

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Secretary

Adrienne Sandoval, Division Director
Oil Conservation Division



Notice of C-104 Denial and Request for Information

OCD denies your C-104 – *Request for Allowable and Authorization to Transport* because it is incomplete or conflicts with other information provided to OCD.

The sale or transport of product without a C-104 approved by OCD violates the Oil and Gas Act and the implementing rules, including 19.15.7.15 and 19.15.16.19 NMAC.

To avoid an enforcement action, you must submit the indicated information no later than 30 days after receipt of this notice.

30-015-45381

Test Allowable, New Well and Recompleted Well

MARK AMEND C-104

- ☒ C-103 (or BLM equivalent) for all casing strings
 - ☐ Spud Notice
 - ☐ Surface Casing
 - ☐ Intermediate Casing (if applicable)
 - ☐ Additional Intermediate Casing (if applicable)
 - ☒ Production Casing or Liner - RR date?

AMEND C-103
Attached

☐ Applicable Order (NSL, NSP, Other _____)

☐ Deviation Survey for Vertical Wells

☒ Directional Survey CERTIFIED

☒ C-102 (As-Drilled Plat for Horizontal Well)

New Well and Recompleted Well Only

☒ C-103 Completion Sundry (or BLM equivalent)

AMEND C-103: see Well Files online

☒ C-105 Completion Report (or BLM equivalent)

Amend

☐ All Logs Run on Well

If you have any questions please contact the local OCD District Office

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM

RECEIVED

DEC 04 2019

Submit one copy to appropriate District Office

DISTRICT IV ARTESIA O.C.D.

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Apache Corporation 303 Veterans Airpark Lane Suite 1000 Midland TX 79705		² OGRID Number 873	
		³ Reason for Filing Code/ Effective Date NW/10/24/2019	
⁴ API Number 30-015-45381	⁵ Pool Name Palmillo; Bone Spring; Southwest	⁶ Pool Code 96413	
⁷ Property Code 317303	⁸ Property Name Palmillo 14-15 State	⁹ Well Number 307H	

II. ¹⁰ Surface Location

UL or lot no. M	Section 14	Township 19S	Range 28E	Lot Idn	Feet from the 631	North/South Line SOUTH	Feet from the 351	East/West line WEST	County EDDY
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¹¹ Bottom Hole Location

UL or lot no. M	Section 15	Township 19S	Range 28E	Lot Idn	Feet from the 349	North/South line S	Feet from the 54	East/West line W	County EDDY
¹² Lse Code S	¹³ Producing Method Code P	¹⁴ Gas Connection Date 10/24/2019	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
252293	Holly Energy Pipeline 311 W Quay / PO Box 1360 Artesia NM 88210	O
221115	Frontier Field Services LLC 4200 East Skelly Drive Suite 700 Tulsa OK 74135	G
36785	DCP Midstream, LP 370 17th St Suite 2500 Denver CO 80202	G

IV. Well Completion Data

²¹ Spud Date 5/12/2019	²² Ready Date 10/24/2019	²³ TD 13767	²⁴ PBD 13813	²⁵ Perforations 8709-13721	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2	13 3/8	303	400SX		
12 1/4	9 5/8	3525	1000 sx Class C		
8 3/4	5 1/2	13813	3075 SX		
Tubing	2 7/8	8254			

V. Well Test Data

³¹ Date New Oil 10/24/2019	³² Gas Delivery Date 10/24/2019	³³ Test Date 10/28/2019	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil 268	³⁹ Water 1629	⁴⁰ Gas 374	⁴¹ Test Method P	

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Alicia Fulton*

Printed name:
Alicia Fulton

Title:
Sr. Reg Analyst

E-mail Address:
alicia.fulton@apachecorp.com

Date:
11/19/2019

Phone:
432-818-1088

OIL CONSERVATION DIVISION

DENIED

See Attached Cover Sheet

A Certified Directional Survey should be submitted as required by NMOCD Rule 19.15.16.14 NMAC

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis
Santa Fe, NM 87505

RECEIVED

DISTRICT I-ARTESIA O.C.D.

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45381	² Pool Code 96413	³ Pool Name PALMILLO; BONE SPRING, SOUTHWEST
⁴ Property Code 317303	⁵ Property Name PALMILLO 14-15 STATE	⁶ Well Number 307H
⁷ GRID NO. 873	⁸ Operator Name APACHE CORPORATION	⁹ Elevation 3446'

¹⁰ Surface Location									
UL or lot no. M	Section 14	Township 19S	Range 28E	Lot Idn	Feet from the 631	North/South line SOUTH	Feet From the 351	East/West line WEST	County EDDY

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. M	Section 15	Township 19S	Range 28E	Lot Idn	Feet from the 349	North/South line SOUTH	Feet from the 54	East/West line WEST	County EDDY

