

Oilfield Services, Central U.S. Land
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

February 25, 2019

OXY USA INC.

RECEIVED

JUN 24 2019

DISTRICT II-ARTESIA O.C.D.

Re:

33, 23S, 31E, Eddy NM
32.26799 103.78340

CLIENT: OXY USA INC.
WELL: Sterling Silver MDP1 33-4 Fed Com 6H
FIELD: Ingle Wells Bone Spring

RIG: H&P 656
COUNTY: Eddy
API NO: 30-015-45386
JOB NO: 18MLD4309

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>
Jamie Castille FE	Sterling Silver MDP1 33-4 Fed Com 6H Original Hole	616.00 Ft to 20503.00 Ft	January 2, 2019 to February 19, 2019	TelePacer/SlimPulse Third Party Corrected

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

Field Service Manager

Schlumberger-Private

Oilfield Services, Central U.S. Land
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)
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Schlumberger

Well Reference:
33, 23S, 31E, Eddy NM
32.26799 103.78340

I, Jamie Castille certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of January 02, 2019 through February 19, 2019, conduct or supervise the taking of the TelePacer/SlimPulse & Third Party Corrected surveys from a depth of 616.00 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 Sterling Silver MDP1 33-4 Fed Com 6H Well (Original Hole) API No. 30-015-45386 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.

By
Jamie Castille
FE

Subscribed and Sworn to before me this 25th day of February (month) 2019 (yr)

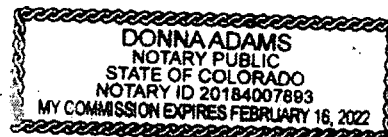
My Commission expires:

2-16-2022

D. Adams
Notary Public

Adams County Colorado
(County State)

(signature)



