

# Groundwater Levels in the Southern High Plains Designated Groundwater Basin

2019

by

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Hydrogeology Section

May 16, 2019



**COLORADO**

**Division of Water Resources**

Department of Natural Resources

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## Groundwater Level Measurements in the Southern High Plains Designated Groundwater Basin 2019

This report contains the basic groundwater-level data collected from wells in the Southern High Plains Designated Groundwater 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 Groundwater 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 Groundwater Basin so that all of the aquifers identified above can be administered as a single geo-hydraulic system.

A total of 66 well water levels were measured and recorded during late February and early March 2019. Water levels were not measured in 23 wells that were pumping or where access was restricted, primarily due to snow/mud. Figure 2 shows the location and designation of all 89 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	2019 Water Level Range (ft below ground)	Avg. Water Level Change 2018-2019 (ft)	Avg. Water Level Change 2014-2019 (ft)	Avg. Water Level Change 2009-2019 (ft)
Ogallala	94 to 251	-2.3	-9.1	-13.3
Dakota/Cheyenne	58 to 313	-0.7	-4.5	-9.2
Dockum	35 to 299	-2.0	0.9	-9.9

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>

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

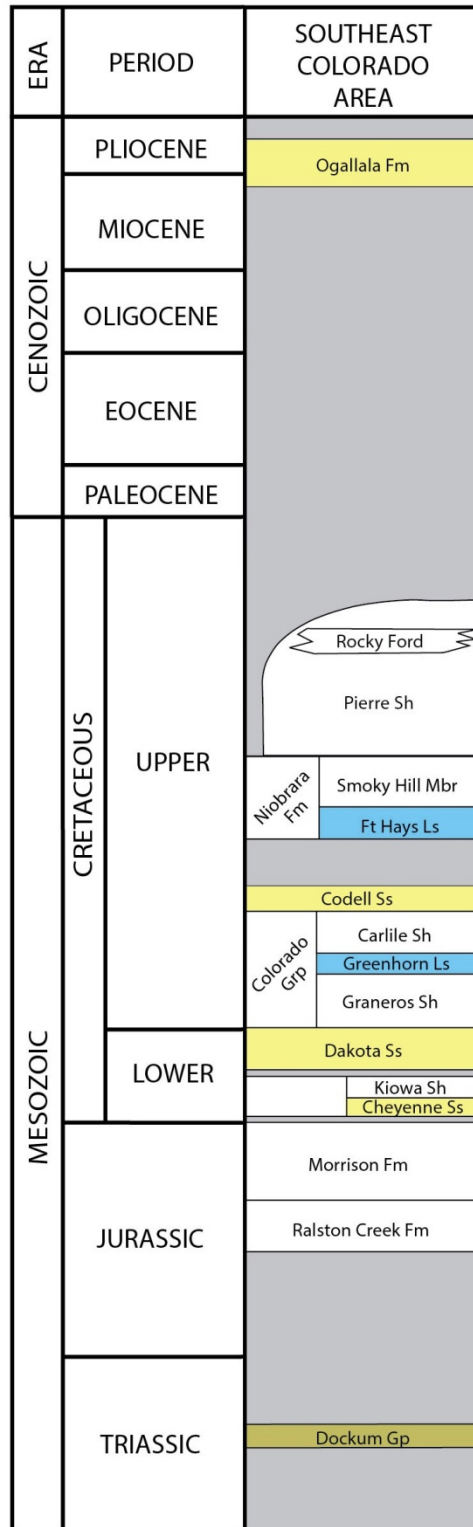


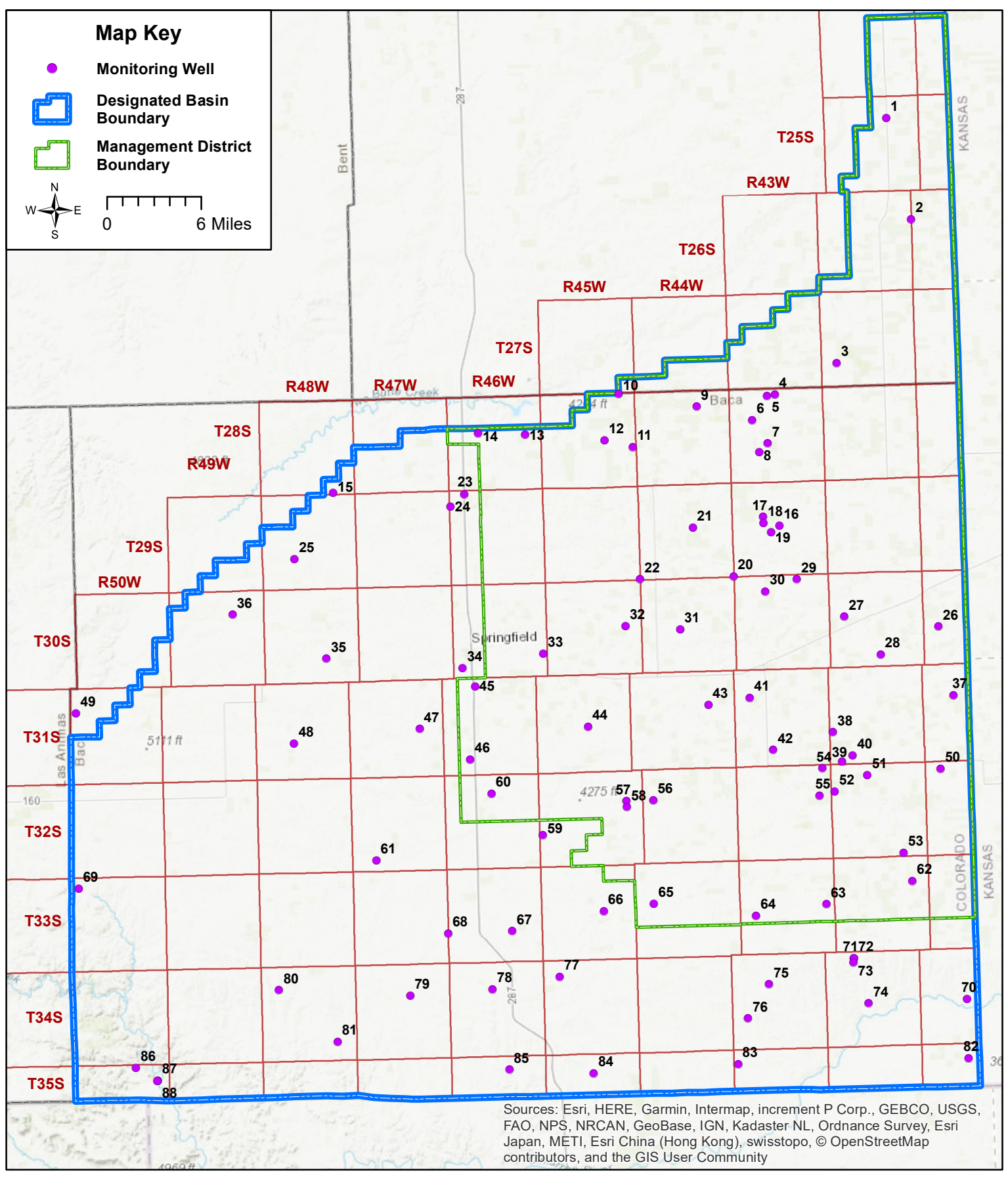
Figure 1 - Bedrock Aquifers of Southeast Colorado  
(yellow - sandstone dominated; blue-limestone dominated)

### Map Key

- Monitoring Well
- Designated Basin Boundary
- Management District Boundary



0 6 Miles

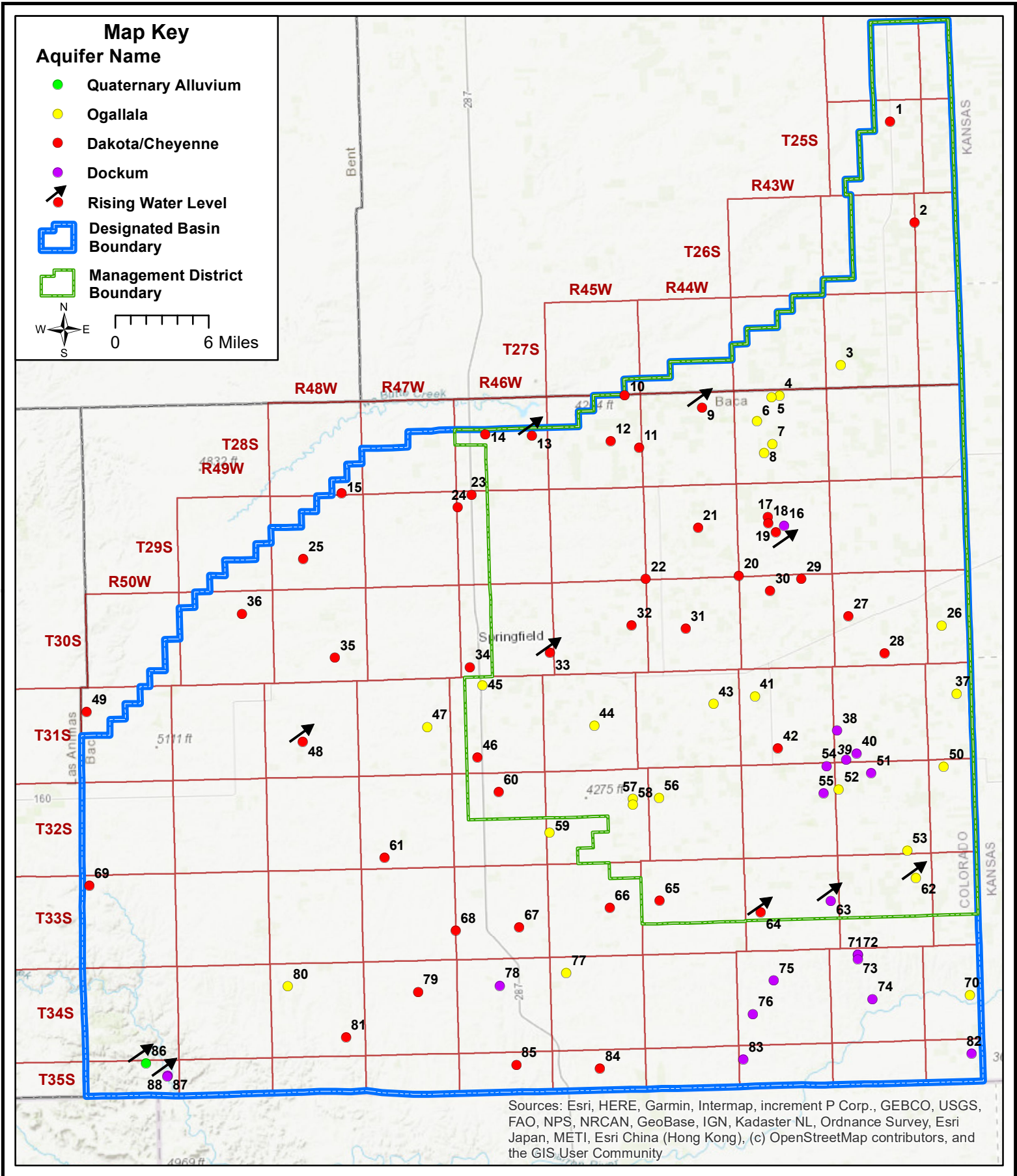


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community



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## Southern High Plains Designated Basin Monitoring Well Locations Figure 2



### Map Key

#### Groundwater Level Change

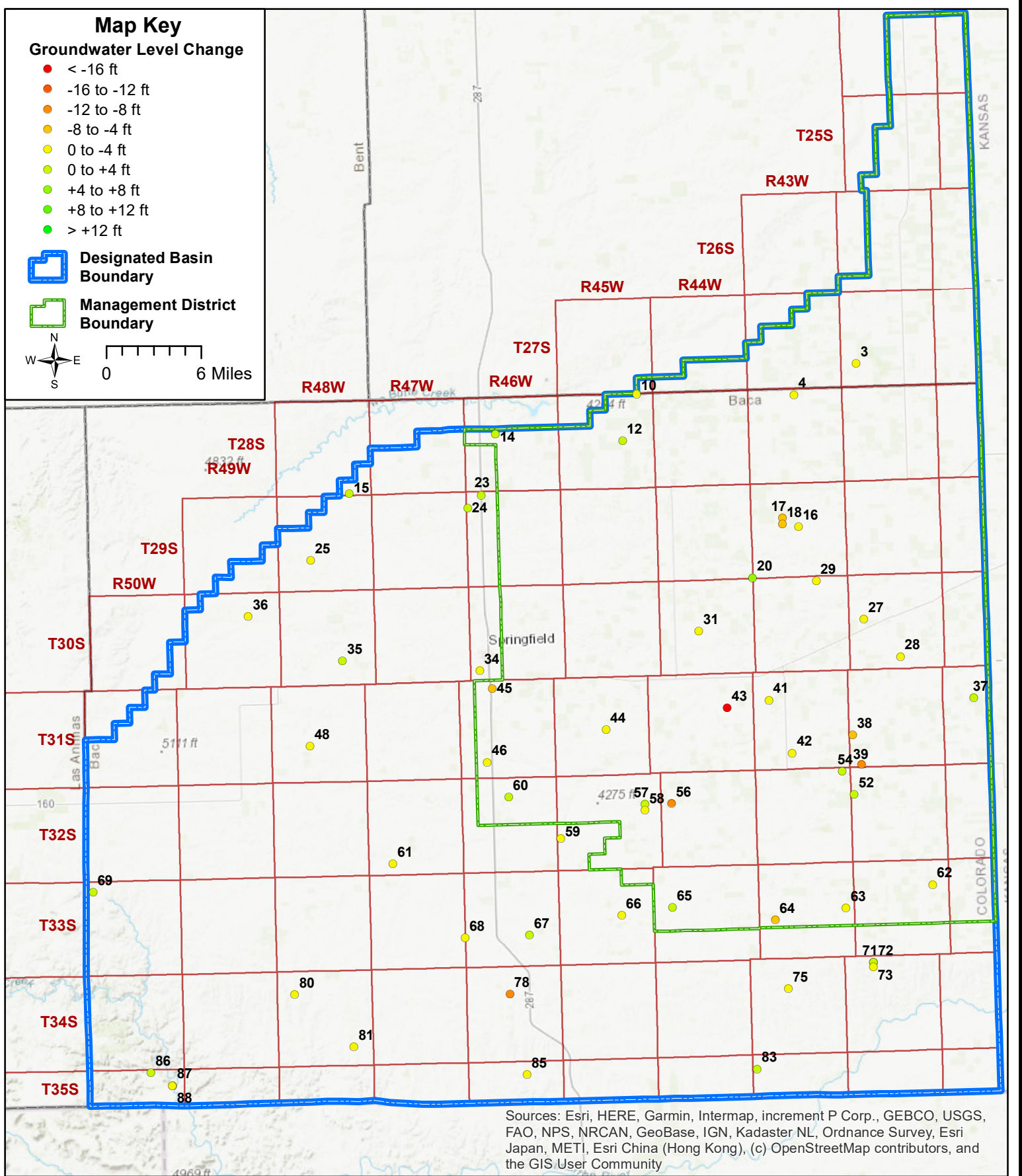
- < -16 ft
- -16 to -12 ft
- -12 to -8 ft
- -8 to -4 ft
- 0 to -4 ft
- 0 to +4 ft
- +4 to +8 ft
- +8 to +12 ft
- > +12 ft

 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), (c) OpenStreetMap contributors, and the GIS User Community



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## Southern High Plains Designated Basin Water Level Trends 2018-2019

### Figure 4

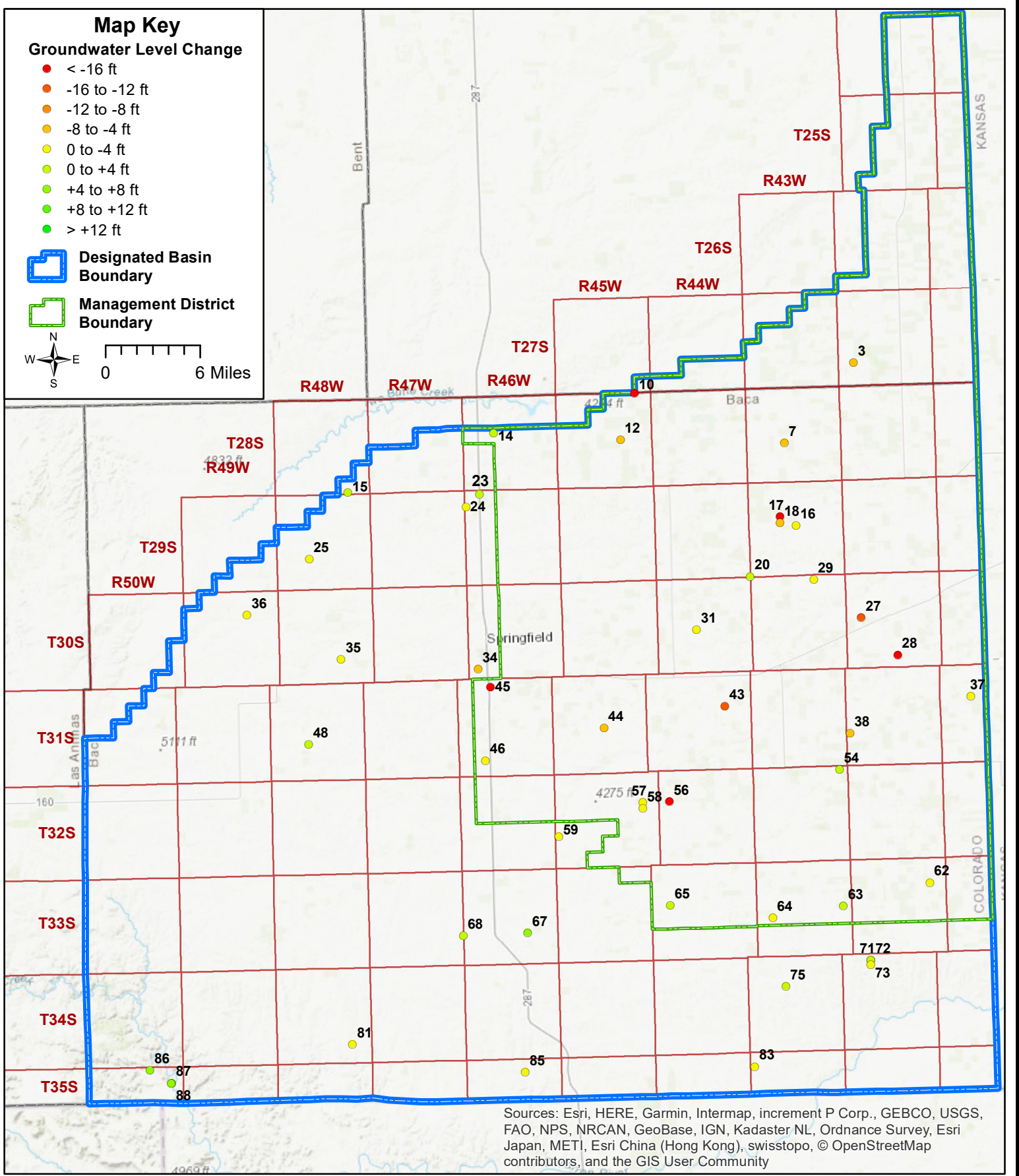
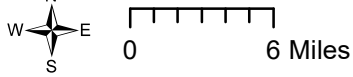
### Map Key

#### 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



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 2014-2019

Figure 5



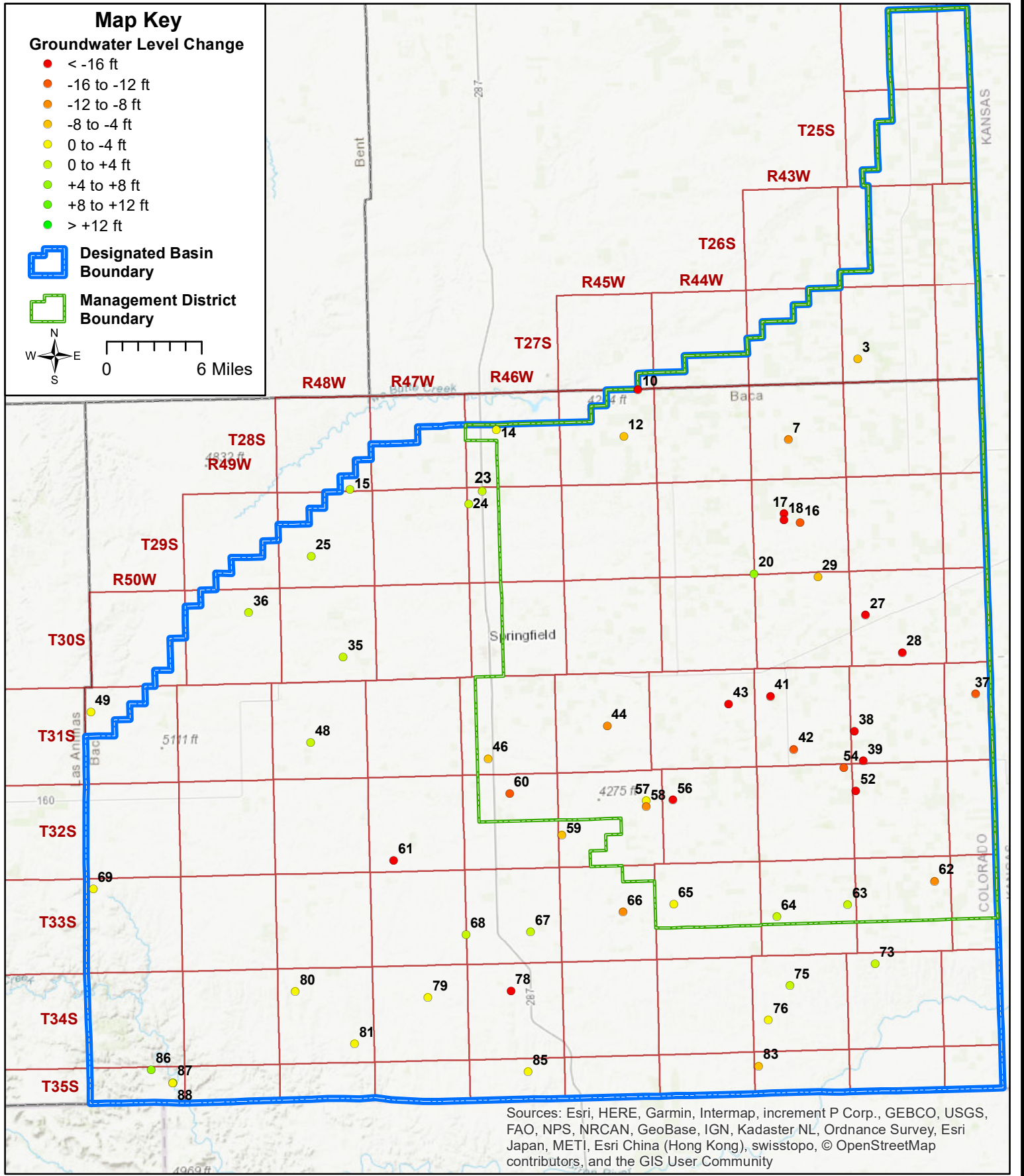
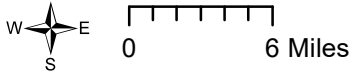
### Map Key

#### 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



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 2009-2019

### Figure 6



**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
3136 S	89 W		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:    SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

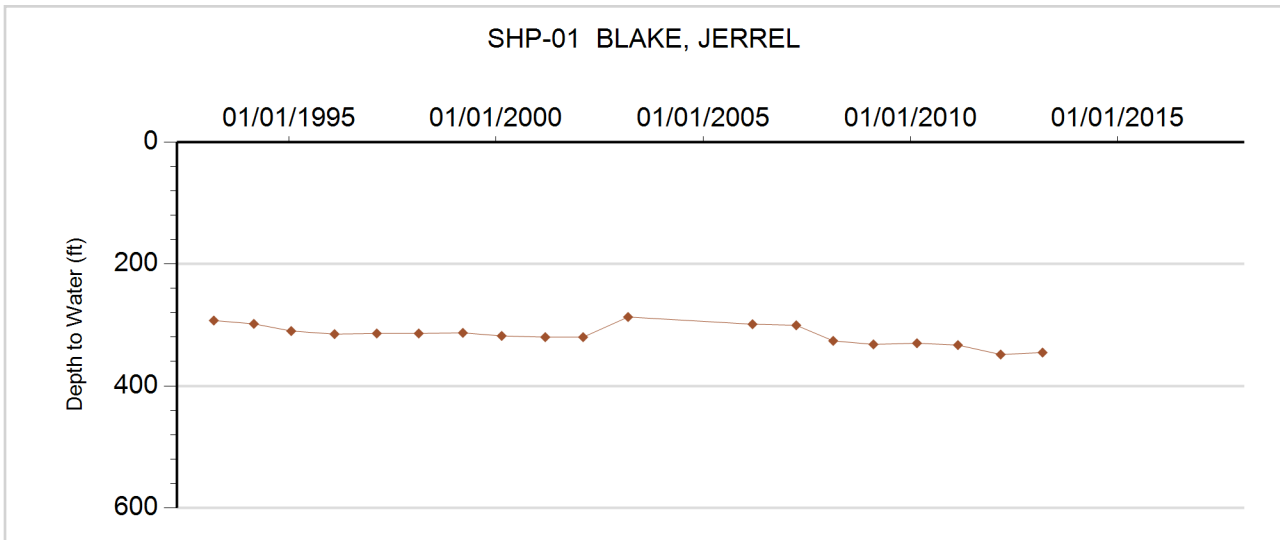
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
03/02/2017			
03/10/2016			
02/20/2015			
03/18/2014			
03/10/2013	345.30	3313.70	3.20
03/06/2012	348.50	3310.50	-15.50
02/23/2011	333.00	3326.00	-3.00
02/27/2010	330.00	3329.00	1.90
02/09/2009	331.90	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-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
2732 N	88 W	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:    SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

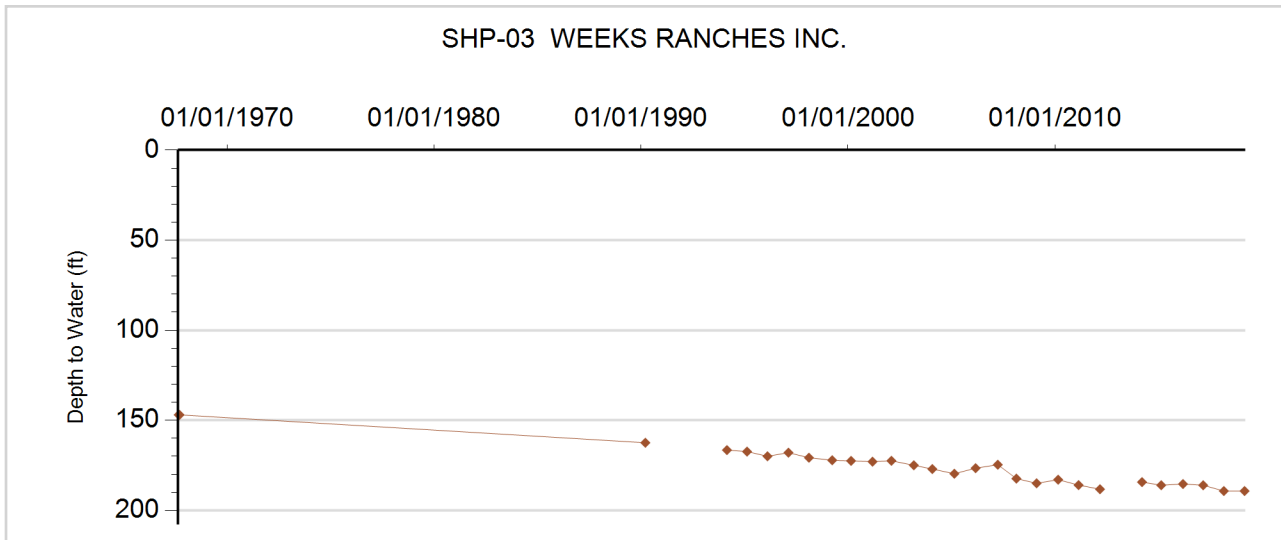
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
03/01/2019	189.30	3637.78	0.00
03/01/2018	189.30	3637.78	-3.20
03/02/2017	186.10	3640.98	-0.69
03/10/2016	185.41	3641.67	0.67
02/20/2015	186.08	3641.00	-1.75
03/18/2014	184.33	3642.75	
03/10/2013			
03/06/2012	188.30	3638.78	-2.30
02/23/2011	186.00	3641.08	-3.00
02/27/2010	183.00	3644.08	2.00

**Construction Information**

Surface Elevation (ft):                      3827.08  
 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: 03/01/2019  
 Number of Measurements: 30





**GROUNDWATER DETAILS**

**Well Name:** SHP-04 NUSSER,D.

**Permit Number:** 21218-FP-R

**WDID:**

**Data Source:** DWR

**Location Number:** SC02804304ADD1

**USGS Site ID:** 373816102152002

**Applicant/Contact:** NUSSER,D.

**Physical Location**

Dist N/S	Dist E/W	Q10	Q40	Q160	Sec	Township	Range	PM	UTMx	UTMy	Location Accuracy
3157 S	51 E	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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/28/2019	236.83	3682.82	-0.82
03/01/2018	236.01	3683.64	0.13
03/02/2017	236.14	3683.51	

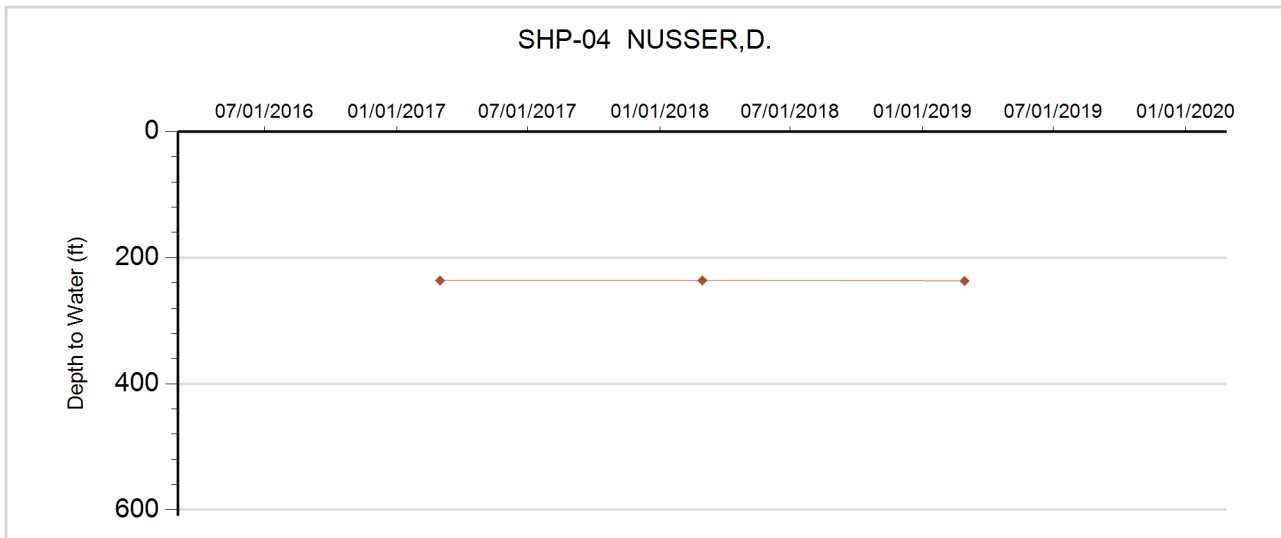
**Construction Information**

Surface Elevation (ft): 3919.65  
 Well Depth (ft): 610.00  
 Depth to Base of Grout (ft):  
 Depth to Top of Perforated Casing (ft): 240  
 Depth to Bottom of Perforated Casing (ft): 600  
 Source Aquifer(s): OGALLALA

**Well Measurement Summary**

Start Date: 03/02/2017    End Date: 02/28/2019

Number of Measurements: 3





**GROUNDWATER DETAILS**

**Well Name:** SHP-04 (1976-2016)  
**Permit Number:** 21218-FP  
**WDID:**  
**Data Source:** DWR

**Location Number:** SC02804304ADD  
**USGS Site ID:** 373816102452001  
**Applicant/Contact:**

**Physical Location**

Dist N/S	Dist E/W	Q10	Q40	Q160	Sec	Township	Range	PM	UTMx	UTMy	Location Accuracy
3157 S	51 E	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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

