

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
May 27, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED

Submit to appropriate District Office

APR 18 2006

OCD-ARTESIA

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address POGO PRODUCING COMPANY P. O. BOX 10340 MIDLAND, TX 79702-7340		² OGRID Number 017891
		³ API Number 30-015-31610
⁴ Property Code 26694	⁵ Property Name DAVIS 18	⁶ Well No. 2
⁹ Proposed Pool 1 McMILLAN WOLFCAMP (45090)		¹⁰ Proposed Pool 2

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	18	20S	27E		1819'	SOUTH	747'	WEST	EDDY

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	18	20S	27E		1980'	SOUTH	330'	EAST	EDDY

Additional Well Information

¹¹ Work Type Code R	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3299'
¹⁶ Multiple NO	¹⁷ Proposed Depth 7950' TVD	¹⁸ Formation WOLFCAMP	¹⁹ Contractor	²⁰ Spud Date WHEN APPROVED
Depth to Groundwater +100'		Distance from nearest fresh water well 1.8 MILES		Distance from nearest surface water +1000'
Pit/Liner: Synthetic ☒ 12 mils thick Clay ☐ Pit Volume: 16000 bbls Drilling Method: Closed-Loop System ☐ 0 Points Fresh Water ☒ Brine ☒ Diesel/Oil-based ☐ Gas/Air ☐				

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

SEE ATTACHED.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Printed name: CATHY WRIGHT

Title: SR. ENG TECH

E-mail Address: WRIGHTC@POGOPRODUCING.COM

Date: 04/18/06

Phone: 432-685-8100

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date: APR 20 2006

Expiration Date: APR 20 2007

Conditions of Approval Attached ☐

DAVIS 18 # 2 RE ENTRY AND HORIZONTAL WOLFCAMP

Summary: SET CIBP @ $\pm 7760'$. RIH W/ WHIPSTOCK TO $\pm 7719'$ & ORIENT TO 85° EAST. DRILL WINDOW AND OPEN SAME. DRILL CURVE @ $\pm 25^\circ$ PER HUNDRED. BHL LOCATION PLANNED @ 1980 FSL & 330 FEL @ TVD OF 7950'.

STEPS	DESCRIPTION
1	PREPARE LOCATION FOR ROTARY TOOLS.
2	MIRU ROTARY TOOLS. N/U BOP'S. TEST TO 2000 PSI AGAINST CASING.
3	P/U BIT & 7" SCRAPER. GIH P/U 3 1/2" DP TO PBTD OF ± 8160
4	POH & L/D BIT & SCRAPER
5	R/U W/ 3° WHIPSTOCK AND MILL SET. RUN GYRO. ORIENT WHIPSTOCK TO 85° .
6	SET WHIPSTOCK @ $\pm 7719'$ & DRILL WINDOW.
7	POH W/ WHIPSTOCK MILL.
8	RIH W/ DIRECTIONAL ANGLE BUILDING ASSEMBLY.
9	DRILL CURVE USING GYRO STEERING TOOL. POH & P/U LATERAL DRILLING ASSEMBLY
10	DRILL LATERAL. MUD LOGGER TO BE ON LOCATION. USE LWD ALONG WITH MWD. BHL = 1980 FSL & 330 FEL..
11	POH. P/U LINER & SET SAME. CEMENT LINER.
12	POH & RIG DOWN DRILLING TOOLS.
13	MIRU COMPLETION TOOLS. CLEAN OUT LINER.
14	RIH W/ 3 1/2" FRAC STRING. FRAC WELL AS PER ELY RECOMMENDATION.
15	EVALUATE FOR PRODUCTION EQUIPMENT.

DAVIS 18 # 2

Cmt'd w/ 660 sks
circ'd 120 sks

13 3/8" @ 515'

1st stage cmt'd w/1070 sks. Circ

9 5/8" @ 3015'

cmt'd 1st stage w/ 370 sks.
cmt'd 2nd stage w/ 770 sks. Toc 6950

CIBP 8200 + 40 CMT
CISCO 8250 - 65
CISCO 8714 - 20
CISCO 8740 -60
CISCO 8840 - 80

cmt plug 190 sks 8144' to 7500'
7" @ 9000'

LINER CEMENTED W/ 300 SKS "H".