Schlumberger

OXY

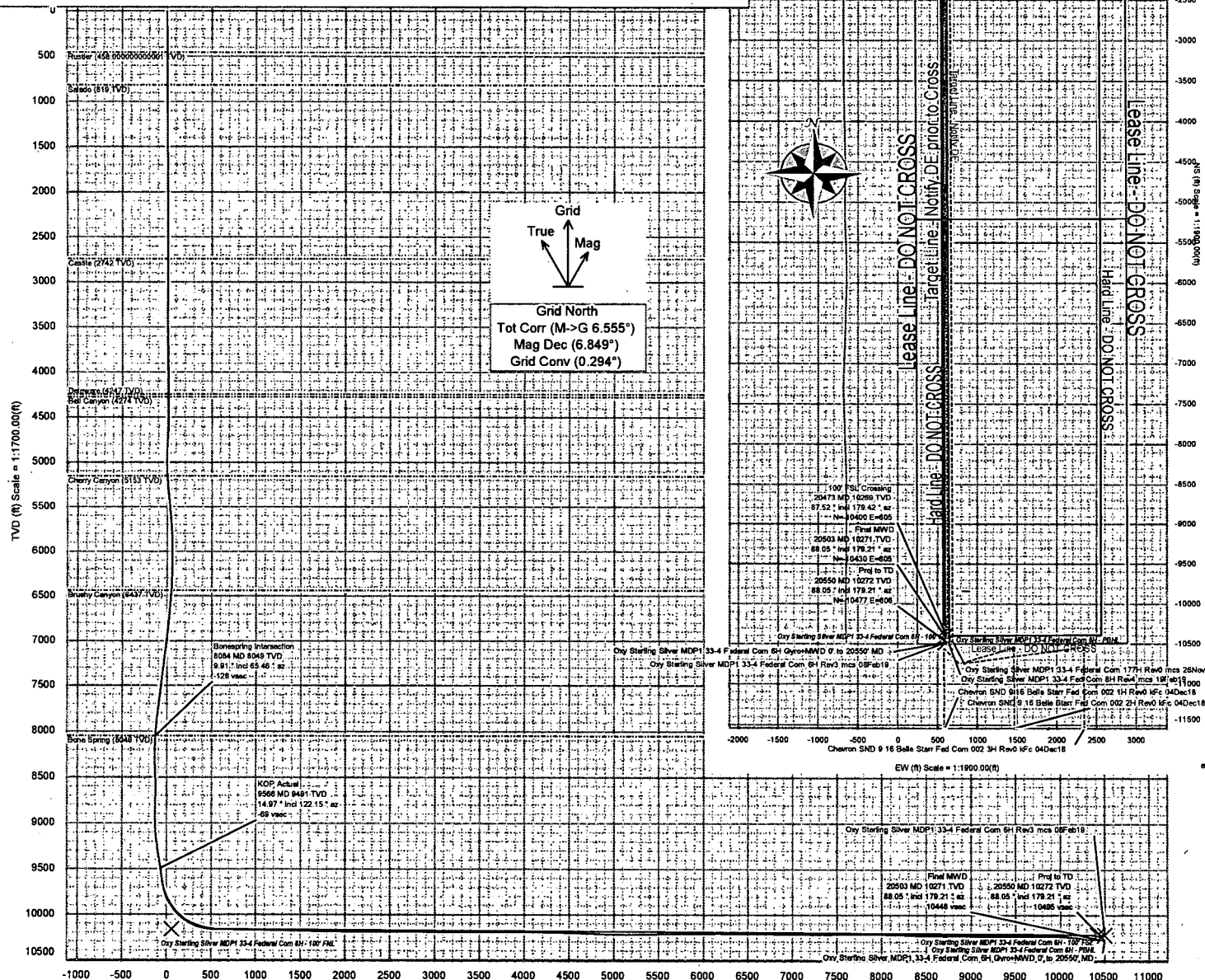


Borehole:	Well:	Field:	Structure:
Original Hole	Oxy Sterling Silver MDP1 33-4 Federal Com 6H	NM Eddy County (NAD 83)	Oxy Sterling Silver MDP1 33-4 Federal Com 6H

Gravity & Magnetic Parameters				Surface Location				Miscellaneous			
Model: IFR1	Dip: 58.934°	Date: 08-Feb-2019		Lat: N 32 16 4.77	Northing: 461864.28RUS	Grid Conv: 0.2936°		Slot: Silver MDP1 33-4	TVD Ref: RKB=26.6' (413.6ft above MSL)		
MagDec: 6.849°	FS: 48064.7nT	Gravity FS: 988.45mg (9.80665 Based)		Lon: W 103 47 0.24	Easting: 711313.89RUS	Scale Fact: 0.9994218		Federal Com 6H			
								Oxy Sterling Silver MDP1 33-4 Federal Com 6H Gyro-MWD 0' to 20550' MD			

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(°)S(°)	E(°)W(°)	DLS
WRP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	
Last Gyro	497.00	0.31	235.62	496.98	1.76	-1.79	-0.53	0.14
Bonespring Intersection	8083.84	9.91	65.46	8049.00	-127.63	136.55	152.35	1.99
KOP Actual	9566.00	14.97	122.15	9491.07	-68.88	95.50	463.63	0.79
100' FNL Crossing	10005.00	35.94	158.35	9897.73	59.33	-27.98	549.97	13.02
100' FSL Crossing	20472.52	87.52	179.42	10269.43	10417.60	-10400.03	604.95	3.70
Final MWD	20503.00	88.05	179.21	10270.59	10448.03	-10430.48	605.30	1.76
Proj to TD	20550.00	88.05	179.21	10272.19	10494.96	-10477.45	605.95	0.00





Oxy Sterling Silver MDP1 33-4 Federal Com 6H Gyro+MWD 0' to 20550' MD **Survey Geodetic Report** (Def Survey)

