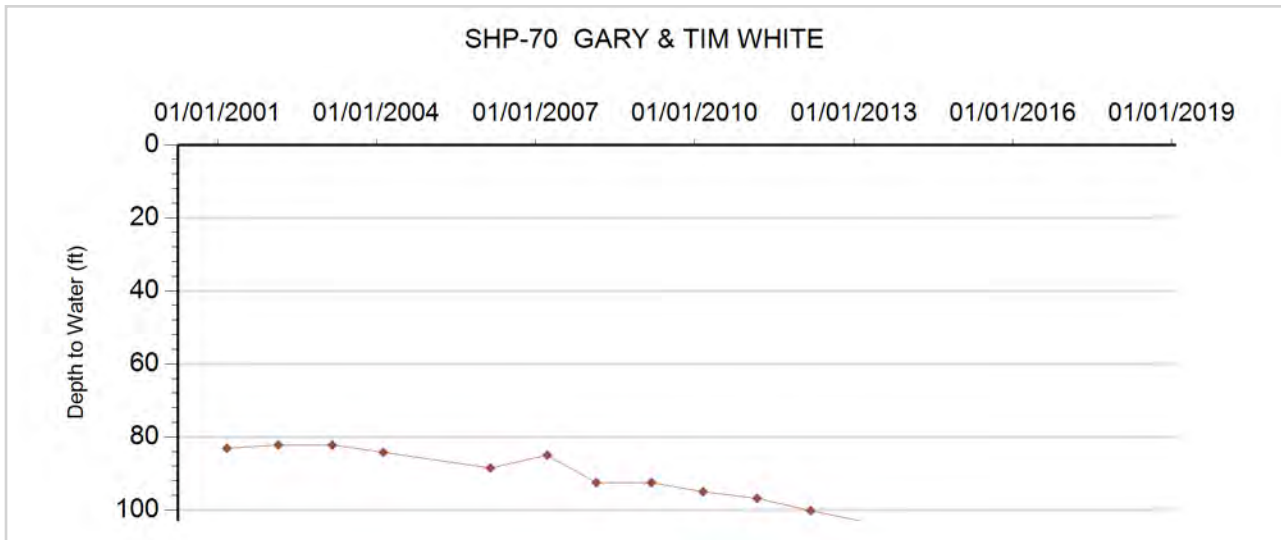
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/27/2018 | | | |
| 02/28/2017 | | | |
| 03/25/2014 | | | |
| 03/03/2013 | 103.10 | 3396.90 | 2.90 |
| 03/09/2012 | 100.20 | 3399.80 | 3.40 |
| 03/06/2011 | 96.80 | 3403.20 | 1.80 |
| 02/27/2010 | 95.00 | 3405.00 | 2.50 |
| 03/08/2009 | 92.50 | 3407.50 | 0.00 |
| 02/23/2008 | 92.50 | 3407.50 | 7.50 |
| 03/22/2007 | 85.00 | 3415.00 | -3.50 |

Construction Information

Surface Elevation (ft): 3500.00
 Well Depth (ft): 103.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft): 3
 Depth to Bottom of Perforated Casing (ft): 103
 Source Aquifer(s): OGALLALA, DOCKUM

Well Measurement Summary

Start Date: 03/06/2001 End Date: 02/27/2018
 Number of Measurements: 15





GROUNDWATER DETAILS

Well Name: SHP-71 COLO.INTRST.GAS 1
Permit Number: 112906-
WDID:
Data Source: DWR

Location Number: SC03404205ADA1
USGS Site ID:
Applicant/Contact: COLO.INTRST.GAS

Physical Location

| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-----------------------|
| | | NE | SE | NE | 5 | 34.0 S | 42.0 W | S | 750365.7 | 4111405.8 | Spotted from quarters |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

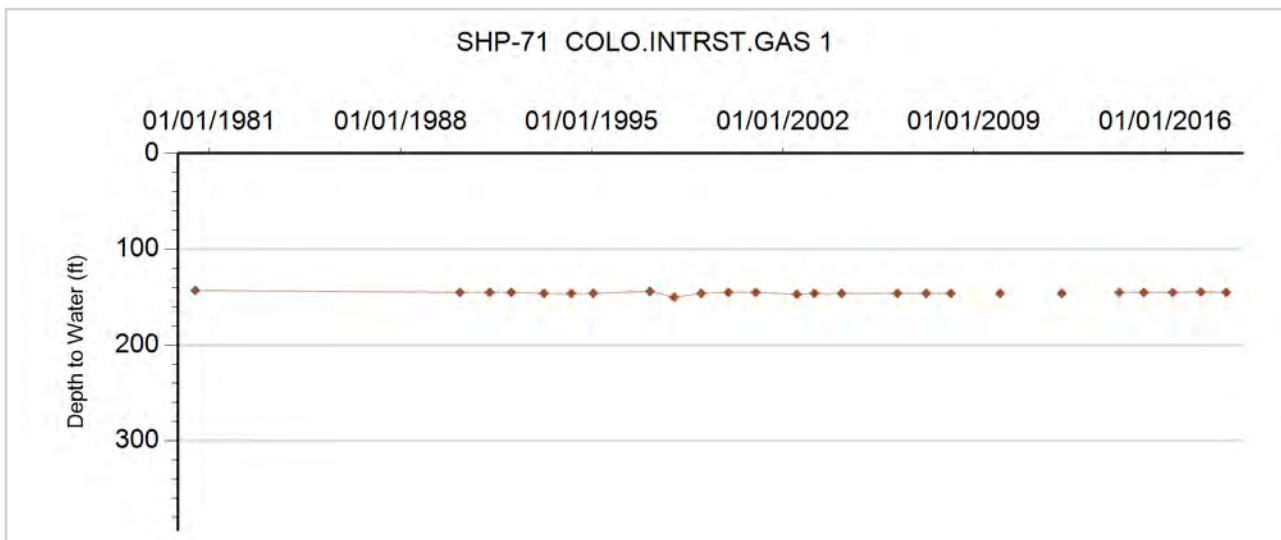
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/29/2018 | 145.00 | 3683.00 | 0.50 |
| 04/26/2017 | 144.50 | 3683.50 | -0.50 |
| 04/12/2016 | 145.00 | 3683.00 | 0.00 |
| 03/25/2015 | 145.00 | 3683.00 | 0.00 |
| 04/30/2014 | 145.00 | 3683.00 | |
| 03/01/2013 | | | |
| 03/21/2012 | 146.00 | 3682.00 | |
| 03/03/2011 | | | |
| 12/16/2009 | 146.00 | 3682.00 | |
| 01/01/2009 | | | |

Construction Information

Surface Elevation (ft): 3828.00
 Well Depth (ft): 394.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DOCKUM

Well Measurement Summary

Start Date: 06/26/1980 End Date: 03/29/2018
 Number of Measurements: 28





GROUNDWATER DETAILS

Well Name: SHP-72 COLO INTERST GAS 2
Permit Number: 112907-
WDID:
Data Source: DWR

Location Number: SC03404205ADA2
USGS Site ID:
Applicant/Contact: COLO INTERST GAS

Physical Location

| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-----------------------|
| | | NE | SE | NE | 5 | 34.0 S | 42.0 W | S | 750365.7 | 4111405.8 | Spotted from quarters |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