CIBP 10,310 + 40' CMT
MRW PERFS 10344 -64

LC 10472
5" LINER 8905' - 10,536

TOTAL DEPTH
10,536

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LONG's METHOD OF SURVEY COMPUTATION**OBLIQUE CIRCULAR ARC INTERPOLATION**

0	MD OF INTERPOLATION DEPTH.(feet)
#N/A	TVD COORDINATE OF THE DEPTH (feet)
#N/A	N/S COORDINATE OF DEPTH (feet)
#N/A	E/W COORDINATE OF DEPTH (feet)

3 D DISTANCE BETWEEN STATION A AND STATION B

DISTANCE TABLE

STATION A	STATION B
0.00	ft

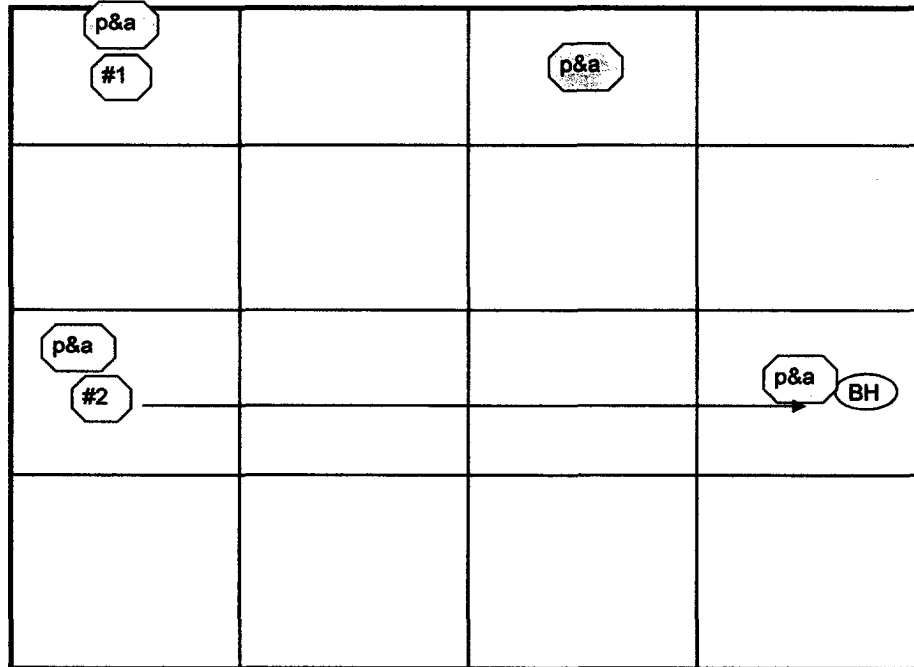
TABLE OF SURVEY STATIONS

Calculator =

STA #	ΔMD ft	INCL deg	AZIM deg	MD ft	TVD ft	N+/S- ft	E+/W- ft	DLS deg/100FT
1	TIE POINT =>	0	0	7719.00	7719.00	0.00	0.00	-
2	100	25	90	7819.00	7815.86	0.00	21.47	25.00
3	100	50	90	7919.00	7894.56	0.00	81.87	25.00
4	100	75	90	8019.00	7940.37	0.00	169.87	25.00
5	75	90	90	8094.00	7950.14	0.00	244.01	20.00
6	100	90	90	8194.00	7950.14	0.00	344.01	0.00
7	100	90	90	8294.00	7950.14	0.00	444.01	0.00
8	100	90	90	8394.00	7950.14	0.00	544.01	0.00
9	100	90	90	8494.00	7950.14	0.00	644.01	0.00
10	100	90	90	8594.00	7950.14	0.00	744.01	0.00
11	100	90	90	8694.00	7950.14	0.00	844.01	0.00
12	100	90	90	8794.00	7950.14	0.00	944.01	0.00
13	100	90	90	8894.00	7950.14	0.00	1044.01	0.00
14	100	90	90	8994.00	7950.14	0.00	1144.01	0.00
15	100	90	90	9094.00	7950.14	0.00	1244.01	0.00
16	100	90	90	9194.00	7950.14	0.00	1344.01	0.00
17	100	90	90	9294.00	7950.14	0.00	1444.01	0.00
18	100	90	90	9394.00	7950.14	0.00	1544.01	0.00
19	100	90	90	9494.00	7950.14	0.00	1644.01	0.00
20	100	90	90	9594.00	7950.14	0.00	1744.01	0.00
21	100	90	90	9694.00	7950.14	0.00	1844.01	0.00
22	100	90	90	9794.00	7950.14	0.00	1944.01	0.00
23	100	90	90	9894.00	7950.14	0.00	2044.01	0.00
24	100	90	90	9994.00	7950.14	0.00	2144.01	0.00
25	100	90	90	10094.00	7950.14	0.00	2244.01	0.00
26	100	90	90	10194.00	7950.14	0.00	2344.01	0.00
27	100	90	90	10294.00	7950.14	0.00	2444.01	0.00
28	100	90	90	10394.00	7950.14	0.00	2544.01	0.00
29	100	90	90	10494.00	7950.14	0.00	2644.01	0.00
30	100	90	90	10594.00	7950.14	0.00	2744.01	0.00
31	100	90	90	10694.00	7950.14	0.00	2844.01	0.00
32	100	90	90	10794.00	7950.14	0.00	2944.01	0.00
33	100	90	90	10894.00	7950.14	0.00	3044.01	0.00
34	100	90	90	10994.00	7950.14	0.00	3144.01	0.00