Report Date: February 19, 2019 - 12:16 PM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Sterling Silver MDP1 33-4 Federal Com 6H / Oxy Sterling Silver MDP1 33-4 Federal Com 6H
Well: Oxy Sterling Silver MDP1 33-4 Federal Com 6H
Borehole: Original Hole
UWI / API#: Unknown / 30-015-45386
Survey Name: Oxy Sterling Silver MDP1 33-4 Federal Com 6H Gyro+MWD 0' to 20550' MD
Survey Date: December 20, 2018
Tort / AHD / DDI / ERD Ratio: 295.026' / 11403.985 ft / 6.828' / 1.110
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 16' 4.77359", W 103° 47' 0.23771"
Location Grid N/E Y/X: N 461864.280 RUS, E 711313.890 RUS
CRS Grid Convergence Angle: 0.2936°
Grid Scale Factor: 0.99994218
Version / Patch: 2.10.753.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 176.727° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB=26.5'
TVD Reference Elevation: 3413.600 ft above MSL
Seabed / Ground Elevation: 3387.100 ft above MSL
Magnetic Declination: 6.849°
Total Gravity Field Strength: 998.449mgm (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48004.700 nT
Magnetic Dip Angle: 59.994°
Declination Date: February 08, 2019
Magnetic Declination Model: IFR1
North Reference: Grid North
Grid Convergence Used: 0.2936°
Total Corr Mag North->Grid 6.5554°
North:
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
WRP SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	461654.28	711313.89	N 32 16 4.77 W 103 47 0.24	
	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	461654.28	711313.89	N 32 16 4.77 W 103 47 0.24	
Last Gyro	48.00	0.82	117.59	48.00	0.08	-0.07	0.14	3.81	461654.21	711314.09	N 32 16 4.77 W 103 47 0.24	
	135.00	0.64	122.09	134.99	0.68	-0.62	1.10	0.22	461663.66	711314.99	N 32 16 4.77 W 103 47 0.22	
	217.00	0.48	218.19	216.99	1.20	-1.13	1.28	0.02	461663.15	711315.17	N 32 16 4.76 W 103 47 0.22	
	311.00	0.50	262.99	310.99	1.52	-1.49	0.62	0.40	461662.79	711314.51	N 32 16 4.76 W 103 47 0.23	
	405.00	0.34	258.10	404.98	1.59	-1.60	-0.06	0.17	461662.68	711313.83	N 32 16 4.76 W 103 47 0.24	
	497.00	0.31	235.62	496.98	1.76	-1.79	-0.53	0.14	461662.49	711313.36	N 32 16 4.76 W 103 47 0.24	
	616.00	0.30	246.98	615.98	2.03	-2.10	-1.08	0.05	461662.18	711312.81	N 32 16 4.75 W 103 47 0.25	
	710.00	0.42	229.10	709.98	2.33	-2.42	-1.57	0.17	461661.86	711312.32	N 32 16 4.75 W 103 47 0.26	
	804.00	0.49	238.51	803.98	2.73	-2.86	-2.17	0.11	461661.42	711311.72	N 32 16 4.75 W 103 47 0.26	
	992.00	0.21	223.58	991.97	3.34	-3.53	-3.09	0.16	461660.75	711310.80	N 32 16 4.74 W 103 47 0.27	
	1085.00	0.23	145.10	1084.97	3.62	-3.80	-3.10	0.30	461660.48	711310.79	N 32 16 4.74 W 103 47 0.27	
	1180.00	0.12	138.43	1179.97	3.86	-4.03	-2.93	0.12	461660.25	711310.96	N 32 16 4.73 W 103 47 0.27	
	1366.00	0.53	169.41	1365.97	4.87	-5.02	-2.64	0.23	461659.26	711311.25	N 32 16 4.72 W 103 47 0.27	
	1460.00	0.56	171.64	1459.96	5.75	-5.91	-2.49	0.04	461658.37	711311.40	N 32 16 4.72 W 103 47 0.27	
	1556.00	0.39	150.47	1555.96	6.51	-6.65	-2.27	0.25	461657.63	711311.62	N 32 16 4.71 W 103 47 0.26	
	1660.00	0.48	180.18	1659.96	7.27	-7.40	-2.09	0.23	461656.88	711311.80	N 32 16 4.70 W 103 47 0.26	
	1755.00	0.49	148.34	1754.95	8.02	-8.14	-1.88	0.28	461656.14	711312.01	N 32 16 4.69 W 103 47 0.26	
	1944.00	0.45	163.66	1943.95	9.45	-9.54	-1.25	0.07	461654.74	711312.64	N 32 16 4.68 W 103 47 0.25	