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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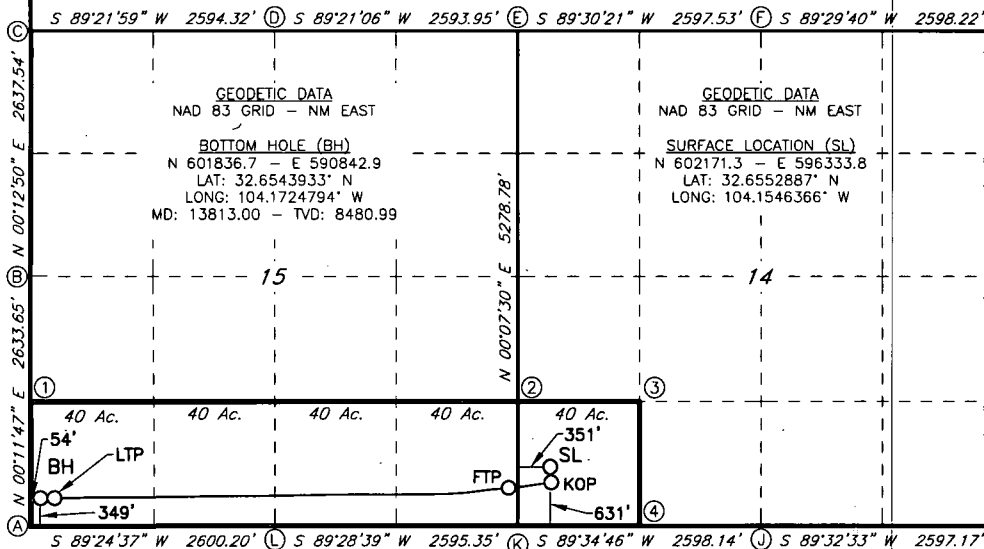
No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

16

GEODETIC DATA NAD 83 GRID - NM EAST KICK OFF POINT (KOP) 461' FSL & 363' FWL SEC 14 N 602001.3 - E 596345.1 LAT: 32.6548215° N LONG: 104.1546008° W MD: 8058 - TVD: 8053.7 FIRST TAKE POINT (FTP) 411' FSL & 44' FEL SEC 15 N: 601948.6 - E: 595938.2 LAT: 32.6546785° N LONG: 104.1559232° W MD: 8709 - TVD: 8508.9 LAST TAKE POINT (LTP) 349' FSL & 146' FWL SEC 15 N: 601838.3 - E: 590934.8 LAT: 32.6543971° N LONG: 104.1721808° W MD: 13721 - TVD: 8485.1	CORNER DATA NAD 83 GRID - NM EAST A: FOUND BRASS CAP "1941" N 601487.4 - E 590787.6 B: FOUND BRASS CAP "1941" N 604120.4 - E 590796.6 C: FOUND BRASS CAP "1941" N 606757.2 - E 590806.5 D: FOUND BRASS CAP "1941" N 606785.9 - E 593400.0 E: FOUND BRASS CAP "1941" N 606815.2 - E 595993.1 F: FOUND BRASS CAP "1941" N 606837.6 - E 598589.8	G: FOUND BRASS CAP "1941" N 606860.6 - E 601187.3 H: FOUND BRASS CAP "1941" N 604227.7 - E 601181.4 I: FOUND BRASS CAP "1941" N 601577.6 - E 601175.4 J: FOUND BRASS CAP "1941" N 601556.9 - E 598579.0 K: FOUND BRASS CAP "1941" N 601537.8 - E 595981.6 L: FOUND BRASS CAP "1941" N 601514.2 - E 593387.0 CALCULATED POINTS 1: N 602803.9 - E 590792.1 2: N 602857.2 - E 595984.4 3: N 602868.5 - E 597283.1 4: N 601547.4 - E 597280.3
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17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Alicia Fulton 11/21/19
Signature Date
Alicia Fulton
Printed Name
alicia.fulton@apachecorp.com
E-mail Address



18 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.

6-21-2018
Date of Survey
Signature and Seal of Professional Surveyor
10034
Certificate Number
11/18/19 - KOP/FTP/LTP
Job No.: LS1806807AD

JEFFREY L. FANSLER
NEW MEXICO
10034
PROFESSIONAL SURVEYOR



5D Survey Report

Apache Corporation

Field Name: *Apache NM (Nad 83 NMEZ)*
Site Name: *Palmillo 14-15 State Com 307H*
Well Name: *Palmillo 14-15 State Com 307H*
File number: *13754435*
Survey: *Definitive survey*

7 June 2019

A Certified Directional Survey should be
submitted as required by NMOCD Rule
19.15.16.14 NMAC