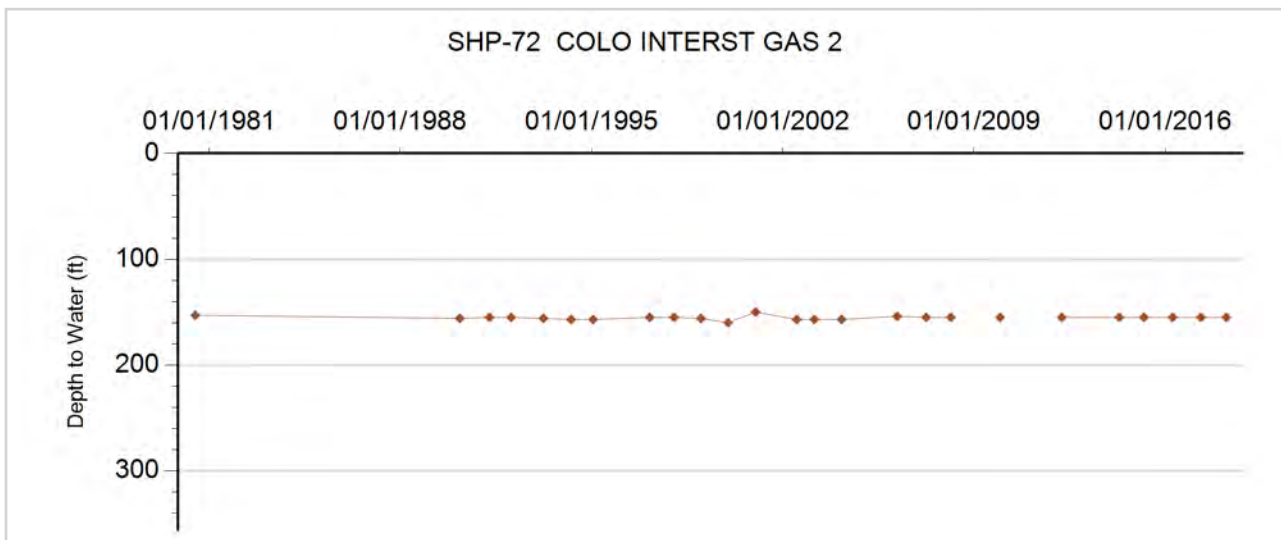
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/29/2018 | 155.00 | 3671.00 | 0.00 |
| 04/26/2017 | 155.00 | 3671.00 | 0.00 |
| 04/12/2016 | 155.00 | 3671.00 | 0.00 |
| 03/25/2015 | 155.00 | 3671.00 | 0.00 |
| 04/30/2014 | 155.00 | 3671.00 | 0.00 |
| 03/21/2012 | 155.00 | 3671.00 | |
| 03/03/2011 | | | |
| 12/16/2009 | 155.00 | 3671.00 | |
| 01/01/2009 | | | |
| 02/27/2008 | 155.00 | 3671.00 | 0.00 |

Construction Information

Surface Elevation (ft): 3826.00
 Well Depth (ft): 357.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DOCKUM

Well Measurement Summary

Start Date: 06/30/1980 End Date: 03/29/2018
 Number of Measurements: 27





GROUNDWATER DETAILS

Well Name: SHP-73 WRAY, P.&A.
Permit Number: 123684-
WDID:
Data Source: DWR

Location Number: SC03404205DAD
USGS Site ID: 370640102105600
Applicant/Contact: WRAY, P.&A.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | SE | NE | SE | 5 | 34.0 S | 42.0 W | S | 750235.0 | 4110823.2 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

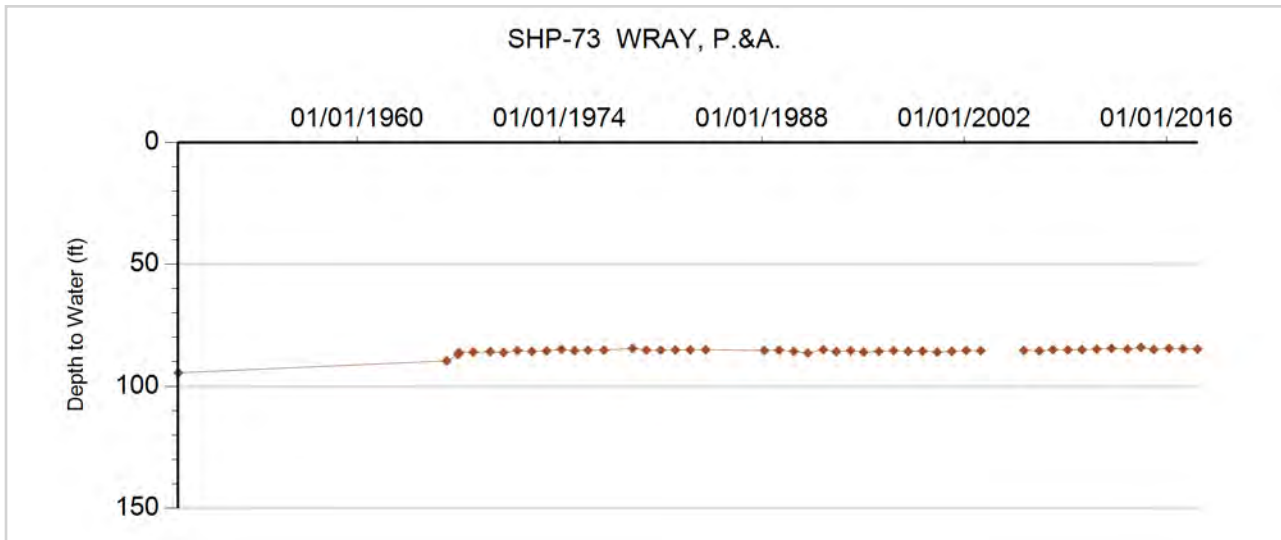
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/27/2018 | 84.77 | 3674.82 | 0.12 |
| 02/28/2017 | 84.65 | 3674.94 | 0.16 |
| 03/07/2016 | 84.49 | 3675.10 | -0.45 |
| 02/17/2015 | 84.94 | 3674.65 | 0.87 |
| 03/26/2014 | 84.07 | 3675.52 | -0.73 |
| 04/20/2013 | 84.80 | 3674.79 | 0.30 |
| 03/19/2012 | 84.50 | 3675.09 | -0.30 |
| 03/06/2011 | 84.80 | 3674.79 | -0.20 |
| 02/27/2010 | 85.00 | 3674.59 | -0.10 |
| 03/08/2009 | 85.10 | 3674.49 | 0.10 |

Construction Information

Surface Elevation (ft): 3759.59
 Well Depth (ft): 150.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DOCKUM

Well Measurement Summary

Start Date: 08/20/1947 End Date: 02/27/2018
 Number of Measurements: 50





GROUNDWATER DETAILS

Well Name: SHP-74 DAN WITCHER
Permit Number: 15807-
WDID:
Data Source: DWR

Location Number: SC03404221AC
USGS Site ID:
Applicant/Contact: DAN WITCHER

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | SW | NE | 21 | 34.0 S | 42.0 W | S | 751782.4 | 4106654.4 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

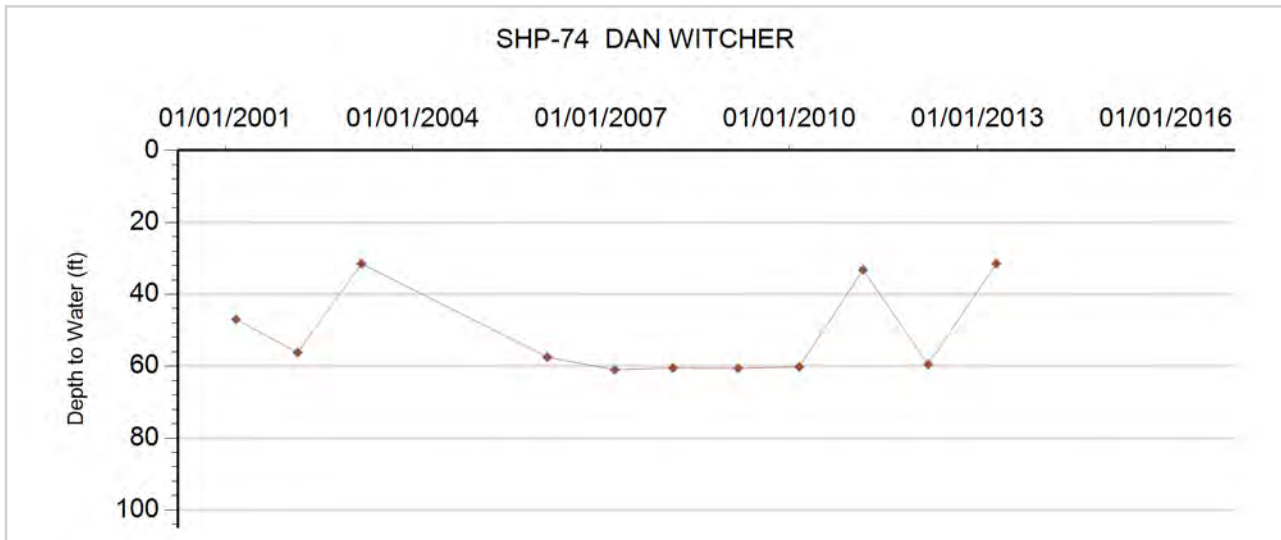
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/07/2016 | | | |
| 03/25/2014 | | | |
| 04/20/2013 | 31.50 | 3583.50 | -28.00 |
| 03/19/2012 | 59.50 | 3555.50 | 26.30 |
| 03/06/2011 | 33.20 | 3581.80 | -27.00 |
| 02/27/2010 | 60.20 | 3554.80 | -0.40 |
| 03/08/2009 | 60.60 | 3554.40 | 0.10 |
| 02/23/2008 | 60.50 | 3554.50 | -0.50 |
| 03/21/2007 | 61.00 | 3554.00 | 3.50 |
| 02/21/2006 | 57.50 | 3557.50 | 26.00 |