	2132.00	0.27	190.68	2131.94	10.60	-10.69	-1.12	0.13	461653.60	711312.77	N 32 16 4.67 W 103 47 0.25	
	2227.00	0.34	181.68	2226.94	11.10	-11.19	-1.17	0.09	461653.09	711312.72	N 32 16 4.66 W 103 47 0.25	
	2321.00	0.06	334.06	2320.94	11.33	-11.42	-1.20	0.42	461652.86	711312.69	N 32 16 4.66 W 103 47 0.25	
	2415.00	0.10	287.22	2414.94	11.26	-11.35	-1.30	0.08	461652.93	711312.59	N 32 16 4.66 W 103 47 0.25	
	2510.00	0.26	353.71	2509.94	11.02	-11.11	-1.40	0.25	461653.17	711312.49	N 32 16 4.66 W 103 47 0.25	
	2705.00	0.51	13.91	2704.94	9.75	-9.83	-1.24	0.14	461654.45	711312.65	N 32 16 4.68 W 103 47 0.25	
	2799.00	0.45	46.62	2798.93	9.11	-9.17	-0.87	0.29	461655.11	711313.02	N 32 16 4.68 W 103 47 0.25	
	2894.00	0.41	53.33	2893.93	8.68	-8.71	-0.33	0.07	461655.57	711313.56	N 32 16 4.69 W 103 47 0.24	
	2988.00	0.34	44.35	2987.93	8.31	-8.31	0.13	0.10	461655.97	711314.02	N 32 16 4.69 W 103 47 0.24	
	3083.00	0.16	356.54	3082.93	7.98	-7.98	0.32	0.27	461656.30	711314.21	N 32 16 4.69 W 103 47 0.23	
	3177.00	0.15	1.35	3176.93	7.73	-7.73	0.32	0.02	461656.56	711314.21	N 32 16 4.70 W 103 47 0.23	
	3271.00	0.11	127.61	3270.93	7.67	-7.66	0.39	0.25	461656.62	711314.28	N 32 16 4.70 W 103 47 0.23	
	3460.00	0.60	146.90	3459.92	8.64	-8.60	1.08	0.26	461655.68	711314.97	N 32 16 4.69 W 103 47 0.23	
	3555.00	0.54	163.23	3554.92	9.51	-9.44	1.48	0.18	461654.84	711315.37	N 32 16 4.68 W 103 47 0.22	
	3743.00	1.26	157.23	3742.90	12.32	-12.20	2.53	0.39	461652.08	711316.42	N 32 16 4.65 W 103 47 0.21	
	3838.00	0.69	182.81	3837.88	13.87	-13.73	2.91	0.74	461650.55	711316.80	N 32 16 4.64 W 103 47 0.20	
	4026.00	0.60	188.28	4025.87	15.96	-15.84	2.71	0.06	461648.45	711316.60	N 32 16 4.62 W 103 47 0.21	
	4215.00	0.36	202.26	4214.86	17.47	-17.36	2.34	0.14	461646.92	711316.23	N 32 16 4.60 W 103 47 0.21	
	4268.00	0.31	208.24	4267.86	17.74	-17.64	2.21	0.11	461646.64	711316.10	N 32 16 4.60 W 103 47 0.21	
	4456.00	0.56	351.90	4455.86	17.26	-17.18	1.84	0.44	461647.10	711315.73	N 32 16 4.60 W 103 47 0.22	
	4645.00	2.50	20.07	4644.78	12.55	-12.40	3.13	1.07	461651.88	711317.02	N 32 16 4.65 W 103 47 0.20	
	4739.00	3.22	19.35	4738.67	8.24	-7.98	4.71	0.77	461656.30	711318.60	N 32 16 4.69 W 103 47 0.18	
	4836.00	3.56	20.55	4835.50	2.97	-2.59	6.67	0.36	461661.69	711320.56	N 32 16 4.75 W 103 47 0.16	
	4931.00	1.84	336.93	4930.40	-1.17	1.58	7.10	2.70	461666.86	711320.99	N 32 16 4.79 W 103 47 0.15	
	5025.00	3.81	257.80	5024.31	-2.10	2.30	3.46	4.15	461666.58	711317.35	N 32 16 4.80 W 103 47 0.20	
	5120.00	6.87	243.30	5118.89	0.65	-0.92	-4.71	3.50	461663.36	711309.19	N 32 16 4.76 W 103 47 0.29	
	5214.00	9.42	236.46	5211.93	6.76	-7.69	-16.14	2.90	461656.59	711297.75	N 32 16 4.70 W 103 47 0.43	
	5309.00	8.90	233.38	5305.72	14.72	-16.37	-28.52	0.75	461647.91	711285.37	N 32 16 4.61 W 103 47 0.57	
	5403.00	8.75	232.20	5398.61	22.77	-25.09	-40.01	0.25	461639.19	711273.89	N 32 16 4.53 W 103 47 0.71	
	5497.00	8.63	231.69	5491.53	30.87	-33.85	-51.19	0.15	461630.44	711262.70	N 32 16 4.44 W 103 47 0.84	
	5626.00	8.52	230.25	5619.09	42.11	-45.96	-66.13	0.19	461618.33	711247.76	N 32 16 4.32 W 103 47 1.01	
	5720.00	6.18	228.34	5712.31	49.39	-53.77	-75.27	2.50	461610.51	711238.63	N 32 16 4.25 W 103 47 1.12	