Weatherford®


Weatherford

Palmillo 14-15 State Com 307H

Field Name:	Map Units: US ft		Company Name: Apache Corporation	
Apache NM (Nad 83 NMEZ)	Vertical Reference Datum (VRD): Mean Sea Level			
	Projected Coordinate System: NAD83 / New Mexico East (ftUS)			
	Comment:			
Site:	Units: US ft	North Reference: Grid	Convergence Angle: 0.10	
	Position:	Northing: 602171.30 US ft	Latitude: 32.655288742	
		Easting: 596333.80 US ft	Longitude: -104.154636626	
Palmillo 14-15 State Com 307H	Elevation above MSL: 3446.00 US ft			
Comment: Eddy County, New Mexico				
Slot:	Position (Relative to Site Centre)			
	+N/-S: 0.00 US ft	Northing: 602171.30 US ft	Latitude: 32.655288742	
	+E/-W: 0.00 US ft	Easting: 596333.80 US ft	Longitude: -104.154636626	
Palmillo 14-15 State Com 307H	Slot TVD Reference: Ground Elevation			
Elevation above MSL: 3446.00 US ft				
Comment:				
Well:	Type: Main well	UWI:		
	File Number: 13754435	Comment:		
	Closure Distance: 5501.04 US ft	Closure Azimuth: 266.51°		
Palmillo 14-15 State Com 307H	Vertical Section: Position of Origin (Relative to Slot centre)			
+N/-S: -0.00 US ft		+E/-W: -0.00 US ft	Az: 266.32°	
Drill floor: Survey Name: Definitive Survey				
Rig Height (Drill Floor): 26.00 US ft Elevation above MSL: 3472.00 US ft Inclination: 0.00° Azimuth: 0.00°				
Survey Name: Definitive Survey				
Date: 01/Nov/2018	Survey Tool: See Survey Tool Ranges below.	Comment:	Company:	
Magnetic Model:				
Model Name: Surcon IFR	Date: 26/May/2019	Field Strength: 47895.0nT	Declination: 7.42°	Dip: 60.39°
Tie Point:				
MD: 0.00 US ft	Inclination: 0.00°	Azimuth: 0.00°	TVD: -0.00 US ft	North Offset: -0.00 US ft East Offset: -0.00 US ft
Survey Tool Ranges:				
Name	Start MD(USft)	End MD(USft)	Source Survey	
GYRO_GC_WIR+DPIPE_GYD	0.00	7888.21	GyroData Gyro-Good	

5D Survey Report

Survey Tool Ranges:			
Name	Start MD(USFt)	End MD(USFt)	Source Survey
MWD + IFR + MS	7888.21	8883.00	WFT MWD 04
MWD + IFR + Sag Corr + MS	8883.00	11266.00	WFT MWD 05
MWD + IFR + Sag Corr + MS	11266.00	13813.00	WFT MWD 06

Wellpath created using minimum curvature:

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
0.00	0.00	0.00	-0.00	-0.00	-0.00	-0.00	0.00	602171.30	596333.80	
79.93	0.23	300.49	79.93	0.13	0.08	-0.14	0.29	602171.38	596333.66	
170.35	0.33	305.83	170.35	0.48	0.33	-0.51	0.11	602171.63	596333.29	
258.83	0.50	177.58	258.83	0.69	0.09	-0.70	0.85	602171.39	596333.10	
347.07	1.50	169.36	347.05	0.56	-1.43	-0.47	1.14	602169.87	596333.33	
435.82	1.83	168.89	435.77	0.23	-3.96	0.02	0.37	602167.34	596333.82	
526.41	1.89	169.10	526.31	-0.14	-6.85	0.58	0.07	602164.45	596334.38	
621.82	1.24	167.93	621.68	-0.49	-9.40	1.10	0.68	602161.90	596334.90	
713.00	0.75	170.11	712.85	-0.70	-10.96	1.40	0.54	602160.34	596335.20	
804.44	0.82	171.16	804.28	-0.82	-12.19	1.61	0.08	602159.11	596335.41	
895.40	0.91	172.96	895.23	-0.92	-13.55	1.80	0.10	602157.75	596335.60	
984.88	0.96	167.93	984.70	-1.07	-14.99	2.04	0.11	602156.31	596335.84	
1075.94	0.91	155.91	1075.74	-1.44	-16.40	2.49	0.22	602154.90	596336.29	
1167.11	0.78	136.41	1166.90	-2.09	-17.51	3.22	0.34	602153.79	596337.02	
1257.42	0.96	135.94	1257.20	-2.97	-18.50	4.17	0.20	602152.80	596337.97	
1348.76	0.33	138.97	1348.54	-3.63	-19.24	4.87	0.69	602152.06	596338.67	
1440.69	0.09	157.47	1440.47	-3.81	-19.51	5.07	0.27	602151.79	596338.87	
1532.84	0.19	159.46	1532.62	-3.88	-19.72	5.16	0.11	602151.58	596338.96	
1624.05	0.33	155.85	1623.83	-4.02	-20.10	5.32	0.15	602151.20	596339.12	
1716.57	0.37	158.95	1716.34	-4.20	-20.62	5.53	0.05	602150.68	596339.33	
1808.84	0.49	162.48	1808.61	-4.38	-21.28	5.76	0.13	602150.02	596339.56	
1899.46	0.48	170.83	1899.23	-4.51	-22.02	5.94	0.08	602149.28	596339.74	
1991.56	0.49	172.70	1991.33	-4.57	-22.79	6.05	0.02	602148.51	596339.85	
2083.03	0.48	172.08	2082.79	-4.62	-23.56	6.15	0.01	602147.74	596339.95	
2177.18	0.38	162.03	2176.94	-4.73	-24.25	6.30	0.13	602147.05	596340.10	
2271.49	0.36	164.71	2271.25	-4.87	-24.83	6.47	0.03	602146.47	596340.27	
2365.59	1.26	171.51	2365.34	-5.01	-26.14	6.71	0.96	602145.16	596340.51	
2459.72	3.15	168.71	2459.39	-5.44	-29.70	7.36	2.01	602141.60	596341.16	
2554.05	3.84	166.96	2553.55	-6.30	-35.32	8.58	0.74	602135.98	596342.38	
2648.23	3.97	164.84	2647.51	-7.46	-41.54	10.15	0.21	602129.76	596343.95	
2742.45	3.46	167.82	2741.53	-8.53	-47.47	11.60	0.58	602123.83	596345.40	
2836.69	3.22	170.51	2835.61	-9.22	-52.86	12.64	0.30	602118.44	596346.44	
2931.04	3.24	172.75	2929.81	-9.65	-58.11	13.41	0.14	602113.19	596347.21	
3025.05	3.38	172.58	3023.66	-10.00	-63.50	14.10	0.15	602107.80	596347.90	
3119.00	3.53	171.41	3117.44	-10.43	-69.10	14.89	0.18	602102.20	596348.69	
3213.37	3.58	171.43	3211.63	-10.93	-74.89	15.77	0.05	602096.41	596349.57	
3307.38	3.66	172.42	3305.45	-11.38	-80.77	16.60	0.11	602090.53	596350.40	
3401.19	3.62	171.28	3399.07	-11.85	-86.66	17.44	0.09	602084.64	596351.24	
3495.44	3.52	173.12	3493.14	-12.27	-92.48	18.24	0.16	602078.82	596352.04	
3589.33	3.58	172.86	3586.85	-12.61	-98.25	18.95	0.07	602073.05	596352.75	
3683.63	3.61	173.57	3680.97	-12.93	-104.12	19.65	0.06	602067.18	596353.45	
3777.62	3.73	175.78	3774.76	-13.10	-110.11	20.21	0.20	602061.19	596354.01	
3871.82	3.97	176.15	3868.75	-13.14	-116.42	20.65	0.26	602054.88	596354.45	
3965.57	2.23	176.04	3962.36	-13.15	-121.47	20.99	1.86	602049.83	596354.79	
4059.91	1.55	179.69	4056.65	-13.09	-124.58	21.13	0.73	602046.72	596354.93	
4154.15	1.59	182.84	4150.85	-12.87	-127.16	21.07	0.10	602044.14	596354.87	
4248.73	1.62	181.52	4245.40	-12.60	-129.81	20.97	0.05	602041.49	596354.77	
4343.11	1.63	181.73	4339.74	-12.35	-132.48	20.89	0.01	602038.82	596354.69	
4437.54	1.63	181.64	4434.13	-12.10	-135.17	20.82	0.00	602036.13	596354.62	
4531.88	1.59	180.86	4528.43	-11.87	-137.82	20.76	0.05	602033.48	596354.56	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (%/100US ft)	Northing (US ft)	Easting (US ft)	Comment
4626.21	1.78	185.31	4622.72	-11.54	-140.59	20.60	0.24	602030.71	596354.40	
4720.22	2.11	170.80	4716.68	-11.47	-143.75	20.74	0.63	602027.55	596354.54	
4814.46	2.81	155.35	4810.83	-12.47	-147.56	21.98	1.02	602023.74	596355.78	
4908.87	3.30	155.78	4905.11	-14.25	-152.14	24.06	0.52	602019.16	596357.86	
5002.99	2.39	160.62	4999.11	-15.73	-156.46	25.83	1.00	602014.84	596359.63	