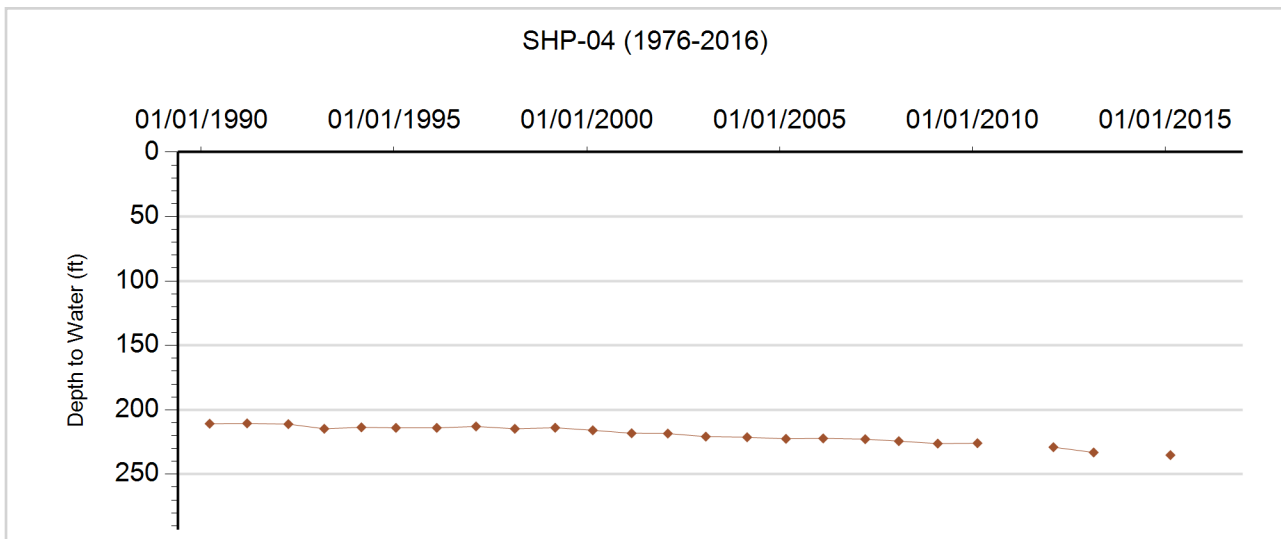
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
03/09/2016			
02/20/2015	235.14	3684.56	
03/18/2014			
02/23/2013	233.10	3686.60	-4.10
02/08/2012	229.00	3690.70	
04/13/2011			
02/18/2010	225.90	3693.80	0.30
02/07/2009	226.20	3693.50	-1.90
02/04/2008	224.30	3695.40	-1.50
03/23/2007	222.80	3696.90	-0.60

**Construction Information**

Surface Elevation (ft): 3919.70  
 Well Depth (ft): 293.00  
 Depth to Base of Grout (ft):  
 Depth to Top of Perforated Casing (ft): 233  
 Depth to Bottom of Perforated Casing (ft): 293  
 Source Aquifer(s):

**Well Measurement Summary**

Start Date: 03/21/1990    End Date: 03/09/2016  
 Number of Measurements: 27





**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
2651 N	2643 E		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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

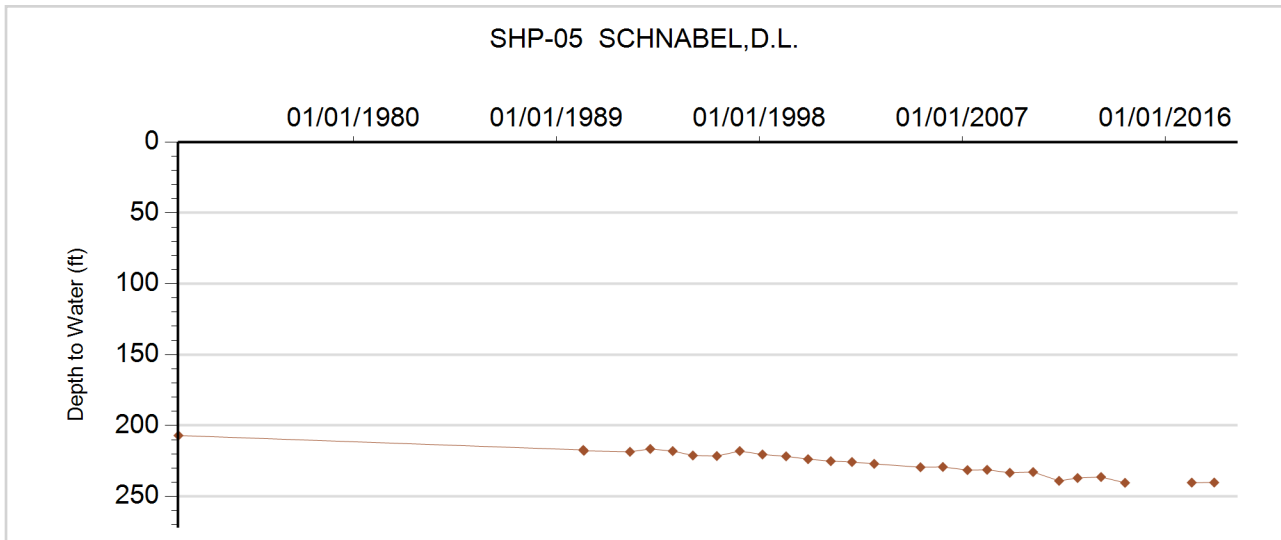
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/28/2019			
03/01/2018	240.19	3708.88	0.06
03/02/2017	240.25	3708.82	
03/09/2016			
02/20/2015			
03/18/2014	240.39	3708.68	-4.09
02/23/2013	236.30	3712.77	0.70
02/08/2012	237.00	3712.07	2.00
04/14/2011	239.00	3710.07	-6.20
02/18/2010	232.80	3716.27	0.50

**Construction Information**

Surface Elevation (ft): 3949.07  
 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: 02/28/2019  
 Number of Measurements: 30





**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
77 S	2702 E		SE	SW	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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

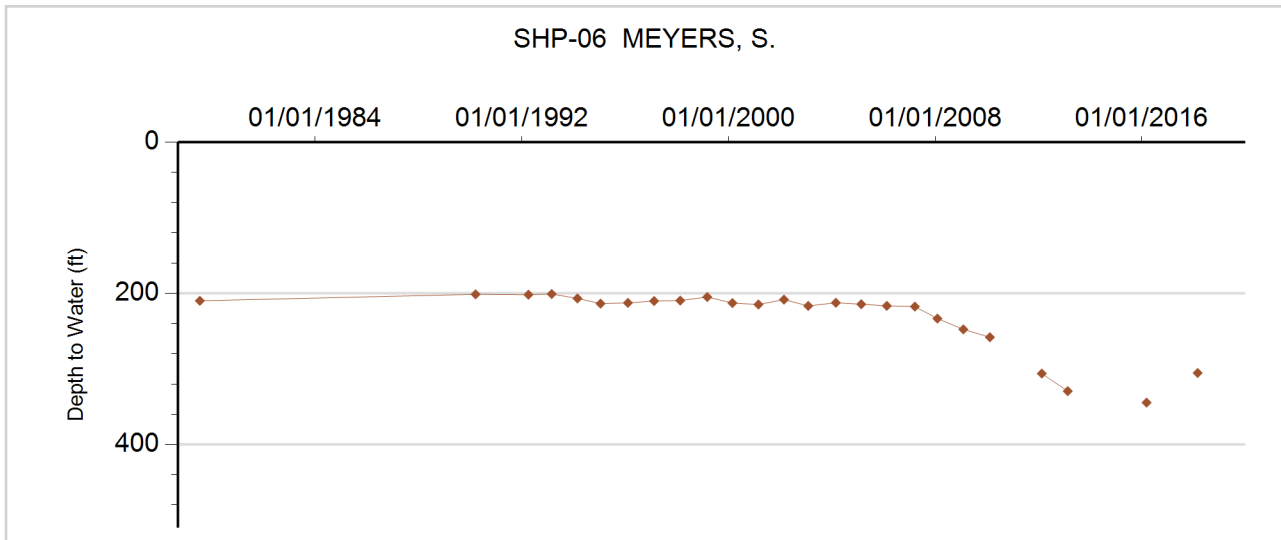
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/28/2019			
03/01/2018	305.45	3659.32	
03/02/2017			
03/09/2016	344.66	3620.11	
02/20/2015			
03/03/2014			
02/18/2013	329.50	3635.27	-23.30
02/18/2012	306.20	3658.57	
04/13/2011			
02/14/2010	258.20	3706.57	-10.40

**Construction Information**

Surface Elevation (ft): 3964.77  
 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: 02/28/2019  
 Number of Measurements: 30







**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
2777 S	2986 E	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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

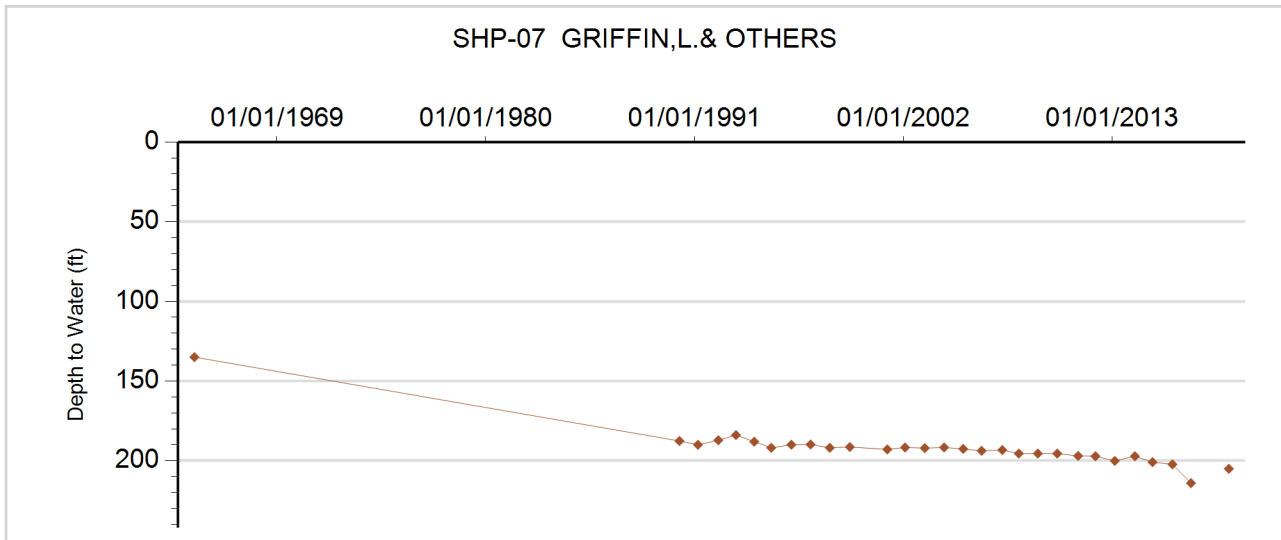
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/28/2019	205.08	3756.57	
03/01/2018			
03/02/2017	214.08	3747.57	-11.81
03/09/2016	202.27	3759.38	-1.39
02/20/2015	200.88	3760.77	-3.69
03/18/2014	197.19	3764.46	2.91
02/24/2013	200.10	3761.55	-2.90
02/18/2012	197.20	3764.45	-0.20
03/22/2011	197.00	3764.65	-1.50
02/14/2010	195.50	3766.15	0.00

**Construction Information**

Surface Elevation (ft): 3961.65  
 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

**Well Measurement Summary**

Start Date: 08/29/1964    End Date: 02/28/2019  
 Number of Measurements: 30





**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
149 N	546 E	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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

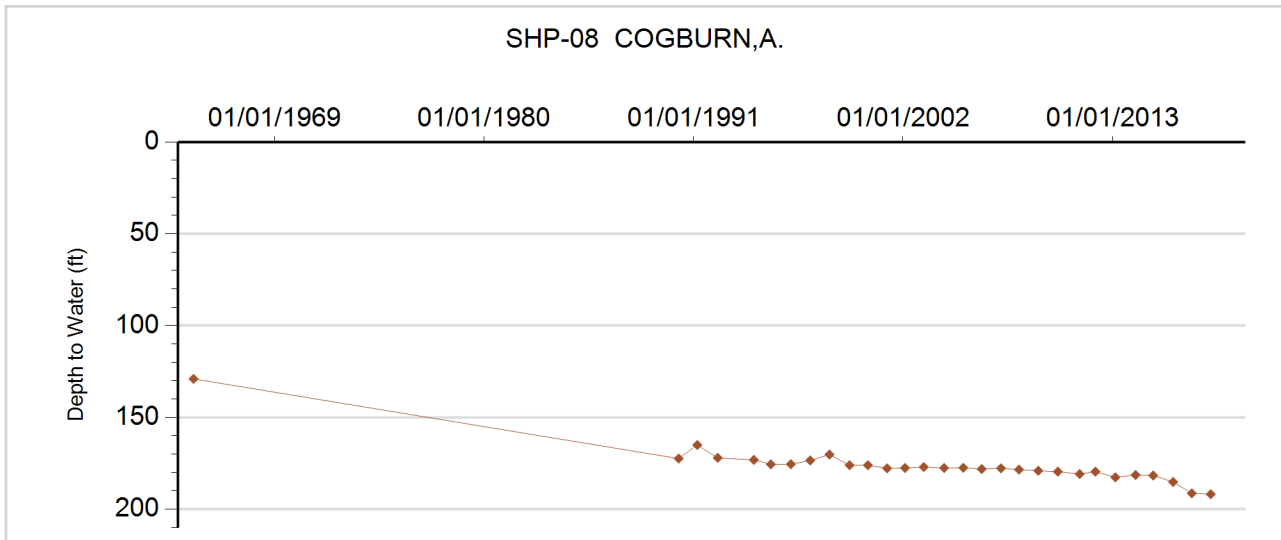
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/28/2019			
03/01/2018	191.81	3748.19	-0.51
03/02/2017	191.30	3748.70	-6.16
03/09/2016	185.14	3754.86	-3.54
02/20/2015	181.60	3758.40	-0.27
03/21/2014	181.33	3758.67	1.27
02/25/2013	182.60	3757.40	-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

**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

**Well Measurement Summary**

Start Date: 09/24/1964    End Date: 02/28/2019  
 Number of Measurements: 30





**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
153 N	55 E	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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

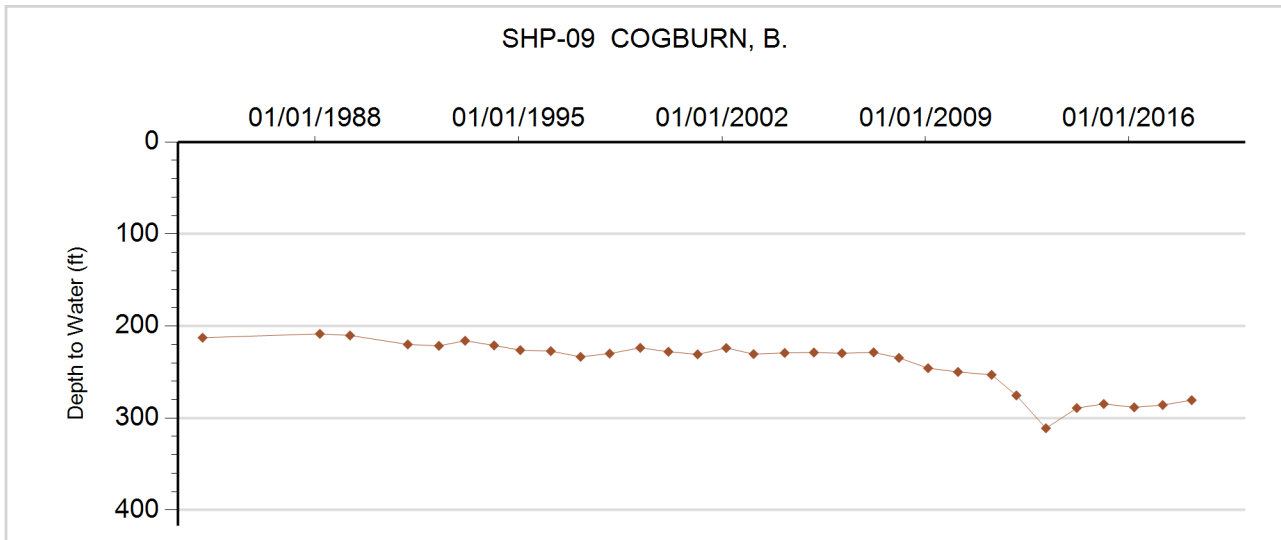
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/28/2019			
03/01/2018	280.59	3776.41	5.23
03/02/2017	285.82	3771.18	2.55
03/09/2016	288.37	3768.63	-3.68
02/20/2015	284.69	3772.31	4.41
03/18/2014	289.10	3767.90	22.00
02/23/2013	311.10	3745.90	-35.70
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

**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: 02/28/2019  
 Number of Measurements: 32





**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
314 N	63 W		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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

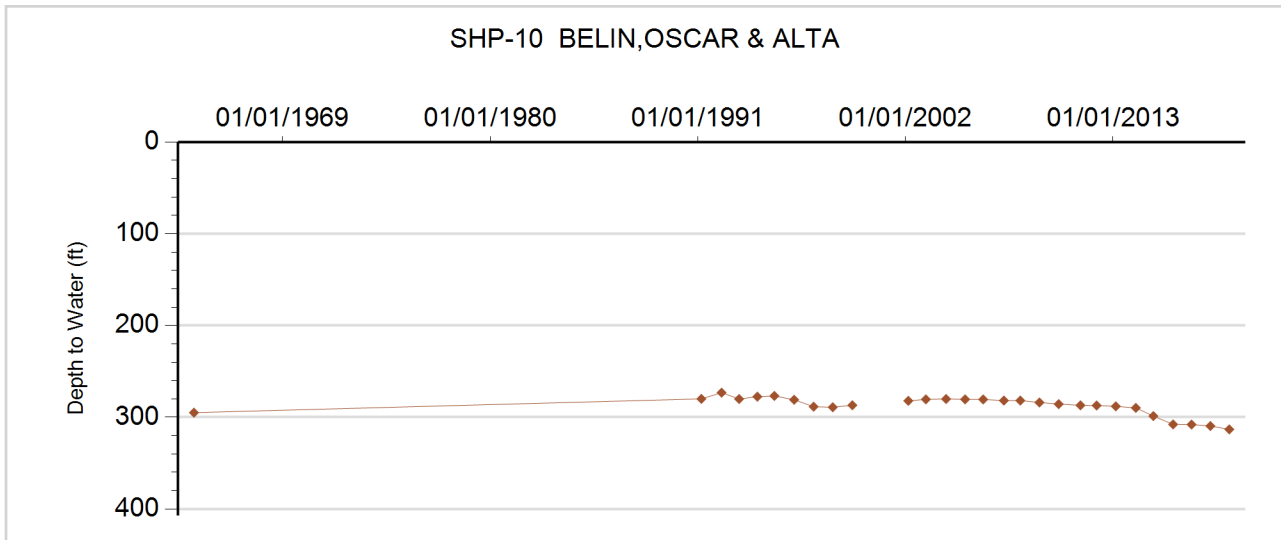
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/28/2019	313.24	3871.76	-3.69
02/28/2018	309.55	3875.45	-1.61
03/01/2017	307.94	3877.06	-0.12
03/09/2016	307.82	3877.18	-9.10
02/20/2015	298.72	3886.28	-8.93
03/18/2014	289.79	3895.21	-1.69
02/23/2013	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

**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: 02/28/2019  
 Number of Measurements: 30





**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
2757 S	894 E	SW	SE	NE	24	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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

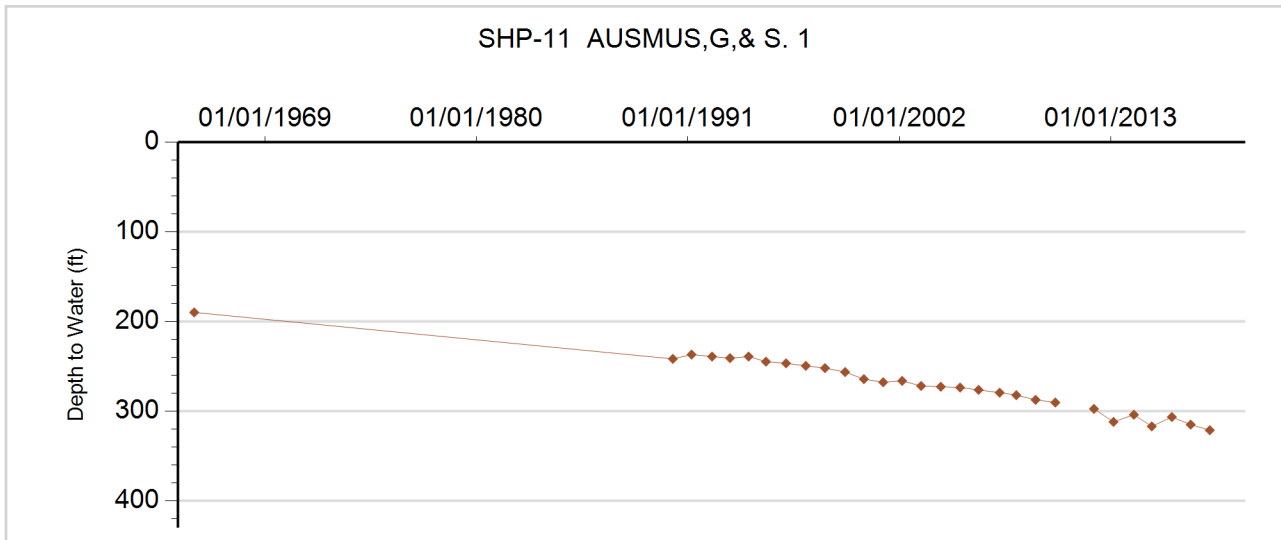
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/28/2019			
02/28/2018	321.37	3828.63	-6.23
03/01/2017	315.14	3834.86	-8.50
03/09/2016	306.64	3843.36	10.44
02/20/2015	317.08	3832.92	-12.98
03/18/2014	304.10	3845.90	8.00
02/23/2013	312.10	3837.90	-14.50
02/18/2012	297.60	3852.40	
04/13/2011			
02/14/2010	290.50	3859.50	-3.00

**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: 02/28/2019  
 Number of Measurements: 31





**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
92 S	85 W	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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

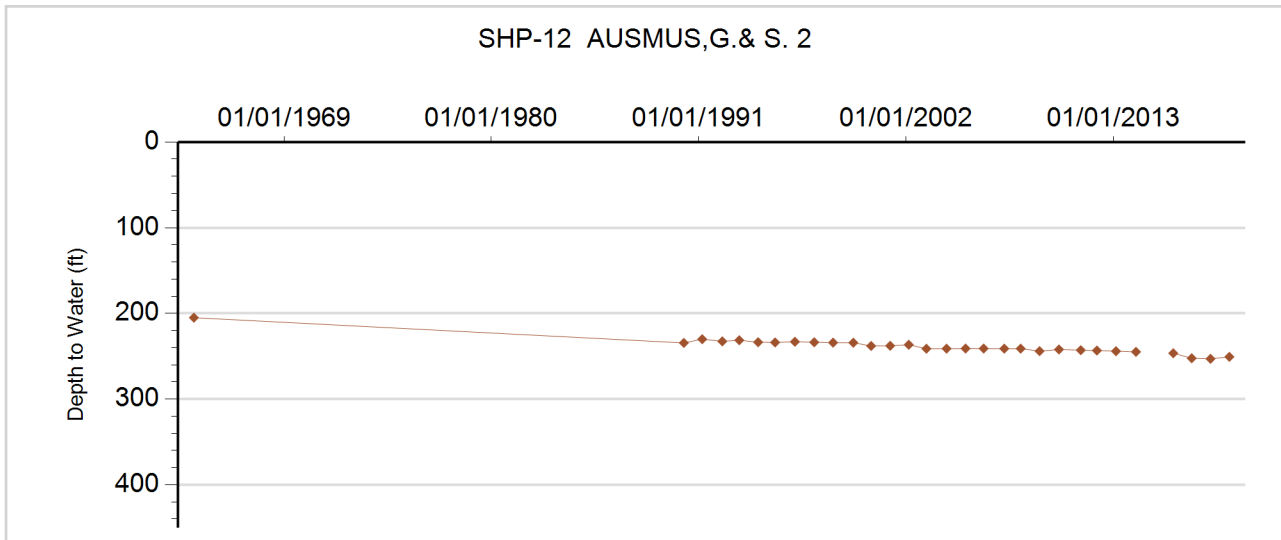
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/28/2019	250.71	3954.29	2.29
02/28/2018	253.00	3952.00	-0.66
03/01/2017	252.34	3952.66	-5.84
03/09/2016	246.50	3958.50	
02/20/2015			
03/18/2014	244.87	3960.13	-0.77
02/23/2013	244.10	3960.90	-0.80
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

**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: 02/28/2019  
 Number of Measurements: 31





**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
2648 S	25 W	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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

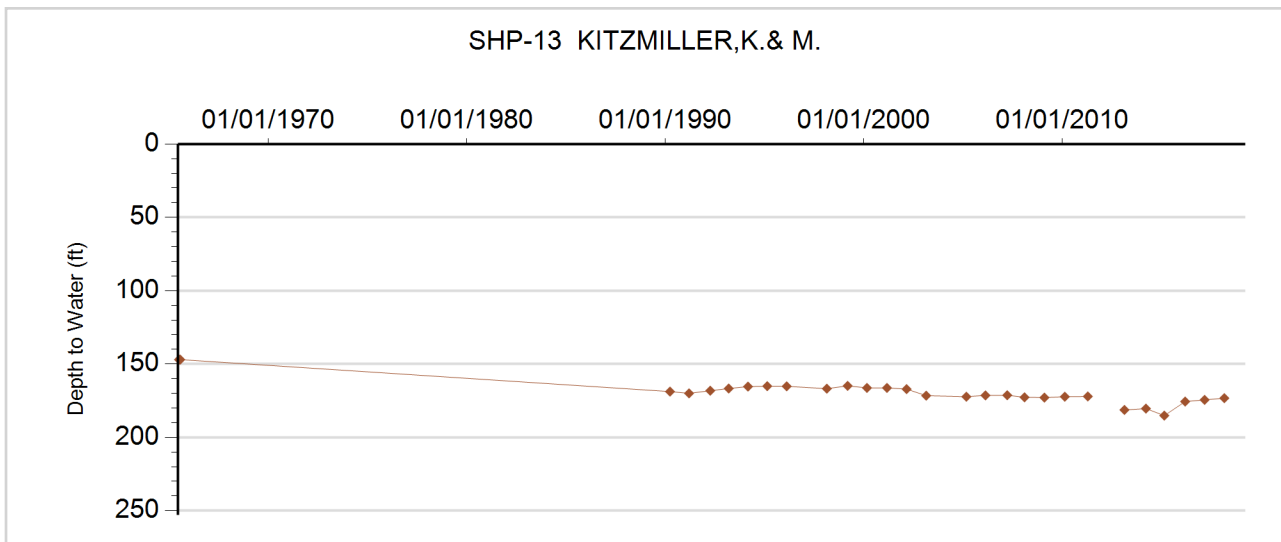
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/28/2019			
02/28/2018	173.29	4138.67	1.16
03/01/2017	174.45	4137.51	1.15
03/09/2016	175.60	4136.36	9.59
02/19/2015	185.19	4126.77	-4.79
03/18/2014	180.40	4131.56	0.90
02/16/2013	181.30	4130.66	
02/18/2012			
04/13/2011	172.10	4139.86	0.20
02/14/2010	172.30	4139.66	0.60

**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: 02/28/2019  
 Number of Measurements: 30





**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
3566 S	57 W	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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

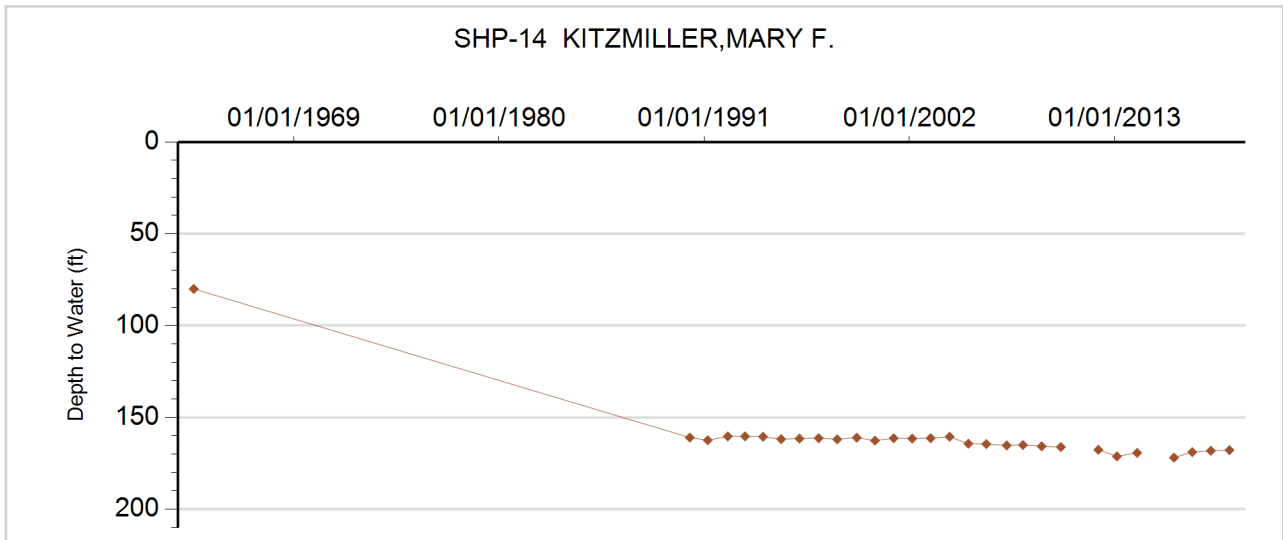
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/28/2019	167.78	4217.22	0.37
02/28/2018	168.15	4216.85	0.72
03/01/2017	168.87	4216.13	3.02
03/09/2016	171.89	4213.11	
02/19/2015			
03/18/2014	169.29	4215.71	1.91
02/17/2013	171.20	4213.80	-3.60
02/18/2012	167.60	4217.40	
04/12/2011			
02/14/2010	166.10	4218.90	-0.40

**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: 02/28/2019  
 Number of Measurements: 31







**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
662 S	3318 W	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:

**Ten Most Recent Readings**

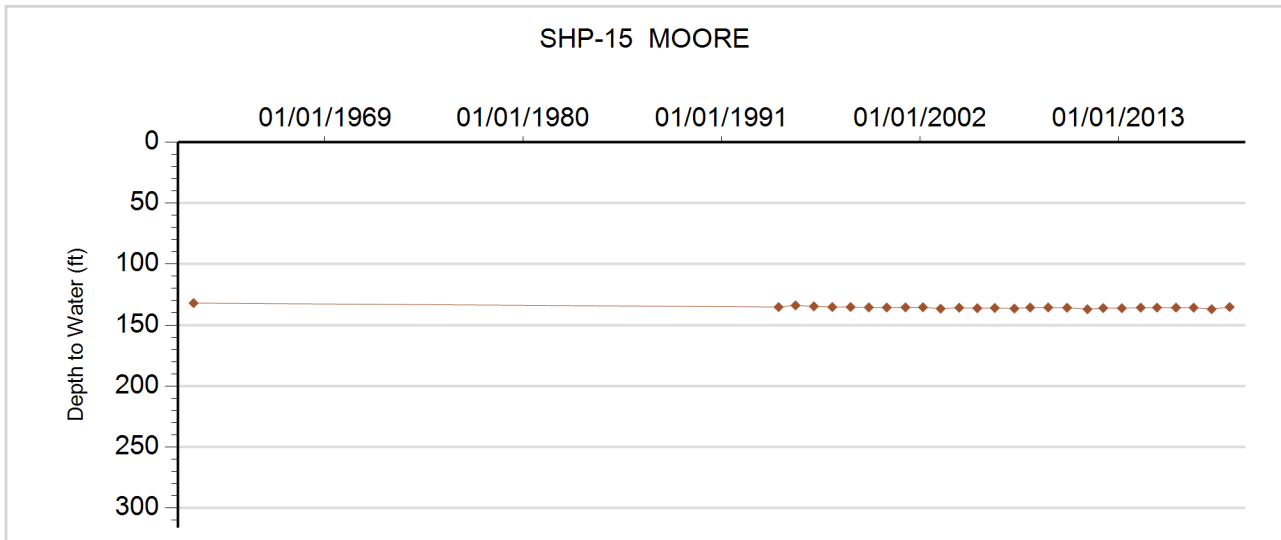
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/28/2019	135.20	4474.80	1.77
02/28/2018	136.97	4473.03	-1.22
03/01/2017	135.75	4474.25	-0.02
03/09/2016	135.73	4474.27	-0.03
02/19/2015	135.70	4474.30	0.04
03/25/2014	135.74	4474.26	0.46
03/08/2013	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

