

Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

May 1, 2018

Oxy USA Inc.

HOBBS OCD

AUG 09 2018

RECEIVED

Re:

CLIENT: Oxy USA Inc.
WELL: Mesa Verde BS Unit 4H
FIELD: Mesa Verde Bone Spring

RIG: H&P 617
COUNTY: Lea
API NO: 30-025-44064
JOB NO: 17MLD2496

17, 24 South, 32 East, Lea NM
-32.21101 -103.69131

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, a division of Schlumberger Technology Corporation (P-5 No. 754900).
Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Tyler Matthews FE	Mesa Verde BS Unit 4H Original Hole	10782.00 Ft to 20503.00 Ft	April 2, 2018 to April 7, 2018	SlimPulse

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Field Service Manager

Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

Well Reference:
17, 24 South, 32 East, Lea NM
-32.21101 -103.69131

I, Tyler Matthews certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of April 02, 2018 through April 07, 2018, conduct or supervise the taking of the SlimPulse surveys from a depth of 10782.00 feet to a depth of 20503.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of Oxy USA Inc. for the Mesa Verde BS Unit 4H Well (Original Hole) API No. 30-025-44064 in New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

Tyler Matthews

By
Tyler Matthews
FE

Subscribed and Sworn to before me this 2nd day of May (month) 2018 (yr)

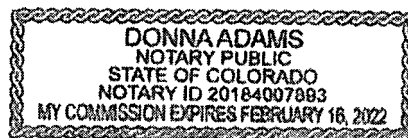
My Commission expires:

2-16-2022

D. Adams
Notary Public

(signature)

Adams County Colorado
(County State)



OXY



Miscellaneous
Sit: Oxy Mesa Verde **TVD Ref:** RCD-26.5 (3667ft above MSL)
GS Unit 4
Plan: Oxy Mesa Verde GS Unit 4 Rev 3 APS 01Mar16



Oxy Mesa Verde BS Unit 4 Gyro+MWD 0-20,545' Survey Geodetic Report

(Def Survey)