5097.47	1.48	173.64	5093.54	-16.32	-159.53	26.62	1.06	602011.77	596360.42	
5191.31	0.70	194.62	5187.36	-16.20	-161.29	26.61	0.92	602010.01	596360.41	
5285.34	0.42	257.54	5281.38	-15.68	-161.92	26.12	0.67	602009.38	596359.92	
5379.12	0.48	275.41	5375.16	-14.95	-161.96	25.40	0.16	602009.34	596359.20	
5473.14	0.83	306.37	5469.18	-14.04	-161.52	24.46	0.52	602009.78	596358.26	
5567.24	1.35	313.71	5563.26	-12.77	-160.35	23.11	0.57	602010.95	596356.91	
5661.20	0.92	311.27	5657.20	-11.48	-159.09	21.74	0.46	602012.21	596355.54	
5755.49	0.38	303.20	5751.48	-10.70	-158.42	20.91	0.58	602012.88	596354.71	
5849.78	0.68	308.84	5845.77	-10.04	-157.89	20.21	0.32	602013.41	596354.01	
5944.15	0.88	307.30	5940.13	-9.08	-157.10	19.20	0.21	602014.20	596353.00	
6038.19	1.12	275.55	6034.16	-7.62	-156.58	17.71	0.63	602014.72	596351.51	
6132.37	0.57	131.43	6128.33	-7.05	-156.80	17.14	1.72	602014.50	596350.94	
6226.62	1.52	127.01	6222.56	-8.32	-157.86	18.49	1.01	602013.44	596352.29	
6320.60	0.26	125.29	6316.53	-9.44	-158.74	19.66	1.34	602012.56	596353.46	
6414.88	0.43	297.05	6410.81	-9.30	-158.70	19.52	0.73	602012.60	596353.32	
6508.82	0.63	290.21	6504.75	-8.52	-158.36	18.72	0.22	602012.94	596352.52	
6603.36	0.96	292.96	6599.28	-7.34	-157.87	17.51	0.35	602013.43	596351.31	
6697.61	0.30	314.96	6693.52	-6.47	-157.39	16.61	0.73	602013.91	596350.41	
6791.61	0.11	94.68	6787.52	-6.40	-157.22	16.52	0.42	602014.08	596350.32	
6885.88	0.14	230.03	6881.79	-6.39	-157.30	16.52	0.25	602014.00	596350.32	
6979.99	0.46	225.51	6975.90	-6.01	-157.64	16.17	0.34	602013.66	596349.97	
7074.04	1.27	215.28	7069.94	-5.07	-158.76	15.30	0.87	602012.54	596349.10	
7168.47	1.15	199.95	7164.35	-4.04	-160.50	14.37	0.36	602010.80	596348.17	
7262.50	0.49	157.31	7258.37	-3.79	-161.76	14.20	0.91	602009.54	596348.00	
7356.91	0.59	162.71	7352.77	-4.03	-162.60	14.50	0.12	602008.70	596348.30	
7451.39	0.17	285.92	7447.25	-4.02	-163.02	14.51	0.74	602008.28	596348.31	
7545.46	0.69	310.58	7541.32	-3.48	-162.62	13.95	0.57	602008.68	596347.75	
7639.94	0.99	256.87	7635.79	-2.27	-162.43	12.72	0.85	602008.87	596346.52	
7734.49	1.00	197.25	7730.33	-1.17	-163.40	11.68	1.05	602007.90	596345.48	
7828.86	0.71	166.41	7824.69	-0.97	-164.76	11.57	0.57	602006.54	596345.37	
7888.21	0.85	158.52	7884.03	-1.17	-165.53	11.82	0.30	602005.77	596345.62	
7941.00	1.41	164.24	7936.81	-1.43	-166.52	12.14	1.08	602004.78	596345.94	Tieon GyroData Gyro First WFT MWD Svy
8035.00	1.82	189.15	8030.78	-1.34	-169.10	12.22	0.85	602002.20	596346.02	
8082.00	4.91	239.74	8077.70	0.63	-170.85	10.36	8.53	602000.45	596344.16	
8130.00	12.01	256.46	8125.15	7.39	-173.06	3.72	15.50	601998.24	596337.52	
8177.00	19.92	264.11	8170.31	20.23	-175.03	-9.02	17.38	601996.27	596324.78	
8224.00	27.35	267.32	8213.34	39.06	-176.36	-27.80	16.04	601994.94	596306.00	
8271.00	34.81	268.39	8253.56	63.29	-177.24	-52.02	15.92	601994.06	596281.78	
8318.00	39.24	265.46	8291.08	91.58	-178.80	-80.27	10.14	601992.50	596253.53	
8365.00	42.97	262.81	8326.49	122.44	-181.98	-110.99	8.76	601989.32	596222.81	
8412.00	47.21	261.21	8359.66	155.63	-186.62	-143.94	9.34	601984.68	596189.86	
8459.00	51.80	260.37	8390.18	191.19	-192.35	-179.21	9.86	601978.95	596154.59	
8506.00	55.54	260.33	8418.02	228.84	-198.70	-216.54	7.96	601972.60	596117.26	
8553.00	58.89	260.45	8443.46	268.14	-205.29	-255.49	7.13	601966.01	596078.31	
8600.00	62.35	261.65	8466.52	308.91	-211.65	-295.94	7.69	601959.65	596037.86	
8647.00	66.21	263.75	8486.91	351.16	-217.02	-337.93	9.15	601954.28	595995.87	
8695.00	70.52	264.73	8504.61	395.74	-221.49	-382.31	9.18	601949.81	595951.49	
8742.00	74.19	265.20	8518.85	440.51	-225.42	-426.92	7.87	601945.88	595906.88	
8789.00	79.02	265.46	8529.74	486.21	-229.14	-472.48	10.29	601942.16	595861.32	
8836.00	83.62	265.16	8536.83	532.65	-232.94	-518.77	9.81	601938.36	595815.03	
8883.00	89.16	265.04	8539.78	579.53	-236.94	-565.49	11.79	601934.36	595768.31	
8911.00	90.88	265.06	8539.77	607.52	-239.36	-593.38	6.14	601931.94	595740.42	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
9005.00	90.95	262.81	8538.27	701.42	-249.29	-686.84	2.39	601922.01	595646.96	
9099.00	91.09	261.95	8536.60	795.18	-261.75	-779.99	0.93	601909.55	595553.81	