Construction Information

Surface Elevation (ft): 3615.00
 Well Depth (ft): 105.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DOCKUM

Well Measurement Summary

Start Date: 03/06/2001 End Date: 03/07/2016
 Number of Measurements: 13





GROUNDWATER DETAILS

Well Name: SHP-75 ALLEY LAND & CAT.
Permit Number: 3232-FP
WDID:
Data Source: DWR

Location Number: SC03404309CD
USGS Site ID:
Applicant/Contact: ALLEY LAND & CAT.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | SE | SW | 9 | 34.0 S | 43.0 W | S | 741552.6 | 4108587.7 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

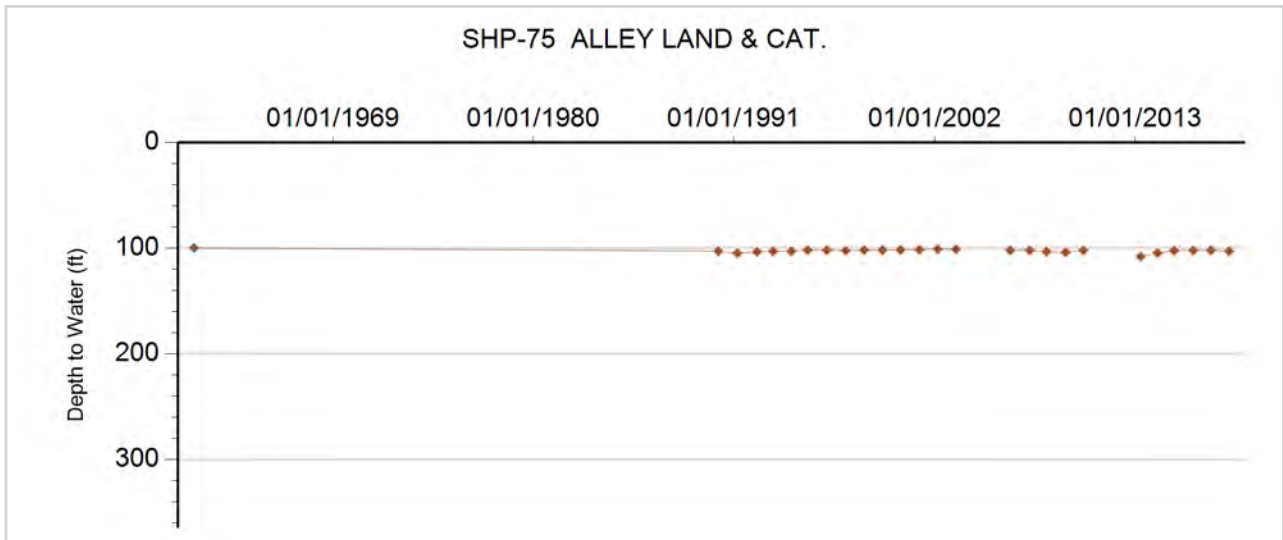
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/27/2018 | 103.08 | 3861.92 | 0.85 |
| 02/28/2017 | 102.23 | 3862.77 | -0.10 |
| 03/07/2016 | 102.33 | 3862.67 | -0.27 |
| 02/17/2015 | 102.60 | 3862.40 | -2.24 |
| 03/26/2014 | 104.84 | 3860.16 | -3.26 |
| 04/20/2013 | 108.10 | 3856.90 | |
| 03/19/2012 | | | |
| 03/06/2011 | | | |
| 02/27/2010 | 102.30 | 3862.70 | -1.70 |
| 03/09/2009 | 104.00 | 3861.00 | 0.50 |

Construction Information

Surface Elevation (ft): 3965.00
 Well Depth (ft): 365.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DOCKUM

Well Measurement Summary

Start Date: 05/25/1961 End Date: 02/27/2018
 Number of Measurements: 29





GROUNDWATER DETAILS

Well Name: SHP-76 ALLEY LAND & CATTLE
Permit Number: 29421-
WDID:
Data Source: DWR

Location Number: SC03404320DD
USGS Site ID:
Applicant/Contact: ALLEY LAND & CATTLE

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | SE | SE | 20 | 34.0 S | 43.0 W | S | 739383.2 | 4105113.3 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

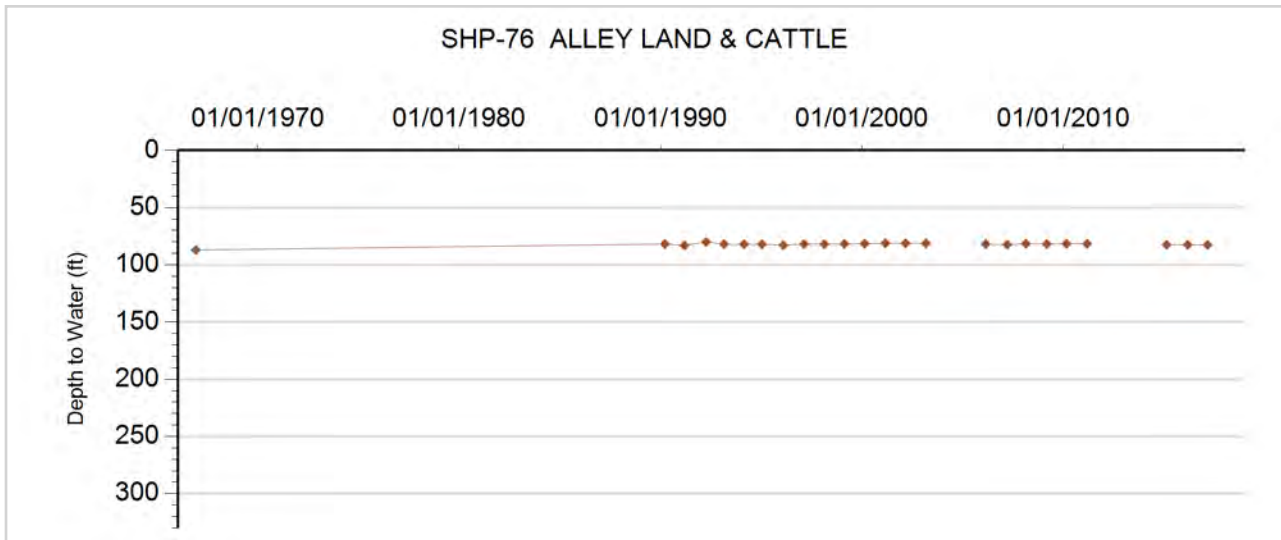
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/27/2018 | | | |
| 02/28/2017 | 82.55 | 3780.45 | 0.09 |
| 03/07/2016 | 82.46 | 3780.54 | 0.06 |
| 02/17/2015 | 82.40 | 3780.60 | |
| 03/26/2014 | | | |
| 04/20/2013 | | | |
| 03/16/2012 | | | |
| 03/06/2011 | 81.50 | 3781.50 | 0.00 |
| 02/27/2010 | 81.50 | 3781.50 | -0.30 |
| 03/09/2009 | 81.80 | 3781.20 | 0.30 |

Construction Information

Surface Elevation (ft): 3863.00
 Well Depth (ft): 330.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DOCKUM

Well Measurement Summary

Start Date: 12/05/1966 End Date: 02/27/2018
 Number of Measurements: 29





GROUNDWATER DETAILS

Well Name: SHP-77 HUME, M.&L.
Permit Number:
WDID:
Data Source: DWR

Location Number: SC03404508BBB
USGS Site ID: 370617102311700
Applicant/Contact: HUME, M.&L.