Report Date: April 08, 2018 - 01:27 AM
 Client: OXY
 Field: NM Lea County (NAD 83)
 Structure / Slat: Oxy Mesa Verde BS Unit 4 / Oxy Mesa Verde BS Unit 4
 Well: Oxy Mesa Verde BS Unit 4
 Borehole: Original Borehole
 UWI / API#: Unknown / 30-025-44064
 Survey Name: Oxy Mesa Verde BS Unit 4 Gyro+MWD 0-20,545'
 Survey Date: March 28, 2018
 Tort / AHD / DDI / ERD Ratio: 180.277' / 10817.396 ft / 6.582 / 1.031
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 12' 39.64722", W 103° 41' 28.70590"
 Location Grid N/E Y/X: N 441093.670 NUS, E 739902.800 NUS
 CRS Grid Convergence Angle: 0.3422 °
 Grid Scale Factor: 0.99995425
 Version / Patch: 2.10.715.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 2.662 ° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB=26.5'
 TVD Reference Elevation: 3587.000 ft above MSL
 Seabed / Ground Elevation: 3560.500 ft above MSL
 Magnetic Declination: 6.828 °
 Total Gravity Field Strength: 988.4321mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48019.780 nT
 Magnetic Dip Angle: 59.928 °
 Declination Date: March 28, 2018
 Magnetic Declination Model: HDGM 2018
 North Reference: Grid North
 Grid Convergence Used: 0.3422 °
 Total Corr Mag North-Grid North: 6.4870 °
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azlm Grid (°)	TVD (ft)	VSEB (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (NUS)	Easting (EUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
RKB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	441093.67	739902.80	N 32 12 39.65 W 103 41 28.71	
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	441093.67	739902.80	N 32 12 39.65 W 103 41 28.71	
	46.30	0.56	150.93	46.30	-0.08	-0.08	0.05	2.83	441093.59	739902.65	N 32 12 39.65 W 103 41 28.71	
	137.60	0.49	156.41	137.60	-0.81	-0.83	0.42	0.09	441092.84	739903.02	N 32 12 39.64 W 103 41 28.70	
	228.80	0.39	168.05	228.79	-1.46	-1.49	0.64	0.15	441092.18	739903.24	N 32 12 39.63 W 103 41 28.70	
	320.10	0.39	179.14	320.09	-2.07	-2.11	0.71	0.08	441091.56	739903.31	N 32 12 39.63 W 103 41 28.70	
	411.30	0.37	186.72	411.29	-2.67	-2.70	0.83	0.13	441090.97	739903.23	N 32 12 39.62 W 103 41 28.70	
	502.60	0.40	208.85	502.59	-3.24	-3.26	0.39	0.09	441090.41	739902.99	N 32 12 39.61 W 103 41 28.70	
	593.90	0.39	208.23	593.88	-3.81	-3.81	0.09	0.01	441089.88	739902.89	N 32 12 39.61 W 103 41 28.71	
	685.10	0.11	205.36	685.09	-4.17	-4.17	-0.09	0.31	441089.50	739902.51	N 32 12 39.61 W 103 41 28.71	
	776.40	0.13	352.95	776.38	-4.15	-4.14	-0.14	0.25	441089.53	739902.46	N 32 12 39.61 W 103 41 28.71	
	867.60	0.05	358.32	867.58	-4.01	-4.00	-0.17	0.09	441089.67	739902.43	N 32 12 39.61 W 103 41 28.71	
	958.80	0.28	180.21	958.88	-4.18	-4.17	-0.19	0.34	441089.50	739902.41	N 32 12 39.61 W 103 41 28.71	
	1053.20	0.15	174.27	1053.18	-4.51	-4.51	-0.18	0.12	441089.16	739902.42	N 32 12 39.60 W 103 41 28.71	
	1148.00	0.11	158.64	1147.98	-4.72	-4.72	-0.13	0.06	441088.95	739902.47	N 32 12 39.60 W 103 41 28.71	
	1242.70	0.12	171.87	1242.68	-4.90	-4.90	-0.08	0.03	441088.77	739902.52	N 32 12 39.60 W 103 41 28.71	
	1337.20	0.14	197.33	1337.18	-5.11	-5.11	-0.10	0.08	441088.58	739902.50	N 32 12 39.60 W 103 41 28.71	
	1431.90	0.14	227.17	1431.88	-5.30	-5.30	-0.22	0.08	441088.37	739902.38	N 32 12 39.59 W 103 41 28.71	
	1526.50	0.15	248.05	1526.48	-5.44	-5.42	-0.42	0.06	441088.25	739902.16	N 32 12 39.59 W 103 41 28.71	
	1621.20	0.17	280.63	1621.18	-5.47	-5.44	-0.68	0.10	441088.23	739901.92	N 32 12 39.59 W 103 41 28.71	
	1715.90	0.25	328.48	1715.88	-5.28	-5.25	-0.93	0.19	441088.42	739901.87	N 32 12 39.60 W 103 41 28.72	
	1810.50	0.27	336.45	1810.48	-4.92	-4.87	-1.13	0.05	441088.60	739901.47	N 32 12 39.60 W 103 41 28.72	
	1905.10	0.19	337.03	1905.08	-4.57	-4.52	-1.28	0.08	441089.15	739901.32	N 32 12 39.60 W 103 41 28.72	
	1999.80	0.10	321.32	1999.78	-4.36	-4.30	-1.38	0.10	441089.37	739901.22	N 32 12 39.60 W 103 41 28.72	
	2094.50	0.05	328.47	2094.48	-4.26	-4.20	-1.44	0.05	441089.47	739901.16	N 32 12 39.61 W 103 41 28.72	
	2189.30	0.05	318.32	2189.28	-4.19	-4.13	-1.49	0.01	441089.54	739901.11	N 32 12 39.61 W 103 41 28.72	
	2283.80	0.03	300.38	2283.78	-4.15	-4.09	-1.54	0.02	441089.58	739901.06	N 32 12 39.61 W 103 41 28.72	
	2378.00	0.03	288.68	2377.98	-4.14	-4.07	-1.59	0.01	441089.60	739901.01	N 32 12 39.61 W 103 41 28.72	
	2472.50	0.03	285.57	2472.48	-4.12	-4.05	-1.64	0.00	441089.62	739900.96	N 32 12 39.61 W 103 41 28.73	
	2567.10	0.02	270.69	2567.08	-4.12	-4.05	-1.68	0.01	441089.62	739900.92	N 32 12 39.61 W 103 41 28.73	
	2661.80	0.03	211.45	2661.78	-4.14	-4.07	-1.71	0.03	441089.60	739900.89	N 32 12 39.61 W 103 41 28.73	
	2756.30	0.13	180.14	2756.28	-4.27	-4.20	-1.72	0.11	441089.47	739900.88	N 32 12 39.61 W 103 41 28.73	
	2851.00	0.19	162.91	2850.98	-4.52	-4.48	-1.67	0.08	441089.22	739900.93	N 32 12 39.60 W 103 41 28.73	
	2945.60	0.23	152.31	2945.58	-4.84	-4.77	-1.54	0.05	441088.90	739901.08	N 32 12 39.60 W 103 41 28.72	
	3040.30	0.23	150.06	3040.28	-5.16	-5.11	-1.35	0.01	441088.57	739901.25	N 32 12 39.60 W 103 41 28.72	
	3134.80	0.08	201.84	3134.78	-5.37	-5.32	-1.28	0.21	441088.35	739901.32	N 32 12 39.59 W 103 41 28.72	
	3229.50	0.04	247.68	3229.48	-5.43	-5.37	-1.33	0.05	441088.30	739901.27	N 32 12 39.59 W 103 41 28.72	
	3324.30	0.06	94.84	3324.28	-5.44	-5.39	-1.31	0.10	441088.28	739901.29	N 32 12 39.59 W 103 41 28.72	
	3419.00	0.02	102.51	3418.98	-5.45	-5.40	-1.24	0.04	441088.27	739901.38	N 32 12 39.59 W 103 41 28.72	
	3515.70	0.00	33.93	3515.68	-5.45	-5.40	-1.23	0.02	441088.27	739901.37	N 32 12 39.59 W 103 41 28.72	
	3608.20	0.10	259.82	3608.18	-5.47	-5.42	-1.31	0.11	441088.25	739901.29	N 32 12 39.59 W 103 41 28.72	
	3702.80	0.02	245.31	3702.78	-5.50	-5.44	-1.40	0.09	441088.23	739901.20	N 32 12 39.59 W 103 41 28.72	
	3797.50	0.05	288.59	3797.48	-5.49	-5.43	-1.46	0.04	441088.24	739901.14	N 32 12 39.59 W 103 41 28.72	
	3892.20	0.13	161.64	3892.18	-5.58	-5.52	-1.46	0.17	441088.15	739901.14	N 32 12 39.59 W 103 41 28.72	
	3986.70	0.93	138.85	3986.67	-6.23	-6.20	-0.92	0.86	441087.47	739901.68	N 32 12 39.59 W 103 41 28.72	
	4081.40	1.09	136.88	4081.36	-7.42	-7.44	0.20	0.17	441086.23	739902.80	N 32 12 39.57 W 103 41 28.70	
	4175.90	0.30	102.85	4175.85	-8.09	-8.15	1.05	0.81	441085.52	739903.85	N 32 12 39.57 W 103 41 28.69	
	4270.40	0.70	164.76	4270.35	-8.69	-8.78	1.45	0.85	441084.91	739904.05	N 32 12 39.56 W 103 41 28.69	
	4365.00	1.58	159.16	4364.93	-10.42	-10.52	2.06	0.92	441083.15	739904.66	N 32 12 39.54 W 103 41 28.68	
	4459.50	1.55	147.33	4459.39	-12.64	-12.80	3.20	0.34	441080.87	739905.80	N 32 12 39.52 W 103 41 28.67	
	4553.90	0.40	86.10	4553.78	-13.71	-13.91	4.22	1.42	441079.78	739906.82	N 32 12 39.51 W 103 41 28.66	
	4648.00	0.38	77.77	4647.88	-13.65	-13.88	4.85	0.13	441079.79	739907.45	N 32 12 39.51 W 103 41 28.65	
	4742.50	0.10	22.40	4742.37	-13.49	-13.73	5.19	0.35	441079.94	739907.79	N 32 12 39.51 W 103 41 28.65	
	4837.20	0.07	333.52	4837.07	-13.36	-13.61	5.20	0.08	441080.06	739907.80	N 32 12 39.51 W 103 41 28.65	
	4931.70	0.07	319.39	4931.57	-13.27	-13.51	5.13	0.02	441080.16	739907.73	N 32 12 39.51 W 103 41 28.65	
	5026.20	0.06	345.17	5026.07	-13.18	-13.42	5.08	0.03	441080.25	739907.68	N 32 12 39.51 W 103 41 28.65	
	5120.90	0.06	343.60	5120.77	-13.08	-13.32	5.05	0.00	441080.35	739907.66	N 32 12 39.52 W 103 41 28.65	
	5215.60	0.06	337.19	5215.47	-12.99	-13.23	5.02	0.01	441080.44	739907.62	N 32 12 39.52 W 103 41 28.65	
	5310.20	0.07	309.70	5310.07	-12.91	-13.15	4.96	0.03	441080.52	739907.56	N 32 12 39.52 W 103 41 28.65	
	5404.40	0.08	324.12	5404.27	-12.84	-13.07	4.89	0.02	441080.60	739907.49	N 32 12 39.52 W 103 41 28.65	
	5499.00	0.06	328.08	5498.87	-12.76	-12.99	4.83	0.00	441080.68	739907.43	N 32 12 39.52 W 103 41 28.65	
	5593.40	0.07	319.19	5593.27	-12.68	-12.90	4.77	0.02	441080.77	739907.37	N 32 12 39.52 W 103 41 28.65	
	5687.70	0.07	148.26	5687.57	-12.68	-12.91	4.76	0.15	441080.78	739907.36	N 32 12 39.52 W 103 41 28.65	
	5782.10	0.07	171.41	5781.97	-12.78	-13.01	4.80	0.03	441080.65	739907.40	N 32 12 39.52 W 103 41 28.65	
	5876.40	0.06	153.05	5876.27	-12.89	-13.12	4.83	0.02	441080.56	739907.43	N 32 12 39.52 W 103 41 28.65	
	5970.90	0.06	157.18	5970.77	-12.97	-13.21	4.87	0.00	441080.47	739907.47	N 32 12 39.52 W 103 41 28.65	
	6065.50	0.08	140.25	6065.37	-13.07	-13.30	4.93	0.03	441080.37	739907.53	N 32 12 39.52 W 103 41 28.65	
	6159.90	0.06	162.66	6159.77	-13.16	-13.40	5.00	0.03	441080.27	739907.60	N 32 12 39.51 W 103 41 28.65	
	6254.20	0.06	170.44	6254.07	-13.25	-13.49	5.03	0.02	441080.18	739907.63	N 32 12 39.51 W 103 41 28.65	
	6348.50	0.07	139.32	6348.37	-13.34	-13.58	5.07	0.04	441080.09	739907.67	N 32 12 39.51 W 103 41 28.65	
	6442.80	0.09	144.22	6442.67	-13.44	-13.68	5.15	0.02	441079.99	739907.75	N 32 12 39.51 W 103 41 28.65	
	6537.20	0.07	135.78	6537.07	-13.54	-13.79	5.24	0.02	441079.88	739907.84	N 32 12 39.51 W 103 41 28.65	
	6631.40	0.02	71.23	6631.27	-13.57	-13.82	5.29	0.07	441079.85	739907.89	N 32 12 39.51 W 103 41 28.65	
	6726.00	1.45	126.34	6725.86	-14.23	-14.53	6.27	1.52	441079.14	739908.87	N 32 12 39.50 W 103 41 28.63	
	6820.70	3.82	126.94									

[illegible]