DAVIS 18 # 2 Well Goupings

Sec 18, T-20-S, R-27-E, Eddy County, New Mexico



Well Name	Legal Location in 19	Depth and Strata	Current Prod Zone
DAVIS 18 # 1	660 FNL & 660 FWL	TD = 10550' Morrow	Morrow Production
DAVIS 18 # 2	1819 FSL & 747 FWL	TD = 10550' Morrow	TA'D 2002
HONDO SINGER C # 1 PPP	1980 FNL & 1980 FWL	TD = 10399 MORROW	TA'D 2005
DOOLEY-DIXON COMMERCE # 1	66 FNL & 330 FWL	TD= 936 YATES	P&A 1936
KEYSTONE # 1	2310 FSL & 330 FWL	TD= 750' QUEEN	P&A 1959
HONDO SINGER # 1	660 FNL & 1980 FEL	TD = 8423 WOLFCAMP	P&A 1965
KANSAS CITY SINGER 18 # 1	1980 FSL & 860 FEL	TD = 10568 MORROW DRY	P&A 1993

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102

Revised February 10, 1994

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-31610	Pool Code 45090	Pool Name McMillan Wolfcamp
Property Code 26694	Property Name DAVIS 18	Well Number 2
OGRID No. 017891	Operator Name POGO PRODUCING COMPANY	Elevation 3299'

Surface Location

UL or lot No. L	Section 18	Township 20-S	Range 27-E	Lot Idn	Feet from the 1819	North/South line SOUTH	Feet from the 747	East/West line WEST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot No. I	Section 18	Township 20S	Range 27E	Lot Idn	Feet from the 1980	North/South line SOUTH	Feet from the 330	East/West line EAST	County EDDY
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Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <i>Cathy Wright</i> Signature CATHY WRIGHT Printed Name SR. ENG TECH Title 04/18/06 Date
	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. FEBRUARY 7, 2001 Date Surveyed Signature & Seal of Professional Surveyor <i>Ronald J. Eidson</i> 02/09/01 01-11-0205 Certificate No. RONALD J. EIDSON 3239 GARY EIDSON 12641



Water Resources

Data Category:

Site Information

Geographic Area:

New Mexico

go

Site Map for New Mexico

USGS 323336104173501 20S.27E.21.31112

Available data for this site

site map

GO

Eddy County, New Mexico

Hydrologic Unit Code

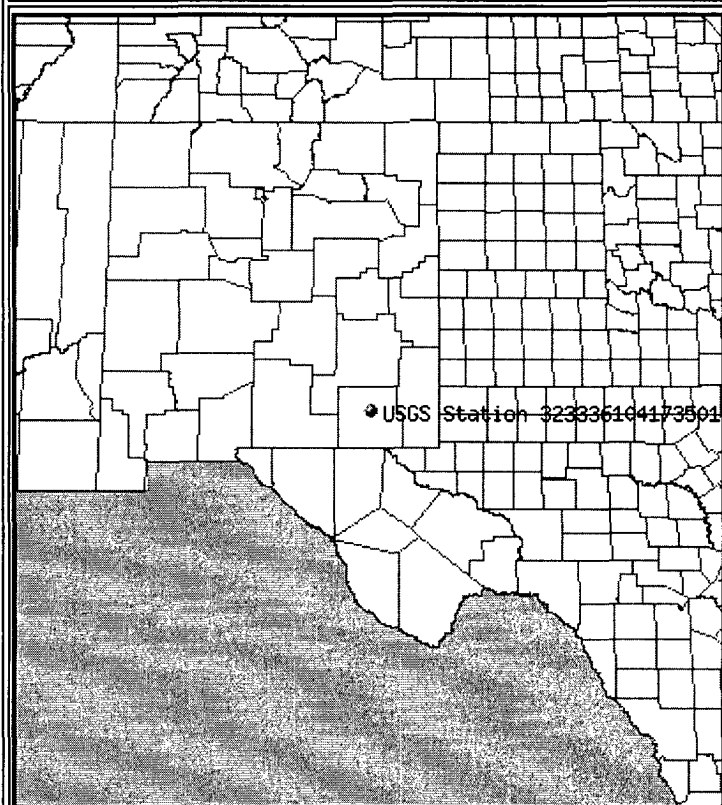
Latitude 32°33'36", Longitude 104°17'35" NAD27

Land-surface elevation 3,217.00 feet above sea level NGVD29

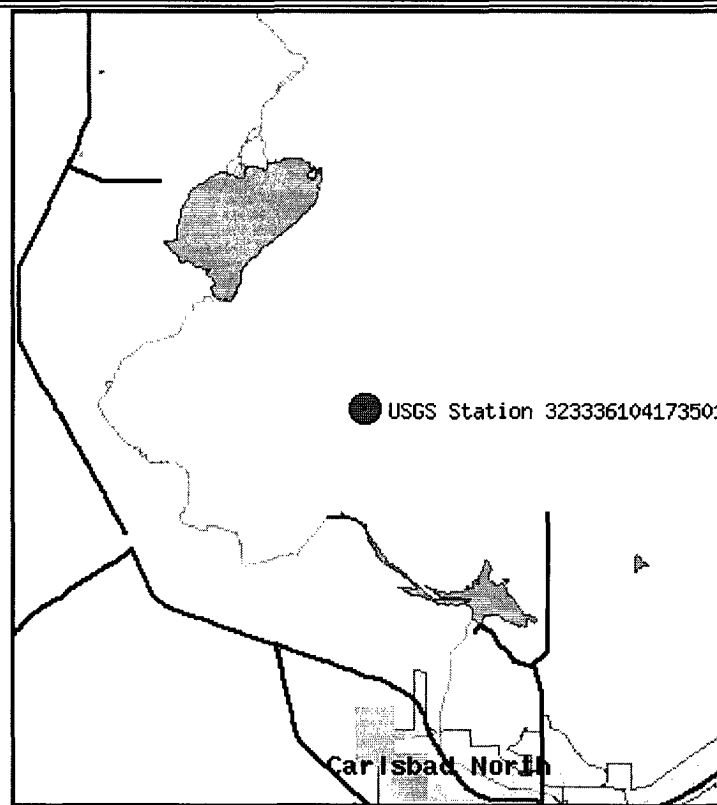
The depth of the well is 190 feet below land surface.

This well is completed in the RUSTLER FORMATION (312RSLR) local aquifer.

Location of the site in New Mexico.



Site map.



ZOOM IN 2X, 4X, 6X, 8X, or ZOOM OUT 2X, 4X, 6X, 8X.

Maps are generated by US Census Bureau TIGER Mapping Service.

Questions about data [New Mexico NWISWeb Data Inquiries](#)Feedback on this website [New Mexico NWISWeb Maintainer](#)

NWIS Site Inventory for New Mexico: Site Map

<http://waterdata.usgs.gov/nm/nwis/nwismap?>[Top](#)[Explanation of terms](#)

Retrieved on 2006-04-17 15:09:23 EDT

Department of the Interior, U.S. Geological Survey

USGS Water Resources of New Mexico



Water Resources

Data Category:

Ground Water

Geographic Area:

New Mexico

go

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 323336104173501

[Save file of selected sites to local disk for future upload](#)
USGS 323336104173501 20S.27E.21.31112