Physical Location

| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| | | NW | NW | NW | 8 | 34.0 S | 45.0 W | S | 720038.0 | 4109366.0 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin:
 Management District:

Time Series Data - Ten Most Recent Reportings

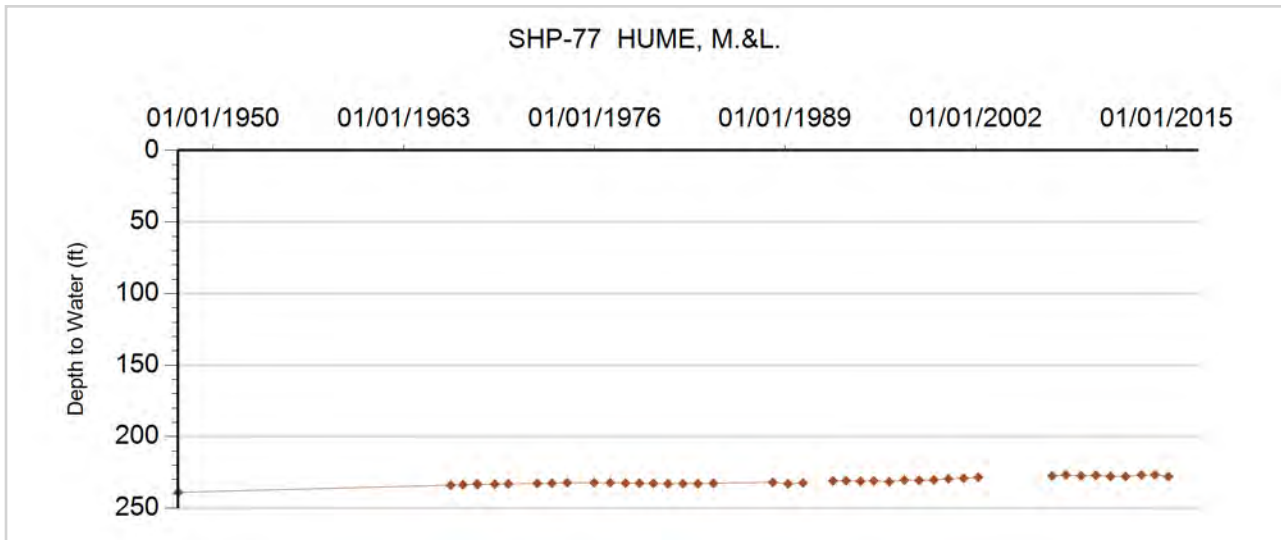
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2017 | | | |
| 03/07/2016 | | | |
| 02/17/2015 | 227.85 | 4047.11 | 1.26 |
| 03/25/2014 | 226.59 | 4048.37 | -0.21 |
| 04/21/2013 | 226.80 | 4048.16 | -1.00 |
| 03/19/2012 | 227.80 | 4047.16 | 0.10 |
| 03/13/2011 | 227.70 | 4047.26 | 0.70 |
| 03/12/2010 | 227.00 | 4047.96 | -0.50 |
| 03/09/2009 | 227.50 | 4047.46 | 0.80 |
| 02/24/2008 | 226.70 | 4048.26 | -0.80 |

Construction Information

Surface Elevation (ft): 4274.96
 Well Depth (ft): 250.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): OGALLALA

Well Measurement Summary

Start Date: 08/20/1947 End Date: 02/28/2017
 Number of Measurements: 48





GROUNDWATER DETAILS

Well Name: SHP-78 JOHNY REINER
Permit Number: 14185-FP
WDID:
Data Source: DWR

Location Number: SC03404609DA
USGS Site ID:
Applicant/Contact: JOHNY REINER

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | NE | SE | 9 | 34.0 S | 46.0 W | S | 713146.0 | 4108061.5 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

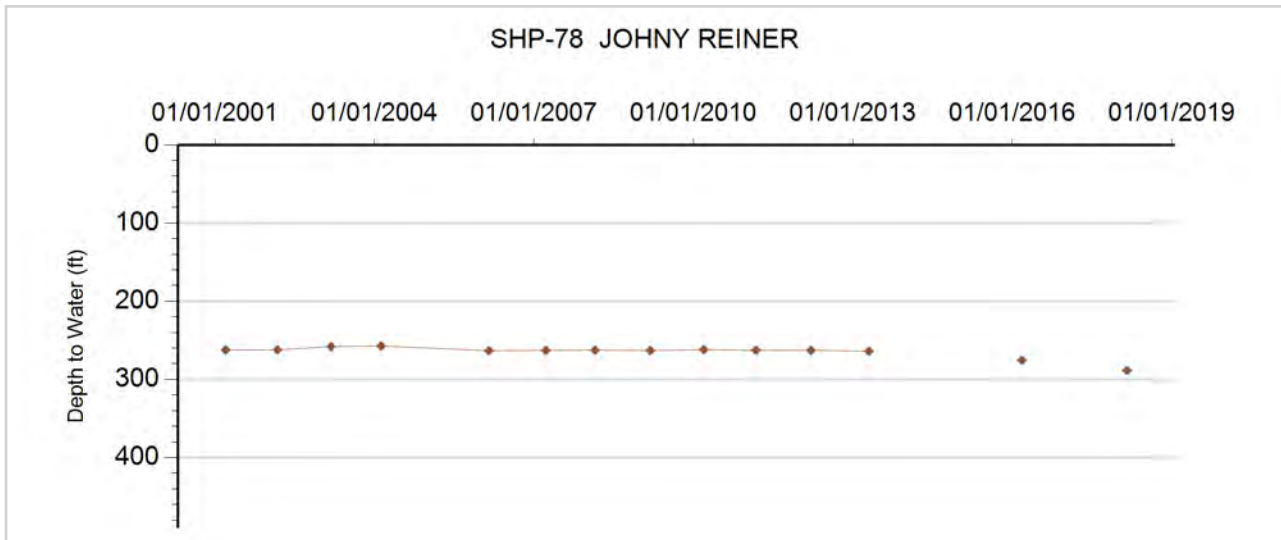
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/27/2018 | 288.67 | 4081.33 | |
| 02/28/2017 | | | |
| 03/07/2016 | 275.62 | 4094.38 | |
| 02/17/2015 | | | |
| 03/25/2014 | | | |
| 04/20/2013 | 264.00 | 4106.00 | 1.30 |
| 03/19/2012 | 262.70 | 4107.30 | 0.00 |
| 03/06/2011 | 262.70 | 4107.30 | 0.70 |
| 03/12/2010 | 262.00 | 4108.00 | -1.10 |
| 03/09/2009 | 263.10 | 4106.90 | 0.60 |

Construction Information

Surface Elevation (ft): 4370.00
 Well Depth (ft): 490.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DOCKUM

Well Measurement Summary

Start Date: 03/13/2001 End Date: 02/27/2018
 Number of Measurements: 17





GROUNDWATER DETAILS

Well Name: SHP-79 ROGERS,C.& V.
Permit Number: 49691-
WDID:
Data Source: DWR

Location Number: SC03404715CD
USGS Site ID:
Applicant/Contact: ROGERS,C.& V.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | SE | SW | 15 | 34.0 S | 47.0 W | S | 704691.7 | 4107414.4 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