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLG (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ° °)	Longitude (E/W ° ° °)
	18313.00	89.97	359.37	10451.98	8877.74	8864.56	493.18	0.36	449967.80	740395.76	N 32 14 7.33	W 103 41 22.35
	18408.00	90.03	358.49	10451.98	8872.55	8859.54	491.41	0.93	450052.78	740393.98	N 32 14 8.27	W 103 41 22.38
	19503.00	90.17	358.87	10451.79	9067.33	9054.81	489.22	0.43	450147.73	740391.80	N 32 14 9.21	W 103 41 22.38
	19597.00	90.14	359.26	10451.54	9161.18	9148.50	487.69	0.42	450241.73	740390.28	N 32 14 10.14	W 103 41 22.39
	19788.00	90.31	358.73	10450.80	9349.79	9337.47	484.37	0.29	450430.69	740386.95	N 32 14 12.01	W 103 41 22.42
	19881.00	90.14	358.42	10450.42	9444.58	9432.44	482.01	0.37	450525.68	740384.58	N 32 14 12.95	W 103 41 22.44
	20086.00	89.88	359.21	10450.38	9629.16	9617.40	478.18	0.45	450710.61	740380.76	N 32 14 14.78	W 103 41 22.47
	20181.00	90.68	359.55	10449.93	9724.01	9712.38	477.16	0.92	450805.60	740379.74	N 32 14 15.72	W 103 41 22.47
	20255.00	90.22	358.49	10449.19	9817.70	9806.32	473.93	3.30	450898.52	740376.50	N 32 14 16.65	W 103 41 22.51
	20350.00	90.63	354.94	10448.48	9912.02	9901.05	466.83	1.89	450994.25	740369.41	N 32 14 17.59	W 103 41 22.68
	20444.00	90.53	356.04	10447.62	10005.30	9994.75	459.44	1.17	451087.94	740362.01	N 32 14 18.62	W 103 41 22.68
Final MWD Survey	20503.00	90.50	356.89	10446.97	10083.95	10053.64	455.80	1.44	451146.83	740358.38	N 32 14 19.10	W 103 41 22.70
Proj. to Bit	20545.00	90.50	358.89	10446.81	10105.75	10095.57	453.52	0.00	451188.78	740356.10	N 32 14 19.62	W 103 41 22.72

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma

Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	26.500	1/88.425	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Mesa Verde BS Unit 4 Gyro+MWD 0- 20,545'
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Mesa Verde BS Unit 4 Gyro+MWD 0- 20,545'
	1	26.500	10897.800	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Mesa Verde BS Unit 4 Gyro+MWD 0- Original Borehole / Oxy Mesa
	1	10897.800	20545.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Verde BS Unit 4 Gyro+MWD 0-



Oxy Mesa Verde BS Unit 4 Gyro+MWD 0-20,545' Survey Geodetic Report

(Def Survey)