**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: 02/28/2019  
 Number of Measurements: 27





**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
912 S	66 W	NW	SW	SW	15	29.0 S	43.0 W	S	742599.0	4155748.0	GPS

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

**Ten Most Recent Readings**

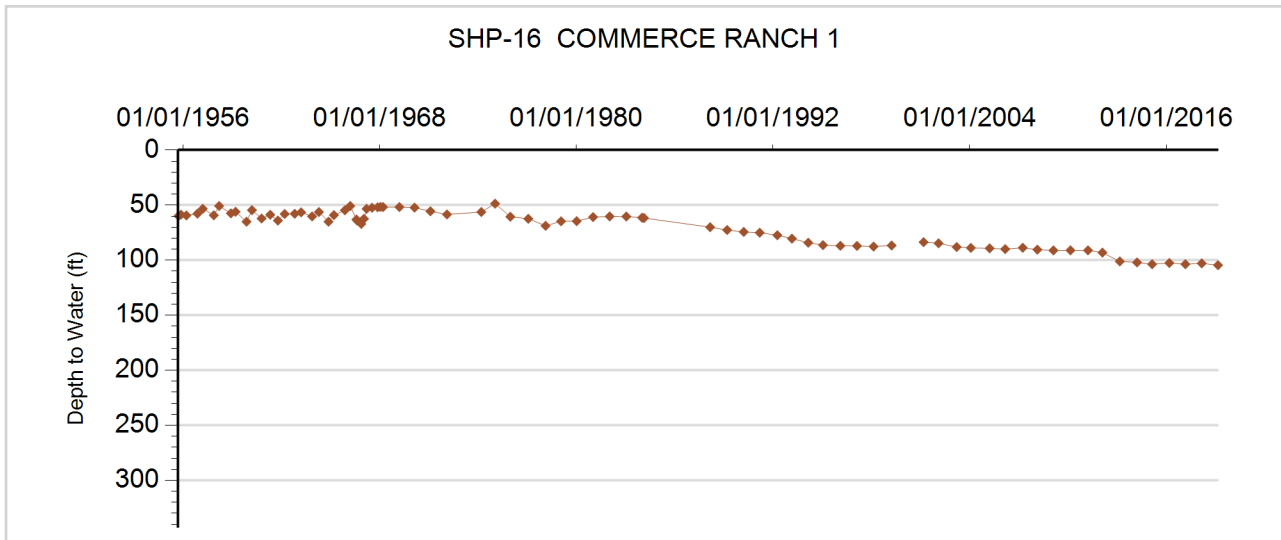
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/27/2019	104.51	3810.07	-1.62
03/01/2018	102.89	3811.69	0.72
03/02/2017	103.61	3810.97	-1.06
03/10/2016	102.55	3812.03	1.10
02/20/2015	103.65	3810.93	-1.64
03/20/2014	102.01	3812.57	-0.91
03/02/2013	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

**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: 02/27/2019  
 Number of Measurements: 80





**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
1234 N	97 W		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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

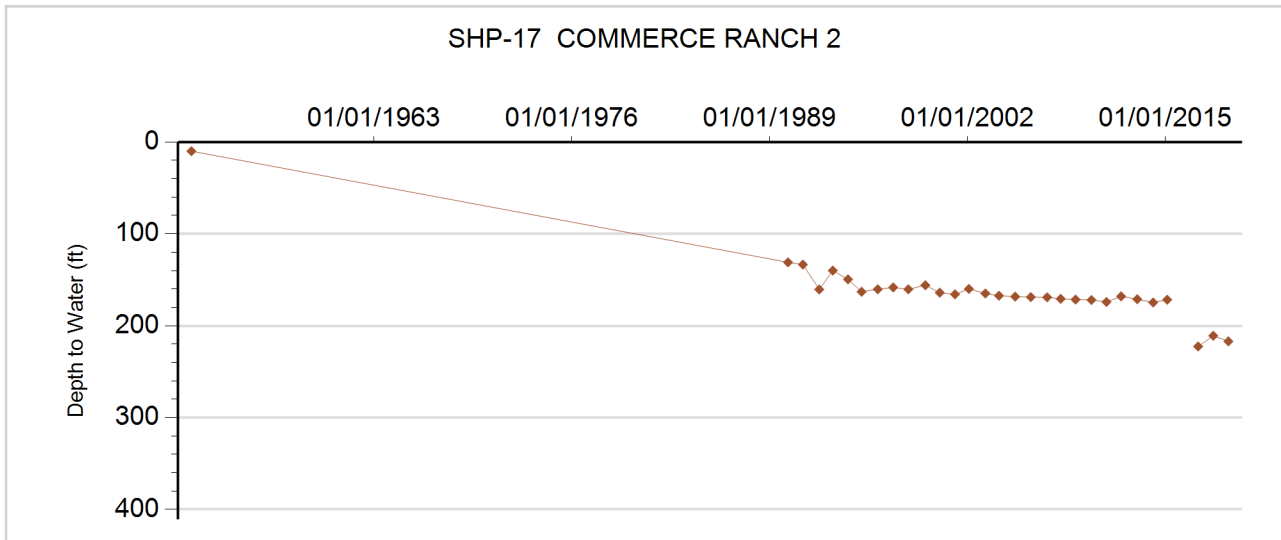
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/27/2019	217.01	3721.99	-6.11
03/01/2018	210.90	3728.10	11.67
03/02/2017	222.57	3716.43	
03/10/2016			
02/20/2015	171.66	3767.34	3.03
03/20/2014	174.69	3764.31	-3.59
03/02/2013	171.10	3767.90	-3.10
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

**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: 02/27/2019  
 Number of Measurements: 31





**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
3321 N	67 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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

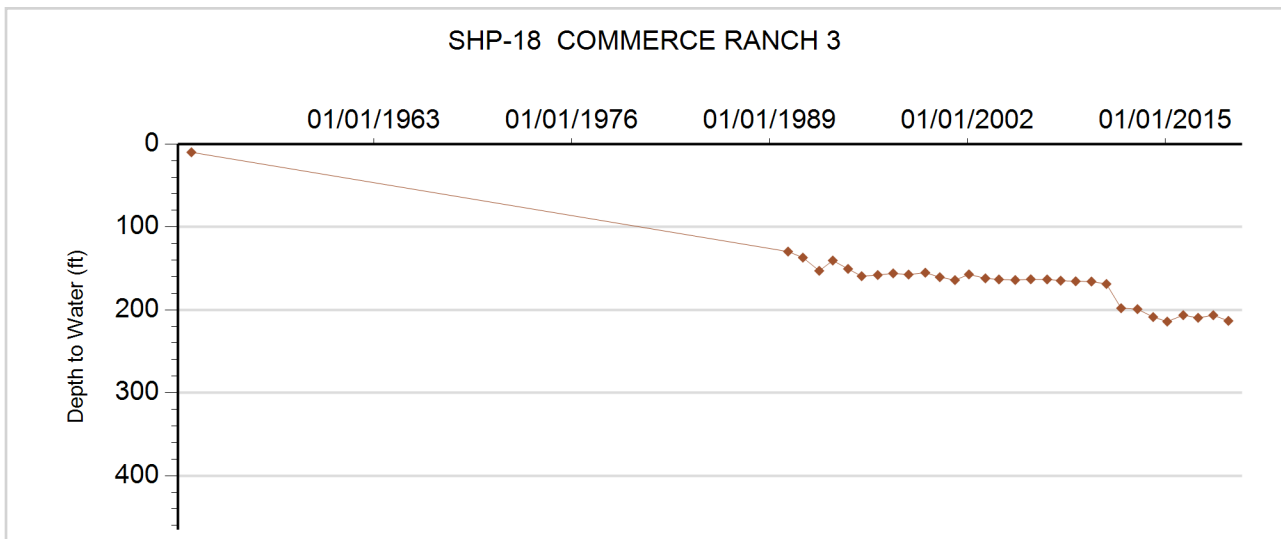
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/27/2019	213.28	3722.72	-6.84
03/01/2018	206.44	3729.56	3.13
03/02/2017	209.57	3726.43	-3.17
03/10/2016	206.40	3729.60	7.70
02/20/2015	214.10	3721.90	-5.44
03/20/2014	208.66	3727.34	-9.56
03/08/2013	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

**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: 02/27/2019  
 Number of Measurements: 31





**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
1264 N	2818 E	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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

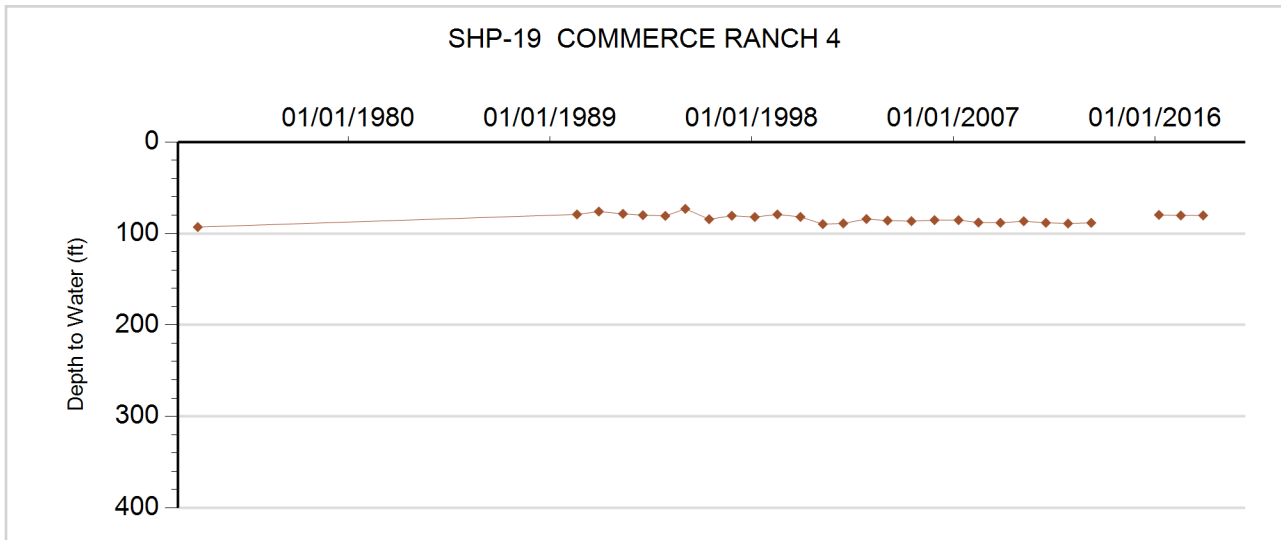
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/27/2019			
03/01/2018	80.27	3834.73	0.03
03/02/2017	80.30	3834.70	-0.59
03/10/2016	79.71	3835.29	
02/20/2015			
03/20/2014			
03/02/2013	88.40	3826.60	0.70
02/18/2012	89.10	3825.90	-0.80
02/22/2011	88.30	3826.70	-1.70
02/26/2010	86.60	3828.40	1.70

**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: 02/27/2019  
 Number of Measurements: 31





**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
61 S	31 W	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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

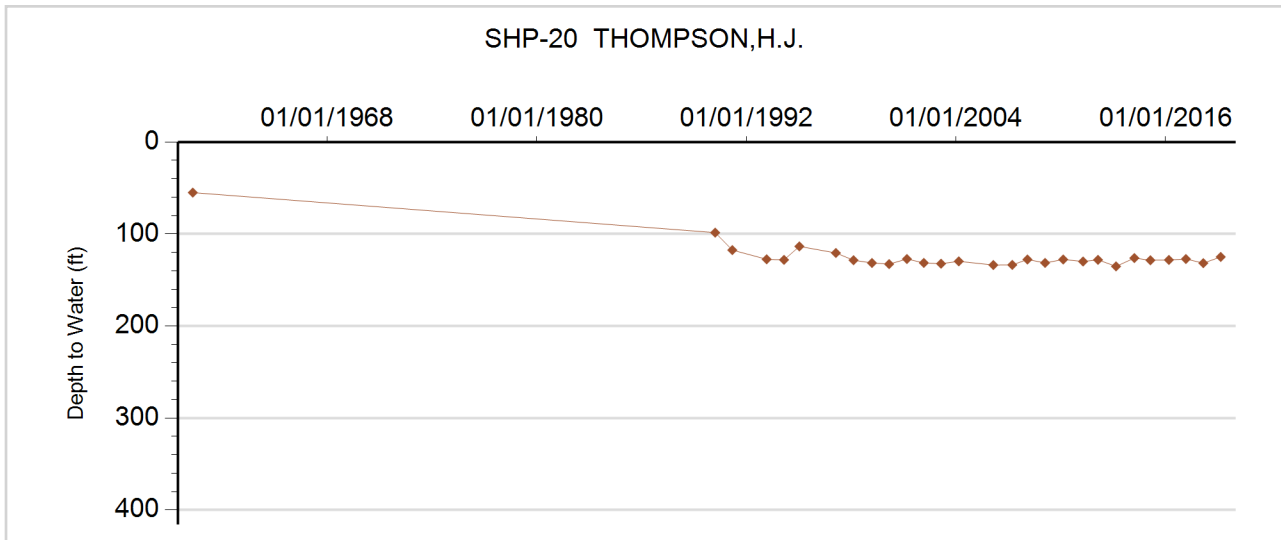
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/27/2019	124.91	3839.09	6.78
03/01/2018	131.69	3832.31	-4.48
03/02/2017	127.21	3836.79	0.99
03/10/2016	128.20	3835.80	0.34
02/19/2015	128.54	3835.46	-2.39
03/20/2014	126.15	3837.85	9.05
03/02/2013	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

**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: 02/27/2019  
 Number of Measurements: 28





**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
1140 S	2644 E		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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

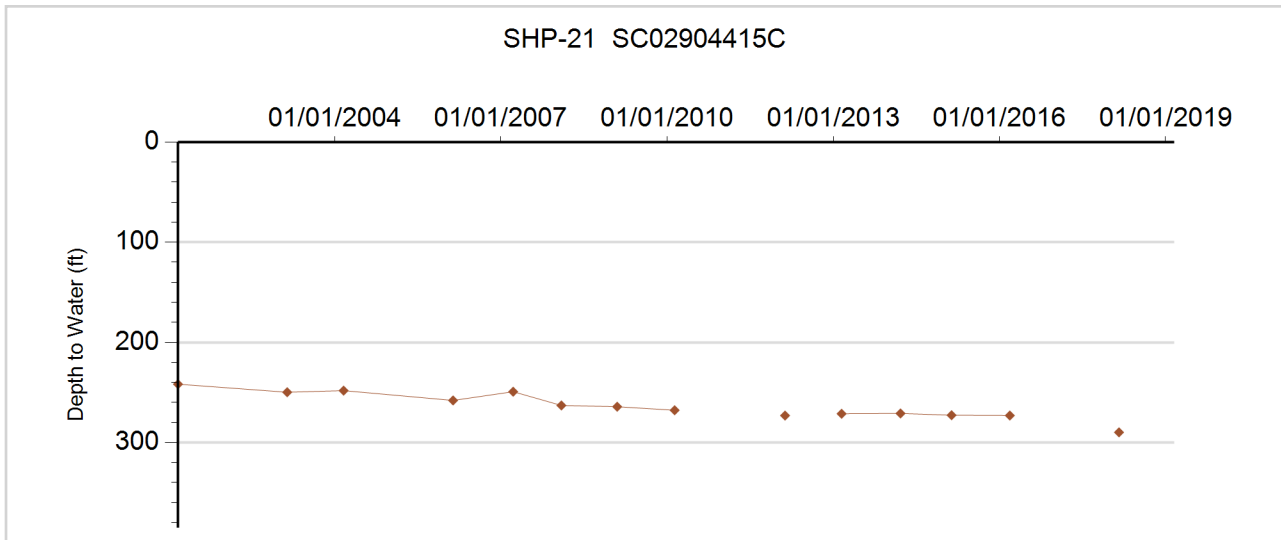
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/28/2019			
02/28/2018	289.87	3755.13	
03/01/2017			
03/10/2016	273.08	3771.92	-0.34
02/20/2015	272.74	3772.26	-1.73
03/20/2014	271.01	3773.99	0.29
02/25/2013	271.30	3773.70	
02/24/2013			
02/18/2012	273.10	3771.90	
04/12/2011			

**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: 02/28/2019  
 Number of Measurements: 18





**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
221 S	65 W		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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

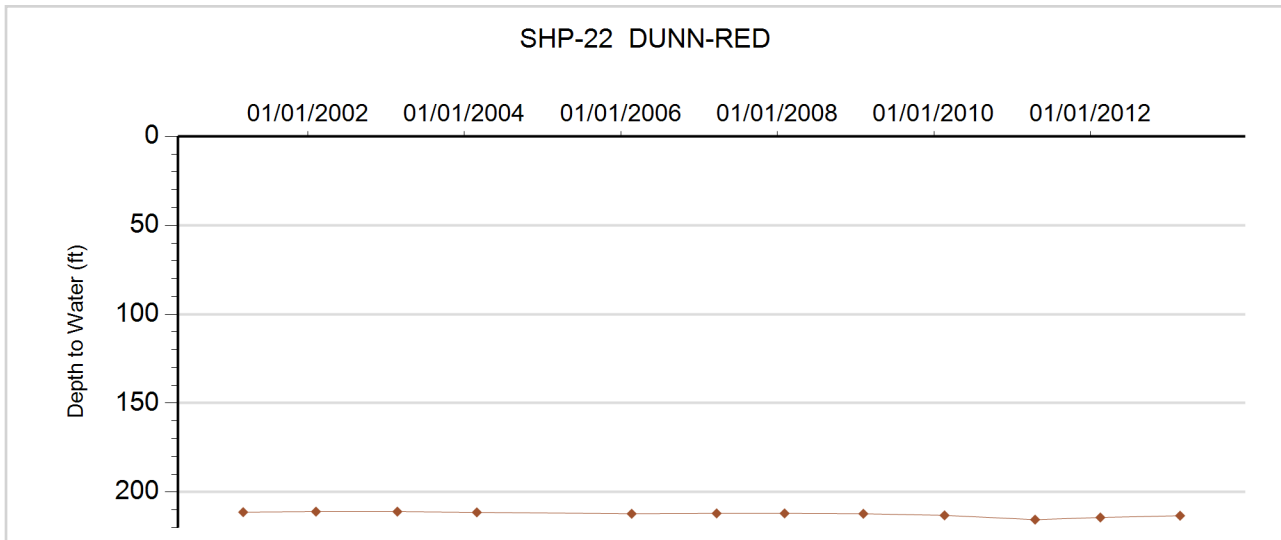
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/24/2013	213.30	3879.70	1.00
02/18/2012	214.30	3878.70	1.20
04/19/2011	215.50	3877.50	-2.40
02/20/2010	213.10	3879.90	-0.90
02/06/2009	212.20	3880.80	-0.20
02/04/2008	212.00	3881.00	0.00
03/24/2007	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
1312 N	126 W		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:

**Ten Most Recent Readings**

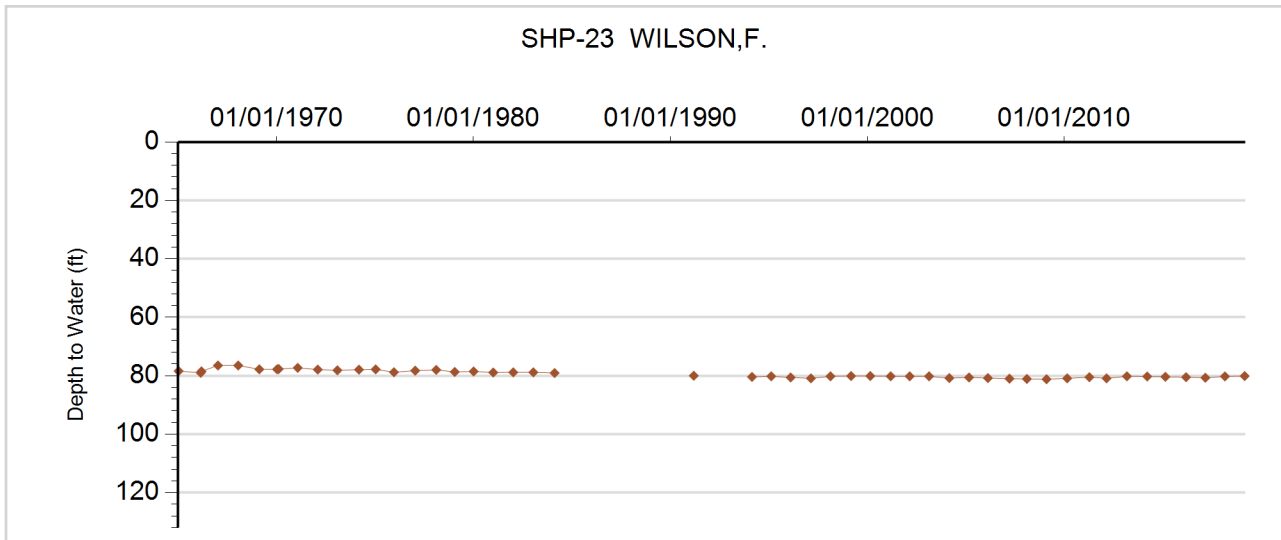
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/28/2019	80.12	4301.90	0.12
02/28/2018	80.24	4301.78	0.45
03/01/2017	80.69	4301.33	-0.19
03/09/2016	80.50	4301.52	-0.12
02/19/2015	80.38	4301.64	-0.11
03/20/2014	80.27	4301.75	-0.07
03/08/2013	80.20	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

**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: 02/28/2019  
 Number of Measurements: 52





**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
1 S	466 W	NW	SW	SW	6	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:

**Ten Most Recent Readings**

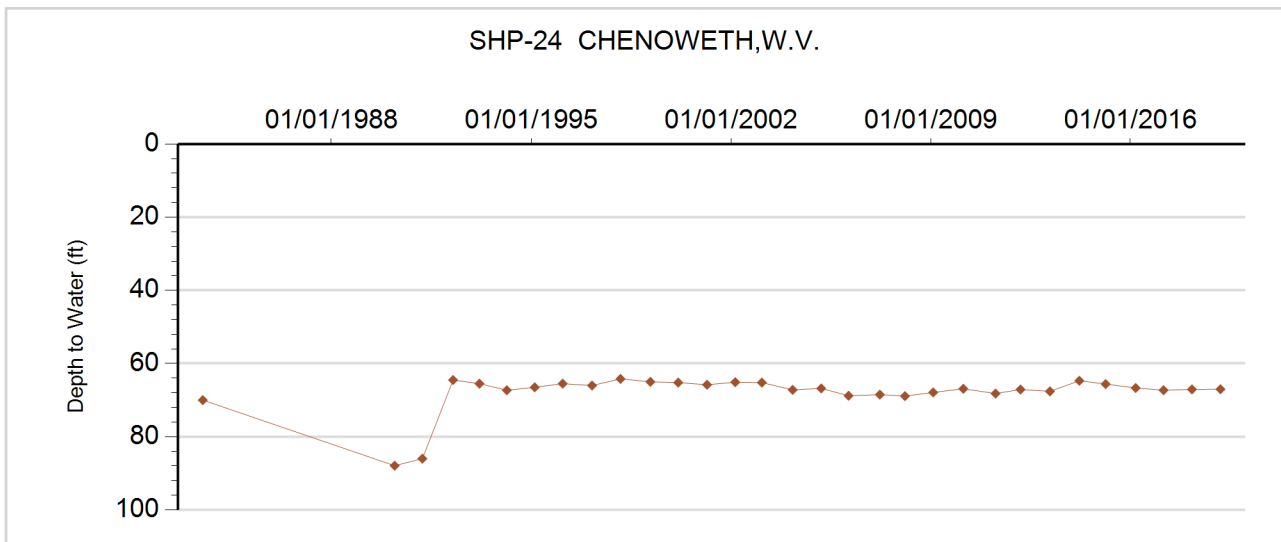
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/28/2019	67.02	4312.98	0.04
02/28/2018	67.06	4312.94	0.22
03/01/2017	67.28	4312.72	-0.60
03/09/2016	66.68	4313.32	-1.07
02/19/2015	65.61	4314.39	-0.91
03/20/2014	64.70	4315.30	2.90
03/08/2013	67.60	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

**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: 02/28/2019  
 Number of Measurements: 31





**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
387 N	314 W	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:

**Ten Most Recent Readings**

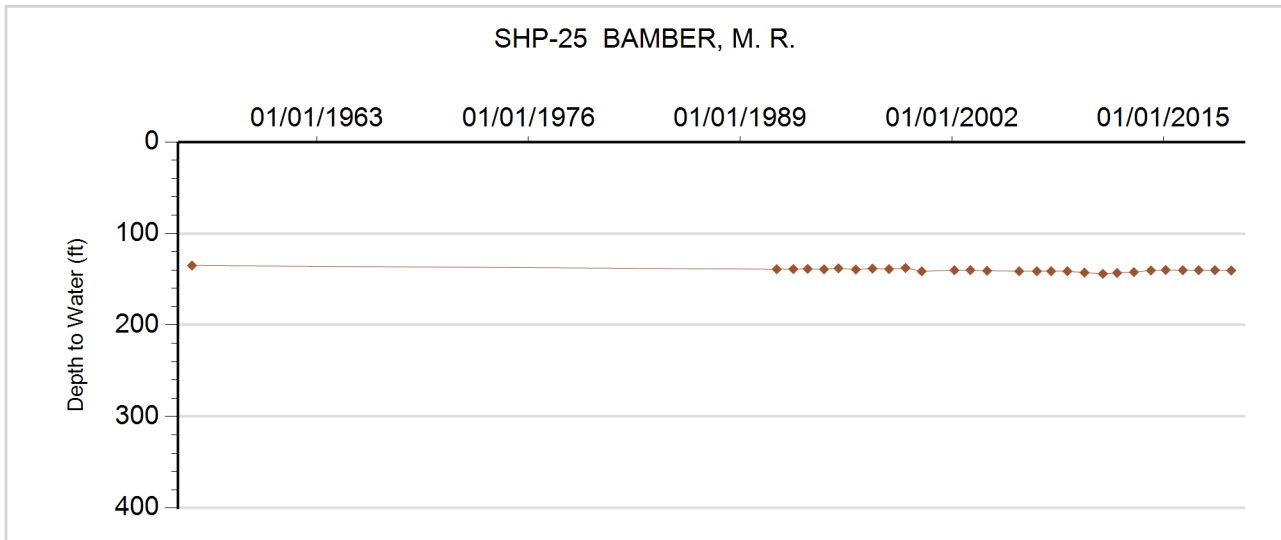
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/28/2019	140.42	4534.58	-0.38
02/28/2018	140.04	4534.96	-0.01
03/01/2017	140.03	4534.97	0.01
03/09/2016	140.04	4534.96	-0.18
02/19/2015	139.86	4535.14	0.50
03/25/2014	140.36	4534.64	1.84
03/08/2013	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

**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: 02/28/2019  
 Number of Measurements: 28





**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
2997 N	11 W	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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

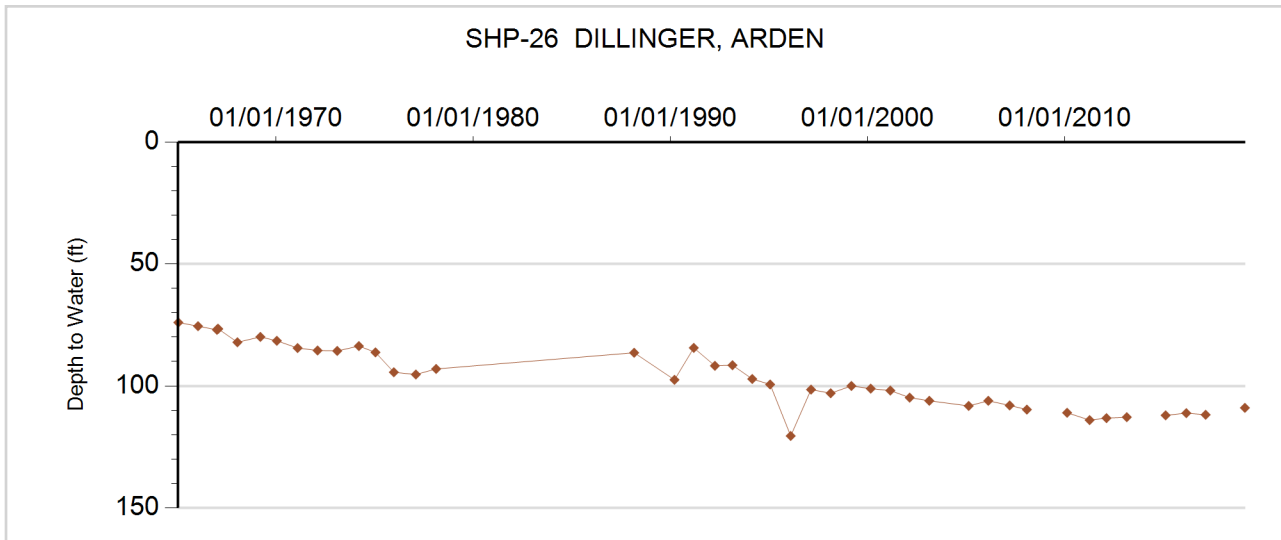
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/27/2019	108.99	3576.49	
03/01/2018			
03/01/2017	111.82	3573.66	-0.67
03/08/2016	111.15	3574.33	0.91
02/19/2015	112.06	3573.42	
03/20/2014			
03/02/2013	112.80	3572.68	0.40
02/18/2012	113.20	3572.28	0.80
04/13/2011	114.00	3571.48	-3.00
02/19/2010	111.00	3574.48	

**Construction Information**

Surface Elevation (ft): 3685.48  
 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: 02/27/2019  
 Number of Measurements: 46





**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
1272 S	63 E		SE	SE	18	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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

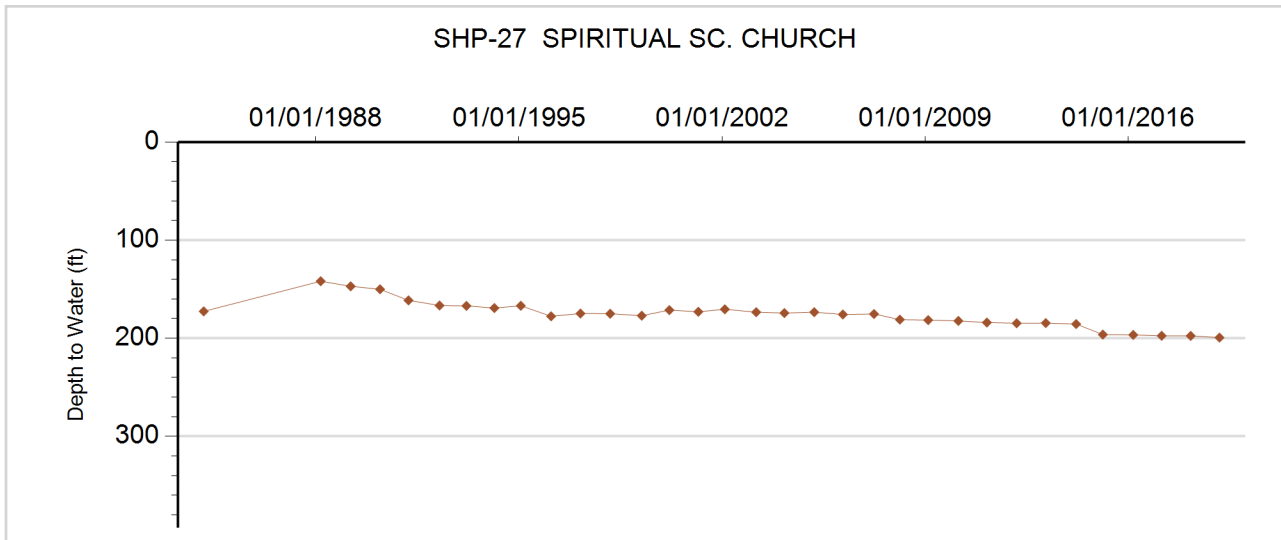
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/27/2019	199.32	3630.68	-1.75
03/01/2018	197.57	3632.43	-0.08
03/01/2017	197.49	3632.51	-0.92
03/08/2016	196.57	3633.43	-0.32
02/19/2015	196.25	3633.75	-10.73
03/20/2014	185.52	3644.48	-1.02
03/02/2013	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

**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: 02/27/2019  
 Number of Measurements: 33





**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
3954 S	1239 W		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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