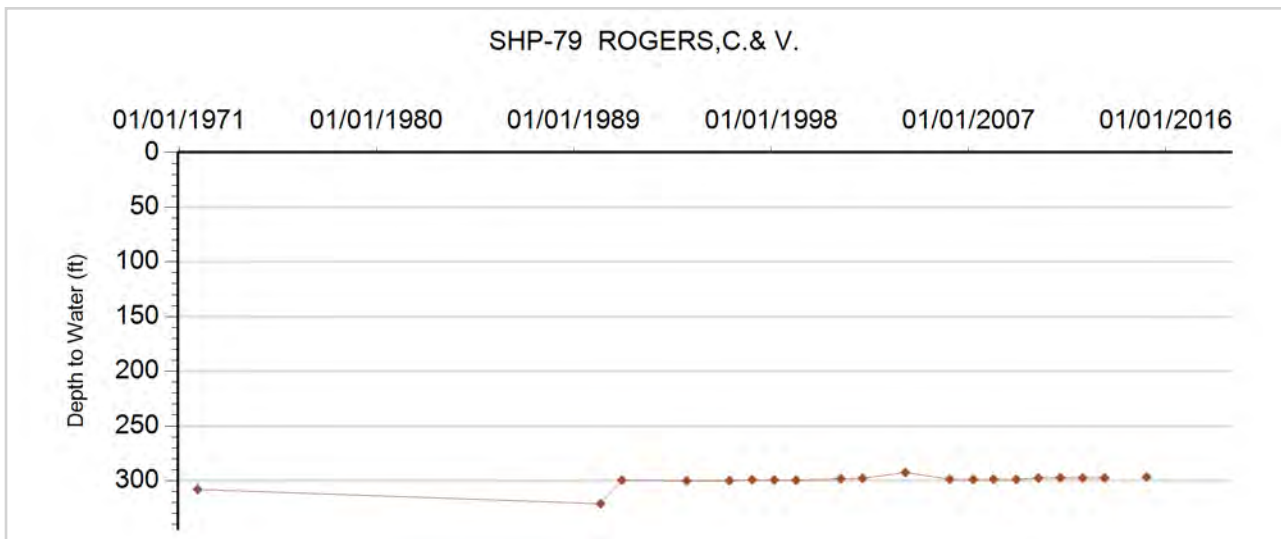
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/26/2018 | | | |
| 02/27/2017 | | | |
| 03/07/2016 | | | |
| 02/17/2015 | 296.62 | 4186.38 | |
| 03/25/2014 | | | |
| 03/19/2013 | 297.50 | 4185.50 | 0.00 |
| 03/19/2012 | 297.50 | 4185.50 | 0.20 |
| 03/13/2011 | 297.30 | 4185.70 | -0.20 |
| 03/12/2010 | 297.50 | 4185.50 | -1.30 |
| 03/09/2009 | 298.80 | 4184.20 | 0.20 |

Construction Information

Surface Elevation (ft): 4483.00
 Well Depth (ft): 345.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): CHEYENNE

Well Measurement Summary

Start Date: 11/03/1971 End Date: 02/26/2018
 Number of Measurements: 24





GROUNDWATER DETAILS

Well Name: SHP-80 US GOVERNMENT
Permit Number: 127340-
WDID:
Data Source: DWR

Location Number: SC03404808BCC
USGS Site ID: 370557102504800
Applicant/Contact: US GOVERNMENT

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | SW | SW | NW | 8 | 34.0 S | 48.0 W | S | 691190.0 | 4108015.0 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

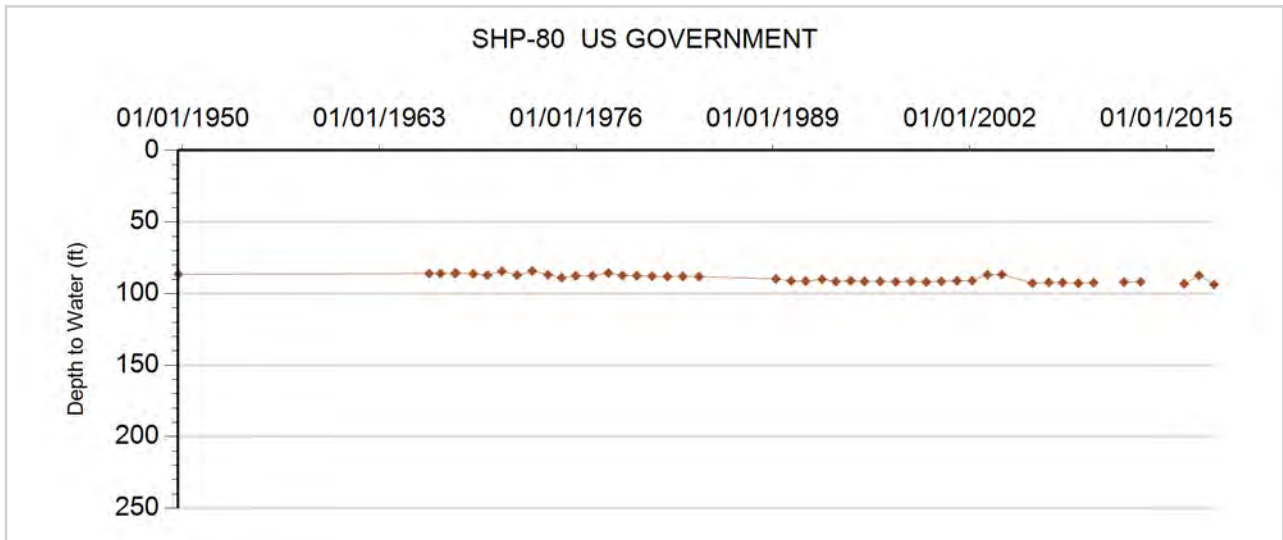
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/26/2018 | 93.73 | 4495.50 | 6.41 |
| 02/27/2017 | 87.32 | 4501.91 | -5.82 |
| 03/07/2016 | 93.14 | 4496.09 | |
| 02/17/2015 | | | |
| 03/25/2014 | | | |
| 04/20/2013 | 91.80 | 4497.43 | -0.20 |
| 03/15/2012 | 92.00 | 4497.23 | |
| 03/13/2011 | | | |
| 03/12/2010 | 92.40 | 4496.83 | -0.40 |
| 03/09/2009 | 92.80 | 4496.43 | 0.50 |

Construction Information

Surface Elevation (ft): 4589.23
 Well Depth (ft): 250.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): OGALLALA

Well Measurement Summary

Start Date: 09/20/1949 End Date: 02/26/2018
 Number of Measurements: 50





GROUNDWATER DETAILS

Well Name: SHP-81 USDA FOREST SERV.
Permit Number: 127294--A
WDID:
Data Source: DWR

Location Number: SC03404826DDC
USGS Site ID: 370243102465000
Applicant/Contact: USDA FOREST SERV.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | SW | SE | SE | 26 | 34.0 S | 48.0 W | S | 697228.0 | 4102692.0 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

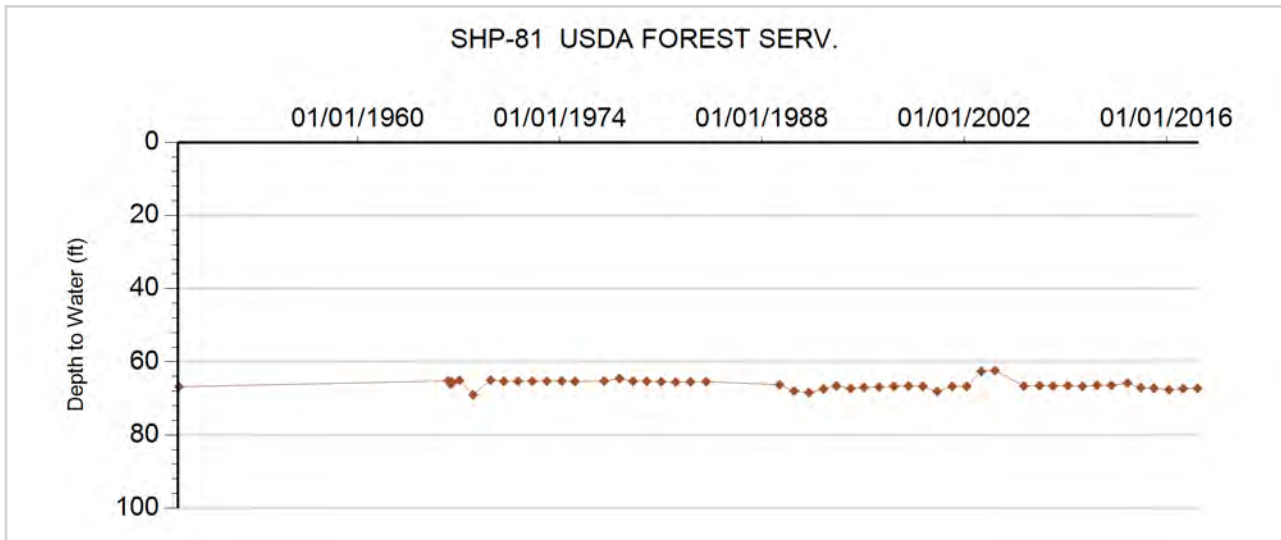
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/26/2018 | 67.24 | 4464.91 | -0.07 |
| 02/27/2017 | 67.31 | 4464.84 | -0.32 |
| 03/07/2016 | 67.63 | 4464.52 | 0.42 |
| 02/17/2015 | 67.21 | 4464.94 | 0.12 |
| 03/25/2014 | 67.09 | 4465.06 | 1.29 |
| 04/21/2013 | 65.80 | 4466.35 | -0.60 |
| 03/15/2012 | 66.40 | 4465.75 | 0.00 |
| 03/13/2011 | 66.40 | 4465.75 | -0.30 |
| 03/12/2010 | 66.70 | 4465.45 | 0.20 |
| 03/09/2009 | 66.50 | 4465.65 | -0.10 |