Report Date: April 08, 2018 - 01:27 AM
 Client: OXY
 Field: NM Lea County (NAD 83)
 Structure / Biot: Oxy Mesa Verde BS Unit 4 / Oxy Mesa Verde BS Unit 4
 Well: Oxy Mesa Verde BS Unit 4
 Borehole: Original Borehole
 UWI / API# : Unknown / 30-025-44064
 Survey Name: Oxy Mesa Verde BS Unit 4 Gyro+MWD 0-20,545'
 Survey Date: March 26, 2018
 Tort / AHD / DDI / ERD Ratio: 180.277' / 10817.396 ft / 8.562' / 1.031
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 12' 39.64722", W 103° 41' 28.70590"
 Location Grid N/E Y/X: N 441093.670 HUS, E 739902.600 HUS
 CRS Grid Convergence Angle: 0.3422°
 Grid Scale Factor: 0.9999425
 Version / Patch: 2.10.715.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 2.562° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB=26.5'
 TVD Reference Elevation: 3587.000 ft above MSL
 Seabed / Ground Elevation: 3560.500 ft above MSL
 Magnetic Declination: 8.829°
 Total Gravity Field Strength: 988.4321mg (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48019.780 nT
 Magnetic Dip Angle: 58.928°
 Declination Date: March 26, 2018
 Magnetic Declination Model: HDGM 2018
 North Reference: Grid North
 Grid Convergence Used: 0.3422°
 Total Corr Mag North-Grid North: 6.4870°
 Local Coord Referenced To: Wolf Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (MUS)	Easting (MUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
RKB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	441093.67	739902.60	N 32 12 39.65	W 103 41 28.71
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	441093.67	739902.60	N 32 12 39.65	W 103 41 28.71
	48.30	0.56	150.93	48.30	-0.08	-0.08	0.05	2.83	441093.59	739902.65	N 32 12 39.65	W 103 41 28.71
	137.60	0.49	166.41	137.60	-0.81	-0.83	0.42	0.09	441092.84	739903.02	N 32 12 39.64	W 103 41 28.70
	228.80	0.39	168.05	228.79	-1.46	-1.49	0.64	0.16	441092.18	739903.24	N 32 12 39.63	W 103 41 28.70
	320.10	0.39	179.14	320.09	-2.07	-2.11	0.71	0.08	441091.56	739903.31	N 32 12 39.63	W 103 41 28.70
	411.30	0.37	186.72	411.29	-2.67	-2.70	0.63	0.13	441090.97	739903.23	N 32 12 39.62	W 103 41 28.70
	502.60	0.40	208.85	502.59	-3.24	-3.26	0.39	0.09	441090.41	739902.99	N 32 12 39.61	W 103 41 28.70
	593.90	0.38	208.23	593.88	-3.81	-3.81	0.09	0.01	441089.86	739902.69	N 32 12 39.61	W 103 41 28.71
	685.10	0.11	206.36	685.08	-4.17	-4.17	-0.09	0.31	441089.50	739902.51	N 32 12 39.61	W 103 41 28.71
	776.40	0.13	352.95	776.38	-4.16	-4.14	-0.14	0.25	441089.53	739902.46	N 32 12 39.61	W 103 41 28.71
	867.60	0.05	338.32	867.58	-4.01	-4.00	-0.17	0.09	441089.67	739902.43	N 32 12 39.61	W 103 41 28.71
	958.90	0.26	180.21	958.88	-4.18	-4.17	-0.19	0.34	441089.50	739902.41	N 32 12 39.61	W 103 41 28.71
	1053.20	0.15	174.27	1053.18	-4.51	-4.51	-0.18	0.12	441089.16	739902.42	N 32 12 39.60	W 103 41 28.71
	1148.00	0.11	158.64	1147.98	-4.72	-4.72	-0.13	0.06	441088.95	739902.47	N 32 12 39.60	W 103 41 28.71
	1242.70	0.12	171.87	1242.68	-4.90	-4.90	-0.08	0.03	441088.77	739902.52	N 32 12 39.60	W 103 41 28.71
	1337.20	0.14	197.33	1337.18	-5.11	-5.11	-0.10	0.06	441088.56	739902.50	N 32 12 39.60	W 103 41 28.71
	1431.90	0.14	227.17	1431.88	-5.30	-5.30	-0.22	0.08	441088.37	739902.38	N 32 12 39.59	W 103 41 28.71
	1526.50	0.15	248.05	1526.48	-5.44	-5.42	-0.42	0.06	441088.25	739902.18	N 32 12 39.59	W 103 41 28.71
	1621.20	0.17	280.63	1621.18	-5.47	-5.44	-0.68	0.10	441088.23	739901.92	N 32 12 39.59	W 103 41 28.71
	1715.90	0.25	326.46	1715.88	-5.28	-5.25	-0.93	0.19	441088.42	739901.97	N 32 12 39.60	W 103 41 28.72
	1810.50	0.27	336.45	1810.48	-4.92	-4.87	-1.13	0.05	441088.60	739901.47	N 32 12 39.60	W 103 41 28.72
	1905.10	0.19	337.03	1905.08	-4.57	-4.52	-1.28	0.08	441089.15	739901.32	N 32 12 39.60	W 103 41 28.72
	1999.60	0.10	321.32	1999.76	-4.36	-4.30	-1.38	0.10	441089.37	739901.22	N 32 12 39.60	W 103 41 28.72
	2094.50	0.05	328.47	2094.48	-4.26	-4.20	-1.44	0.05	441089.47	739901.16	N 32 12 39.61	W 103 41 28.72
	2189.30	0.05	316.32	2189.28	-4.19	-4.13	-1.49	0.01	441089.54	739901.11	N 32 12 39.61	W 103 41 28.72
	2283.80	0.03	300.36	2283.78	-4.15	-4.09	-1.54	0.02	441089.58	739901.06	N 32 12 39.61	W 103 41 28.72
	2378.00	0.03	288.66	2377.98	-4.14	-4.07	-1.59	0.01	441089.60	739901.01	N 32 12 39.61	W 103 41 28.72
	2472.50	0.03	285.57	2472.48	-4.12	-4.05	-1.64	0.00	441089.62	739900.98	N 32 12 39.61	W 103 41 28.73
	2567.10	0.02	270.69	2567.08	-4.12	-4.05	-1.68	0.01	441089.62	739900.92	N 32 12 39.61	W 103 41 28.73
	2661.60	0.03	211.45	2661.78	-4.14	-4.07	-1.71	0.03	441089.60	739900.89	N 32 12 39.61	W 103 41 28.73
	2756.30	0.13	180.14	2756.28	-4.27	-4.20	-1.72	0.11	441089.47	739900.88	N 32 12 39.61	W 103 41 28.73
	2851.00	0.19	162.91	2850.98	-4.52	-4.45	-1.67	0.08	441089.22	739900.93	N 32 12 39.60	W 103 41 28.73
	2945.60	0.23	152.31	2945.58	-4.84	-4.77	-1.54	0.05	441088.90	739901.06	N 32 12 39.60	W 103 41 28.72
	3040.30	0.23	150.06	3040.28	-5.10	-5.11	-1.35	0.01	441088.57	739901.25	N 32 12 39.60	W 103 41 28.72
	3134.80	0.08	201.84	3134.78	-5.37	-5.32	-1.28	0.21	441088.35	739901.32	N 32 12 39.59	W 103 41 28.72
	3229.50	0.04	247.68	3229.48	-5.43	-5.37	-1.33	0.05	441088.30	739901.27	N 32 12 39.59	W 103 41 28.72
	3324.30	0.06	94.84	3324.28	-5.44	-5.39	-1.31	0.10	441088.28	739901.29	N 32 12 39.59	W 103 41 28.72
	3419.00	0.02	102.51	3418.98	-5.45	-5.40	-1.24	0.04	441088.27	739901.36	N 32 12 39.59	W 103 41 28.72
	3515.70	0.00	33.93	3515.68	-5.45	-5.40	-1.23	0.02	441088.27	739901.37	N 32 12 39.59	W 103 41 28.72
	3608.20	0.10	289.82	3608.18	-5.47	-5.42	-1.31	0.11	441088.25	739901.29	N 32 12 39.59	W 103 41 28.72
	3702.80	0.02	245.31	3702.78	-5.50	-5.44	-1.40	0.09	441088.23	739901.20	N 32 12 39.59	W 103 41 28.72
	3797.50	0.05	288.59	3797.48	-5.49	-5.43	-1.46	0.04	441088.24	739901.14	N 32 12 39.59	W 103 41 28.72
	3892.20	0.13	161.64	3892.18	-5.58	-5.52	-1.46	0.17	441088.15	739901.14	N 32 12 39.59	W 103 41 28.72
	3986.70	0.93	138.85	3986.67	-6.23	-6.20	-0.92	0.86	441087.47	739901.68	N 32 12 39.59	W 103 41 28.72
	4081.40	1.09	136.68	4081.36	-7.42	-7.44	0.20	0.17	441086.23	739902.00	N 32 12 39.57	W 103 41 28.70
	4175.90	0.30	102.85	4175.86	-8.09	-8.15	1.05	0.91	441085.52	739903.65	N 32 12 39.57	W 103 41 28.69
	4270.40	0.70	164.76	4270.35	-8.89	-8.76	1.45	0.65	441084.91	739904.05	N 32 12 39.56	W 103 41 28.69
	4365.00	1.58	159.16	4364.93	-10.42	-10.52	2.06	0.92	441083.15	739904.66	N 32 12 39.54	W 103 41 28.68
	4459.50	1.55	147.33	4459.39	-12.64	-12.80	3.20	0.34	441080.87	739905.80	N 32 12 39.62	W 103 41 28.67
	4553.90	0.40	96.10	4553.78	-13.71	-13.91	4.22	1.42	441079.76	739906.82	N 32 12 39.51	W 103 41 28.68
	4648.00	0.38	77.77	4647.88	-13.65	-13.88	4.85	0.13	441079.79	739907.45	N 32 12 39.51	W 103 41 28.65
	4742.50	0.10	22.40	4742.37	-13.49	-13.73	5.19	0.35	441079.94	739907.79	N 32 12 39.51	W 103 41 28.65
	4837.20	0.07	333.52	4837.07	-13.36	-13.61	5.20	0.08	441080.06	739907.80	N 32 12 39.51	W 103 41 28.65
	4931.70	0.07	319.39	4931.57	-13.27	-13.51	5.13	0.02	441080.16	739907.73	N 32 12 39.51	W 103 41 28.65
	5026.20	0.06	345.17	5026.07	-13.18	-13.42	5.08	0.03	441080.25	739907.68	N 32 12 39.51	W 103 41 28.65
	5120.90	0.06	343.60	5120.77	-13.08	-13.32	5.06	0.00	441080.35	739907.66	N 32 12 39.52	W 103 41 28.65
	5215.60	0.06	337.19	5215.47	-12.99	-13.23	5.02	0.01	441080.44	739907.62	N 32 12 39.52	W 103 41 28.65
	5310.20	0.07	308.70	5310.07	-12.91	-13.15	4.96	0.03	441080.52	739907.56	N 32 12 39.52	W 103 41 28.65
	5404.40	0.06	324.12	5404.27	-12.84	-13.07	4.89	0.02	441080.60	739907.49	N 32 12 39.52	W 103 41 28.65
	5499.00	0.06	328.08	5498.87	-12.76	-12.99	4.83	0.00	441080.68	739907.43	N 32 12 39.52	W 103 41 28.65
	5593.40	0.07	319.19	5593.27	-12.68	-12.90	4.77	0.02	441080.77	739907.37	N 32 12 39.52	W 103 41 28.65
	5687.70	0.07	148.26	5687.57	-12.68	-12.81	4.76	0.15	441080.78	739907.36	N 32 12 39.52	W 103 41 28.65
	5782.10	0.07	171.41	5781.97	-12.79	-13.01	4.80	0.03	441080.66	739907.40	N 32 12 39.52	W 103 41 28.65
	5876.40	0.06	163.06	5876.27	-12.89	-13.12	4.83	0.02	441080.56	739907.43	N 32 12 39.52	W 103 41 28.65
	5970.90	0.06	157.18	5970.77	-12.97	-13.21	4.87	0.00	441080.47	739907.47	N 32 12 39.52	W 103 41 28.65
	6065.50	0.08	140.25	6065.37	-13.07	-13.30	4.93	0.03	441080.37	739907.53	N 32 12 39.52	W 103 41 28.65
	6159.80	0.06	152.68	6159.77	-13.16	-13.40	5.00	0.03	441080.27	739907.60	N 32 12 39.51	W 103 41 28.65
	6254.20	0.06	170.44	6254.07	-13.25	-13.49	5.03	0.02	441080.18	739907.63	N 32 12 39.51	W 103 41 28.65
	6348.50	0.07	139.32	6348.37	-13.34	-13.58	5.07	0.04	441080.09	739907.67	N 32 12 39.51	W 103 41 28.65
	6442.80	0.09	144.22	6442.67	-13.44	-13.68	5.15	0.02	441079.99	739907.75	N 32 12 39.51	W 103 41 28.65
	6537.20	0.07	135.78	6537.07	-13.54	-13.79	5.24	0.02	441079.88	739907.84	N 32 12 39.51	W 103 41 28.65
	6631.40	0.02	71.23	6631.27	-13.57	-13.82	5.29	0.07	441079.85	739907.89	N 32 12 39.51	W 103 41 28.65
	6726.00	1.45	126.34	6725.86	-14.23	-14.53	8.27	1.52				