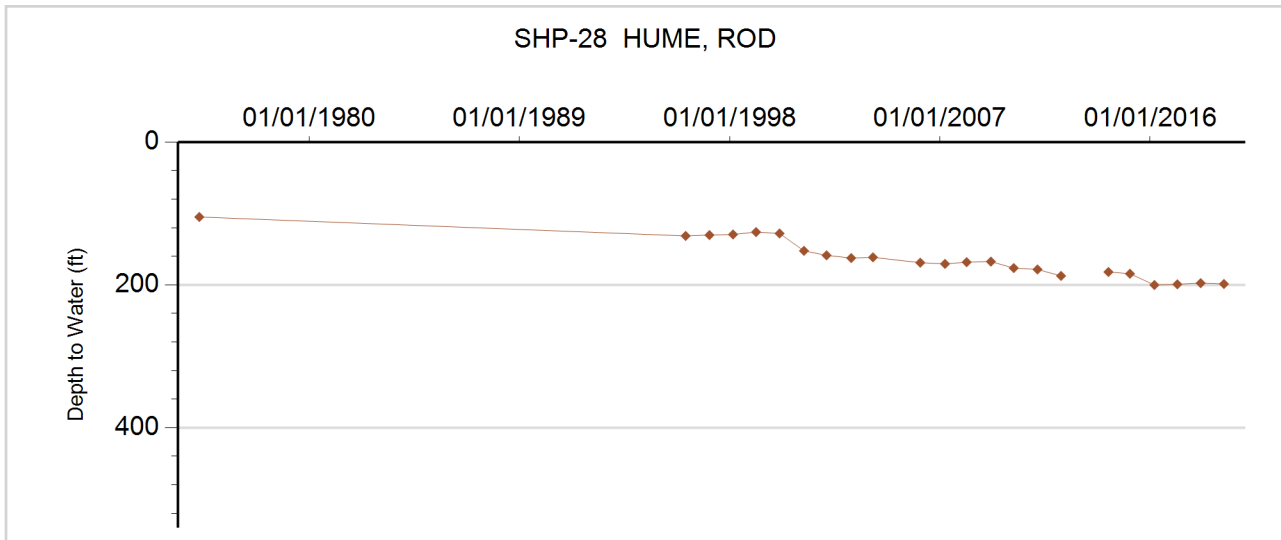
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/27/2019	198.85	3581.15	-1.22
03/01/2018	197.63	3582.37	1.63
03/01/2017	199.26	3580.74	0.99
03/08/2016	200.25	3579.75	-15.75
02/19/2015	184.50	3595.50	-2.48
03/20/2014	182.02	3597.98	
03/01/2013			
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

**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: 02/27/2019  
 Number of Measurements: 24





**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
3692 S	270 W	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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

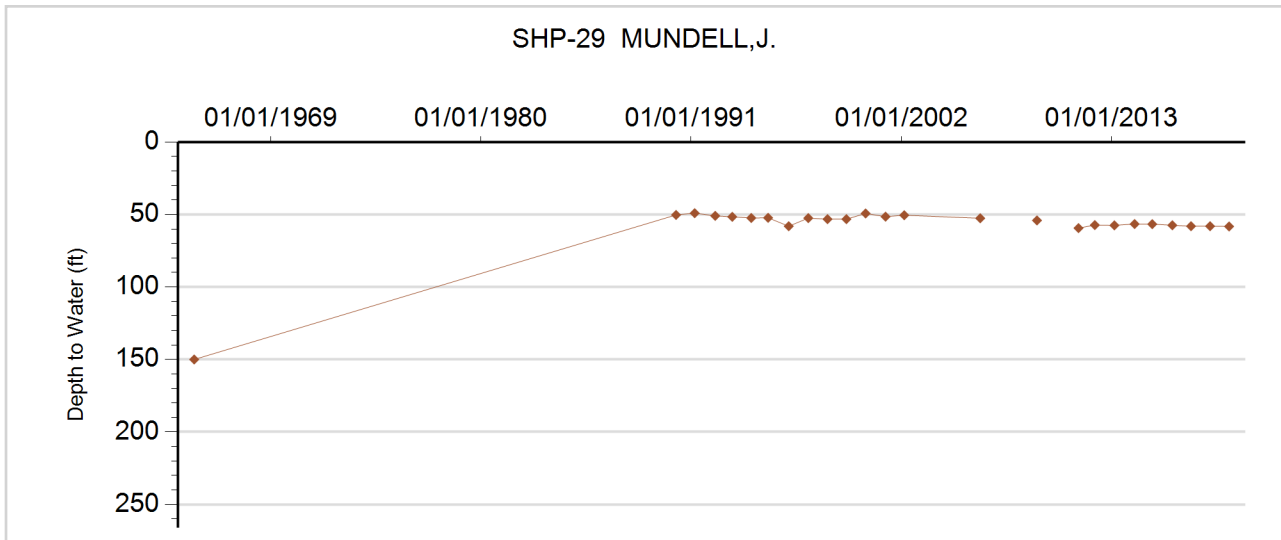
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/27/2019	58.27	3805.73	-0.19
03/01/2018	58.08	3805.92	0.00
03/02/2017	58.08	3805.92	-0.65
03/10/2016	57.43	3806.57	-0.76
02/19/2015	56.67	3807.33	-0.08
03/20/2014	56.59	3807.41	0.91
02/26/2013	57.50	3806.50	-0.20
02/18/2012	57.30	3806.70	2.10
04/12/2011	59.40	3804.60	
02/18/2010			

**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: 02/27/2019  
 Number of Measurements: 28





**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
43 N	9 W	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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

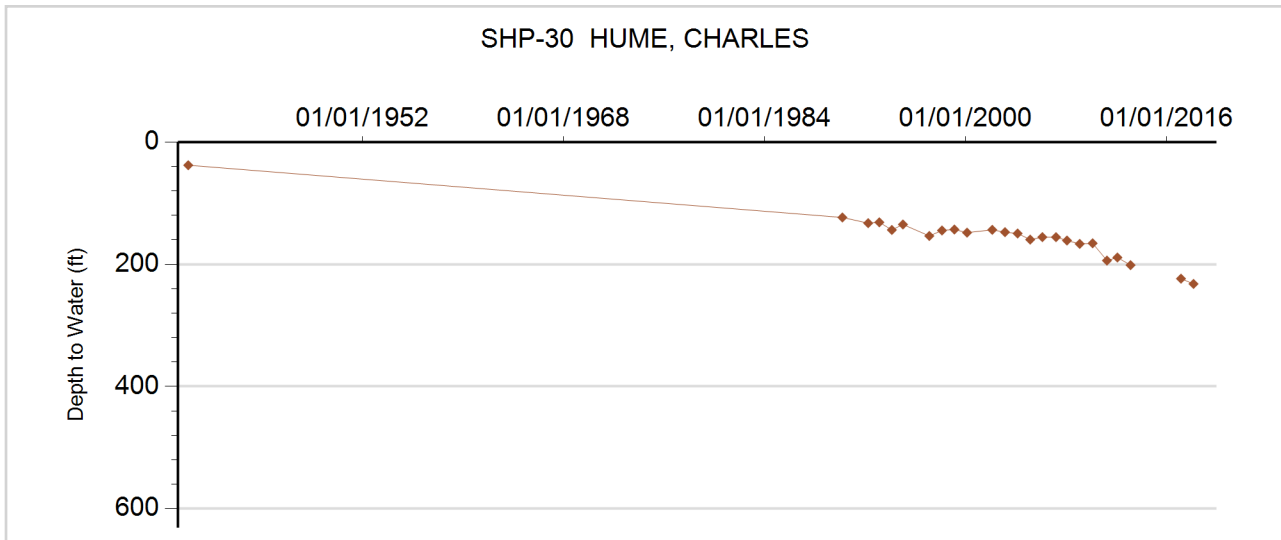
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/27/2019			
03/01/2018	232.23	3690.77	-8.63
03/02/2017	223.60	3699.40	
03/10/2016			
02/19/2015			
03/20/2014			
02/25/2013	201.50	3721.50	-12.50
02/08/2012	189.00	3734.00	5.00
04/12/2011	194.00	3729.00	-28.30
02/18/2010	165.70	3757.30	1.00

**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: 02/27/2019  
 Number of Measurements: 28







**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
3903 S	2646 E		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:    SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

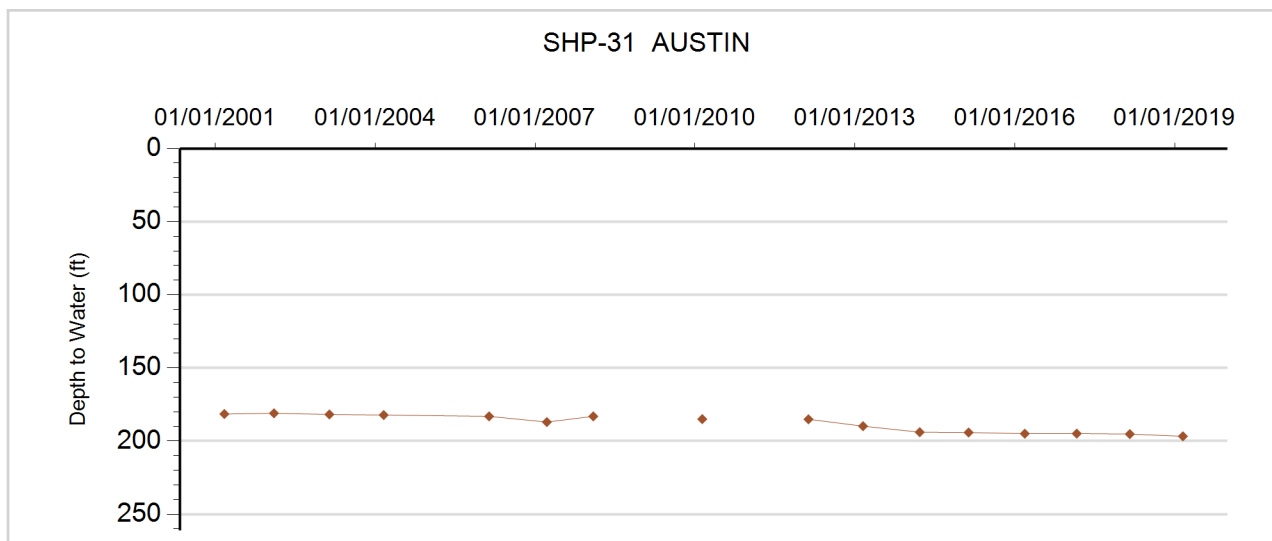
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/27/2019	196.74	3853.26	-1.52
02/28/2018	195.22	3854.78	-0.31
03/01/2017	194.91	3855.09	0.04
03/10/2016	194.95	3855.05	-0.82
02/19/2015	194.13	3855.87	-0.22
03/21/2014	193.91	3856.09	-4.11
02/26/2013	189.80	3860.20	-4.70
02/18/2012	185.10	3864.90	
04/19/2011			
02/20/2010	185.00	3865.00	

**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: 02/27/2019  
 Number of Measurements: 18





**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
365 S	68 W	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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

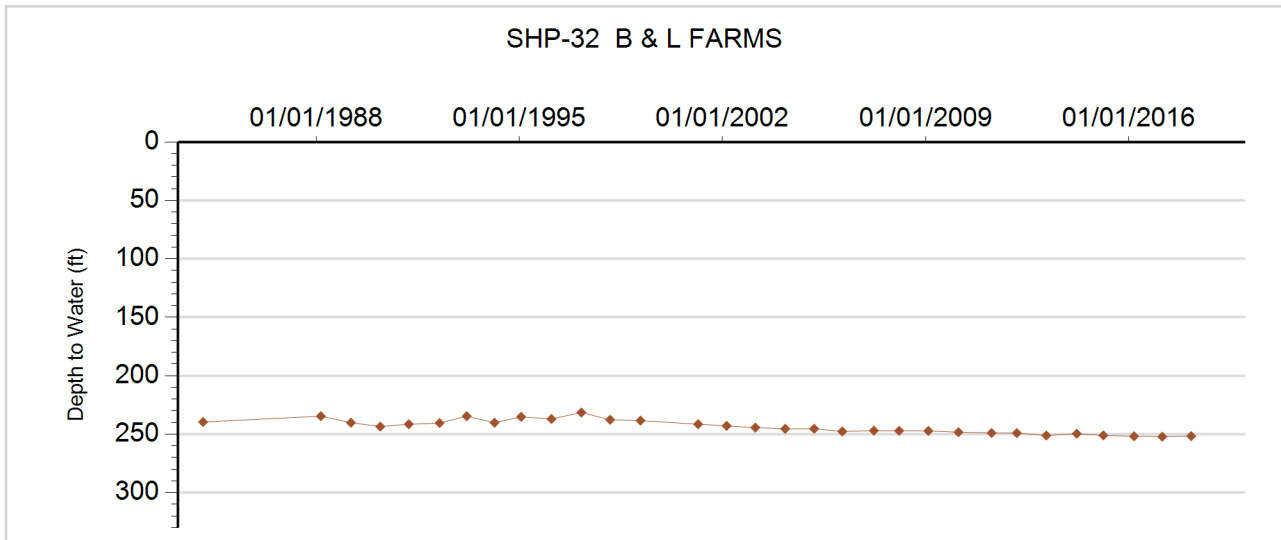
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/27/2019			
02/28/2018	251.67	3896.33	0.51
03/01/2017	252.18	3895.82	-0.36
03/10/2016	251.82	3896.18	-0.77
02/19/2015	251.05	3896.95	-1.39
03/21/2014	249.66	3898.34	1.54
03/02/2013	251.20	3896.80	-2.10
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

**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: 02/27/2019  
 Number of Measurements: 32





**GROUNDWATER DETAILS**

**Well Name:** SHP-33 WARD, H.  
**Permit Number:**  
**WDID:**  
**Data Source:** DWR

**Location Number:** SC03004625DAB  
**USGS Site ID:**  
**Applicant/Contact:** WARD, H.

**Physical Location**

Dist N/S	Dist E/W	Q10	Q40	Q160	Sec	Township	Range	PM	UTMx	UTMy	Location Accuracy
2801 N	1272 E	NW	NE	SE	25	30.0 S	46.0 W	S	718353.0	4142603.0	GPS

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

**Ten Most Recent Readings**

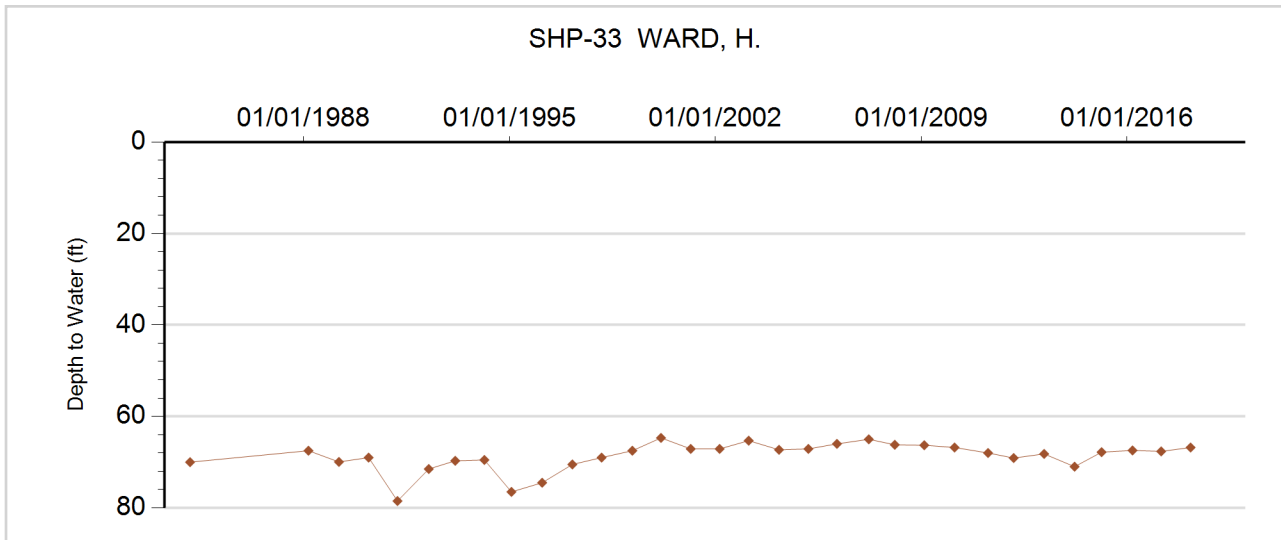
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/27/2019			
03/01/2018	66.80	4171.20	0.85
03/01/2017	67.65	4170.35	-0.21
03/10/2016	67.44	4170.56	0.37
02/20/2015	67.81	4170.19	3.18
03/21/2014	70.99	4167.01	-2.79
03/08/2013	68.20	4169.80	0.90
02/24/2012	69.10	4168.90	-1.10
04/12/2011	68.00	4170.00	-1.20
02/20/2010	66.80	4171.20	-0.50

**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: 02/27/2019  
 Number of Measurements: 33





**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
3420 S	3144 W		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:

**Ten Most Recent Readings**

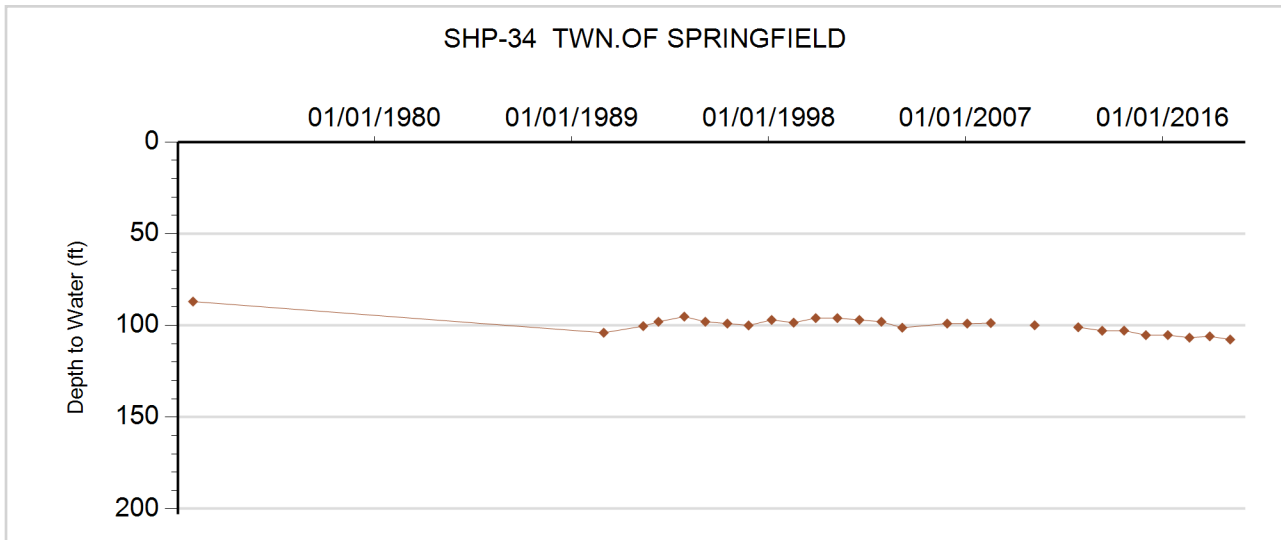
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/04/2019	107.67	4284.33	-1.71
02/28/2018	105.96	4286.04	0.71
03/27/2017	106.67	4285.33	-1.40
03/31/2016	105.27	4286.73	0.02
03/30/2015	105.29	4286.71	-2.46
03/31/2014	102.83	4289.17	0.07
03/31/2013	102.90	4289.10	-1.90
02/25/2012	101.00	4291.00	
03/03/2011			
02/28/2010	99.90	4292.10	

**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: 02/04/2019  
 Number of Measurements: 29





**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
2822 S	371 E	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:

**Ten Most Recent Readings**

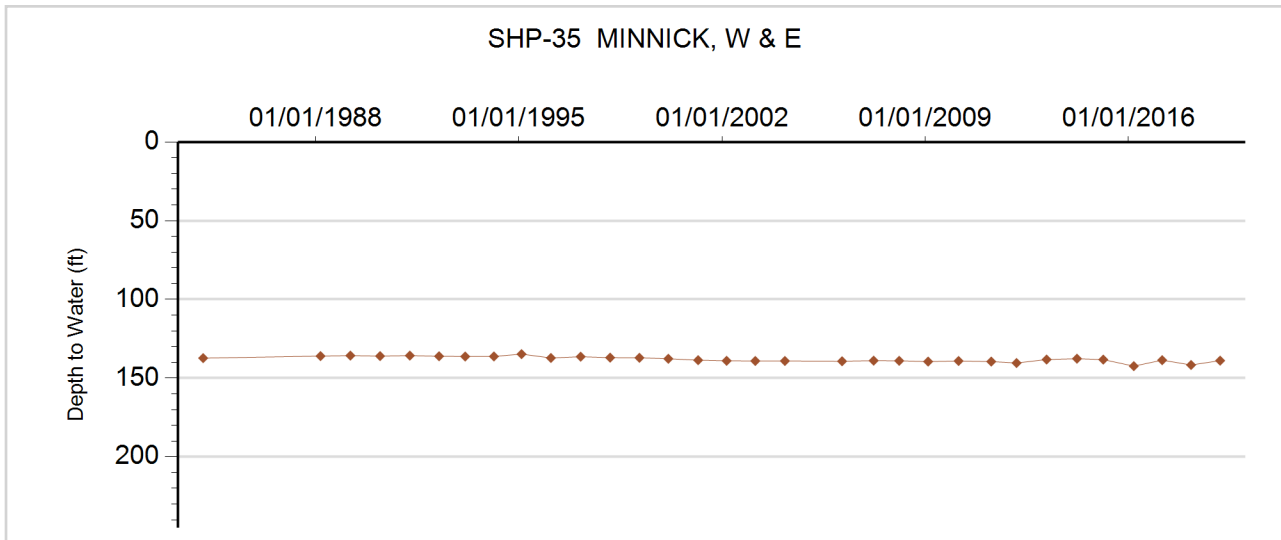
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/28/2019	138.91	4533.09	2.74
02/28/2018	141.65	4530.35	-3.06
03/01/2017	138.59	4533.41	3.80
03/09/2016	142.39	4529.61	-4.14
02/19/2015	138.25	4533.75	-0.59
03/25/2014	137.66	4534.34	0.54
03/08/2013	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

**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: 02/28/2019  
 Number of Measurements: 32





**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
2653 N	70 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:

**Ten Most Recent Readings**

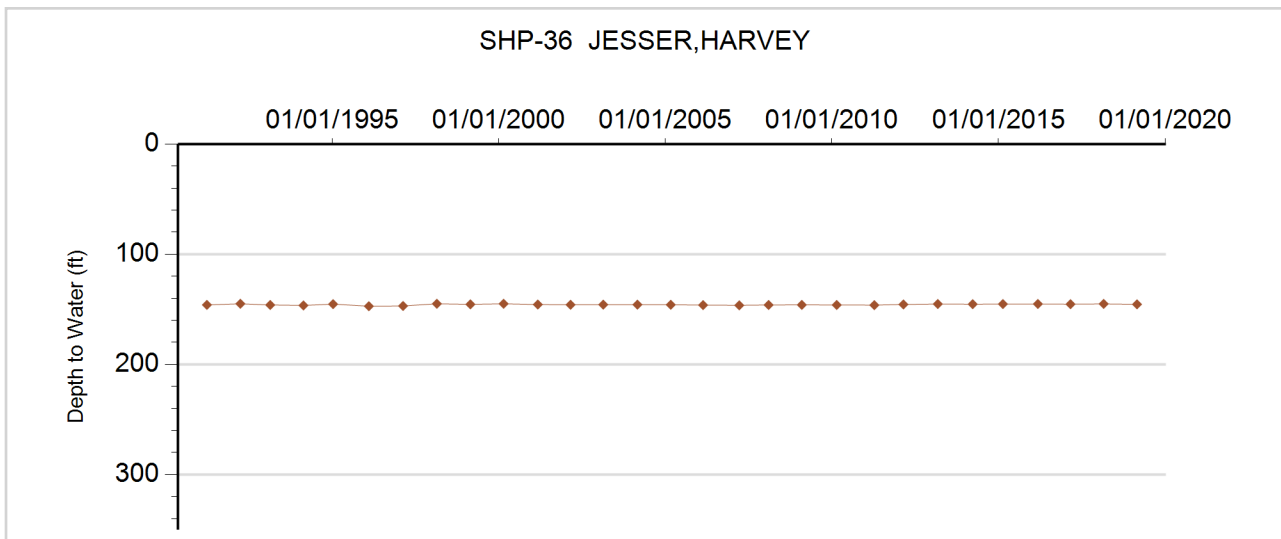
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/28/2019	145.52	4634.48	-0.41
02/28/2018	145.11	4634.89	0.26
03/01/2017	145.37	4634.63	-0.18
03/09/2016	145.19	4634.81	0.07
02/19/2015	145.26	4634.74	0.11
03/25/2014	145.37	4634.63	-0.17
03/08/2013	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

**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: 02/28/2019  
 Number of Measurements: 29





**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
1058 S	74 E		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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

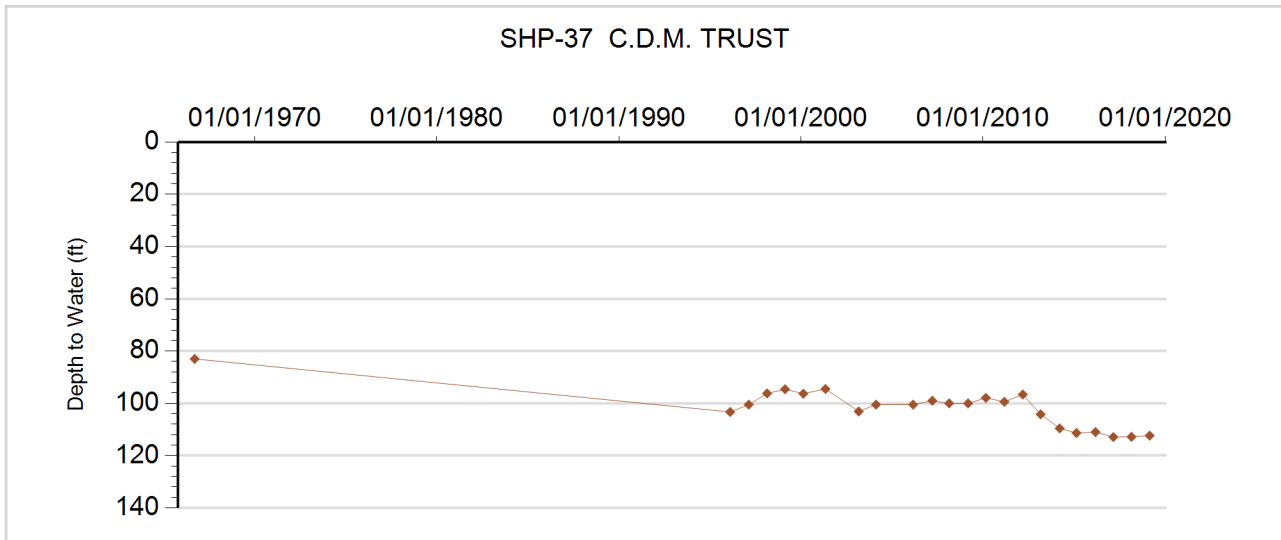
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/27/2019	112.34	3578.14	0.46
02/27/2018	112.80	3577.68	0.09
03/01/2017	112.89	3577.59	-1.90
03/08/2016	110.99	3579.49	0.36
02/19/2015	111.35	3579.13	-1.77
03/19/2014	109.58	3580.90	-5.38
03/03/2013	104.20	3586.28	-7.60
03/09/2012	96.60	3593.88	2.80
03/06/2011	99.40	3591.08	-1.50
02/28/2010	97.90	3592.58	2.10

**Construction Information**

Surface Elevation (ft): 3690.48  
 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: 02/27/2019  
 Number of Measurements: 23





**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
25 N	3912 E	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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

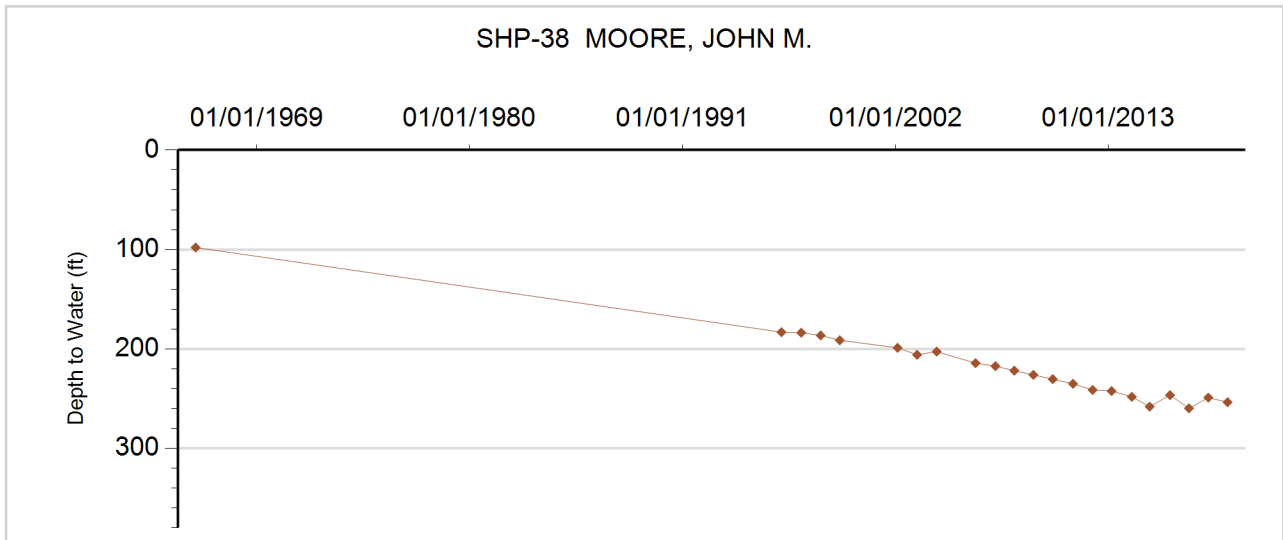
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/27/2019	253.72	3576.28	-4.62
02/28/2018	249.10	3580.90	10.77
03/01/2017	259.87	3570.13	-13.25
03/08/2016	246.62	3583.38	11.58
02/18/2015	258.20	3571.80	-9.86
03/19/2014	248.34	3581.66	-5.84
03/02/2013	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

**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: 02/27/2019  
 Number of Measurements: 22







**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
702 S	1253 E	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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

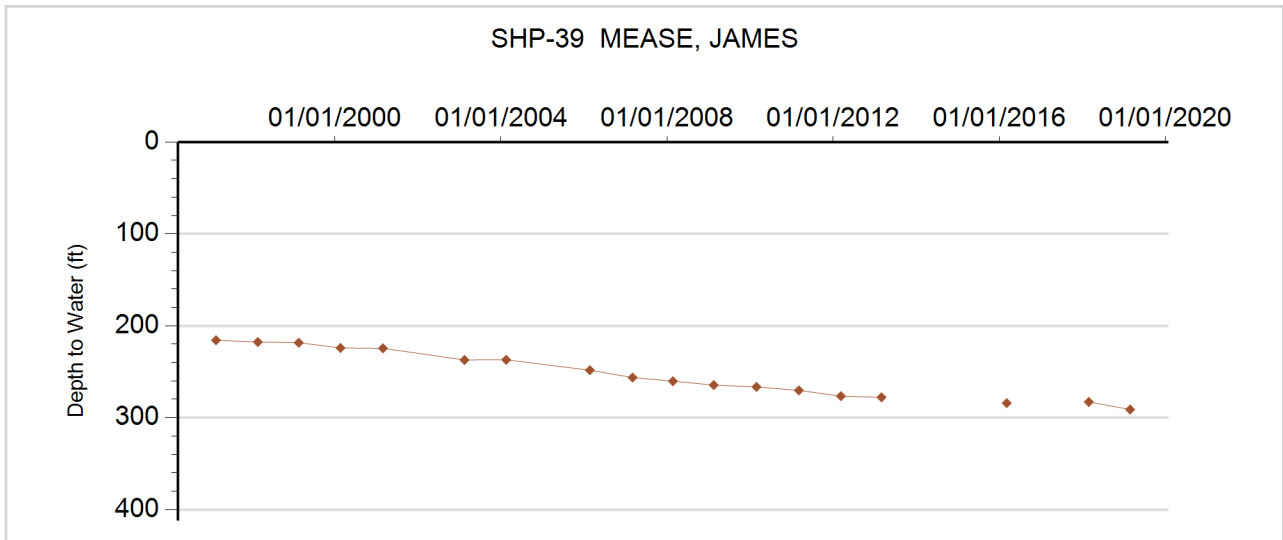
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/27/2019	291.12	3528.88	-8.27
02/28/2018	282.85	3537.15	
03/01/2017			
03/08/2016	284.15	3535.85	
02/18/2015			
03/19/2014			
03/02/2013	277.80	3542.20	-1.20
03/10/2012	276.60	3543.40	-6.30
03/06/2011	270.30	3549.70	-3.80
02/26/2010	266.50	3553.50	-2.00

**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: 02/27/2019  
 Number of Measurements: 21





**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
2726 S	2844 E	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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