Construction Information

Surface Elevation (ft): 4532.15
 Well Depth (ft): 100.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft): 80
 Depth to Bottom of Perforated Casing (ft): 100
 Source Aquifer(s): DAKOTA

Well Measurement Summary

Start Date: 08/20/1947 End Date: 02/26/2018
 Number of Measurements: 50





GROUNDWATER DETAILS

Well Name: SHP-82 KIM SWEARINGEN
Permit Number: 49633-FP
WDID:
Data Source: DWR

Location Number: SC03504104DD
USGS Site ID:
Applicant/Contact: KIM SWEARINGEN

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | SE | SE | 4 | 35.0 S | 41.0 W | S | 762030.5 | 4100991.3 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

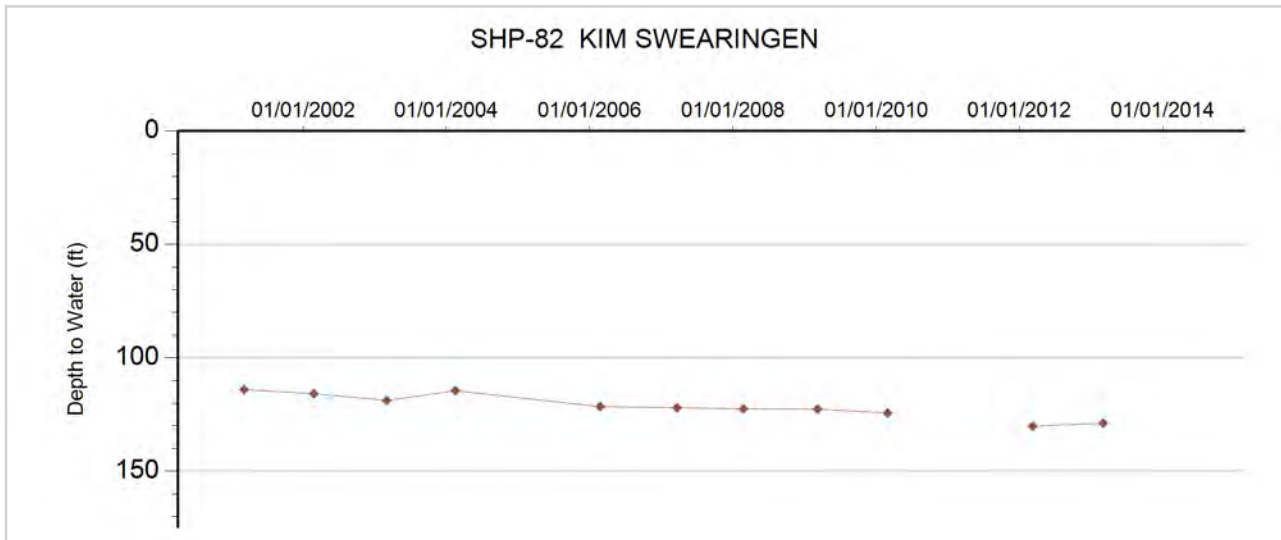
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 03/25/2014 | | | |
| 03/03/2013 | 128.80 | 3461.20 | -1.30 |
| 03/09/2012 | 130.10 | 3459.90 | |
| 03/06/2011 | | | |
| 02/27/2010 | 124.30 | 3465.70 | 1.70 |
| 03/08/2009 | 122.60 | 3467.40 | 0.10 |
| 02/23/2008 | 122.50 | 3467.50 | 0.50 |
| 03/22/2007 | 122.00 | 3468.00 | 0.50 |
| 02/23/2006 | 121.50 | 3468.50 | 7.00 |
| 02/16/2004 | 114.50 | 3475.50 | -4.30 |

Construction Information

Surface Elevation (ft): 3590.00
 Well Depth (ft): 175.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft): 110
 Depth to Bottom of Perforated Casing (ft): 175
 Source Aquifer(s): DOCKUM

Well Measurement Summary

Start Date: 03/06/2001 End Date: 03/25/2014
 Number of Measurements: 13





GROUNDWATER DETAILS

Well Name: SHP-83 RAY GLOVER
Permit Number: 5333-F
WDID:
Data Source: DWR

Location Number: SC03504306CD
USGS Site ID:
Applicant/Contact: RAY GLOVER

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | SE | SW | 6 | 35.0 S | 43.0 W | S | 738380.2 | 4100408.3 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

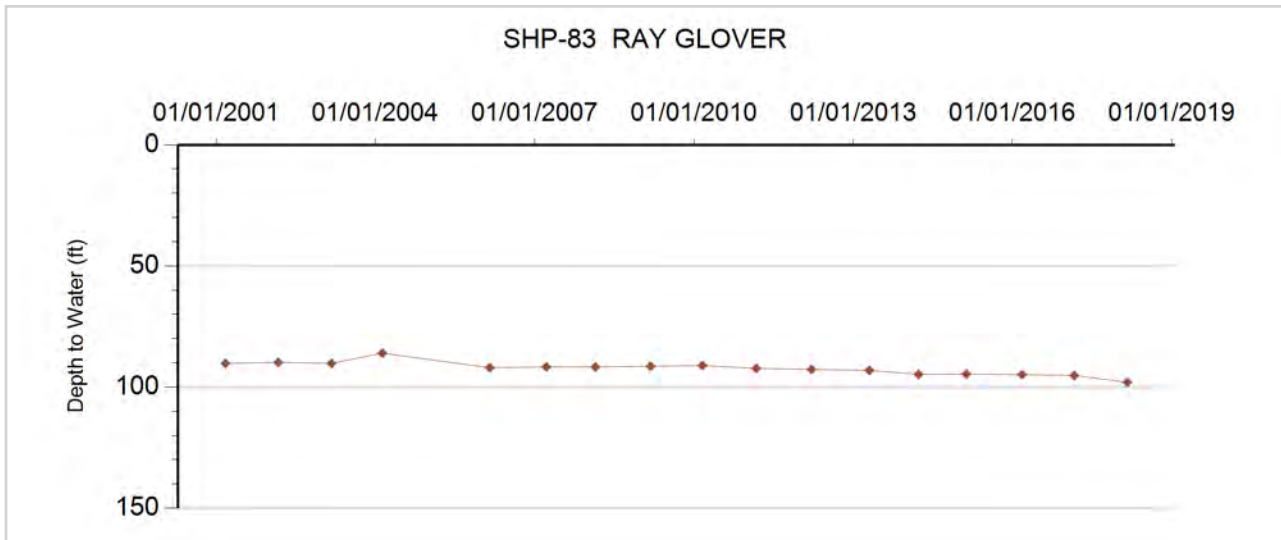
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/28/2018 | 98.02 | 3781.98 | 2.81 |
| 02/28/2017 | 95.21 | 3784.79 | 0.36 |
| 03/07/2016 | 94.85 | 3785.15 | 0.23 |
| 02/17/2015 | 94.62 | 3785.38 | -0.12 |
| 03/26/2014 | 94.74 | 3785.26 | 1.64 |
| 04/20/2013 | 93.10 | 3786.90 | 0.40 |
| 03/19/2012 | 92.70 | 3787.30 | 0.40 |
| 03/06/2011 | 92.30 | 3787.70 | 1.20 |
| 02/27/2010 | 91.10 | 3788.90 | -0.30 |
| 03/09/2009 | 91.40 | 3788.60 | -0.30 |

Construction Information

Surface Elevation (ft): 3880.00
 Well Depth (ft): 150.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DOCKUM

Well Measurement Summary

Start Date: 03/06/2001 End Date: 02/28/2018
 Number of Measurements: 17





GROUNDWATER DETAILS

Well Name: SHP-84 HALLENBACK, G.&M.
Permit Number: 127551-
WDID:
Data Source: DWR