Comments	MD (ft)	Incl (°)	Asin Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLG (ft)	Northings (ft)	Easting (ft)	Latitude (N/S ° ° °)	Longitude (E/W ° ° °)
	7293.50	8.39	127.71	7289.76	-48.58	-52.04	53.97	0.89	441041.83	739958.58	N 32 12 38.13	W 103 41 28.08
	7367.80	8.81	127.92	7362.90	-68.05	-61.04	85.55	1.18	441032.64	739968.15	N 32 12 38.04	W 103 41 27.95
	7462.70	8.89	122.88	7478.49	-66.57	-70.14	78.38	0.89	441023.63	739980.98	N 32 12 38.85	W 103 41 27.80
	7577.20	8.68	118.89	7568.68	-74.07	-78.25	91.95	0.71	441015.42	739994.54	N 32 12 38.87	W 103 41 27.64
	7671.70	9.87	113.43	7682.81	-80.42	-85.25	106.18	0.97	441008.43	740008.78	N 32 12 38.60	W 103 41 27.48
	7758.40	8.84	108.22	7755.17	-85.39	-90.88	121.02	0.92	441002.78	740023.81	N 32 12 38.74	W 103 41 27.30
	7881.00	9.82	108.04	7849.44	-89.64	-95.81	136.08	0.04	440997.88	740038.65	N 32 12 38.69	W 103 41 27.13
	7955.50	8.84	108.11	7942.61	-93.68	-100.72	151.08	0.02	440992.96	740053.68	N 32 12 38.64	W 103 41 26.85
	8050.20	8.83	108.89	8035.97	-98.23	-105.76	166.11	0.15	440987.92	740068.70	N 32 12 38.59	W 103 41 26.78
	8144.60	8.59	110.34	8129.05	-102.86	-111.06	180.85	0.24	440982.61	740083.54	N 32 12 38.54	W 103 41 26.61
	8239.20	8.89	112.68	8222.31	-108.00	-116.87	195.69	0.42	440976.81	740098.28	N 32 12 38.46	W 103 41 26.44
	8333.80	8.40	113.83	8315.80	-113.52	-123.03	210.11	0.35	440970.84	740112.70	N 32 12 38.42	W 103 41 26.27
	8428.30	8.45	116.95	8408.83	-119.49	-128.84	224.10	0.58	440964.04	740128.69	N 32 12 38.35	W 103 41 26.11
	8523.00	9.48	117.17	8502.24	-125.95	-136.72	237.98	0.05	440958.95	740140.55	N 32 12 38.28	W 103 41 25.95
	8617.70	9.20	116.96	8595.68	-132.33	-143.72	251.85	0.30	440948.96	740154.24	N 32 12 38.21	W 103 41 25.78
	8712.40	9.38	113.71	8689.14	-138.24	-150.25	265.45	0.69	440943.42	740168.05	N 32 12 38.14	W 103 41 25.63
	8807.00	9.40	110.39	8782.48	-143.38	-156.05	279.78	0.57	440937.63	740182.35	N 32 12 38.09	W 103 41 25.48
	8901.50	9.43	106.13	8875.70	-147.57	-160.89	294.43	0.74	440932.78	740197.04	N 32 12 38.04	W 103 41 25.29
	8996.20	9.36	105.34	8969.13	-151.09	-165.09	309.34	0.17	440926.59	740211.93	N 32 12 38.00	W 103 41 25.12
	9090.70	9.44	109.04	9062.38	-154.99	-169.65	324.08	0.64	440921.03	740226.87	N 32 12 37.95	W 103 41 24.95
	9185.20	8.37	109.57	9155.59	-159.44	-174.75	338.66	0.12	440915.93	740241.24	N 32 12 37.90	W 103 41 24.78
	9279.30	8.46	107.16	9248.42	-163.63	-179.80	353.28	0.44	440910.47	740255.86	N 32 12 37.85	W 103 41 24.61
	9373.90	8.36	103.38	9341.75	-167.04	-183.68	368.20	0.66	440904.99	740270.78	N 32 12 37.81	W 103 41 24.43
	9468.20	8.26	101.55	9434.80	-169.87	-188.98	383.10	0.33	440908.70	740285.88	N 32 12 37.77	W 103 41 24.26
	9562.80	8.34	100.47	9528.18	-171.91	-189.90	398.10	0.20	440903.78	740300.68	N 32 12 37.74	W 103 41 24.09
	9657.20	8.30	100.81	9621.31	-174.06	-192.72	413.13	0.07	440900.96	740315.71	N 32 12 37.72	W 103 41 23.91
	9751.80	8.18	87.78	9714.60	-174.53	-193.88	428.13	2.21	440898.82	740330.71	N 32 12 37.70	W 103 41 23.74
	9846.20	8.78	73.70	9807.95	-171.58	-191.84	442.59	2.35	440902.14	740345.17	N 32 12 37.73	W 103 41 23.57
	9940.60	9.09	59.96	9901.22	-165.21	-185.78	456.97	2.28	440907.90	740358.55	N 32 12 37.78	W 103 41 23.41
	10035.00	18.43	38.88	9992.88	-149.13	-170.39	471.84	11.07	440923.29	740374.42	N 32 12 37.93	W 103 41 23.23
	10129.30	25.13	24.64	10080.44	-118.51	-140.53	489.58	8.00	440953.15	740392.15	N 32 12 38.23	W 103 41 23.02
	10224.00	30.87	13.04	10184.04	-75.84	-88.45	503.48	9.41	440995.23	740408.06	N 32 12 38.84	W 103 41 22.85
	10318.60	34.80	4.38	10243.47	-24.81	-47.70	511.04	8.48	441045.97	740418.81	N 32 12 39.14	W 103 41 22.78
	10413.10	43.08	5.39	10316.88	34.34	11.48	518.13	8.68	441105.15	740418.71	N 32 12 39.73	W 103 41 22.70
	10507.70	54.86	4.39	10378.98	105.82	82.38	522.14	12.27	441178.03	740424.72	N 32 12 40.43	W 103 41 22.62
	10602.40	64.87	2.01	10428.53	187.35	163.98	528.62	11.10	441257.84	740429.19	N 32 12 41.24	W 103 41 22.57
	10697.90	73.82	358.24	10480.27	278.60	253.21	528.73	9.78	441346.88	740429.30	N 32 12 42.12	W 103 41 22.56
	10782.00	82.38	358.68	10477.74	358.46	336.36	524.45	10.42	441428.01	740427.02	N 32 12 42.93	W 103 41 22.56
	10877.00	88.11	1.16	10485.82	452.98	428.98	524.24	8.91	441523.63	740428.62	N 32 12 43.87	W 103 41 22.57
	10907.00	88.35	1.25	10488.54	482.98	458.96	524.87	0.85	441553.61	740427.45	N 32 12 44.11	W 103 41 22.54
	11002.00	89.45	0.84	10488.37	577.91	554.92	526.81	1.24	441646.57	740428.18	N 32 12 45.11	W 103 41 22.54
	11095.00	90.55	358.32	10488.37	670.77	647.81	525.92	2.96	441741.55	740428.50	N 32 12 46.04	W 103 41 22.57
	11187.00	90.34	357.75	10487.85	762.48	739.86	522.77	0.66	441833.49	740425.35	N 32 12 46.94	W 103 41 22.60
	11278.00	90.34	358.46	10487.11	853.21	830.60	519.78	0.78	441924.43	740418.97	N 32 12 47.84	W 103 41 22.62
	11373.00	90.52	358.68	10486.40	947.87	923.77	517.28	0.30	442018.37	740418.85	N 32 12 48.71	W 103 41 22.64
	11467.00	90.65	358.76	10485.52	1041.78	1018.74	516.28	0.32	442113.37	740417.85	N 32 12 49.55	W 103 41 22.66
	11562.00	90.45	358.48	10484.89	1136.63	1114.71	512.97	0.12	442208.33	740415.55	N 32 12 50.65	W 103 41 22.66
	11656.00	90.59	358.47	10484.84	1230.28	1208.87	510.45	0.15	442302.29	740413.03	N 32 12 51.58	W 103 41 22.68
	11751.00	90.46	358.24	10482.18	1323.04	1308.84	507.95	0.12	442397.25	740410.33	N 32 12 52.62	W 103 41 22.70
	11846.00	90.46	358.28	10481.16	1416.79	1397.60	505.28	0.29	442491.20	740407.86	N 32 12 53.45	W 103 41 22.73
	11940.00	90.31	358.28	10480.11	1513.51	1486.55	502.38	0.18	442586.15	740404.98	N 32 12 54.39	W 103 41 22.75
	12034.00	90.45	357.85	10480.11	1611.44	1581.44	498.13	0.19	442677.03	740398.71	N 32 12 55.26	W 103 41 22.81
	12128.00	90.52	358.65	10478.69	1690.11	1678.21	487.07	0.74	442763.79	740389.64	N 32 12 56.12	W 103 41 22.91
	12213.00	89.80	1.05	10478.21	1884.88	1865.17	485.08	4.78	442858.74	740387.65	N 32 12 56.98	W 103 41 22.92
	12307.00	90.45	2.31	10477.84	2078.67	2058.12	487.83	1.61	442952.89	740380.41	N 32 12 57.89	W 103 41 22.98
	12402.00	89.89	1.80	10477.72	2173.88	2154.07	481.07	1.28	443047.63	740373.63	N 32 13 0.73	W 103 41 22.84
	12496.00	89.86	0.13	10478.17	2267.82	2248.05	482.49	1.59	443141.61	740365.07	N 32 13 1.88	W 103 41 22.82
	12591.00	90.72	0.43	10477.89	2362.74	2343.05	482.96	0.98	443236.61	740356.53	N 32 13 2.80	W 103 41 22.81
	12685.00	89.76	0.70	10477.30	2456.68	2437.04	483.88	1.06	443330.59	740348.06	N 32 13 3.73	W 103 41 22.78
	12780.00	89.83	1.36	10477.64	2551.65	2532.02	485.59	0.70	443425.67	740339.17	N 32 13 4.87	W 103 41 22.76
	12874.00	89.83	0.57	10478.20	2646.57	2627.00	488.77	0.42	443521.54	740330.35	N 32 13 5.64	W 103 41 22.71
	12968.00	89.83	0.20	10478.48	2741.50	2721.88	489.41	0.39	443618.53	740321.89	N 32 13 7.48	W 103 41 22.70
	13062.00	89.86	0.63	10478.99	2836.50	2816.88	490.77	0.23	443716.51	740313.35	N 32 13 9.34	W 103 41 22.67
	13156.00	89.87	0.38	10478.13	2931.31	2911.69	491.95	0.31	443814.49	740304.71	N 32 13 10.28	W 103 41 22.65
	13250.00	89.79	358.70	10478.53	3026.12	3006.50	493.18	0.38	443912.47	740296.17	N 32 13 12.15	W 103 41 22.64
	13344.00	90.03	0.81	10478.88	3121.04	3101.42	494.36	1.00	444010.45	740287.63	N 32 13 13.06	W 103 41 22.63
	13438.00	90.27	0.27	10478.18	3215.95	3196.33	495.54	0.22	444108.43	740279.09	N 32 13 14.95	W 103 41 22.60
	13532.00	90.14	0.09	10478.50	3310.86	3291.24	496.72	0.12	444206.41	740270.55	N 32 13 16.82	W 103 41 22.58
	13626.00	90.03	0.88	10478.38	3405.77	3386.15	497.90	0.63	444304.39	740262.01	N 32 13 17.76	W 103 41 22.56
	13720.00	89.76	358.98	10478.71	3500.68	3481.06	499.08	0.40	444402.37	740253.47	N 32 13 19.63	W 103 41 22.54
	13814.00	90.24	0.19	10478.71	3595.59	3575.97	500.26	0.28	444500.35	740244.93	N 32 13 21.50	W 103 41 22.52
	13908.00	89.62	358.61	10478.83	3690.50	3675.88	501.44	0.90	444598.33	740236.39	N 32 13 22.43	W 103 41 22.52
	14002.00	89.83	0.00	10478.28	3785.41	3770.32	502.62	0.47	444696.31	740227.85	N 32 13 23.37	W 103 41 22.51
	14096.00	89.86	358.71	10478.54	3880.32	3865.23	503.80	0.31	444794.29	740219.31	N 32 13 24.30	W 103 41 22.51
	14190.00	90.26	0.07	10478.30	3975.23	3960.14	504.98	0.29	444892.27	740210.77	N 32 13 25.27	W 103 41 22.50
	14284.00	90.45	358.81	10478.10	4070.14	4055.05	506.16	0.16	444990.25	740202.23	N 32 13 26.24	W 103 41 22.48
	14378											