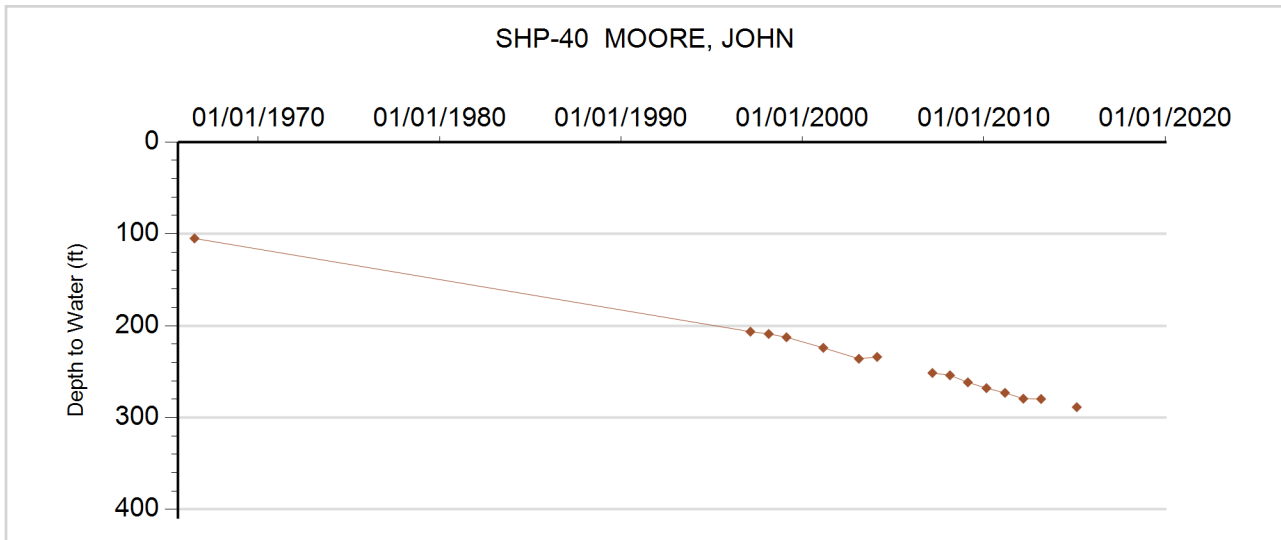
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/27/2019			
02/28/2018			
03/01/2017			
03/08/2016			
02/18/2015	288.70	3516.30	
03/19/2014			
03/02/2013	279.80	3525.20	-0.30
03/10/2012	279.50	3525.50	-6.40
03/06/2011	273.10	3531.90	-5.10
02/25/2010	268.00	3537.00	-6.30

**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: 02/27/2019  
 Number of Measurements: 21





**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
3575 N	26 W		NW	SW	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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

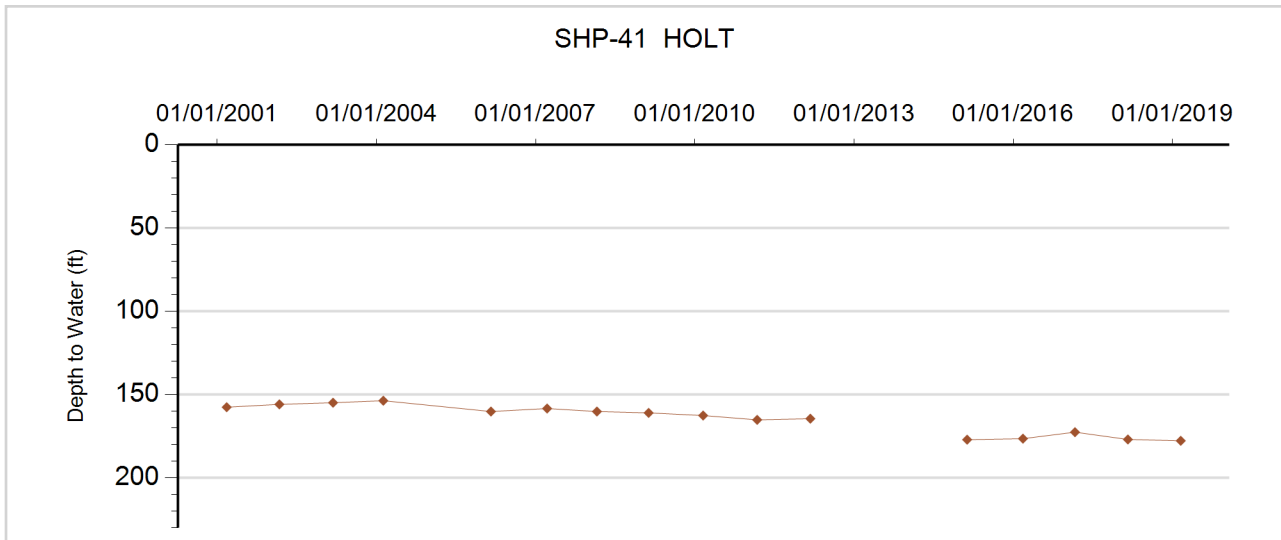
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/27/2019	177.86	3790.78	-0.80
02/28/2018	177.06	3791.58	-4.36
03/01/2017	172.70	3795.94	3.89
03/08/2016	176.59	3792.05	0.60
02/18/2015	177.19	3791.45	
03/19/2014			
03/02/2013			
03/06/2012	164.60	3804.04	0.70
03/06/2011	165.30	3803.34	-2.60
02/27/2010	162.70	3805.94	-1.60

**Construction Information**

Surface Elevation (ft): 3968.64  
 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: 02/27/2019  
 Number of Measurements: 18





**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
9 N	3184 E	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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

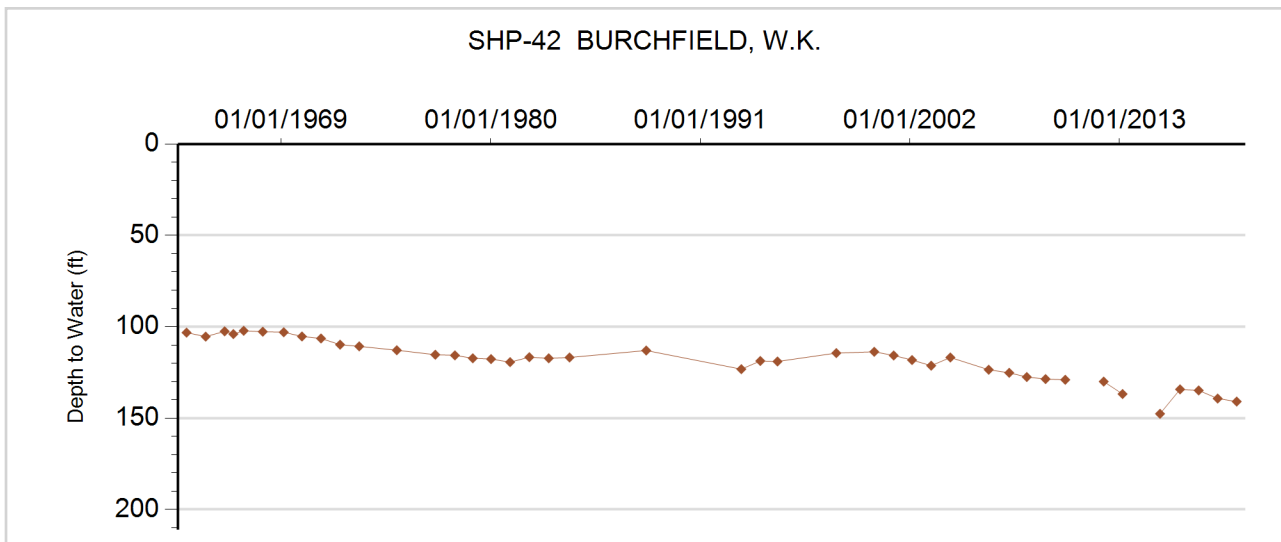
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/27/2019	140.91	3780.65	-1.64
02/28/2018	139.27	3782.29	-4.45
03/01/2017	134.82	3786.74	-0.57
03/08/2016	134.25	3787.31	13.38
02/18/2015	147.63	3773.93	
03/19/2014			
03/02/2013	136.80	3784.76	-6.80
03/06/2012	130.00	3791.56	
03/06/2011			
02/27/2010	129.00	3792.56	-0.40

**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: 02/27/2019  
 Number of Measurements: 44





**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
399 S	41 W		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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

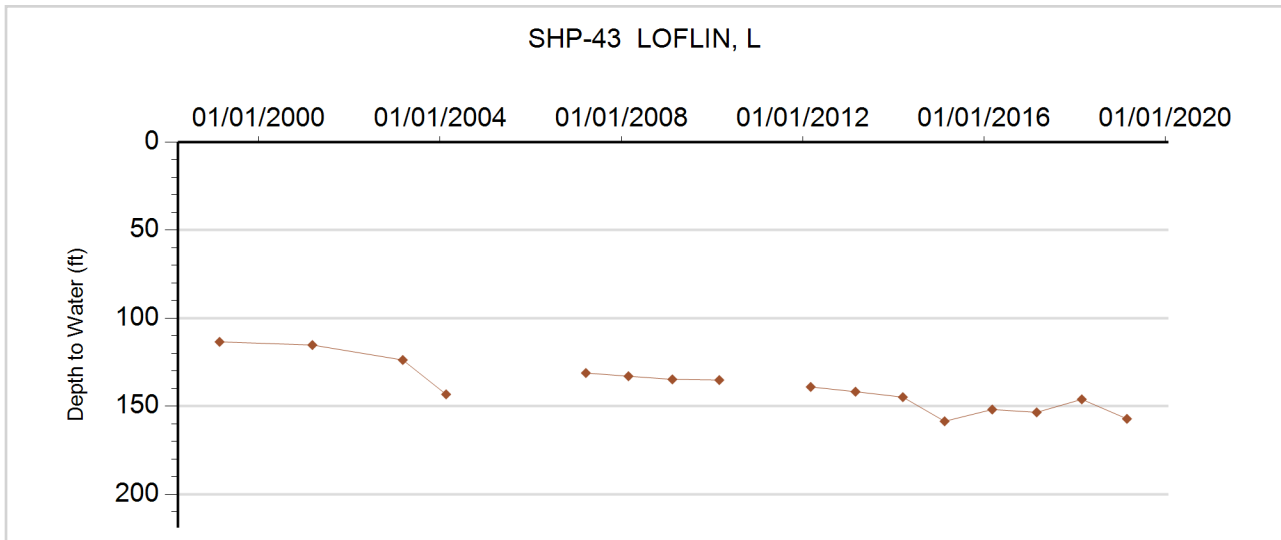
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/27/2019	157.22	3875.37	-11.08
02/28/2018	146.14	3886.45	7.39
03/01/2017	153.53	3879.06	-1.61
03/08/2016	151.92	3880.67	6.69
02/18/2015	158.61	3873.98	-13.72
03/19/2014	144.89	3887.70	-3.09
03/02/2013	141.80	3890.79	-2.70
03/06/2012	139.10	3893.49	
03/13/2011			
02/28/2010	135.20	3897.39	-0.40

**Construction Information**

Surface Elevation (ft): 4032.59  
 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: 02/27/2019  
 Number of Measurements: 18





**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
720 N	3721 E		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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

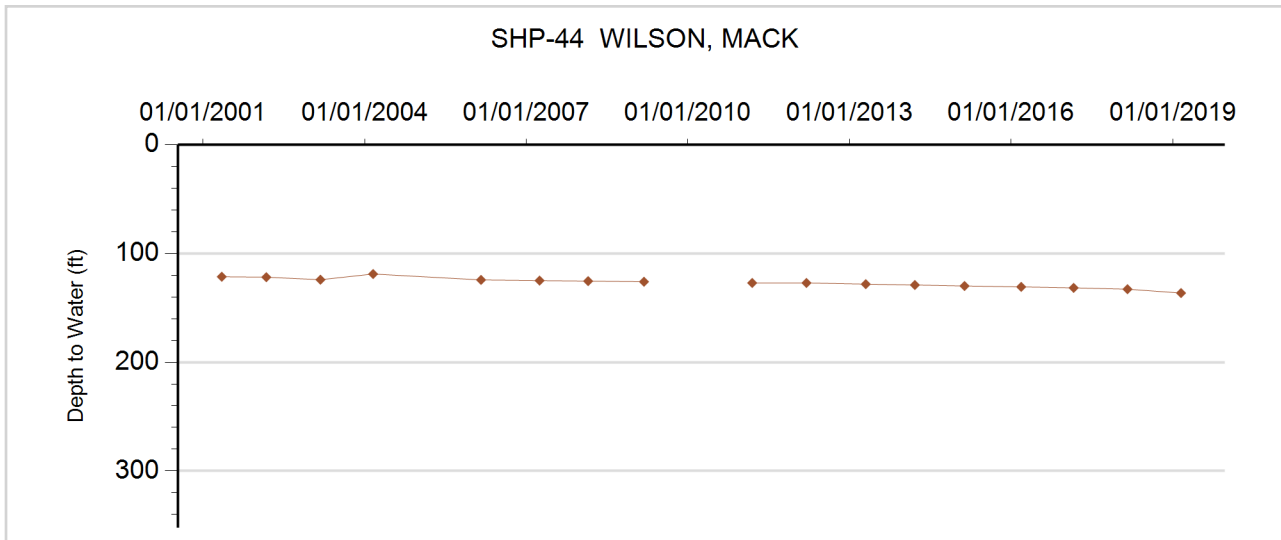
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/27/2019	136.46	4072.59	-3.54
03/01/2018	132.92	4076.13	-1.21
03/01/2017	131.71	4077.34	-0.92
03/10/2016	130.79	4078.26	-0.81
02/20/2015	129.98	4079.07	-0.91
03/20/2014	129.07	4079.98	-0.77
04/21/2013	128.30	4080.75	-1.10
03/15/2012	127.20	4081.85	0.00
03/13/2011	127.20	4081.85	
01/01/2010			

**Construction Information**

Surface Elevation (ft): 4209.05  
 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: 02/27/2019  
 Number of Measurements: 18





**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
3291 S	697 W		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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

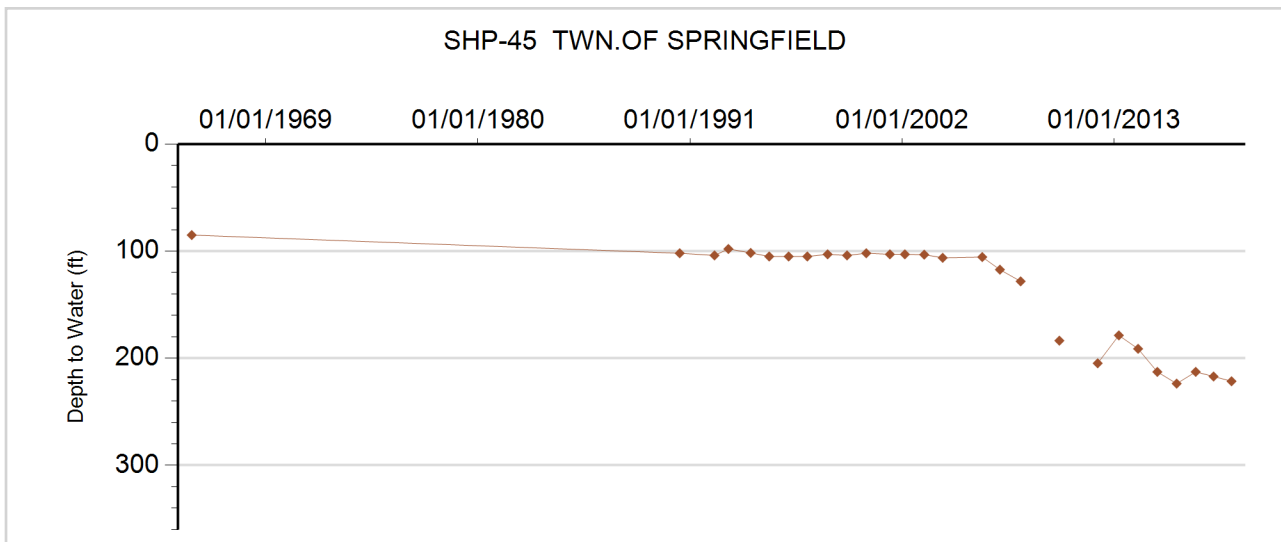
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/04/2019	221.50	4188.61	-4.46
02/28/2018	217.04	4193.07	-4.33
03/27/2017	212.71	4197.40	10.98
03/31/2016	223.69	4186.42	-10.94
03/30/2015	212.75	4197.36	-21.58
03/31/2014	191.17	4218.94	-12.50
03/31/2013	178.67	4231.44	26.03
02/25/2012	204.70	4205.41	
03/03/2011			
02/28/2010	183.60	4226.51	

**Construction Information**

Surface Elevation (ft): 4410.11  
 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: 02/04/2019  
 Number of Measurements: 29





**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
45 N	3713 W		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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

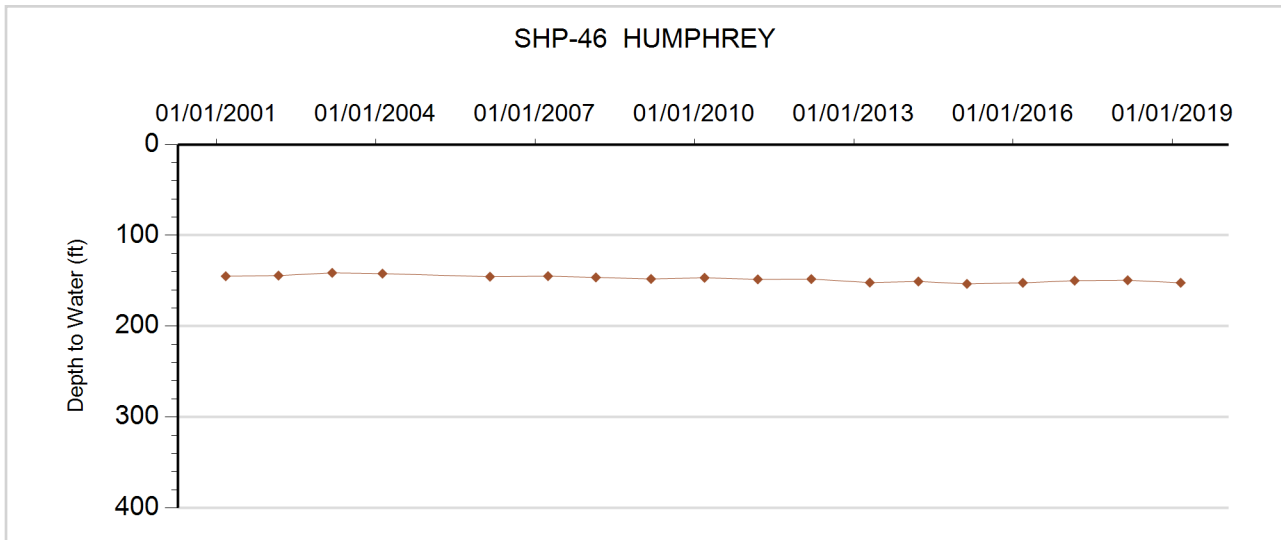
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/26/2019	152.20	4279.80	-2.78
02/27/2018	149.42	4282.58	0.47
02/27/2017	149.89	4282.11	2.35
03/08/2016	152.24	4279.76	1.16
02/18/2015	153.40	4278.60	-2.64
03/21/2014	150.76	4281.24	1.24
04/21/2013	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

**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: 02/26/2019  
 Number of Measurements: 18







**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
92 S	2687 W		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:

**Ten Most Recent Readings**

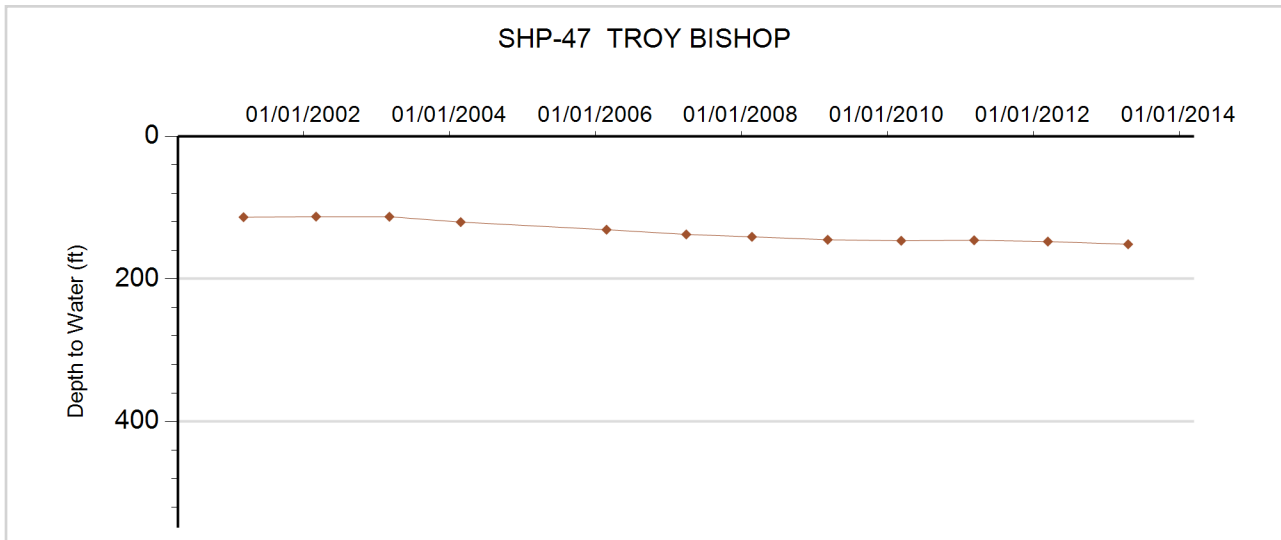
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
04/21/2013	151.40	4352.15	-3.80
03/15/2012	147.60	4355.95	-1.80
03/12/2011	145.80	4357.75	0.70
03/12/2010	146.50	4357.05	-1.40
03/09/2009	145.10	4358.45	-4.10
02/24/2008	141.00	4362.55	-3.40
04/01/2007	137.60	4365.95	-6.60
02/26/2006	131.00	4372.55	-10.70
02/27/2004	120.30	4383.25	-7.50
03/07/2003	112.80	4390.75	-0.20

**Construction Information**

Surface Elevation (ft): 4503.55  
 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
3790 N	2896 E	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:

**Ten Most Recent Readings**

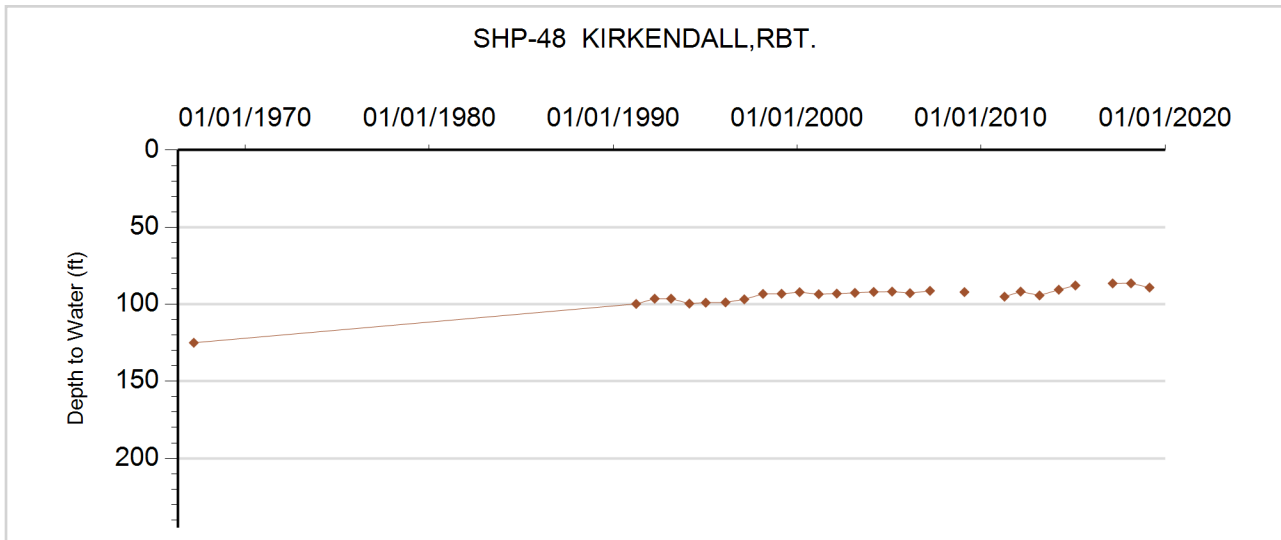
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/28/2019	89.18	4648.82	-2.73
02/26/2018	86.45	4651.55	0.05
02/27/2017	86.50	4651.50	
03/08/2016			
02/18/2015	87.83	4650.17	2.75
03/25/2014	90.58	4647.42	3.72
03/08/2013	94.30	4643.70	-2.50
02/26/2012	91.80	4646.20	3.30
04/12/2011	95.10	4642.90	
02/24/2010			

**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: 02/28/2019  
 Number of Measurements: 30





**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:

**Ten Most Recent Readings**

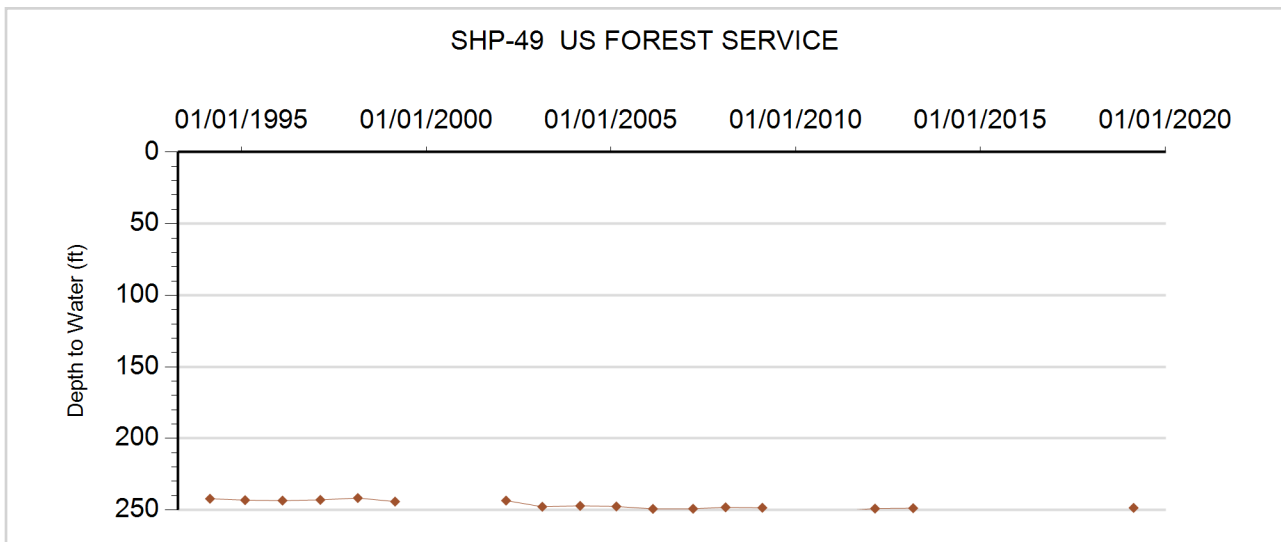
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/25/2019	248.59	4944.41	
02/26/2018			
02/27/2017			
03/07/2016			
02/17/2015			
03/25/2014			
03/08/2013	248.80	4944.20	0.30
02/25/2012	249.10	4943.90	1.40
04/13/2011	250.50	4942.50	
01/01/2010			

**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: 02/25/2019  
 Number of Measurements: 26





**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
2648 S	36 W	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:    SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

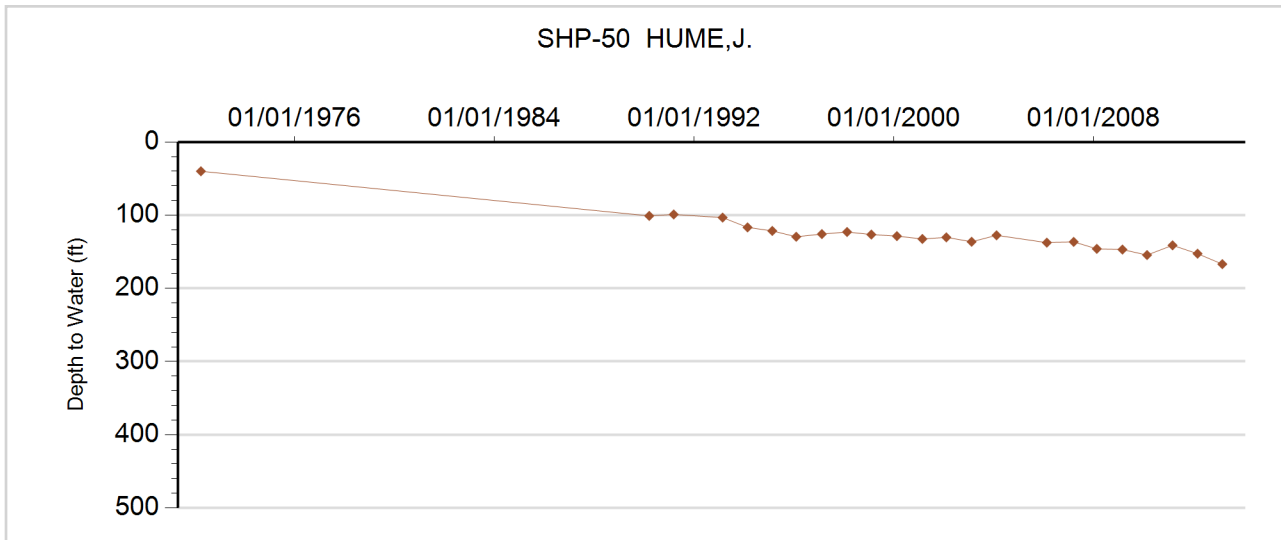
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
03/03/2013	166.90	3526.91	-14.30
03/06/2012	152.60	3541.21	-11.40
03/06/2011	141.20	3552.61	13.30
02/26/2010	154.50	3539.31	-7.50
03/03/2009	147.00	3546.81	-1.00
02/22/2008	146.00	3547.81	-9.50
03/21/2007	136.50	3557.31	1.00
02/21/2006	137.50	3556.31	-10.00
02/16/2004	127.50	3566.31	8.80
02/17/2003	136.30	3557.51	-6.00

**Construction Information**

Surface Elevation (ft):                      3693.81  
 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
1258 S	3446 E		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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

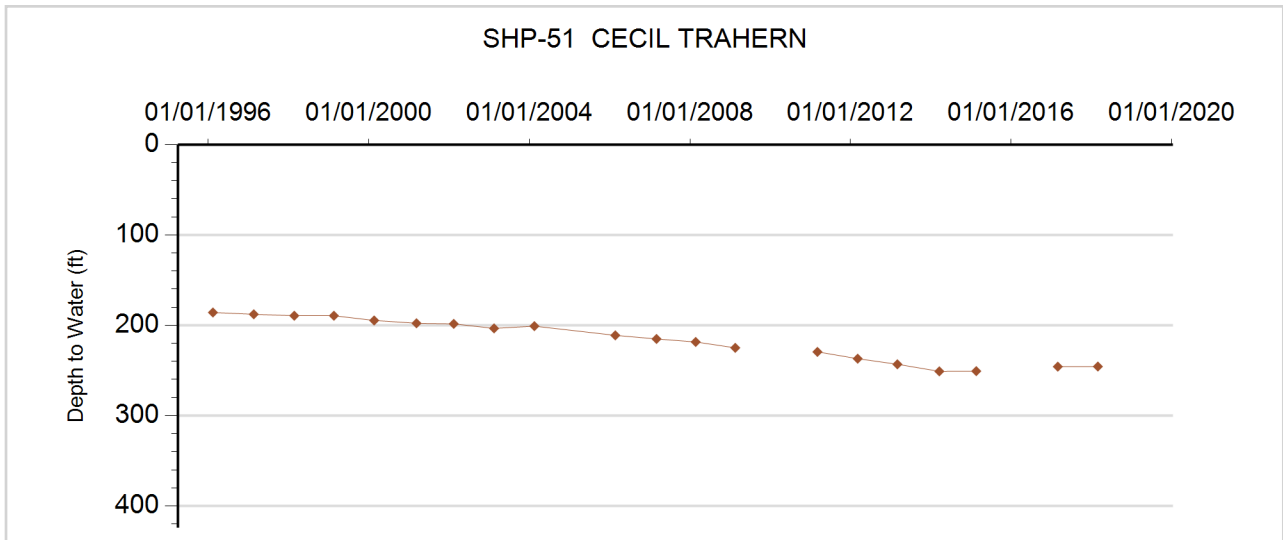
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/27/2019			
02/28/2018	245.70	3854.30	0.13
03/01/2017	245.83	3854.17	
03/08/2016			
02/18/2015	250.79	3849.21	0.22
03/19/2014	251.01	3848.99	-7.81
03/02/2013	243.20	3856.80	-6.20
03/06/2012	237.00	3863.00	-7.50
03/06/2011	229.50	3870.50	
01/01/2010			

**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: 02/27/2019  
 Number of Measurements: 23





**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
4006 N	1272 W		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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