Location Number: SC03504510BB
USGS Site ID: 370053102290700
Applicant/Contact: HALLENBACK, G.&M.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | NW | NW | 10 | 35.0 S | 45.0 W | S | 723546.0 | 4099464.0 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

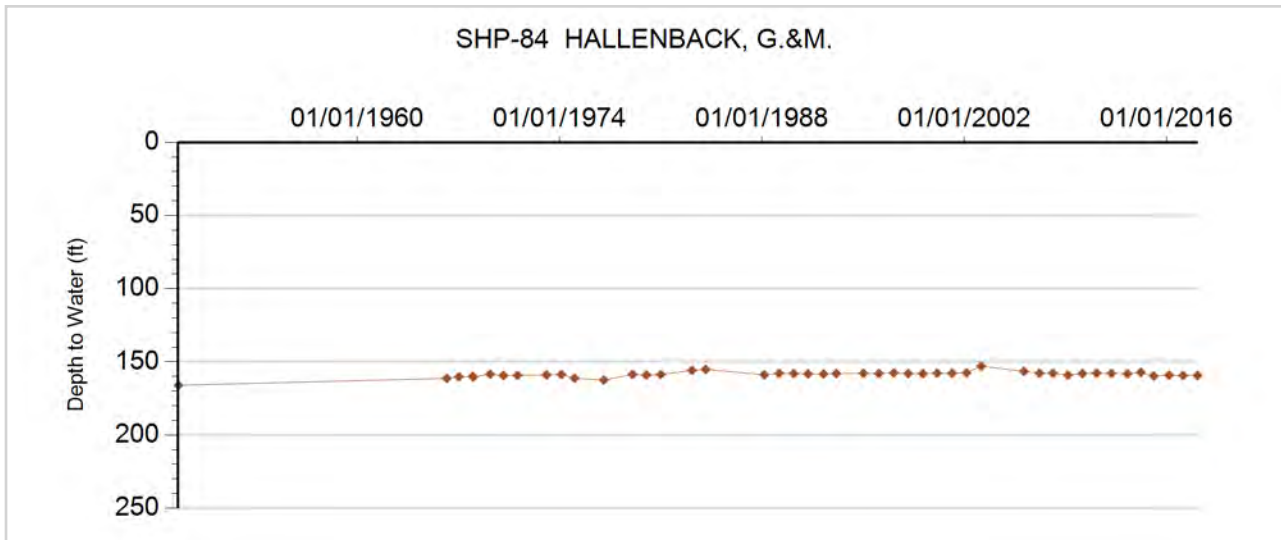
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/27/2018 | 159.28 | 3945.62 | -0.01 |
| 02/28/2017 | 159.29 | 3945.61 | 0.20 |
| 03/07/2016 | 159.09 | 3945.81 | -0.54 |
| 02/17/2015 | 159.63 | 3945.27 | 2.47 |
| 03/26/2014 | 157.16 | 3947.74 | -1.04 |
| 04/20/2013 | 158.20 | 3946.70 | 0.30 |
| 03/19/2012 | 157.90 | 3947.00 | 0.10 |
| 03/06/2011 | 157.80 | 3947.10 | -0.20 |
| 03/12/2010 | 158.00 | 3946.90 | -1.00 |
| 03/09/2009 | 159.00 | 3945.90 | 1.20 |

Construction Information

Surface Elevation (ft): 4104.90
 Well Depth (ft): 250.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DAKOTA

Well Measurement Summary

Start Date: 08/20/1947 End Date: 02/27/2018
 Number of Measurements: 45





GROUNDWATER DETAILS

Well Name: SHP-85 DIXON, WM.J.
Permit Number: 10763-
WDID:
Data Source: DWR

Location Number: SC03504603DC
USGS Site ID:
Applicant/Contact: DIXON, WM.J.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | SW | SE | 3 | 35.0 S | 46.0 W | S | 714887.8 | 4099828.3 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

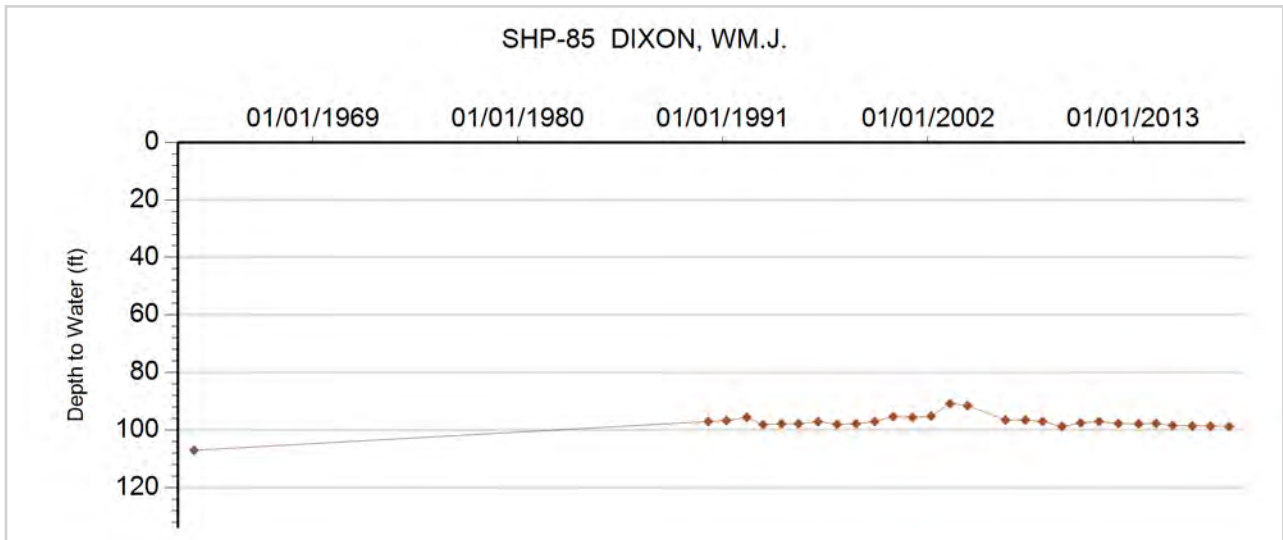
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/27/2018 | 98.75 | 4096.25 | 0.13 |
| 02/28/2017 | 98.62 | 4096.38 | 0.09 |
| 03/07/2016 | 98.53 | 4096.47 | 0.15 |
| 02/17/2015 | 98.38 | 4096.62 | 0.70 |
| 03/26/2014 | 97.68 | 4097.32 | -0.12 |
| 04/20/2013 | 97.80 | 4097.20 | 0.10 |
| 03/19/2012 | 97.70 | 4097.30 | 0.70 |
| 03/06/2011 | 97.00 | 4098.00 | -0.50 |
| 03/12/2010 | 97.50 | 4097.50 | -1.20 |
| 03/09/2009 | 98.70 | 4096.30 | 1.70 |

Construction Information

Surface Elevation (ft): 4195.00
 Well Depth (ft): 134.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): CHEYENNE

Well Measurement Summary

Start Date: 08/22/1962 End Date: 02/27/2018
 Number of Measurements: 29





GROUNDWATER DETAILS

Well Name: SHP-86 WELBORN,J.M. 1
Permit Number: 5650-F
WDID:
Data Source: DWR

Location Number: SC03505003AAC
USGS Site ID:
Applicant/Contact: WELBORN,J.M.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | SW | NE | NE | 3 | 35.0 S | 50.0 W | S | 676514.3 | 4099998.4 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