9193.00	89.55	263.91	8536.08	889.01	-273.32	-873.27	2.65	601897.98	595460.53	
9288.00	89.76	263.52	8536.65	983.91	-283.72	-967.70	0.47	601887.58	595366.10	
9382.00	89.13	266.56	8537.56	1077.87	-291.85	-1061.33	3.30	601879.45	595272.47	
9476.00	90.25	269.77	8538.07	1171.81	-294.86	-1155.26	3.62	601876.44	595178.54	
9571.00	91.65	270.04	8536.49	1266.61	-295.01	-1250.25	1.50	601876.29	595083.55	
9665.00	89.97	269.42	8535.16	1360.43	-295.46	-1344.23	1.91	601875.84	594989.57	
9759.00	89.48	269.39	8535.61	1454.29	-296.43	-1438.23	0.52	601874.87	594895.57	
9853.00	88.85	269.45	8536.98	1548.14	-297.38	-1532.21	0.67	601873.92	594801.59	
9947.00	89.34	269.49	8538.47	1641.99	-298.25	-1626.20	0.52	601873.05	594707.60	
10042.00	89.62	269.32	8539.33	1736.85	-299.24	-1721.19	0.34	601872.06	594612.61	
10136.00	89.83	268.64	8539.78	1830.74	-300.91	-1815.17	0.76	601870.39	594518.63	
10230.00	89.90	269.43	8540.00	1924.64	-302.50	-1909.16	0.84	601868.80	594424.64	
10324.00	90.95	270.43	8539.31	2018.44	-302.61	-2003.15	1.54	601868.69	594330.65	
10419.00	92.14	270.86	8536.74	2113.14	-301.54	-2098.11	1.33	601869.76	594235.69	
10513.00	92.70	270.32	8532.78	2206.79	-300.58	-2192.02	0.83	601870.72	594141.78	
10607.00	91.79	269.19	8529.09	2300.55	-300.98	-2285.94	1.54	601870.32	594047.86	
10701.00	90.18	269.24	8527.48	2394.41	-302.27	-2379.92	1.71	601869.03	593953.88	
10795.00	90.32	269.12	8527.07	2488.29	-303.61	-2473.91	0.20	601867.69	593859.89	
10890.00	90.81	268.64	8526.13	2583.19	-305.47	-2568.88	0.72	601865.83	593764.92	
10984.00	91.16	268.88	8524.51	2677.09	-307.50	-2662.85	0.45	601863.80	593670.95	
11078.00	90.81	269.48	8522.90	2770.96	-308.85	-2756.82	0.74	601862.45	593576.98	
11172.00	91.02	269.33	8521.40	2864.81	-309.82	-2850.81	0.27	601861.48	593482.99	
11266.00	90.39	269.22	8520.24	2958.68	-311.01	-2944.79	0.68	601860.29	593389.01	
11360.00	90.23	269.74	8519.73	3052.54	-311.86	-3038.79	0.58	601859.44	593295.01	
11455.00	91.28	269.20	8518.48	3147.38	-312.74	-3133.77	1.24	601858.56	593200.03	
11549.00	92.40	268.86	8515.46	3241.23	-314.33	-3227.71	1.25	601856.97	593106.09	
11643.00	91.49	269.99	8512.27	3335.03	-315.28	-3321.65	1.54	601856.02	593012.15	
11737.00	89.11	269.84	8511.78	3428.84	-315.42	-3415.64	2.54	601855.88	592918.16	
11832.00	89.46	269.54	8512.97	3523.67	-315.93	-3510.63	0.49	601855.37	592823.17	
11926.00	89.95	269.43	8513.45	3617.52	-316.77	-3604.62	0.53	601854.53	592729.18	
12020.00	90.37	269.15	8513.19	3711.40	-317.94	-3698.62	0.54	601853.36	592635.18	
12115.00	91.28	269.07	8511.82	3806.27	-319.41	-3793.59	0.96	601851.89	592540.21	
12209.00	92.89	269.21	8508.40	3900.09	-320.82	-3887.52	1.72	601850.48	592446.28	
12303.00	90.44	269.78	8505.67	3993.90	-321.65	-3981.47	2.68	601849.65	592352.33	
12397.00	91.14	269.68	8504.37	4087.73	-322.10	-4075.46	0.75	601849.20	592258.34	
12491.00	92.19	269.65	8501.64	4181.53	-322.64	-4169.41	1.12	601848.66	592164.39	
12586.00	91.77	269.62	8498.36	4276.31	-323.25	-4264.36	0.44	601848.05	592069.44	
12680.00	90.93	270.48	8496.14	4370.08	-323.17	-4358.33	1.28	601848.13	591975.47	
12774.00	91.35	270.37	8494.27	4463.82	-322.47	-4452.31	0.46	601848.83	591881.49	
12869.00	90.23	270.44	8492.96	4558.57	-321.80	-4547.29	1.18	601849.50	591786.51	
12963.00	90.93	270.50	8492.01	4652.32	-321.03	-4641.29	0.75	601850.27	591692.51	
13057.00	91.91	270.37	8489.68	4746.05	-320.31	-4735.25	1.05	601850.99	591598.55	
13151.00	91.07	269.06	8487.24	4839.85	-320.78	-4829.22	1.66	601850.52	591504.58	
13245.00	88.62	269.12	8487.49	4933.73	-322.27	-4923.20	2.61	601849.03	591410.60	
13340.00	88.97	268.52	8489.49	5028.62	-324.23	-5018.16	0.73	601847.07	591315.64	
13434.00	89.67	268.60	8490.61	5122.54	-326.59	-5112.12	0.75	601844.71	591221.68	
13528.00	90.65	268.61	8490.34	5216.46	-328.88	-5206.09	1.04	601842.42	591127.71	
13623.00	91.63	268.66	8488.45	5311.37	-331.14	-5301.04	1.03	601840.16	591032.76	
13717.00	92.26	269.11	8485.26	5405.22	-332.97	-5394.97	0.82	601838.33	590938.83	
13750.00	92.61	269.04	8483.86	5438.15	-333.50	-5427.94	1.08	601837.80	590905.86	Last WFT MWD Svy
13813.00	92.61	269.04	8480.99	5501.01	-334.56	-5490.86	0.00	601836.74	590842.94	TD@13813' MD / PTB