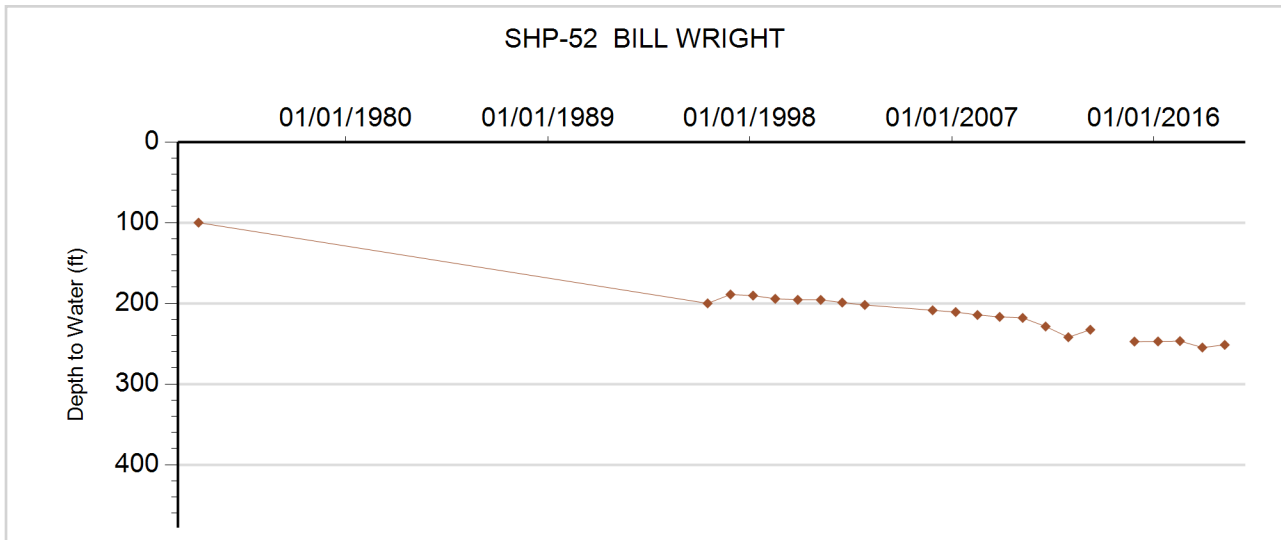
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/27/2019	251.48	3580.04	3.27
02/28/2018	254.75	3576.77	-8.01
03/01/2017	246.74	3584.78	0.48
03/08/2016	247.22	3584.30	0.10
02/18/2015	247.32	3584.20	
03/19/2014			
03/02/2013	232.70	3598.82	9.30
03/10/2012	242.00	3589.52	-13.30
03/06/2011	228.70	3602.82	-10.70
02/26/2010	218.00	3613.52	-1.20

**Construction Information**

Surface Elevation (ft): 3831.52  
 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: 02/27/2019  
 Number of Measurements: 23





**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
1065 S	2643 W	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:    SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

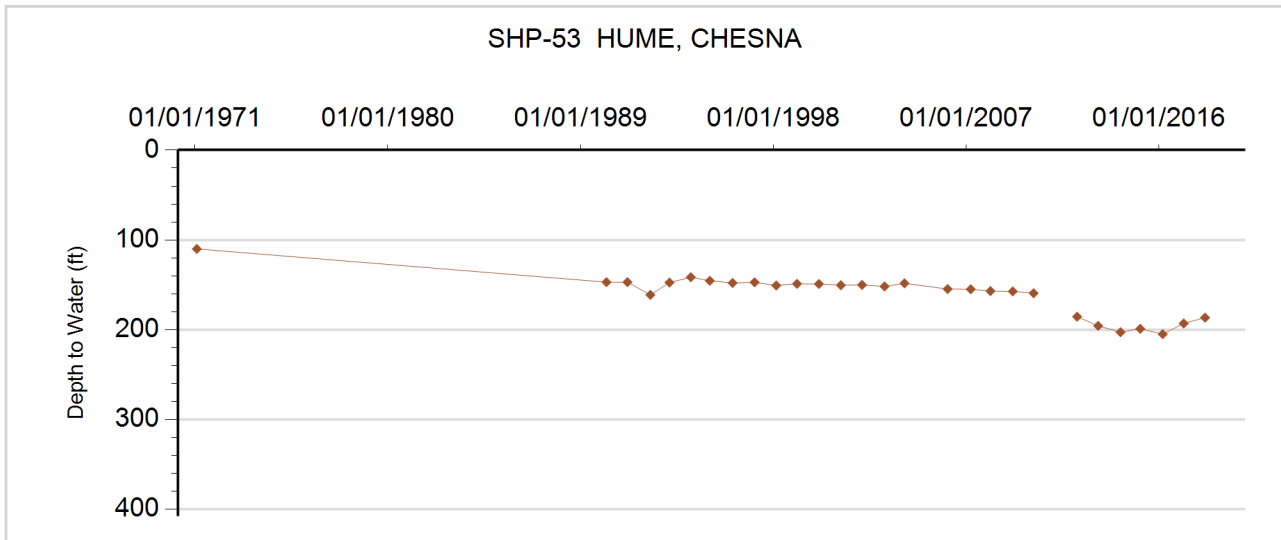
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/26/2019			
02/28/2018	186.55	3574.18	6.44
02/28/2017	192.99	3567.74	11.95
03/08/2016	204.94	3555.79	-6.00
02/18/2015	198.94	3561.79	3.82
03/19/2014	202.76	3557.97	-7.06
03/03/2013	195.70	3565.03	-10.20
03/09/2012	185.50	3575.23	
03/06/2011			
02/26/2010	159.30	3601.43	-2.00

**Construction Information**

Surface Elevation (ft):                      3760.73  
 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: 02/26/2019  
 Number of Measurements: 30





**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
3951 S	2672 W		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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

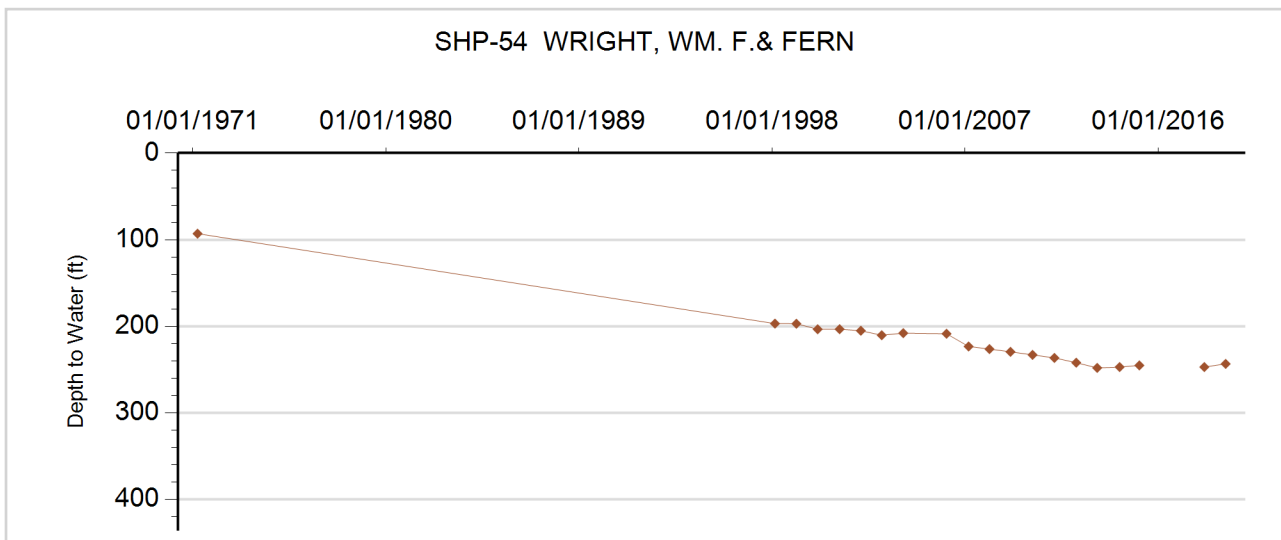
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/27/2019	243.38	3594.62	3.67
02/28/2018	247.05	3590.95	
03/01/2017			
03/08/2016			
02/18/2015	245.14	3592.86	1.89
03/19/2014	247.03	3590.97	0.97
03/02/2013	248.00	3590.00	-6.00
03/10/2012	242.00	3596.00	-5.50
03/05/2011	236.50	3601.50	-3.50
02/26/2010	233.00	3605.00	-3.50

**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: 02/27/2019  
 Number of Measurements: 22







**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
59 S	3861 E	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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

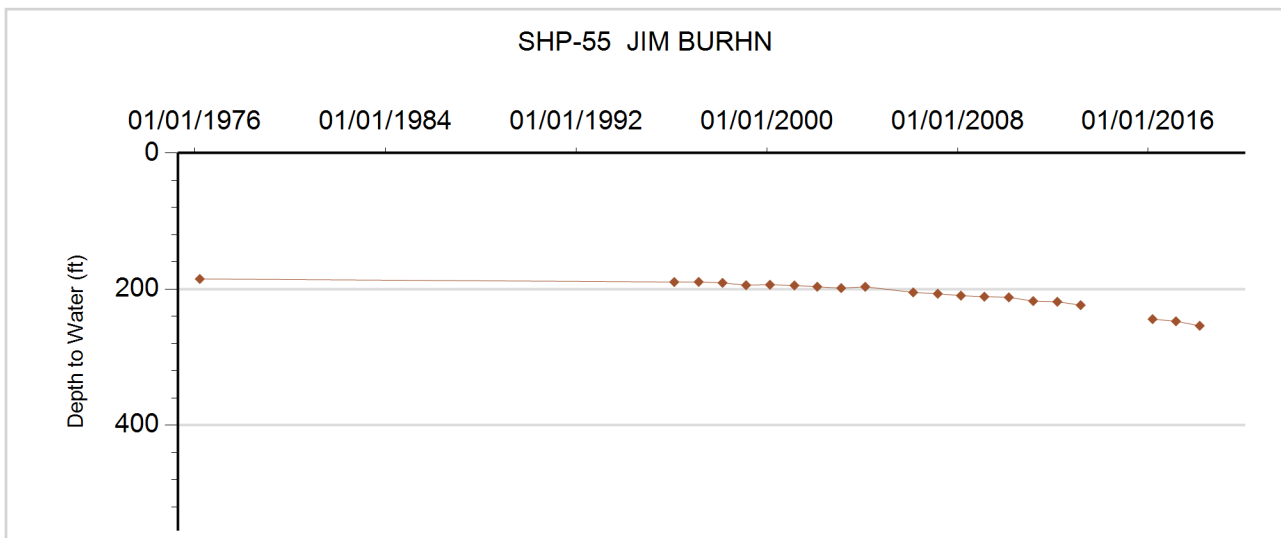
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/27/2019			
02/28/2018	253.77	3584.23	-6.56
03/01/2017	247.21	3590.79	-3.16
03/08/2016	244.05	3593.95	
02/18/2015			
03/19/2014			
03/02/2013	223.50	3614.50	-5.00
03/10/2012	218.50	3619.50	-1.00
03/06/2011	217.50	3620.50	-5.50
02/26/2010	212.00	3626.00	-1.00

**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: 02/27/2019  
 Number of Measurements: 24





**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
120 S	3708 W	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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

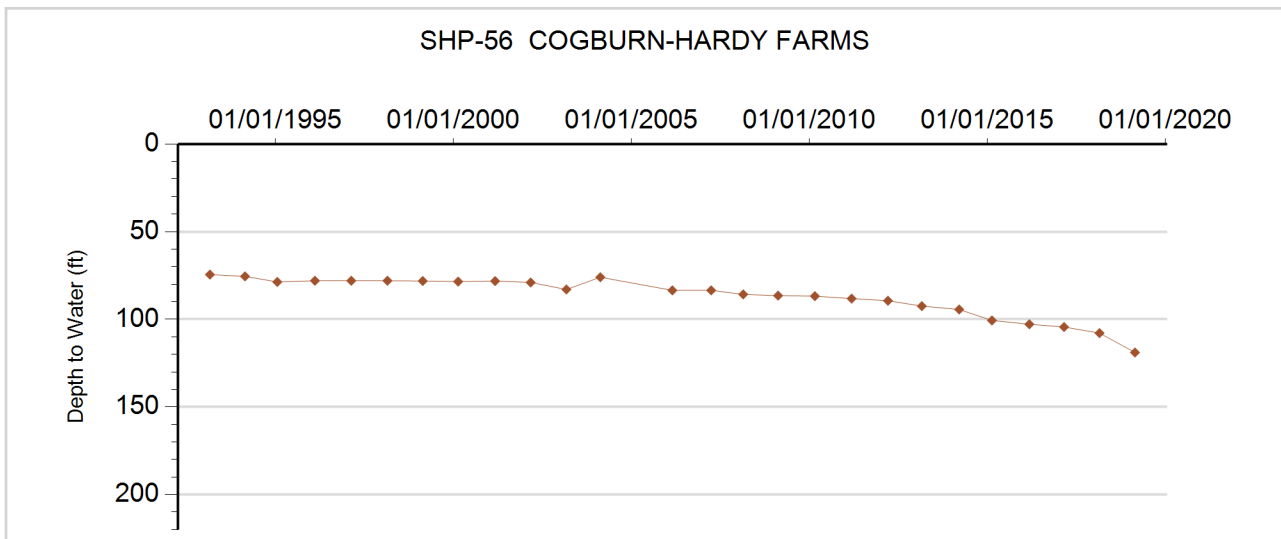
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/26/2019	118.93	4009.77	-11.05
02/27/2018	107.88	4020.82	-3.48
02/28/2017	104.40	4024.30	-1.56
03/09/2016	102.84	4025.86	-2.18
02/19/2015	100.66	4028.04	-6.25
03/20/2014	94.41	4034.29	-1.91
03/02/2013	92.50	4036.20	-3.10
03/19/2012	89.40	4039.30	-1.20
03/12/2011	88.20	4040.50	-1.40
02/28/2010	86.80	4041.90	-0.30

**Construction Information**

Surface Elevation (ft): 4128.70  
 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: 02/26/2019  
 Number of Measurements: 26





**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
317 S	3309 W	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:    SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

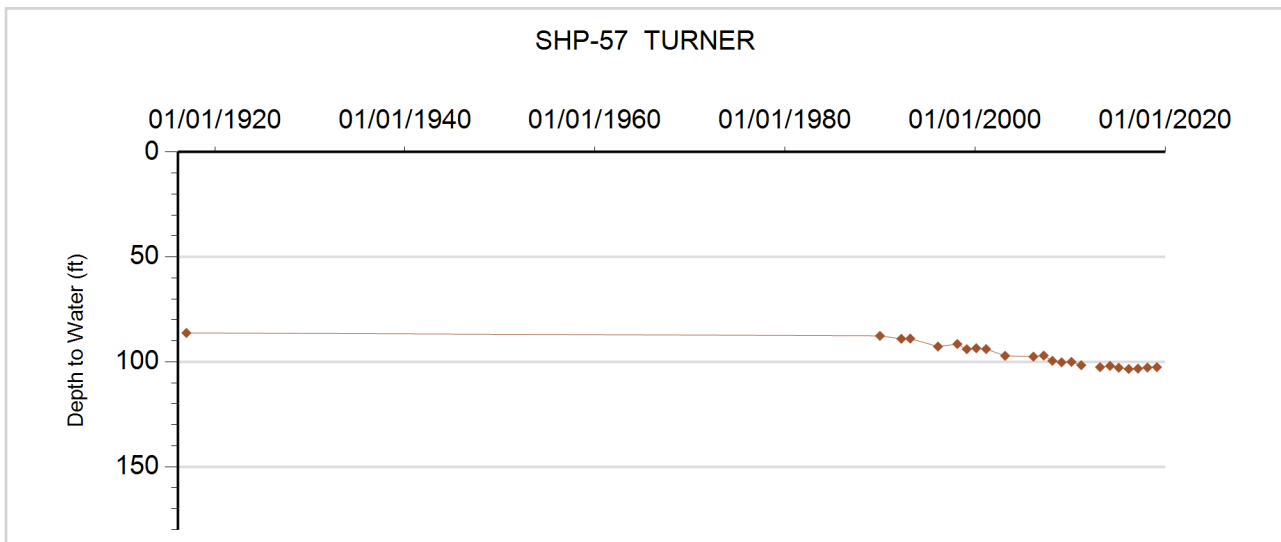
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/26/2019	102.52	4076.83	0.18
02/27/2018	102.70	4076.65	0.51
02/28/2017	103.21	4076.14	0.17
03/09/2016	103.38	4075.97	-0.58
02/19/2015	102.80	4076.55	-0.88
03/20/2014	101.92	4077.43	0.58
03/03/2013	102.50	4076.85	
03/19/2012			
03/12/2011	101.60	4077.75	-1.60
02/28/2010	100.00	4079.35	0.20

**Construction Information**

Surface Elevation (ft):                                      4179.35  
 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: 02/26/2019  
 Number of Measurements: 24





**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
3593 S	3290 W	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:    SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

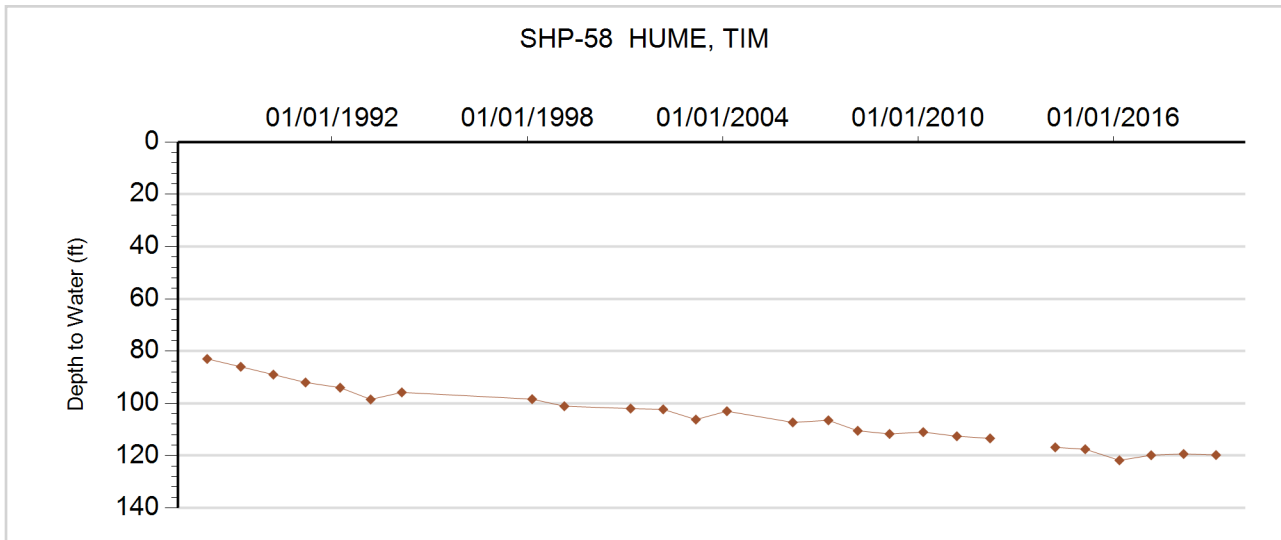
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/26/2019	119.77	4065.06	-0.39
02/27/2018	119.38	4065.45	0.47
02/28/2017	119.85	4064.98	1.95
03/09/2016	121.80	4063.03	-4.25
02/19/2015	117.55	4067.28	-0.72
03/20/2014	116.83	4068.00	
03/02/2013			
03/19/2012	113.40	4071.43	-0.80
03/12/2011	112.60	4072.23	-1.60
02/28/2010	111.00	4073.83	0.70

**Construction Information**

Surface Elevation (ft):                    4184.83  
 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: 02/26/2019  
 Number of Measurements: 27





**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
186 S	1176 W		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:

**Ten Most Recent Readings**

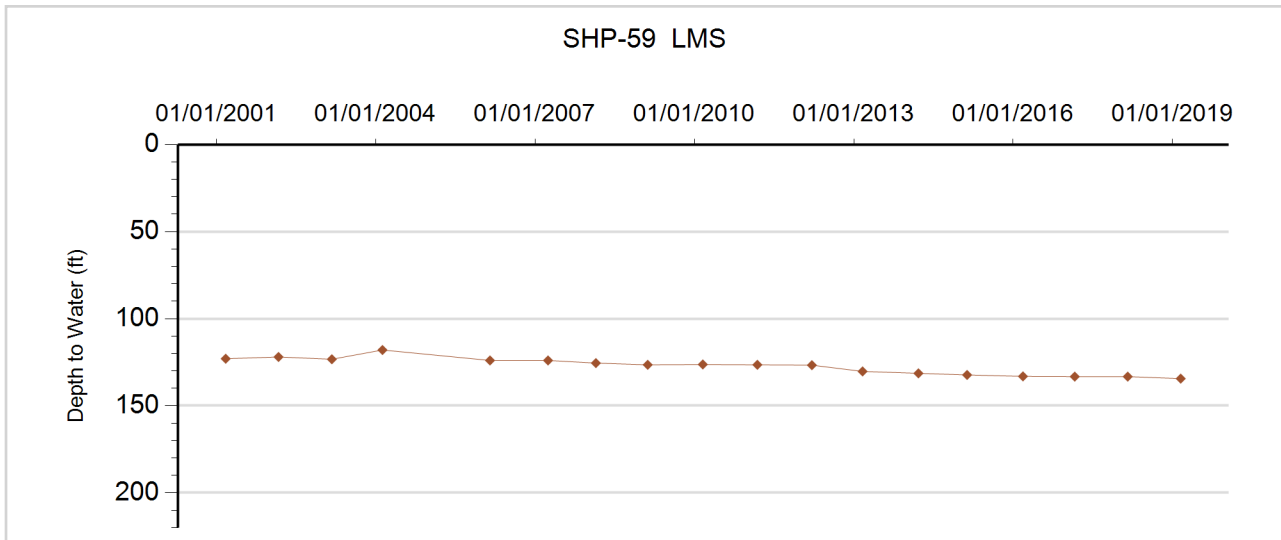
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/26/2019	134.42	4208.90	-1.13
02/27/2018	133.29	4210.03	-0.02
02/28/2017	133.27	4210.05	-0.13
03/09/2016	133.14	4210.18	-0.83
02/19/2015	132.31	4211.01	-0.91
03/21/2014	131.40	4211.92	-1.10
03/02/2013	130.30	4213.02	-3.60
03/19/2012	126.70	4216.62	-0.20
03/10/2011	126.50	4216.82	-0.20
02/28/2010	126.30	4217.02	0.20

**Construction Information**

Surface Elevation (ft): 4343.32  
 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: 02/26/2019  
 Number of Measurements: 18





**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
1273 N	14 E	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:    SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

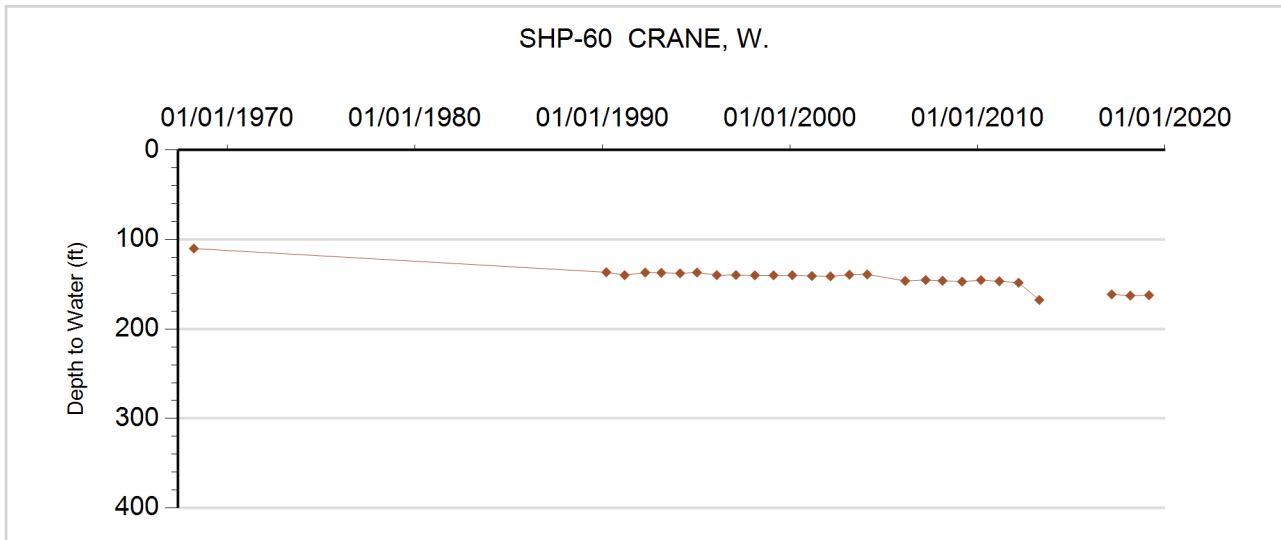
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/26/2019	162.20	4241.80	0.41
02/27/2018	162.61	4241.39	-1.38
02/28/2017	161.23	4242.77	
03/09/2016			
02/19/2015			
03/20/2014			
04/21/2013	167.50	4236.50	-19.30
03/15/2012	148.20	4255.80	-1.60
03/05/2011	146.60	4257.40	-1.30
03/12/2010	145.30	4258.70	1.70

**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: 02/26/2019  
 Number of Measurements: 30





**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
3764 S	2832 W		SW	NE	32	32.0 S	47.0 W	S	701199.0	4121354.3	GPS

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

**Ten Most Recent Readings**

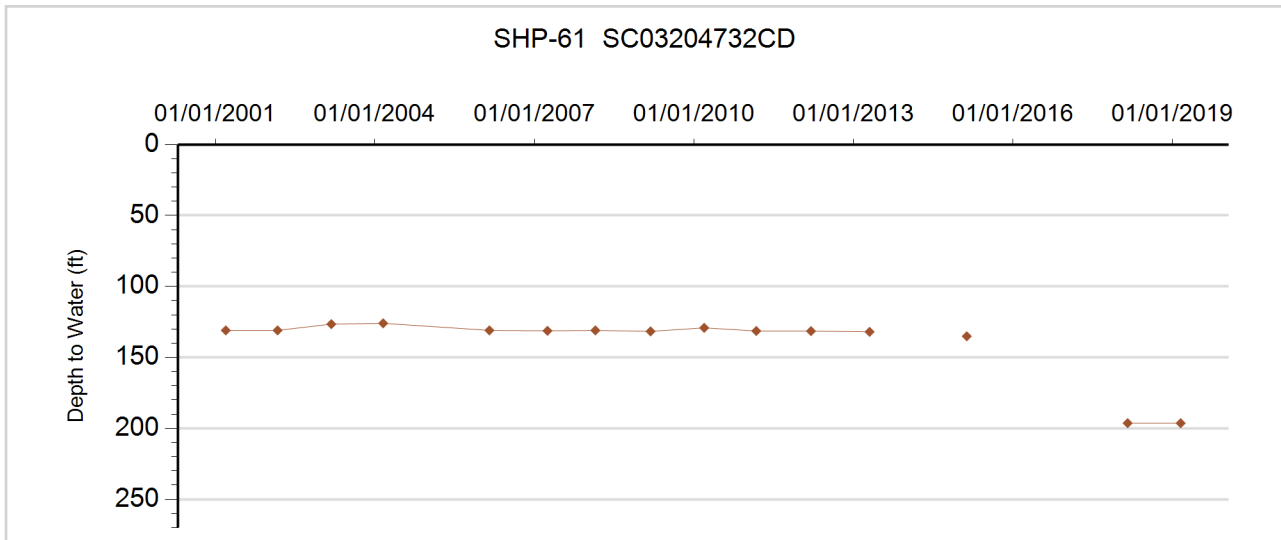
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/26/2019	196.39	4378.61	-0.04
02/27/2018	196.35	4378.65	
02/27/2017			
03/08/2016			
02/18/2015	135.14	4439.86	
03/26/2014			
04/21/2013	132.00	4443.00	-0.50
03/15/2012	131.50	4443.50	-0.10
03/05/2011	131.40	4443.60	-2.20
03/12/2010	129.20	4445.80	2.50

**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: 02/26/2019  
 Number of Measurements: 18





**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
3119 N	30 W	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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

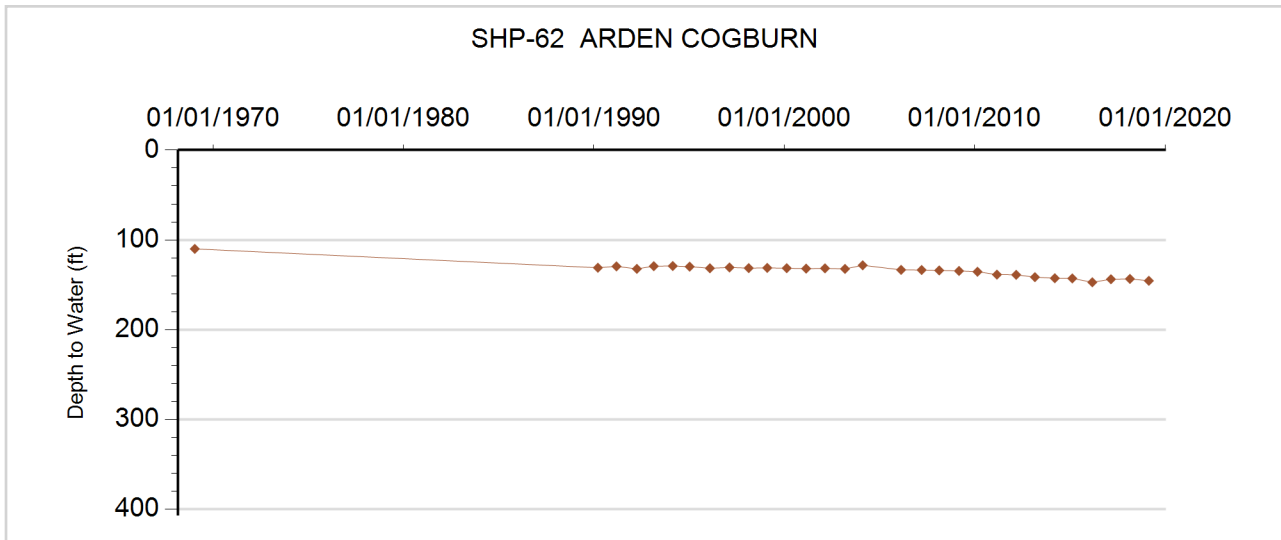
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/26/2019	145.55	3609.45	-2.10
02/27/2018	143.45	3611.55	0.37
02/28/2017	143.82	3611.18	3.40
03/08/2016	147.22	3607.78	-4.28
02/18/2015	142.94	3612.06	-0.25
03/19/2014	142.69	3612.31	-1.19
03/03/2013	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

**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: 02/26/2019  
 Number of Measurements: 30







**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
516 S	2669 W		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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

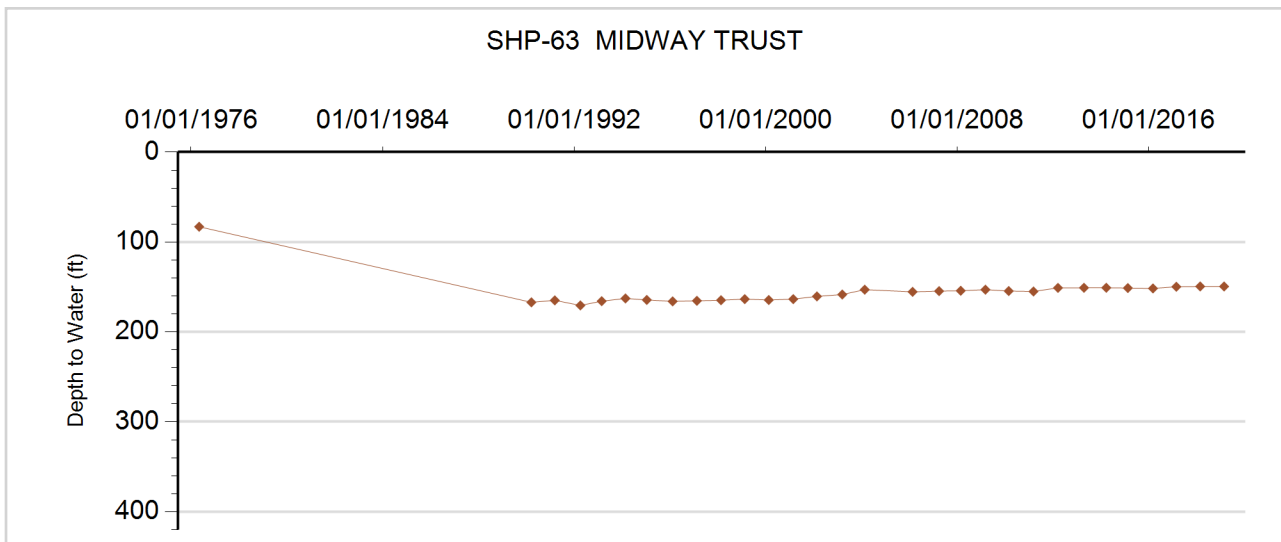
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/26/2019	149.46	3730.54	-0.07
02/27/2018	149.39	3730.61	0.38
02/28/2017	149.77	3730.23	1.84
03/08/2016	151.61	3728.39	-0.43
02/18/2015	151.18	3728.82	-0.32
03/26/2014	150.86	3729.14	0.04
04/20/2013	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