Comments	MD (m)	Incl (°)	Azim (°)	TVD (m)	VSEC (m)	NS (m)	EW (m)	DLS (m)	Northing (m)	Easting (m)	Latitude (N/S)	Longitude (E/W)	Survey Type:		Survey Error Model:		Description		Part	MD To (m)	EOU Freq (Hz)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
													Del Survey	ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.755 sigma											
18313.00	98.87	359.37	10451.88	8877.74	8884.56	483.18	0.36	44887.80	740396.76	740393.98	N 32 14 7.33	W 103 41 22.35	Original Borehole / Oxy Mesa	Verde BS Unit 4 Gyro+MWD 0-20.545	30.000	30.000	1/58.426	28.500	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Verde BS Unit 4 Gyro+MWD 0-20.545	Original Borehole / Oxy Mesa		
19408.00	98.03	358.48	10451.88	8872.55	8884.54	481.41	0.93	45005.78	740393.98	740393.98	N 32 14 8.27	W 103 41 22.38	Original Borehole / Oxy Mesa	Verde BS Unit 4 Gyro+MWD 0-20.545	30.000	30.000	1/58.426	28.500	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Verde BS Unit 4 Gyro+MWD 0-20.545	Original Borehole / Oxy Mesa		
19503.00	90.17	358.87	10451.79	8887.33	8884.51	489.22	0.43	45014.75	740391.80	740393.98	N 32 14 8.21	W 103 41 22.38	Original Borehole / Oxy Mesa	Verde BS Unit 4 Gyro+MWD 0-20.545	30.000	30.000	1/58.426	28.500	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Verde BS Unit 4 Gyro+MWD 0-20.545	Original Borehole / Oxy Mesa		
19597.00	90.14	359.26	10451.84	8911.18	8884.50	489.50	0.42	45024.73	740390.28	740393.98	N 32 14 10.14	W 103 41 22.38	Original Borehole / Oxy Mesa	Verde BS Unit 4 Gyro+MWD 0-20.545	30.000	30.000	1/58.426	28.500	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Verde BS Unit 4 Gyro+MWD 0-20.545	Original Borehole / Oxy Mesa		
19780.00	90.31	358.73	10450.80	8937.47	8884.50	484.37	0.29	45043.09	740386.55	740393.98	N 32 14 12.01	W 103 41 22.42	Original Borehole / Oxy Mesa	Verde BS Unit 4 Gyro+MWD 0-20.545	30.000	30.000	1/58.426	28.500	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Verde BS Unit 4 Gyro+MWD 0-20.545	Original Borehole / Oxy Mesa		
19881.00	90.14	358.42	10450.42	8944.58	8884.50	482.01	0.37	45052.58	740384.58	740393.98	N 32 14 12.85	W 103 41 22.44	Original Borehole / Oxy Mesa	Verde BS Unit 4 Gyro+MWD 0-20.545	30.000	30.000	1/58.426	28.500	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Verde BS Unit 4 Gyro+MWD 0-20.545	Original Borehole / Oxy Mesa		
20068.00	89.88	359.21	10450.38	8959.18	8884.50	478.18	0.45	45071.81	740380.76	740393.98	N 32 14 14.78	W 103 41 22.47	Original Borehole / Oxy Mesa	Verde BS Unit 4 Gyro+MWD 0-20.545	30.000	30.000	1/58.426	28.500	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Verde BS Unit 4 Gyro+MWD 0-20.545	Original Borehole / Oxy Mesa		
20181.00	90.88	358.56	10449.93	8972.01	8884.50	477.16	0.82	45080.50	740379.74	740393.98	N 32 14 15.72	W 103 41 22.47	Original Borehole / Oxy Mesa	Verde BS Unit 4 Gyro+MWD 0-20.545	30.000	30.000	1/58.426	28.500	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Verde BS Unit 4 Gyro+MWD 0-20.545	Original Borehole / Oxy Mesa		
20255.00	90.22	358.49	10449.88	8977.70	8884.50	473.93	3.30	45089.52	740376.50	740393.98	N 32 14 16.65	W 103 41 22.51	Original Borehole / Oxy Mesa	Verde BS Unit 4 Gyro+MWD 0-20.545	30.000	30.000	1/58.426	28.500	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Verde BS Unit 4 Gyro+MWD 0-20.545	Original Borehole / Oxy Mesa		
20350.00	90.83	358.94	10448.48	8992.02	8884.50	468.83	1.89	45098.42	740369.41	740393.98	N 32 14 17.59	W 103 41 22.58	Original Borehole / Oxy Mesa	Verde BS Unit 4 Gyro+MWD 0-20.545	30.000	30.000	1/58.426	28.500	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Verde BS Unit 4 Gyro+MWD 0-20.545	Original Borehole / Oxy Mesa		
20444.00	90.55	359.04	10447.82	8994.75	8884.50	459.44	1.17	45108.79	740362.01	740393.98	N 32 14 18.62	W 103 41 22.68	Original Borehole / Oxy Mesa	Verde BS Unit 4 Gyro+MWD 0-20.545	30.000	30.000	1/58.426	28.500	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Verde BS Unit 4 Gyro+MWD 0-20.545	Original Borehole / Oxy Mesa		
20503.00	90.50	358.89	10448.87	9003.98	8884.49	456.80	1.44	45118.83	740358.38	740393.98	N 32 14 19.10	W 103 41 22.70	Original Borehole / Oxy Mesa	Verde BS Unit 4 Gyro+MWD 0-20.545	30.000	30.000	1/58.426	28.500	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Verde BS Unit 4 Gyro+MWD 0-20.545	Original Borehole / Oxy Mesa		
20545.00	90.50	358.89	10448.81	9006.76	8884.49	453.52	0.00	45118.83	740356.10	740393.98	N 32 14 19.62	W 103 41 22.72	Original Borehole / Oxy Mesa	Verde BS Unit 4 Gyro+MWD 0-20.545	30.000	30.000	1/58.426	28.500	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Verde BS Unit 4 Gyro+MWD 0-20.545	Original Borehole / Oxy Mesa		