Available data for this site

Ground-water: Levels

GO

Eddy County, New Mexico

Hydrologic Unit Code

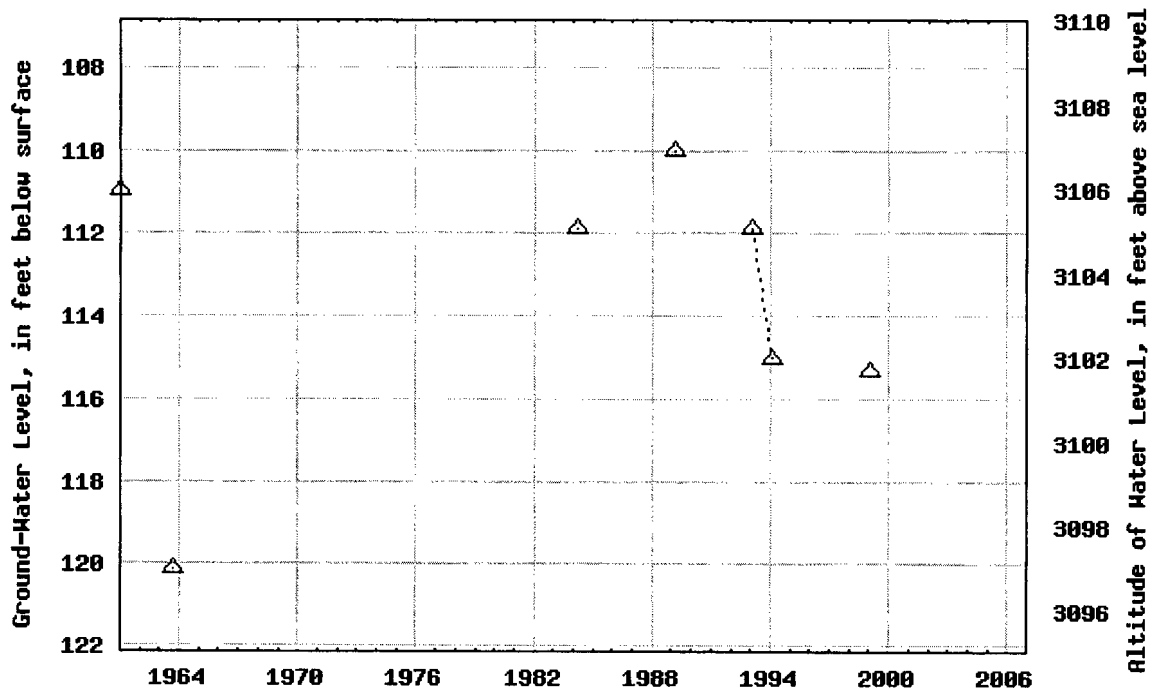
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Output formats

[Table of data](#)[Tab-separated data](#)[Graph of data](#)[Reselect period](#)
USGS 323336104173501 20S.27E.21.31112


Breaks in the plot represent a gap of at least one calendar year between two consecutive points.

[Download a presentation-quality graph](#)
[Questions about data](#)
[New Mexico NWISWeb Data Inquiries](#)
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[New Mexico NWISWeb Maintainer](#)
[Top](#)
[Explanation of terms](#)

Great Circle Calculator.

By Ed Williams

You need Javascript enabled if you want this page to do anything useful! For Netscape, it's under Options/Network Preferences/Languages.

Compute true course and distance between points.

Enter lat/lon of points, select distance units and earth model and click "compute". Lat/lons may be entered in DD.DD, DD:MM.MM or DD:MM:SS.SS formats.

Note that if either point is very close to a pole, the course may be inaccurate, because of its extreme sensitivity to position and inevitable rounding error.

Input Data

Lat1		Lon1	
32:34:16.1	N	104:19:33.9	W
Lat2		Lon2	
32:33:36	N	104:17:35	W

Output

Course 1-2	Course 2-1	Distance
111.801181	291.818959	1.798862738

Distance Units: Earth model:

Compute lat/lon given radial and distance from a known point

Enter lat/lon of initial point, true course and distance. Select distance units and earth model and click "compute". Lat/lons may be entered in DD.DD, DD:MM.MM or DD:MM:SS.SS formats.

Note that the starting point cannot be a pole.

Input data

Lat1		Lon1	
0:00.00	N	0:00.00	W
Course 1-2		Distance 1-2	
360		0.0	