**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: 02/26/2019  
 Number of Measurements: 30





**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
2762 N	27 E		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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

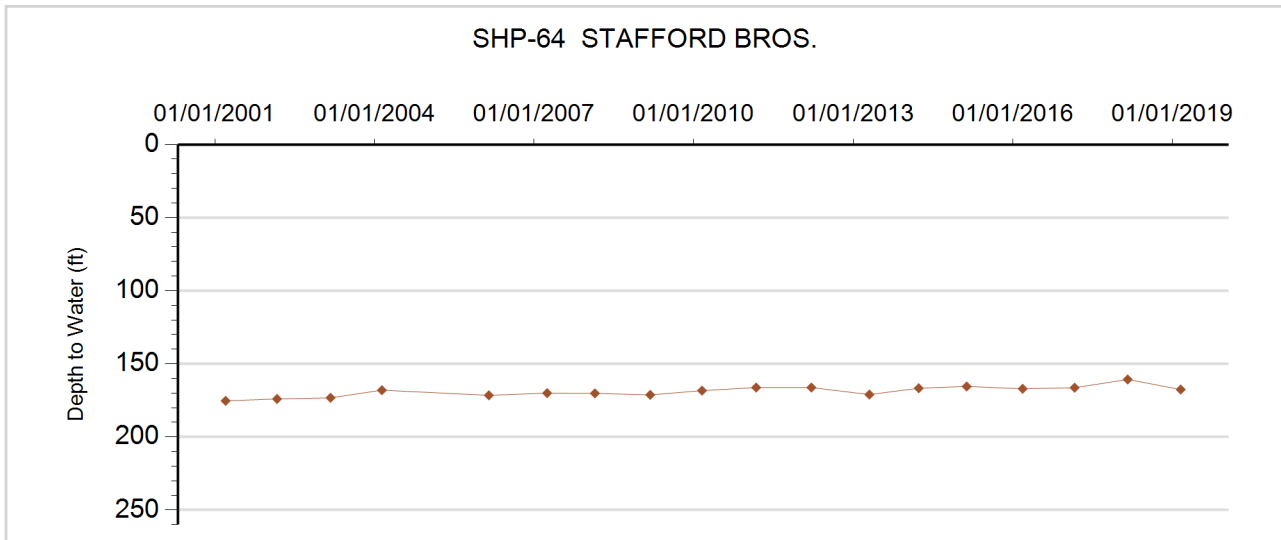
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/26/2019	167.53	3817.47	-6.86
02/27/2018	160.67	3824.33	5.65
02/28/2017	166.32	3818.68	0.74
03/08/2016	167.06	3817.94	-1.61
02/18/2015	165.45	3819.55	1.22
03/26/2014	166.67	3818.33	4.33
04/21/2013	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

**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: 02/26/2019  
 Number of Measurements: 18





**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
2691 N	1045 W	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: SOUTHERN HIGH PLAINS

**Ten Most Recent Readings**

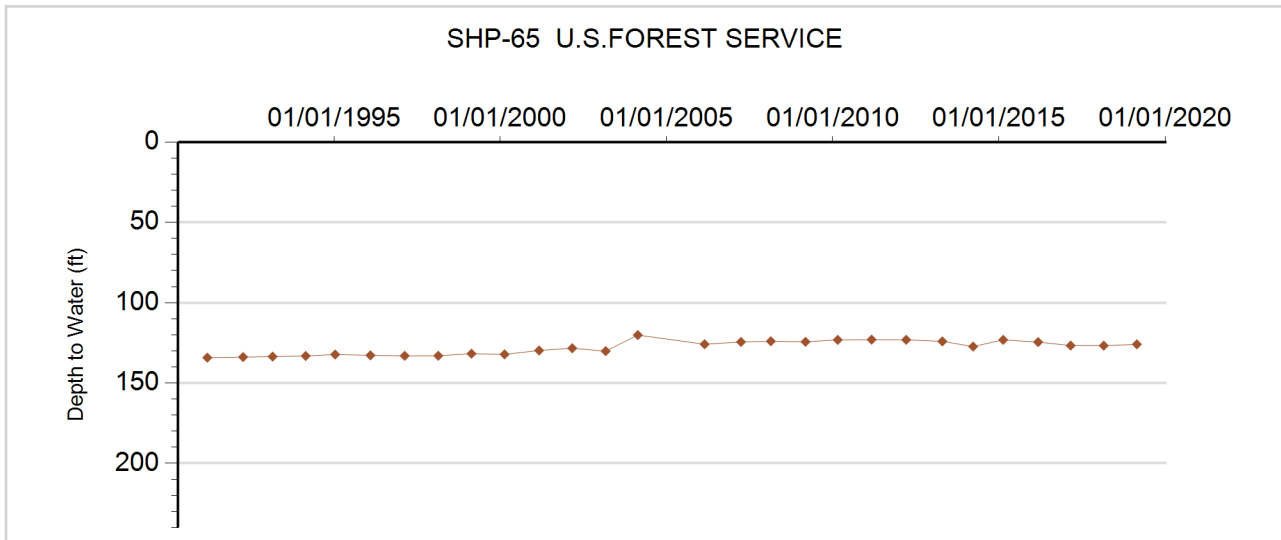
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/26/2019	125.90	4004.10	0.85
02/27/2018	126.75	4003.25	-0.08
02/28/2017	126.67	4003.33	-2.16
03/08/2016	124.51	4005.49	-1.36
02/18/2015	123.15	4006.85	4.15
03/25/2014	127.30	4002.70	-3.20
04/21/2013	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

**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: 02/26/2019  
 Number of Measurements: 28





**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
421 S	151 E		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:

**Ten Most Recent Readings**

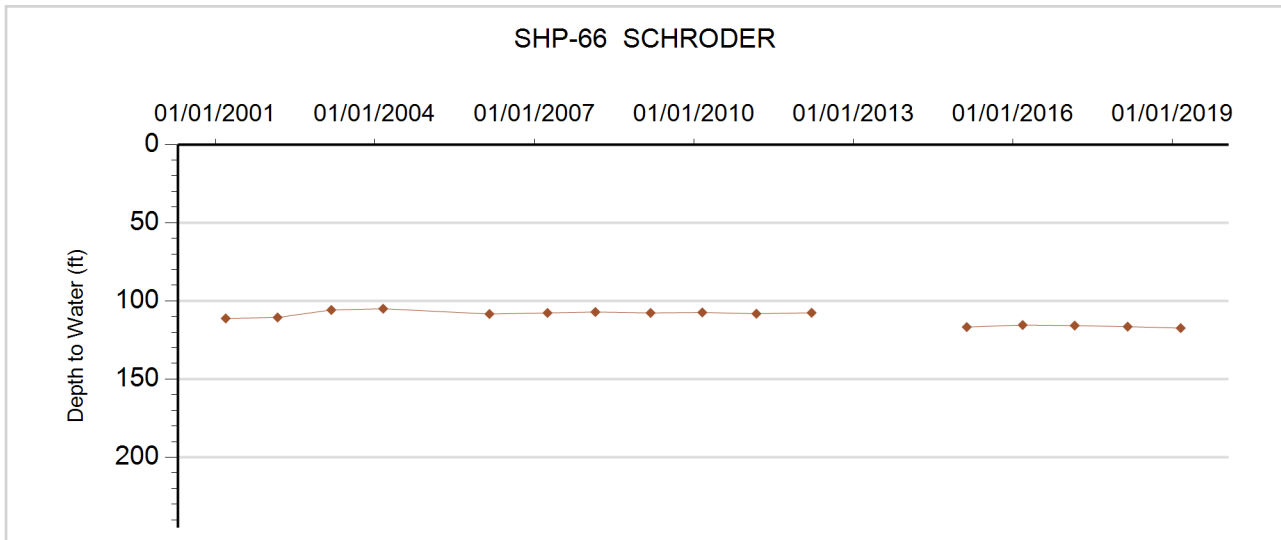
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/26/2019	117.40	4082.60	-0.93
02/27/2018	116.47	4083.53	-0.68
02/28/2017	115.79	4084.21	-0.36
03/08/2016	115.43	4084.57	1.31
02/18/2015	116.74	4083.26	
03/25/2014			
04/20/2013			
03/19/2012	107.60	4092.40	0.60
03/06/2011	108.20	4091.80	-0.80
02/27/2010	107.40	4092.60	0.30

**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: 02/26/2019  
 Number of Measurements: 18





**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
147 N	524 W	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:

**Ten Most Recent Readings**

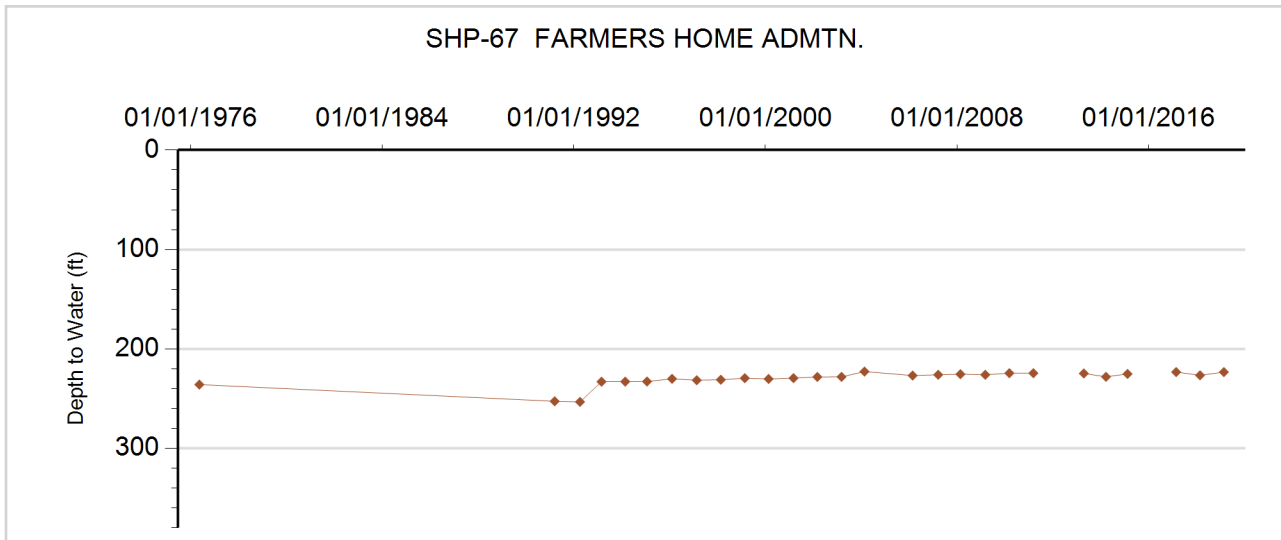
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/26/2019	223.43	4116.57	3.20
02/27/2018	226.63	4113.37	-3.25
02/28/2017	223.38	4116.62	
03/08/2016			
02/17/2015	225.29	4114.71	2.90
03/25/2014	228.19	4111.81	-3.39
04/21/2013	224.80	4115.20	
03/15/2012			
03/13/2011	224.50	4115.50	0.00
03/12/2010	224.50	4115.50	1.60

**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: 02/26/2019  
 Number of Measurements: 29





**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
518 N	4 E		NE	NE	25	33.0 S	47.0 W	S	708573.8	4113809.5	GPS

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

**Ten Most Recent Readings**

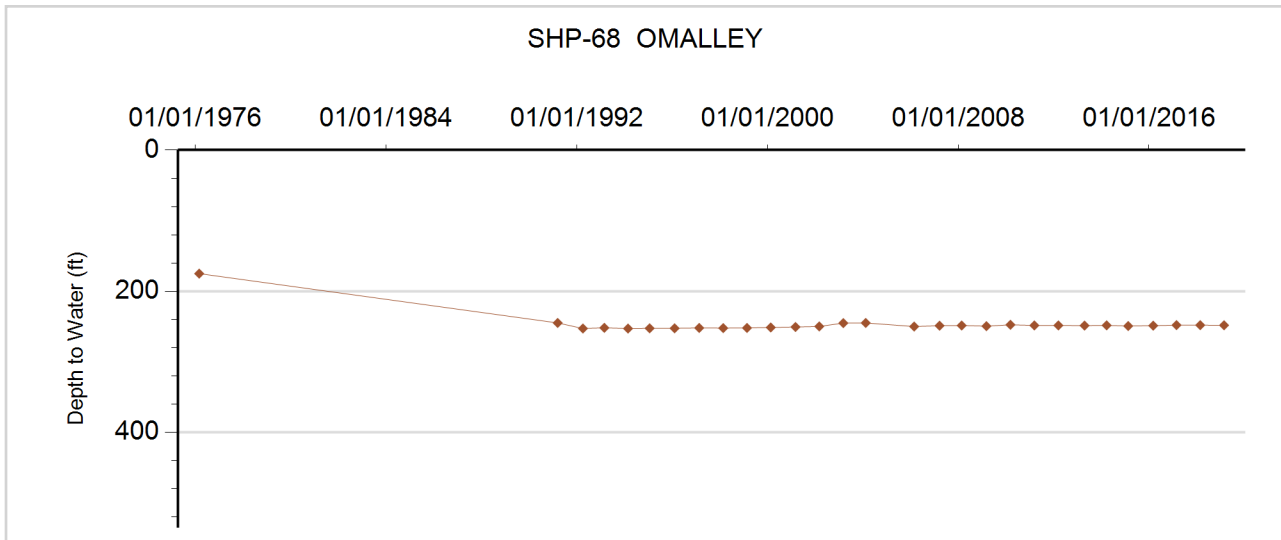
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/26/2019	248.17	4186.83	-0.18
02/26/2018	247.99	4187.01	-0.05
02/27/2017	247.94	4187.06	0.77
03/08/2016	248.71	4186.29	0.54
02/18/2015	249.25	4185.75	-0.96
03/25/2014	248.29	4186.71	0.31
04/20/2013	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

**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: 02/26/2019  
 Number of Measurements: 29





**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
3539 N	2841 E	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:

**Ten Most Recent Readings**

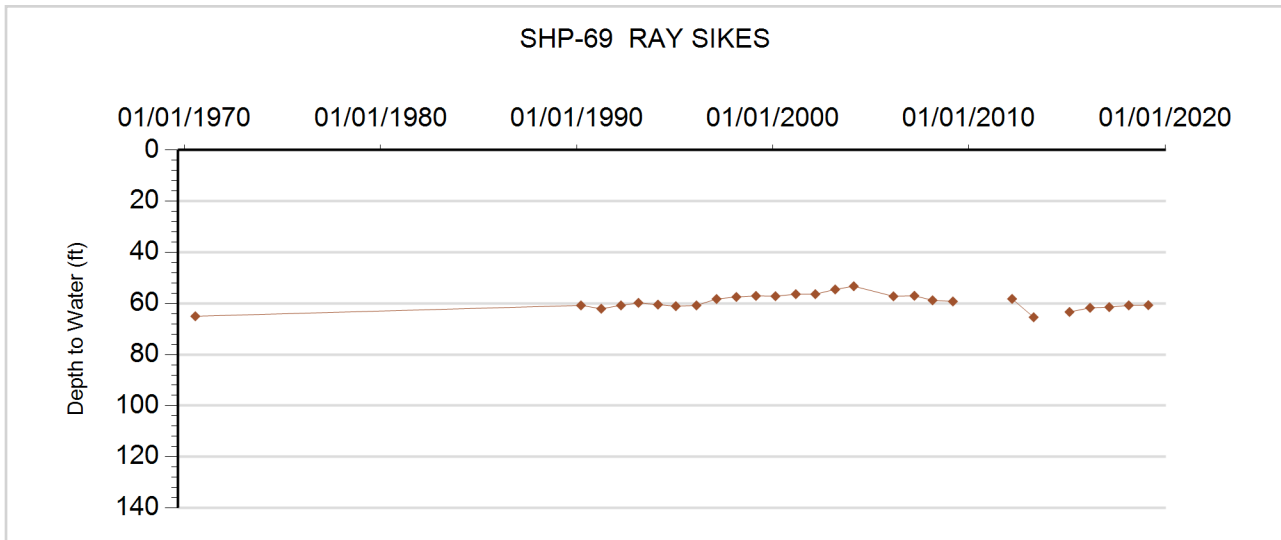
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/25/2019	60.67	4940.33	0.07
02/26/2018	60.74	4940.26	0.69
02/27/2017	61.43	4939.57	0.26
03/07/2016	61.69	4939.31	1.63
02/17/2015	63.32	4937.68	
03/25/2014			
04/20/2013	65.40	4935.60	-7.20
03/15/2012	58.20	4942.80	
03/13/2011			
03/09/2009	59.20	4941.80	-0.45

**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: 02/25/2019  
 Number of Measurements: 29





**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
968 N	19 E		NE	NE	21	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:

**Ten Most Recent Readings**

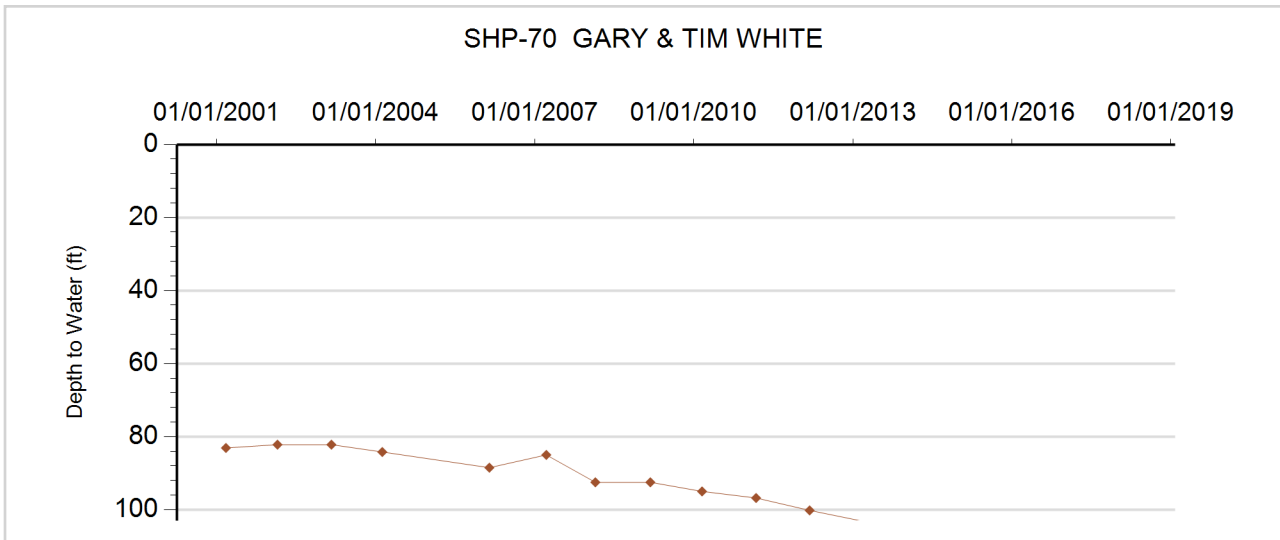
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/27/2018			
02/28/2017			
03/25/2014			
03/03/2013	103.10	3398.42	-2.90
03/09/2012	100.20	3401.32	-3.40
03/06/2011	96.80	3404.72	-1.80
02/27/2010	95.00	3406.52	-2.50
03/08/2009	92.50	3409.02	0.00
02/23/2008	92.50	3409.02	-7.50
03/22/2007	85.00	3416.52	3.50

**Construction Information**

Surface Elevation (ft): 3501.52  
 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	750268.9	4111272.5	Spotted from quarters

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

**Ten Most Recent Readings**

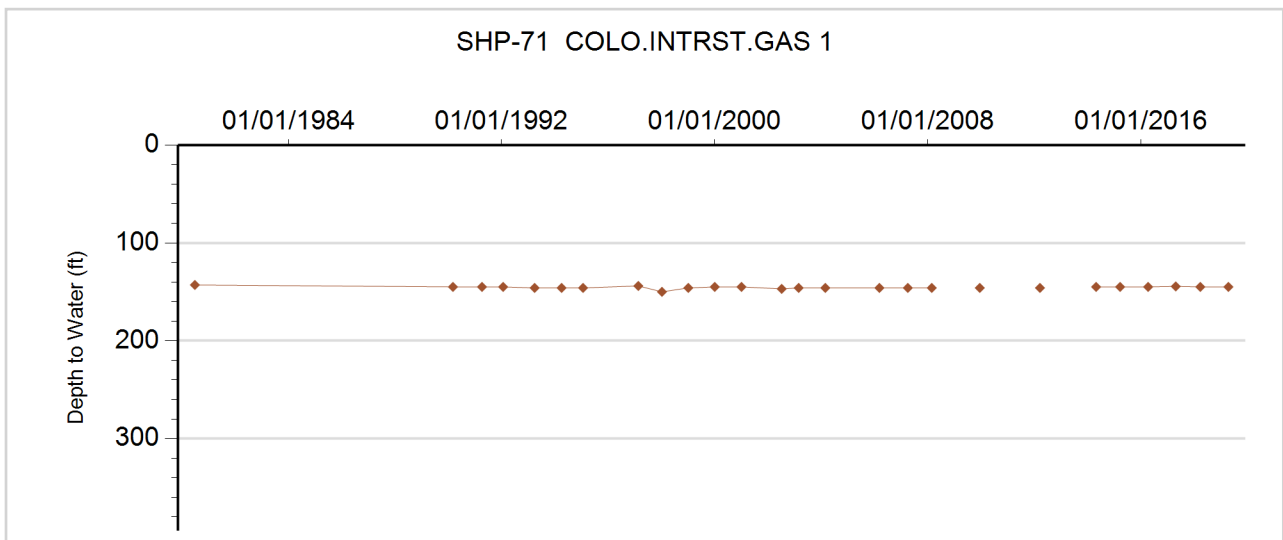
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
04/18/2019	145.00	3683.00	0.00
03/29/2018	145.00	3683.00	-0.50
04/26/2017	144.50	3683.50	0.50
04/12/2016	145.00	3683.00	0.00
03/25/2015	145.00	3683.00	0.00
04/30/2014	145.00	3683.00	
03/01/2013			
03/21/2012	146.00	3682.00	
03/03/2011			
12/16/2009	146.00	3682.00	

**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: 04/18/2019  
 Number of Measurements: 29





**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	750268.9	4111272.5	Spotted from quarters

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

**Ten Most Recent Readings**

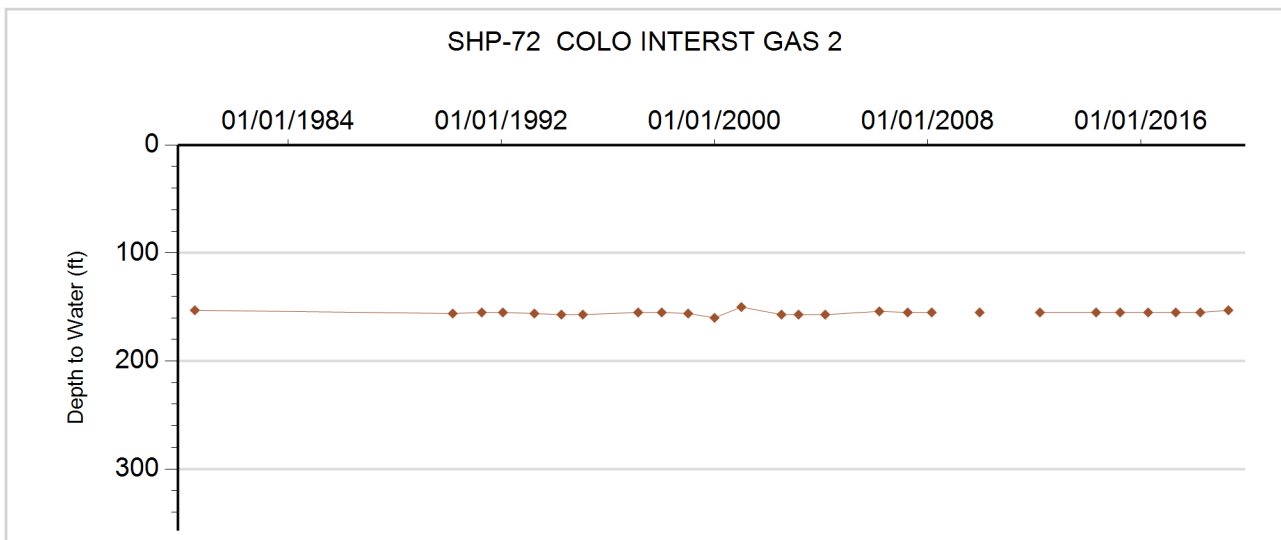
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
04/18/2019	153.00	3673.00	2.00
03/29/2018	155.00	3671.00	0.00
04/26/2017	155.00	3671.00	0.00
04/12/2016	155.00	3671.00	0.00
03/25/2015	155.00	3671.00	0.00
04/30/2014	155.00	3671.00	0.00
03/21/2012	155.00	3671.00	
03/03/2011			
12/16/2009	155.00	3671.00	
01/01/2009			

**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: 04/18/2019  
 Number of Measurements: 28





**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
3596 N	809 E	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:

**Ten Most Recent Readings**

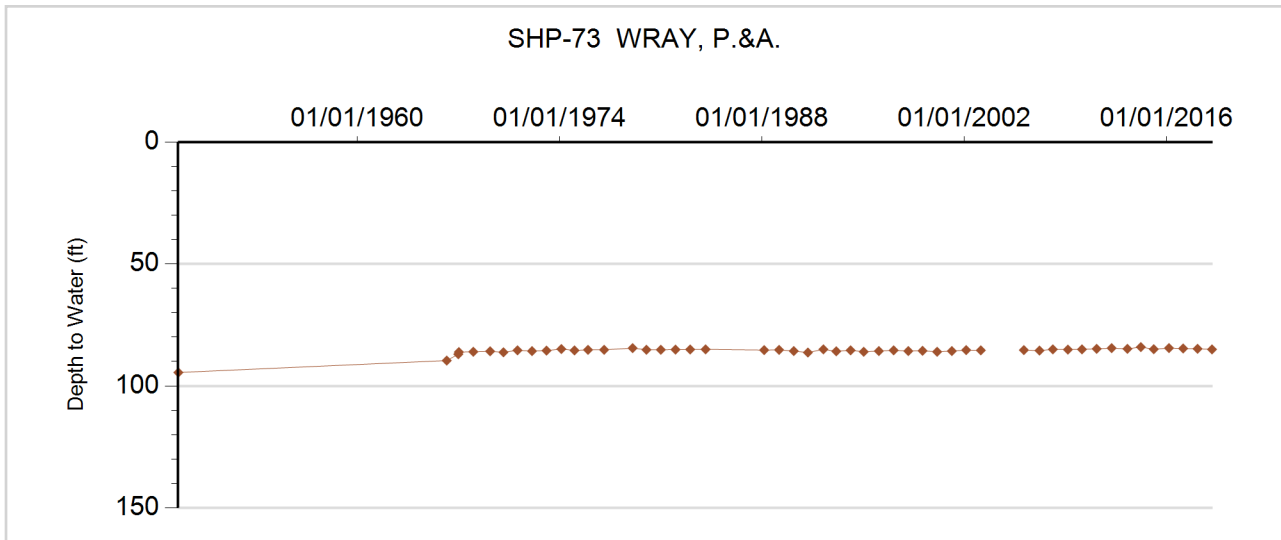
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/26/2019	85.02	3674.57	-0.25
02/27/2018	84.77	3674.82	-0.12
02/28/2017	84.65	3674.94	-0.16
03/07/2016	84.49	3675.10	0.45
02/17/2015	84.94	3674.65	-0.87
03/26/2014	84.07	3675.52	0.73
04/20/2013	84.80	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

**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: 02/26/2019  
 Number of Measurements: 51





**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
3875 S	3838 W		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:

**Ten Most Recent Readings**

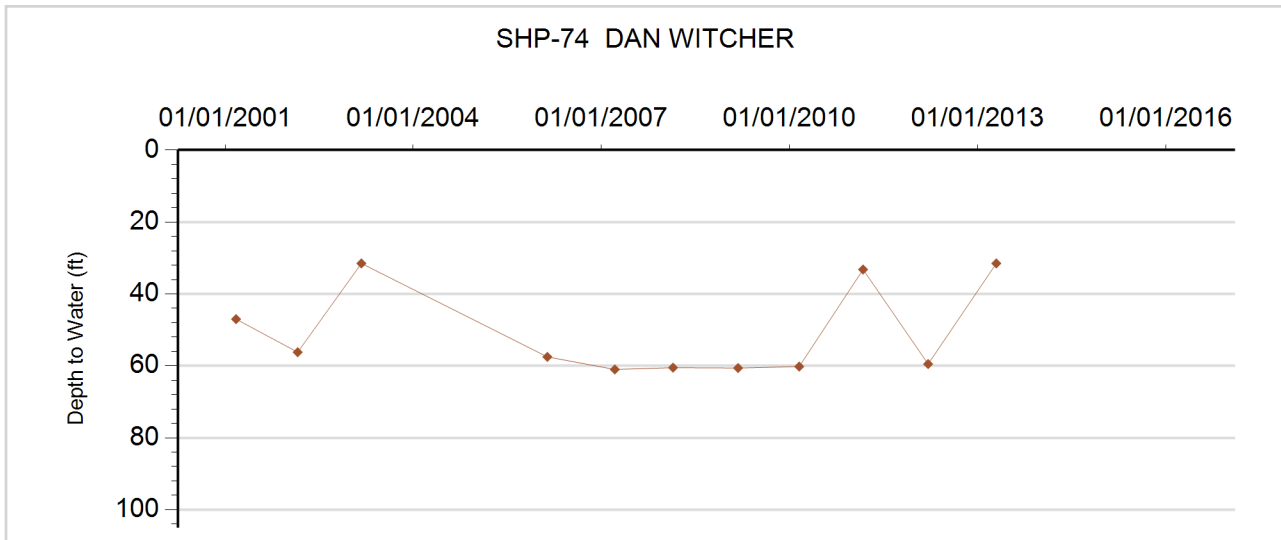
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
03/07/2016			
03/25/2014			
04/20/2013	31.50	3583.50	28.00
03/19/2012	59.50	3555.50	-26.30
03/06/2011	33.20	3581.80	27.00
02/27/2010	60.20	3554.80	0.40
03/08/2009	60.60	3554.40	-0.10
02/23/2008	60.50	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
626 S	3146 E		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:

**Ten Most Recent Readings**

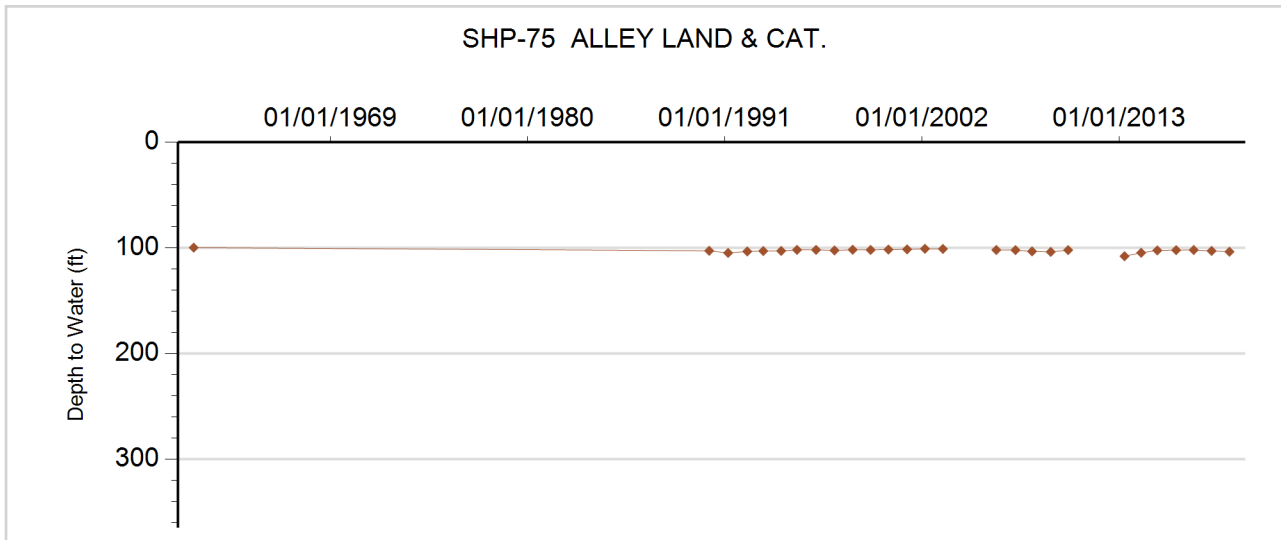
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/26/2019	103.84	3861.16	-0.76
02/27/2018	103.08	3861.92	-0.85
02/28/2017	102.23	3862.77	0.10
03/07/2016	102.33	3862.67	0.27
02/17/2015	102.60	3862.40	2.24
03/26/2014	104.84	3860.16	3.26
04/20/2013	108.10	3856.90	
03/19/2012			
03/06/2011			
02/27/2010	102.30	3862.70	1.70