OXY USA Inc.
MESA VERDE BS UNIT 4H
API No. 30-025-44064

17-1/2" hole @ 985'
13-3/8" csg @ 980'
w/ 1712 sx-TOC-Surf Circ.

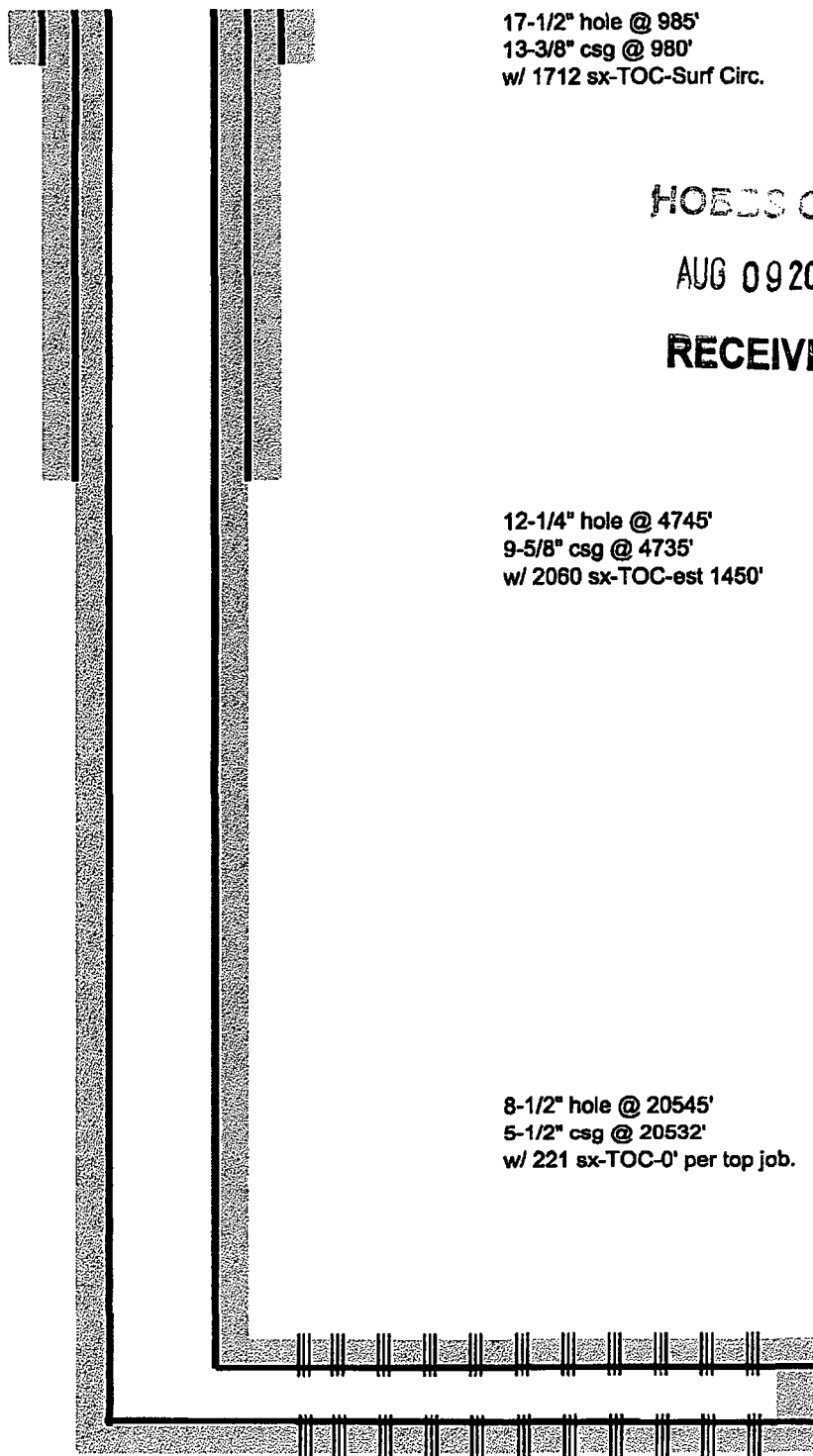
HOEBS OCD

AUG 09 2018

RECEIVED

12-1/4" hole @ 4745'
9-5/8" csg @ 4735'
w/ 2060 sx-TOC-est 1450'

8-1/2" hole @ 20545'
5-1/2" csg @ 20532'
w/ 221 sx-TOC-0' per top job.