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505	Form C-103 August 1, 2011 Permit 269609 WELL API NUMBER 30-015-45381 5. Indicate Type of Lease S 6. State Oil & Gas Lease No. 7. Lease Name or Unit Agreement Name PALMILLO 14 15 STATE																																																																
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)																																																																		
1. Type of Well: O		8. Well Number 307H																																																																
2. Name of Operator APACHE CORPORATION		9. OGRID Number 873																																																																
3. Address of Operator 303 Veterans Airpark Ln, #1000, Midland, TX 79705		10. Pool name or Wildcat																																																																
4. Well Location Unit Letter <u>M</u> : <u>631</u> feet from the <u>S</u> line and feet <u>351</u> from the <u>W</u> line Section <u>14</u> Township <u>19S</u> Range <u>28E</u> NMPM County <u>Eddy</u>																																																																		
11. Elevation (Show whether DR, KB, BT, GR, etc.) 3446 GR																																																																		
Pit or Below-grade Tank Application ☐ or Closure ☐ Pit Type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____ Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____																																																																		
12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data <table style="width:100%;"> <tr> <td colspan="2">NOTICE OF INTENTION TO:</td> <td colspan="2">SUBSEQUENT REPORT OF:</td> </tr> <tr> <td>PERFORM REMEDIAL WORK ☐</td> <td>PLUG AND ABANDON ☐</td> <td>REMEDIAL WORK ☐</td> <td>ALTER CASING ☐</td> </tr> <tr> <td>TEMPORARILY ABANDON ☐</td> <td>CHANGE OF PLANS ☐</td> <td>COMMENCE DRILLING OPNS. ☐</td> <td>PLUG AND ABANDON ☐</td> </tr> <tr> <td>PULL OR ALTER CASING ☐</td> <td>MULTIPLE COMPL ☐</td> <td>CASING/CEMENT JOB ☐</td> <td></td> </tr> <tr> <td colspan="2">Other: _____</td> <td colspan="2">Other: <u>Drilling/Cement</u> ☒</td> </tr> </table>			NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:		PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTER CASING ☐	TEMPORARILY ABANDON ☐	CHANGE OF PLANS ☐	COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDON ☐	PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐		Other: _____		Other: <u>Drilling/Cement</u> ☒																																													
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13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work.) SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion. SURF: 400sx Cl C w/2% CaCl2(1.34yld,14.8ppg); INTERM LEAD: 720sx Cl C w/6% bentonite, 0.125sx CF, 0.5% chemical extender, 0.4#/skdefoamer, 1.0#/sk kolseal, 5% salt(2.32yld/12.7ppg), TAIL: 280sx Cl C w/0.3% retarder(1.33yld,14.8ppg); PROD LEAD: 930sx Cl C w/0.4% defoamer, 0.7% fluid loss, 10% gel, 0.6% retarder, 8% strengthener(1.9yld,11ppg), TAIL: 2145sx Cl C w/0.25% defoamer, 0.2% dispersant, 3% expansion additive, 0.5% fluid loss, 0.1% free water control, 1.3% strength modifier(1.43yld,13.2ppg)5/12/2019 Spudded well.																																																																		
Casing and Cement Program <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Date</th> <th>String</th> <th>Fluid Type</th> <th>Hole Size</th> <th>Csg Size</th> <th>Weight lb/ft</th> <th>Grade</th> <th>Est TOC</th> <th>Dpth Set</th> <th>Sacks</th> <th>Yield</th> <th>Class</th> <th>1" Dpth</th> <th>Pres Held</th> <th>Pres Drop</th> <th>Open Hole</th> </tr> </thead> <tbody> <tr> <td>05/12/19</td> <td>Surf</td> <td>FreshWater</td> <td>17.5</td> <td>13.375</td> <td>48</td> <td>H40</td> <td>0</td> <td>303</td> <td>400</td> <td>1.34</td> <td>C</td> <td></td> <td>600</td> <td></td> <td>N</td> </tr> <tr> <td>05/26/19</td> <td>Int1</td> <td>FreshWater</td> <td>12.25</td> <td>9.625</td> <td>40</td> <td>J55</td> <td>0</td> <td>3525</td> <td>1000</td> <td>1.33</td> <td>C</td> <td></td> <td>1350</td> <td></td> <td>N</td> </tr> <tr> <td>06/08/19</td> <td>Prod</td> <td>FreshWater</td> <td>8.75</td> <td>5.5</td> <td>20</td> <td>P110</td> <td>0</td> <td>13813</td> <td>3075</td> <td>1.43</td> <td>C</td> <td></td> <td></td> <td></td> <td>N</td> </tr> </tbody> </table>			Date	String	Fluid Type	Hole Size	Csg Size	Weight lb/ft	Grade	Est TOC	Dpth Set	Sacks	Yield	Class	1" Dpth	Pres Held	Pres Drop	Open Hole	05/12/19	Surf	FreshWater	17.5	13.375	48	H40	0	303	400	1.34	C		600		N	05/26/19	Int1	FreshWater	12.25	9.625	40	J55	0	3525	1000	1.33	C		1350		N	06/08/19	Prod	FreshWater	8.75	5.5	20	P110	0	13813	3075	1.43	C				N
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I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐ , a general permit ☐ or an (attached) alternative OCD-approved plan ☐ .																																																																		
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District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Comments