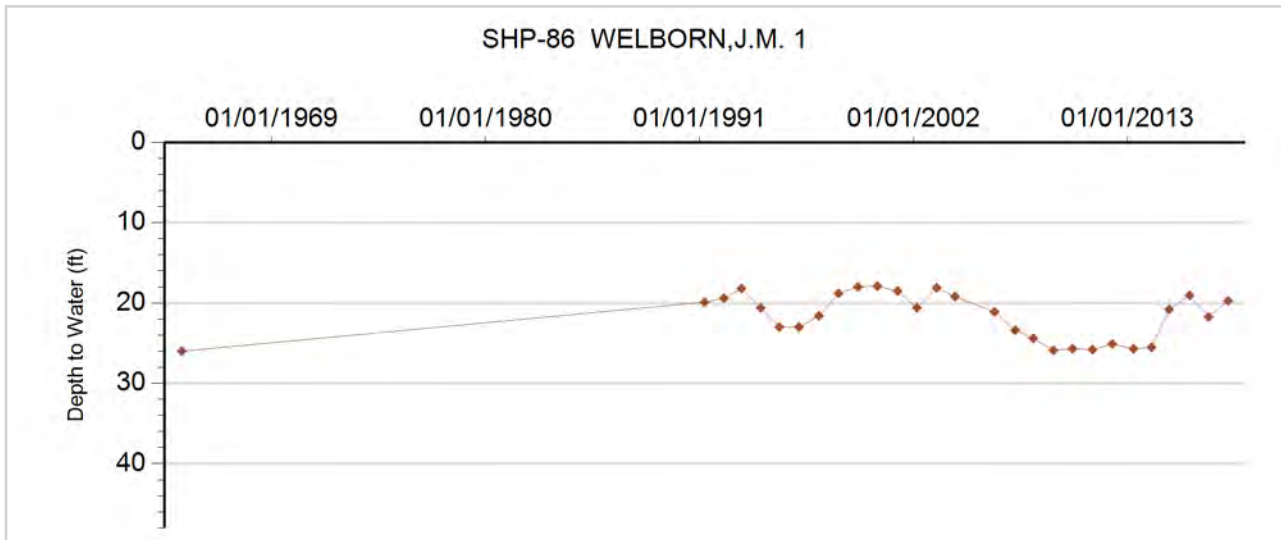
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/26/2018 | 19.73 | 4450.27 | -2.00 |
| 02/27/2017 | 21.73 | 4448.27 | 2.68 |
| 03/07/2016 | 19.05 | 4450.95 | -1.73 |
| 02/17/2015 | 20.78 | 4449.22 | -4.73 |
| 03/26/2014 | 25.51 | 4444.49 | -0.19 |
| 04/20/2013 | 25.70 | 4444.30 | 0.60 |
| 03/15/2012 | 25.10 | 4444.90 | -0.70 |
| 03/13/2011 | 25.80 | 4444.20 | 0.10 |
| 03/03/2010 | 25.70 | 4444.30 | -0.20 |
| 03/09/2009 | 25.90 | 4444.10 | 1.50 |

Construction Information

Surface Elevation (ft): 4470.00
 Well Depth (ft): 48.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): QUATERNARY ALLUVIUM, DOCKUM

Well Measurement Summary

Start Date: 05/23/1964 End Date: 02/26/2018
 Number of Measurements: 28





GROUNDWATER DETAILS

Well Name: SHP-87 WELBORN,J.M. 2
Permit Number: 3220-F
WDID:
Data Source: DWR

Location Number: SC03505012BBA
USGS Site ID:
Applicant/Contact: WELBORN,J.M.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | NE | NW | NW | 12 | 35.0 S | 50.0 W | S | 678735.3 | 4098722.4 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

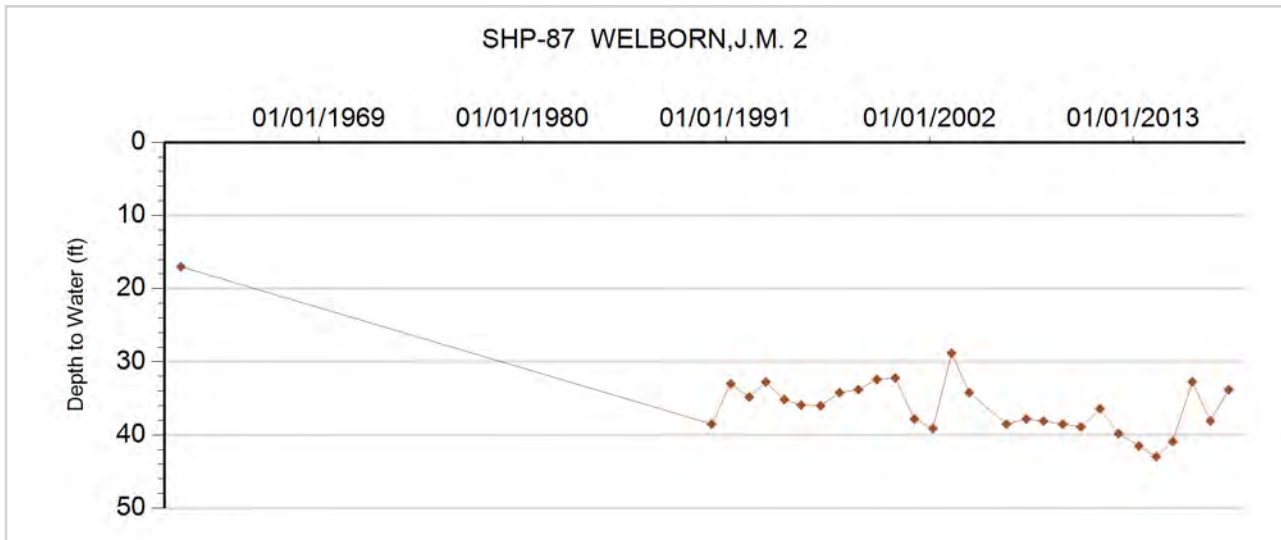
| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/26/2018 | 33.81 | 4377.19 | -4.27 |
| 02/27/2017 | 38.08 | 4372.92 | 5.35 |
| 03/07/2016 | 32.73 | 4378.27 | -8.16 |
| 02/17/2015 | 40.89 | 4370.11 | -2.06 |
| 03/26/2014 | 42.95 | 4368.05 | 1.45 |
| 04/20/2013 | 41.50 | 4369.50 | 1.70 |
| 03/15/2012 | 39.80 | 4371.20 | 3.40 |
| 03/13/2011 | 36.40 | 4374.60 | -2.50 |
| 03/03/2010 | 38.90 | 4372.10 | 0.40 |
| 03/09/2009 | 38.50 | 4372.50 | 0.40 |

Construction Information

Surface Elevation (ft): 4411.00
 Well Depth (ft): 50.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DOCKUM

Well Measurement Summary

Start Date: 07/23/1961 End Date: 02/26/2018
 Number of Measurements: 29





GROUNDWATER DETAILS

Well Name: SHP-88 WELBORN,J.M. 3
Permit Number: 3221-F
WDID:
Data Source: DWR

Location Number: SC03505012BB
USGS Site ID:
Applicant/Contact: WELBORN,J.M.

Physical Location

| | | | | | | | | | | | |
|----------|----------|-----|-----|------|-----|----------|--------|----|----------|-----------|-------------------|
| Dist N/S | Dist E/W | Q10 | Q40 | Q160 | Sec | Township | Range | PM | UTMx | UTMy | Location Accuracy |
| | | | NW | NW | 12 | 35.0 S | 50.0 W | S | 678711.3 | 4098663.4 | GPS |

Division: 2 District: 66
 County: BACA
 Designated Basin: SOUTHERN HIGH PLAINS
 Management District:

Time Series Data - Ten Most Recent Reportings

| Date | Depth to Water Feet Below Land Surface | Elevation of Water (ft) | Change From Previous Measure (ft) |
|------------|--|-------------------------|-----------------------------------|
| 02/26/2018 | 31.49 | 4378.51 | -4.52 |
| 02/27/2017 | 36.01 | 4373.99 | 5.69 |
| 03/07/2016 | 30.32 | 4379.68 | -6.04 |
| 02/17/2015 | 36.36 | 4373.64 | -5.43 |
| 03/26/2014 | 41.79 | 4368.21 | 3.79 |
| 04/20/2013 | 38.00 | 4372.00 | 1.70 |
| 03/15/2012 | 36.30 | 4373.70 | 2.80 |
| 03/13/2011 | 33.50 | 4376.50 | -2.50 |
| 03/03/2010 | 36.00 | 4374.00 | 1.00 |
| 03/09/2009 | 35.00 | 4375.00 | 0.40 |

Construction Information

Surface Elevation (ft): 4410.00
 Well Depth (ft): 82.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft):
 Depth to Bottom of Perforated Casing (ft):
 Source Aquifer(s): DOCKUM

Well Measurement Summary

Start Date: 07/12/1961 End Date: 02/26/2018
 Number of Measurements: 29