**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: 02/26/2019  
 Number of Measurements: 30





**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
0 S	13 E		SE	SE	19	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:

**Ten Most Recent Readings**

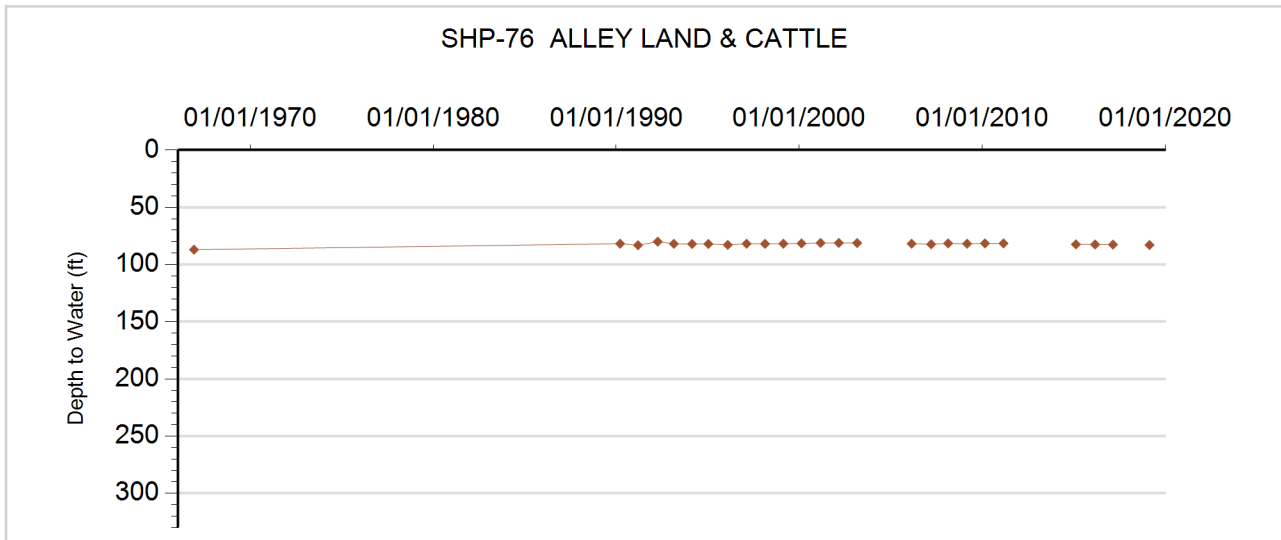
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/26/2019	82.90	3780.10	
02/27/2018			
02/28/2017	82.55	3780.45	-0.09
03/07/2016	82.46	3780.54	-0.06
02/17/2015	82.40	3780.60	
03/26/2014			
04/20/2013			
03/16/2012			
03/06/2011	81.50	3781.50	0.00
02/27/2010	81.50	3781.50	0.30

**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: 02/26/2019  
 Number of Measurements: 30





**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
120 N	328 W	NW	NW	NW	8	34.0 S	45.0 W	S	720038.0	4109366.0	GPS

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

**Ten Most Recent Readings**

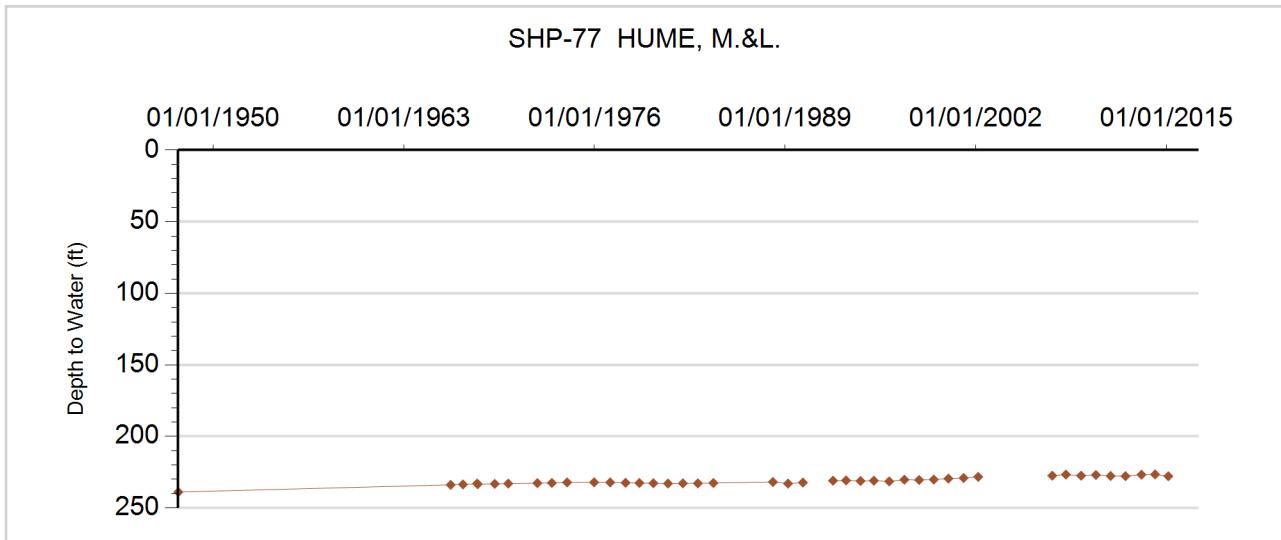
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/28/2017			
03/07/2016			
02/17/2015	227.85	4047.11	-1.26
03/25/2014	226.59	4048.37	0.21
04/21/2013	226.80	4048.16	1.00
03/19/2012	227.80	4047.16	-0.10
03/13/2011	227.70	4047.26	-0.70
03/12/2010	227.00	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
3841 N	1274 E		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:

**Ten Most Recent Readings**

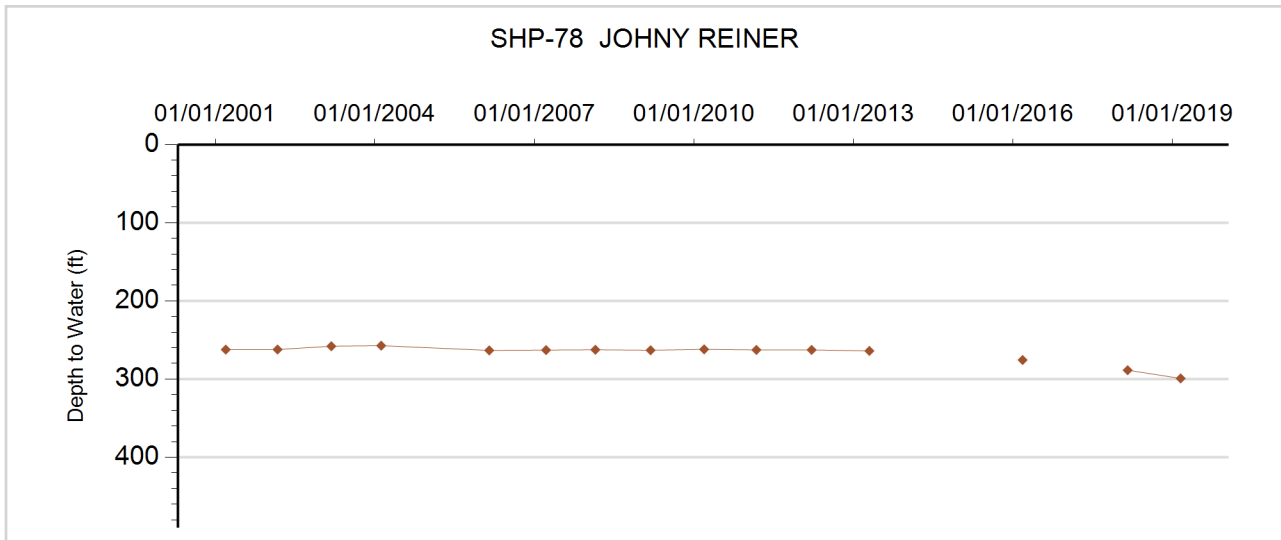
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/26/2019	299.14	4070.86	-10.47
02/27/2018	288.67	4081.33	
02/28/2017			
03/07/2016	275.62	4094.38	
02/17/2015			
03/25/2014			
04/20/2013	264.00	4106.00	-1.30
03/19/2012	262.70	4107.30	0.00
03/06/2011	262.70	4107.30	-0.70
03/12/2010	262.00	4108.00	1.10

**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: 02/26/2019  
 Number of Measurements: 18







**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
29 S	2678 E		SE	SW	10	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:

**Ten Most Recent Readings**

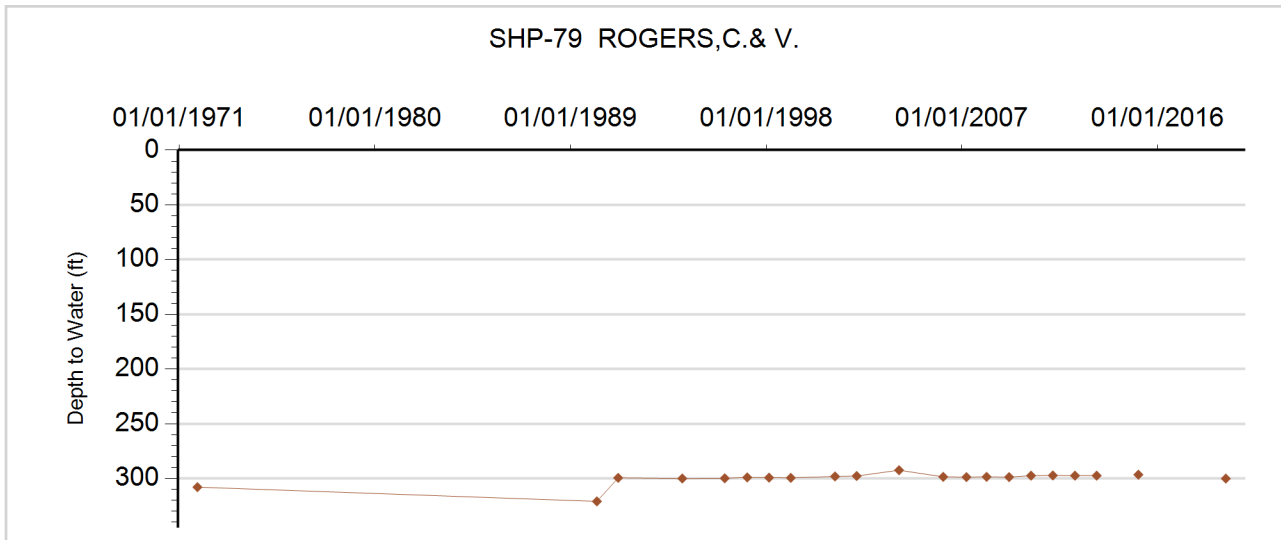
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/26/2019	300.14	4182.86	
02/26/2018			
02/27/2017			
03/07/2016			
02/17/2015	296.62	4186.38	
03/25/2014			
03/19/2013	297.50	4185.50	0.00
03/19/2012	297.50	4185.50	-0.20
03/13/2011	297.30	4185.70	0.20
03/12/2010	297.50	4185.50	1.30

**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: 02/26/2019  
 Number of Measurements: 25





**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
3073 S	590 W	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:

**Ten Most Recent Readings**

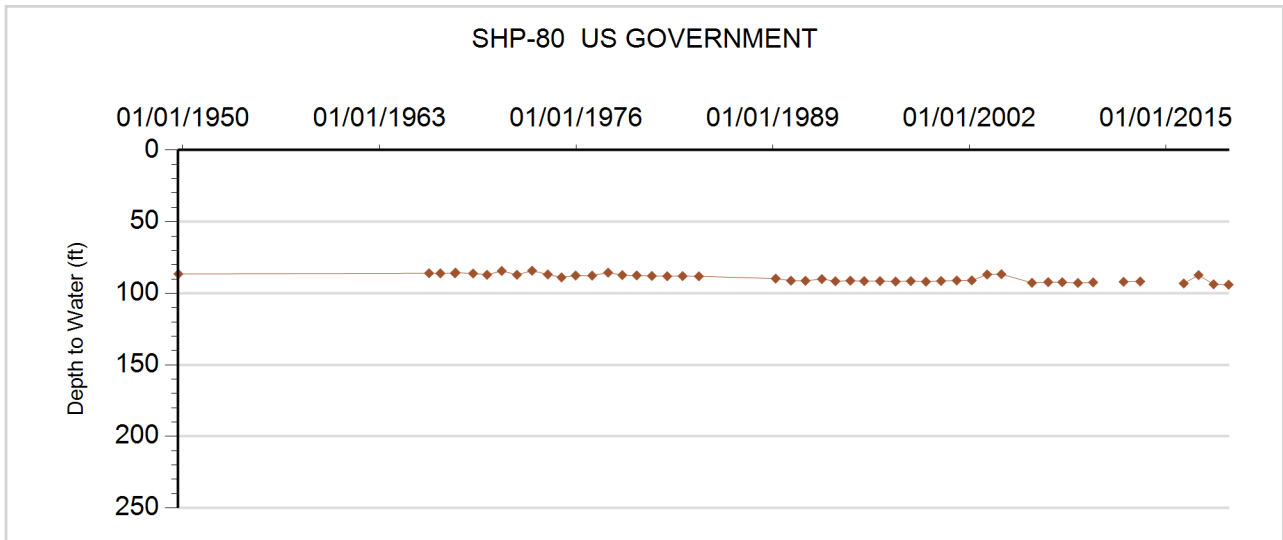
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/25/2019	94.03	4503.87	-0.30
02/26/2018	93.73	4504.17	-6.41
02/27/2017	87.32	4510.58	5.82
03/07/2016	93.14	4504.76	
02/17/2015			
03/25/2014			
04/20/2013	91.80	4506.10	0.20
03/15/2012	92.00	4505.90	
03/13/2011			
03/12/2010	92.40	4505.50	0.40

**Construction Information**

Surface Elevation (ft):                                  4597.90  
 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):    OGALLALA

**Well Measurement Summary**

Start Date: 09/20/1949    End Date: 02/25/2019  
 Number of Measurements: 51





**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
932 S	1174 E	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:

**Ten Most Recent Readings**

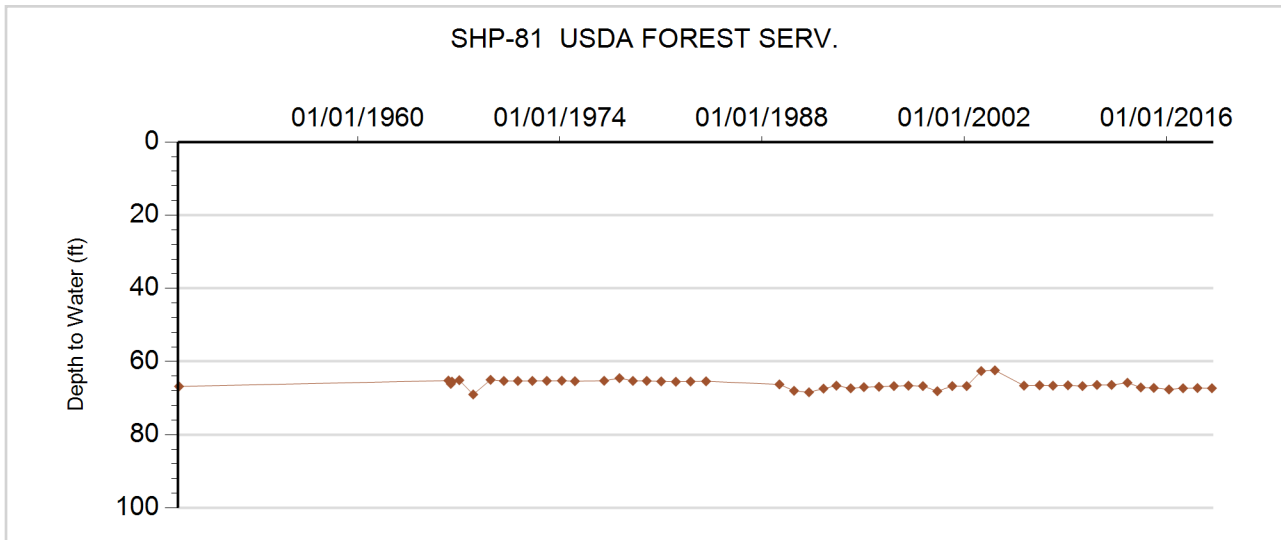
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/25/2019	67.30	4464.85	-0.06
02/26/2018	67.24	4464.91	0.07
02/27/2017	67.31	4464.84	0.32
03/07/2016	67.63	4464.52	-0.42
02/17/2015	67.21	4464.94	-0.12
03/25/2014	67.09	4465.06	-1.29
04/21/2013	65.80	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

**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: 02/25/2019  
 Number of Measurements: 51





**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
114 S	79 E		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:

**Ten Most Recent Readings**

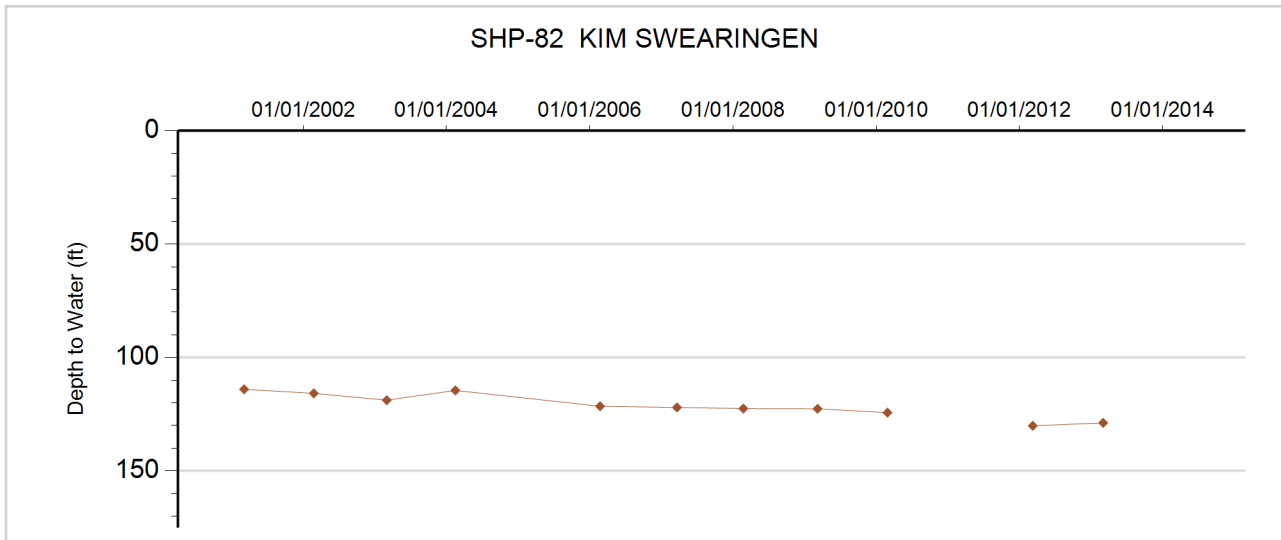
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
03/25/2014			
03/03/2013	128.80	3461.20	1.30
03/09/2012	130.10	3459.90	
03/06/2011			
02/27/2010	124.30	3465.70	-1.70
03/08/2009	122.60	3467.40	-0.10
02/23/2008	122.50	3467.50	-0.50
03/22/2007	122.00	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
502 S	3748 E		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:

**Ten Most Recent Readings**

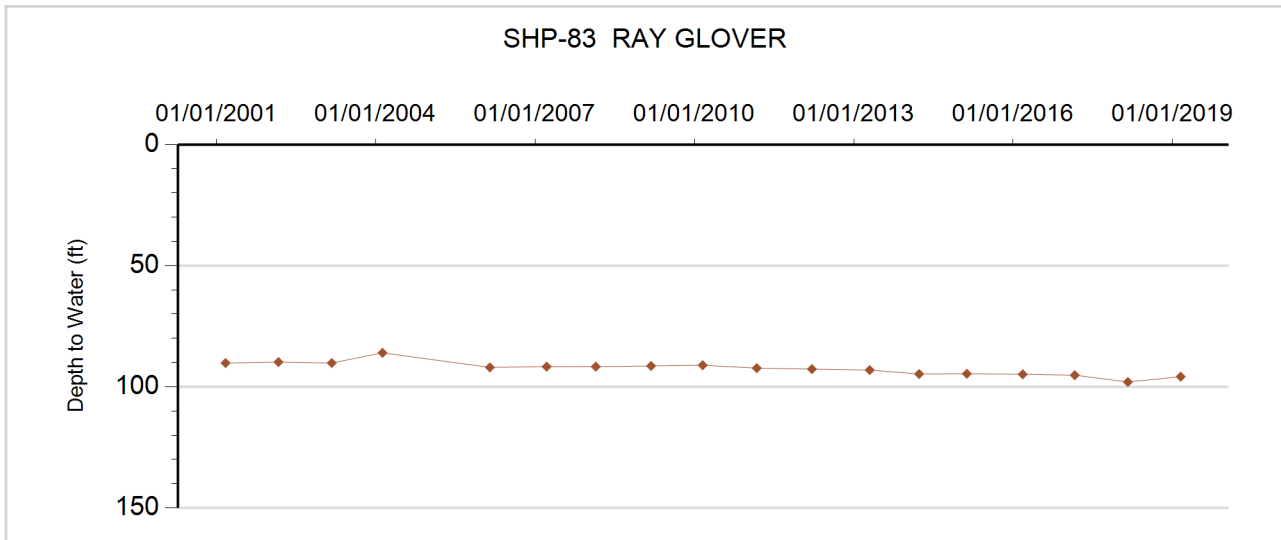
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/26/2019	95.82	3784.18	2.20
02/28/2018	98.02	3781.98	-2.81
02/28/2017	95.21	3784.79	-0.36
03/07/2016	94.85	3785.15	-0.23
02/17/2015	94.62	3785.38	0.12
03/26/2014	94.74	3785.26	-1.64
04/20/2013	93.10	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

**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: 02/26/2019  
 Number of Measurements: 18





**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
1233 N	381 W		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:

**Ten Most Recent Readings**

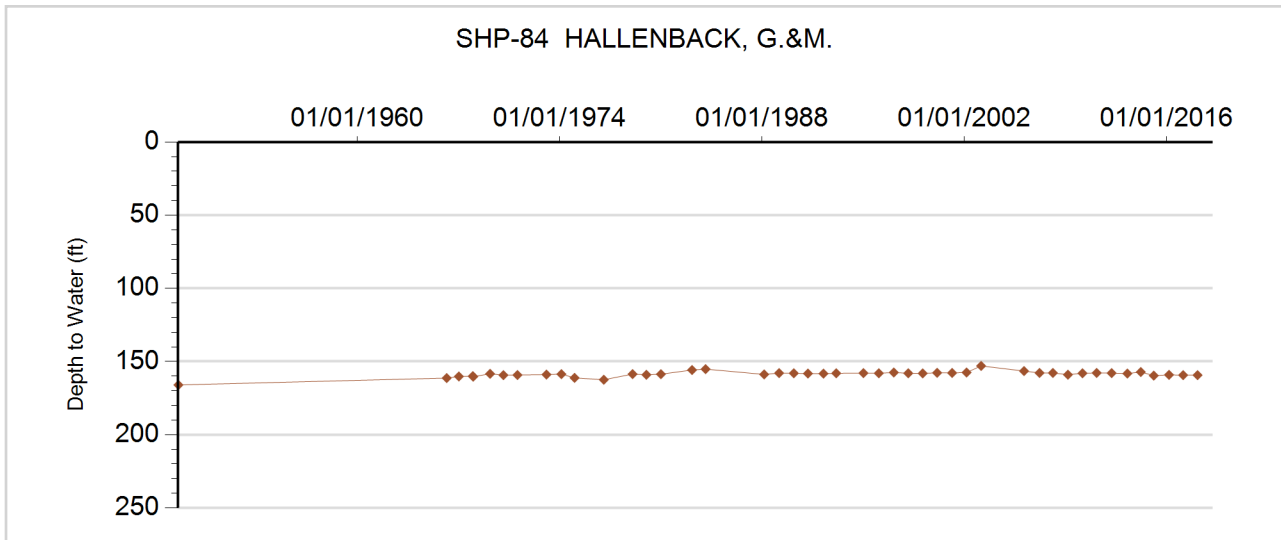
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/26/2019			
02/27/2018	159.28	3945.62	0.01
02/28/2017	159.29	3945.61	-0.20
03/07/2016	159.09	3945.81	0.54
02/17/2015	159.63	3945.27	-2.47
03/26/2014	157.16	3947.74	1.04
04/20/2013	158.20	3946.70	-0.30
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

**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: 02/26/2019  
 Number of Measurements: 46





### 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
698 S	3716 W		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:

#### Ten Most Recent Readings

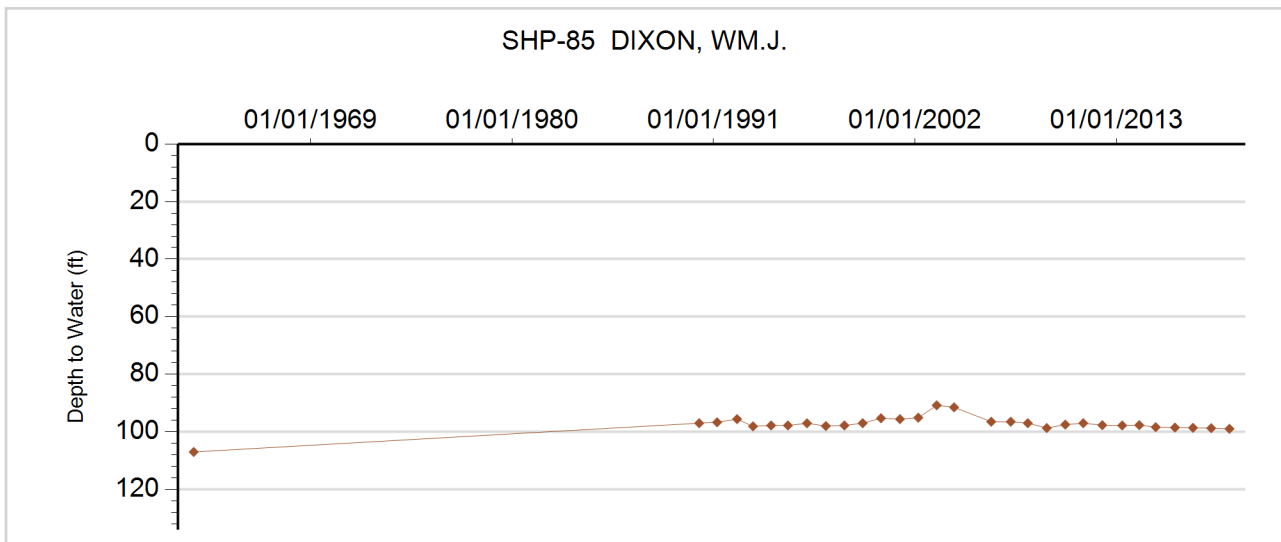
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/26/2019	98.96	4096.04	-0.21
02/27/2018	98.75	4096.25	-0.13
02/28/2017	98.62	4096.38	-0.09
03/07/2016	98.53	4096.47	-0.15
02/17/2015	98.38	4096.62	-0.70
03/26/2014	97.68	4097.32	0.12
04/20/2013	97.80	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

#### 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: 02/26/2019  
 Number of Measurements: 30





**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
1120 N	624 E	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:

**Ten Most Recent Readings**

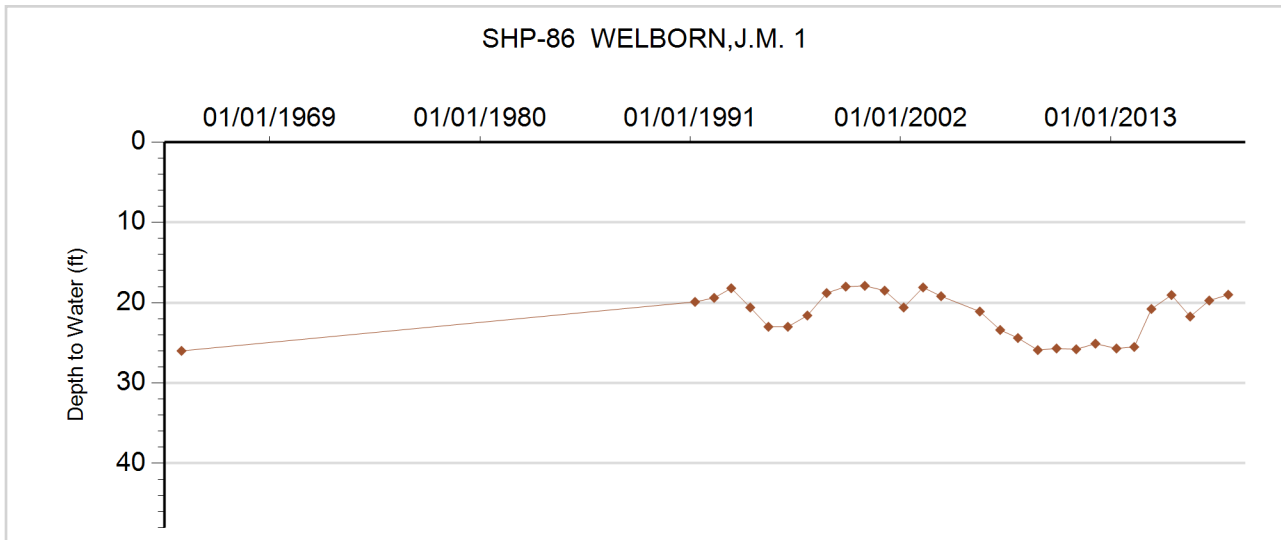
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/25/2019	19.01	4450.99	0.72
02/26/2018	19.73	4450.27	2.00
02/27/2017	21.73	4448.27	-2.68
03/07/2016	19.05	4450.95	1.73
02/17/2015	20.78	4449.22	4.73
03/26/2014	25.51	4444.49	0.19
04/20/2013	25.70	4444.30	-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

**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: 02/25/2019  
 Number of Measurements: 29







**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
154 N	1335 W	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:

**Ten Most Recent Readings**

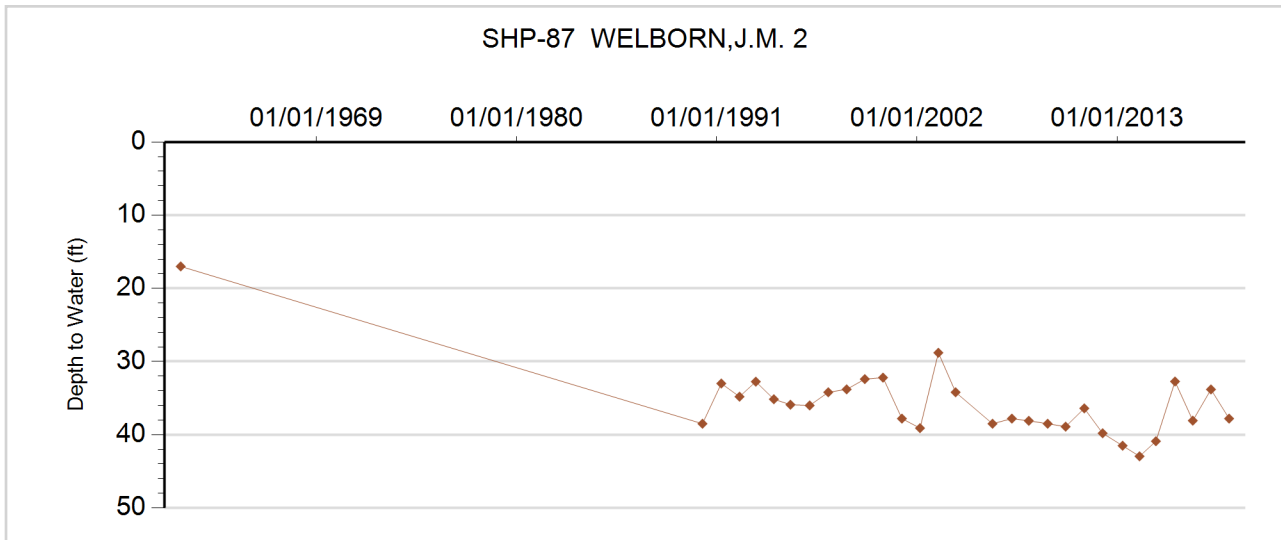
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/25/2019	37.80	4373.20	-3.99
02/26/2018	33.81	4377.19	4.27
02/27/2017	38.08	4372.92	-5.35
03/07/2016	32.73	4378.27	8.16
02/17/2015	40.89	4370.11	2.06
03/26/2014	42.95	4368.05	-1.45
04/20/2013	41.50	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

**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: 02/25/2019  
 Number of Measurements: 30





**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
346 N	1251 W		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:

**Ten Most Recent Readings**

Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
02/25/2019	35.34	4374.66	-3.85
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

**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: 02/25/2019  
 Number of Measurements: 30