Permit 269609

DRILLING COMMENTS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705		OGRID: 873
		Permit Number: 269609
		Permit Type: Drilling

Comments

Created By	Comment	Comment Date
sflores	Surf csg test - 600psi/30min - OK, Interm csg test - 1350psi/30min - OK	7/11/2019
sflores	For prod string - drilled 8-3/4" vertical/curve to 8934', then drilled 8-1/2" slim hole lateral f/8934'-13813' TD. Ran 5-1/2" csg throughout prod hole to TD as stated.	7/11/2019

Submit To Appropriate District Office Two Copies District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy Minerals and Natural Resources Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505			Form C-105 July 17, 2008					
		1. WELL API NO. 30-015-45381								
		2. Type of Lease ☒ STATE ☐ FEE ☐ FED/INDIAN								
		3. State Oil & Gas Lease No. 317303								
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)		5. Lease Name or Unit Agreement Name Palmillo 14-15 State 6. Well Number: 307H								
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER										
8. Name of Operator Apache Corporation		9. OGRID 873								
10. Address of Operator 303 Veterans Airpark Lane, Suite 1000 Midland, TX 79705		11. Pool name or Wildcat Palmillo; Bone Spring, Southwest (96413)								
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	M	14	19S	28E		631	S	351	W	Eddy
BH:	M	15	19S	28E		349	S	54	W	Eddy
13. Date Spudded 05/12/2019	14. Date T.D. Reached 06/07/2019	15. Date Rig Released 06/09/2019	16. Date Completed (Ready to Produce) 10/24/2019		17. Elevations (DF and RKB, RT, GR, etc.) 3446					
18. Total Measured Depth of Well 13813	19. Plug Back Measured Depth 13767	20. Was Directional Survey Made? yes		21. Type Electric and Other Logs Run NONE						
22. Producing Interval(s), of this completion - Top, Bottom, Name 8709-13721										
CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
13 3/8		48		303		17 1/2		400		0
9 5/8		40		3525		12 1/4		1000		0
5 1/2		20		13813		8 3/4		3075		0
24. LINER RECORD										
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN						
25. TUBING RECORD										
SIZE		DEPTH SET		PACKER SET						
✓ 2 7/8		8254								
26. Perforation record (interval, size, and number) 8709-13721										
27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 8709-13721 100 mesh = 8126720 lbs, 20/40= 2016000 lbs										
28. PRODUCTION										
Date First Production 10/24/2019		Production Method (Flowing, gas lift, pumping - Size and type pump) gas lift				Well Status (Prod. or Shut-in) prod				
Date of Test 10/28/2019	Hours Tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl 268	Gas - MCF 374	Water - Bbl. 1629	Gas - Oil Ratio			
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl. 268	Gas - MCF 374	Water - Bbl. 1629	Oil Gravity - API - (Corr.) 40				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold						30. Test Witnessed By Apache Corp.				
31. List Attachments Inclination Report, C-102, C-103, C-104										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.										
33. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude					Longitude					
					NAD 1927 1983					
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature		Printed Name			Title			Date		
Alicia Fulton		Alicia Fulton			Sr. Regulatory Analyst			12/02/2019		
E-mail Address alicia.fulton@apachecorp.com										

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates 830	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers 1213	T. Devonian	T. Cliff House	T. Leadville
T. Queen 1650	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres 2460	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T. Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs 6397	T. Todilto	
T. Abo	T. Rustler	T. Entrada	
T. Wolfcamp	T. Tansill	T. Wingate	
T. Penn	T. Penrose	T. Chinle	
T. Cisco (Bough C)	T. Bowers-SD	T. Permian	

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....

No. 3, from.....to.....

No. 2, from.....to.....

No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....

No. 2, from.....to.....feet.....

No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology

From	To	Thickness In Feet	Lithology