Perfs @ 10447'-20385'

TD- 20545'M/10447' V

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NMNM66925

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
NMNM137096X8. Well Name and No.
MESA VERDE BS UNIT 4H9. API Well No.
30-025-4406410. Field and Pool or Exploratory Area
MESA VERDE BONE SPRING11. County or Parish, State
LEA COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on page 2

AUG 09 2018

RECEIVED

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
OXY USA INC
Contact: SARAH CHAPMAN
E-Mail: SARAH_CHAPMAN@OXY.COM3a. Address
P.O. BOX 4294
HOUSTON, TX 772103b. Phone No. (include area code)
Ph: 713-350-4997

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 17 T24S R32E SESE 280FSL 965FEL
32.211013 N Lat, 103.691307 W Lon

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

RUPU 4/17/18, RIH & clean out to PBTD @ 20483'. Pressure test csg to 9800# for 30 min, good test. RIH & perf @ 20385-20234, 20185-20035, 19986-19836, 19787-19637, 19588-19439, 19347-19197, 19190-19040, 18991-18841, 18792-18642, 18593-18443, 18394-18244, 18195-18045, 17996-17846, 17797-17647, 17598-17448, 17399-17249, 17200-17050, 17001-16851, 16802-16657, 16603-16457, 16404-16254, 16205-16055, 16002-15856, 15809-15657, 15608-15456, 15409-15262, 15210-15062, 15011-14861, 14812-14662, 14613-14463, 14410-14264, 14210-14065, 14018-13866, 13817-13667, 13618-13468, 13420-13269, 13221-13070, 13021-12871, 12822-12672, 12623-12473, 12424-12274, 12225-12075, 12026-11876, 11827-11627, 11628-11478, 11429-11279, 11228-11080, 11028-10881, 10832-10682, 10633-10483. Total 1200 holes. Frac in 50 stages w/ 16123380g Slick Water & 26082g 7.5% HCl acid w/ 19623458# sand, RD Schlumberger 5/3/18. Turn well over to production for clean out, flowback and test.

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #430341 verified by the BLM Well Information System
For OXY USA INC, sent to the Hobbs

Name (Printed/Typed) DAVID STEWART Title SR. REGULATORY ADVISOR

Signature (Electronic Submission) Date 08/08/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTNMOCD
HobbsFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM66925
2. Name of Operator OXY USA INC.		6. If Indian, Allottee or Tribe Name
Contact: JANA MENDIOLA E-Mail: janalyn_mendiola@oxy.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address P.O. BOX 50250 MIDLAND, TX 79710	3b. Phone No. (include area code) Ph: 432-685-5936	8. Well Name and No. MESA VERDE BS UNIT 4
10. Field and Pool or Exploratory Area MESA VERDE BONE SPRING		9. API Well No. 30-025-44064
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 17 T24S R32E SESE 280FSL 965FEL 32.211013 N Lat, 103.691307 W Lon		11. County or Parish, State LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NAME OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Drilling Operations
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation. Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Spud 17-1/2" hole 1/25/18, drill to 985' 1/28/18, BLM (Pat Hutchins) was notified prior to spud. RIH & set 13-3/8" 54.5# J-55 csg @ 980', pump 20BFW spacer then cmt w/ 1260sx (303bbl) PPC w/ additives 14.8ppg 1.36 yield, full returns throughout job, circ 452sx (109bbl) cmt to surface, WOC. 1/28/18 RD & install wellhead cap. BLM (Pat Hutchins) was notified prior to setting & cementing surface casing and after cement job with results.

Note: This well was originally permitted as the MESA VERDE 17-8 FEDERAL COM 6H.

Unit Number: NMNM137096X

14. I hereby certify that the foregoing is true and correct. Electronic Submission #403560 verified by the BLM Well Information System For OXY USA INC. sent to the Hobbs Committed to AFMSS for processing by PRISCILLA PEREZ on 02/12/2018 ()	
Name (Printed/Typed) DAVID STEWART	Title SR. REGULATORY ADVISOR
Signature (Electronic Submission)	Date 02/06/2018
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
Approved By _____	Title _____ Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	
Office BUREAU OF LAND MANAGEMENT	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.	

(Instructions on page 2)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTNMOCD
HobbsFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NMNM66925

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
OXY USA INC.Contact: SARAH CHAPMAN
E-Mail: sarah_chapman@oxy.com

MAY 08 2018

9. API Well No.
30-025-440643a. Address
P.O. BOX 50250
MIDLAND, TX 797103b. Phone No. (include area code)
Ph: 713-350-4997

RECEIVED

10. Field and Pool or Exploratory Area
MESA VERDE

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 17 T24S R32E Mer NMP SESE 280FSL 965FEL
32.211014 N Lat, 103.691307 W Lon11. County or Parish, State
LEA COUNTY, NM**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Drilling Operations
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

3/2/18 RU BOP, test @ 250# low 5000# high, good test. Test 13-3/8" csg to 1500# for 30min, good test. RIH & drill new formation to 1018', perform FIT test to EMW=15.5ppg, 293psi, good test. 03/04/18 drill 12-1/4" hole to 4745' 03/05/18. RIH & set 9-5/8", 47" L-80 csg @ 4735', pump 20bbl gel spacer w/ red dye then cmt w/ 1535sx (513bbl) PPC w/ additives, 12.9 ppg, 1.88 yield followed by 160sx (38bbl) PPC w/ additives, 14.8 ppg, 1.33 yield, no cement to surface. 3/6/18 RUWL RIH w/ temp log, estimated TOC @ 1450'. 3/7/18 DE reported temp log results to Chris Walls at BLM & discussed plan forward to conduct an integrity test offline once the rig is moved off the well. Install pack-off, test seals to 5000#, good test. 3/7/18 ND BOP, install well cap & release rig.

3/27/18 Skid rig back to Mesa Verde BS Unit 4H. RU BOP, test to 250# low, 5000# high. 3/28/18 Test 9-5/8" casing to 4760# for 30 min, good test. RIH & tag cmt @ 4630', drill new formation to 4757', perform FIT test to EMW=10ppg, 420psi, good test. 3/28/18 drill 8-1/2" hole to 28545' 104477V

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #412384 verified by the BLM Well Information System
For OXY USA INC., sent to the Hobbs
Committed to AFMSS for processing by JENNIFER SANCHEZ on 04/23/2018

Name (Printed/Typed) DAVID STEWART

Title SR. REGULATORY ADVISOR

Signature (Electronic Submission)

Date 04/19/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Additional data for EC transaction #412384 that would not fit on the form

32. Additional remarks, continued

4/7/18. 4/9/18 RIH & set 5-1/2" 20# P-110 csg @ 20532', pump 50bbl spacer then cmt w/ 230sx (68bbl) PPC w/ additives 13.2ppg, 1.67 yield, followed by 1785sx (524bbl) PPC w/ additives 13.2ppg, 1.85 yield. Estimated TOC @ 6022'. For second stage, performed Bradenhead squeeze cementing w/ 900sx (300bbl) PPC w/additives 12.9ppg, 1.87 yield. Ran echometer, TOC @ 221'. ND BOP, install well cap and release rig on 04/10/18. 4/13/18 RIH & perform 9-5/8" casing cement top job w/ 365sx (120bbl) 12.9ppg, 1.85 yield, POOH, RIH w/ echometer, TOC @ surface, WOC.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTNMOCD
HobbsFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NMNM66925

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

MAY 29 2018

RECEIVED

7. If Unit or CA/Agreement, Name and/or No.
NMNM137096X8. Well Name and No.
MESA VERDE BS UNIT 4H9. PI Well No.
30-025-44064

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
OXY USA INC.Contact: JANA MENDIOLA
E-Mail: janalyn_mendiola@oxy.com3a. Address
P.O. BOX 50250
MIDLAND, TX 797103b. Phone No. (include area code)
Ph: 432-685-593610. Field and Pool or Exploratory Area
MESA VERDE BONE SPRING

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 17 T24S R32E Mer NMP SESE 280FSL 965FEL
32.211013 N Lat, 103.691307 W Lon

11. County or Parish, State

LEA COUNTY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

RUPI 4/17/18, RIH & clean out to PBTD @ 20483'. Pressure test csg to 9800# for 30 min, good test.
RIH & perf from 20385-10483' Total 1200 holes. Frac in 50 stages w/ 16123380g Slick Water +
26082g 7.5% HCl acid w/ 19623458# sand, RD Schlumberger 5/3/18. Turn well over to production for
clean out, flowback and test.

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #419248 verified by the BLM Well Information System
For OXY USA INC., sent to the Hobbs
Committed to AFMSS for processing by JENNIFER SANCHEZ on 05/17/2018 (1)

Name (Printed/Typed) DAVID STEWART

Title SR. REGULATORY ADVISOR

Signature (Electronic Submission)

Date 05/08/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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