5815.00	2.69	221.99	5807.01	54.13	-58.83	-80.58	3.70	461605.45	711233.32	N 32 16 4.20 W 103 47 1.18		
5909.00	0.30	119.54	5900.88	55.82	-60.59	-81.84	2.95	461603.69	711232.05	N 32 16 4.18 W 103 47 1.19		
6003.00	0.34	77.32	5994.97	55.91	-60.65	-81.35	0.25	461603.63	711232.54	N 32 16 4.18 W 103 47 1.19		
6045.00	0.27	95.28	6036.97	55.90	-60.63	-81.13	0.28	461603.65	711232.76	N 32 16 4.18 W 103 47 1.19		
6098.00	0.23	109.19	6089.97	55.96	-60.68	-80.91	0.14	461603.60	711232.99	N 32 16 4.18 W 103 47 1.18		
6182.00	0.69	64.32	6183.97	55.82	-60.50	-80.22	0.59	461603.79	711233.67	N 32 16 4.18 W 103 47 1.18		
6286.00	2.17	58.27	6277.94	54.75	-59.32	-78.20	1.58	461604.97	711235.70	N 32 16 4.19 W 103 47 1.15		
6381.00	5.00	56.00	6372.74	51.78	-56.05	-73.23	2.98	461608.23	711240.66	N 32 16 4.22 W 103 47 1.09		
6475.00	7.65	57.26	6466.16	46.61	-50.38	-64.57	2.82	461613.90	711249.32	N 32 16 4.28 W 103 47 0.99		
6569.00	9.37	56.87	6559.12	39.72	-42.81	-52.90	1.83	461621.47	711260.99	N 32 16 4.35 W 103 47 0.86		
6664.00	10.25	56.22	6652.73	31.58	-33.89	-39.40	0.93	461630.40	711274.49	N 32 16 4.44 W 103 47 0.70		
6758.00	10.85	56.28	6745.14	22.85	-24.32	-25.09	0.64	461639.96	711288.80	N 32 16 4.53 W 103 47 0.53		
6853.00	10.81	53.87	6838.45	13.49	-14.11	-10.46	0.48	461650.17	711303.43	N 32 16 4.63 W 103 47 0.36		
6947.00	10.85	47.74	6930.78	3.14	-2.96	3.21	1.23	461661.32	711317.10	N 32 16 4.74 W 103 47 0.20		
7041.00	10.42	45.79	7023.17	-8.00	8.92	15.85	0.60	461673.20	711329.74	N 32 16 4.86 W 103 47 0.05		
7136.00	10.51	46.66	7116.59	-19.20	20.85	28.31	0.19	461685.13	711342.20	N 32 16 4.98 W 103 46 59.91		
7230.00	10.65	45.34	7208.99	-30.46	32.84	40.72	0.30	461697.12	711354.61	N 32 16 5.10 W 103 46 59.76		
7325.00	10.63	43.30	7302.36	-42.29	45.39	52.98	0.40	461709.67	711366.86	N 32 16 5.22 W 103 46 59.62		
7419.00	10.49	44.28	7394.76	-54.03	57.83	64.90	0.24	461722.10	711378.78	N 32 16 5.34 W 103 46 59.48		
7513.00	10.26	45.22	7487.23	-65.35	69.85	76.81	0.30	461734.12	711390.70	N 32 16 5.46 W 103 46 59.34		
7608.00	10.34	45.73	7580.70	-76.55	81.76	88.92	0.13	461746.03	711402.81	N 32 16 5.58 W 103 46 59.20		
7702.00	10.47	43.43	7673.15	-87.94	93.85	100.84	0.46	461758.13	711414.72	N 32 16 5.70 W 103 46 59.06		
7797.00	10.07	44.57	7766.63	-99.43	106.04	112.60	0.47	461770.31	711426.48	N 32 16 5.82 W 103 46 58.92		
7891.00	10.26	46.42	7859.15	-110.37	117.66	124.43	0.40	461781.93	711438.31	N 32 16 5.93 W 103 46 58.78		
7986.00	10.17	55.87	7952.65	-120.14	128.20	137.50	1.76	461792.47	711451.39	N 32 16 6.04 W 103 46 58.63		

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	8080.00	9.96	65.15	8045.21	-127.39	136.27	151.75	1.74	461800.55	711465.63	N 32 16 6.11 W	103 46 58.46
	8175.00	8.73	74.00	8138.96	-132.00	141.71	166.14	1.99	461805.99	711480.02	N 32 16 6.17 W	103 46 58.29
	8232.03	7.34	82.31	8232.03	-134.03	144.48	178.95	1.92	461808.76	711492.83	N 32 16 6.19 W	103 46 58.15
	8363.00	7.83	97.98	8325.22	-133.24	144.40	191.24	2.25	461808.67	711505.12	N 32 16 6.19 W	103 46 58.00
	8458.00	8.43	97.77	8419.27	-130.65	142.56	204.55	0.63	461806.83	711518.42	N 32 16 6.17 W	103 46 57.85
	8583.00	8.91	101.54	8542.84	-126.42	139.38	223.11	0.59	461803.65	711536.99	N 32 16 6.14 W	103 46 57.63
	8651.00	9.46	92.49	8609.97	-124.51	138.09	233.85	2.27	461802.36	711547.73	N 32 16 6.13 W	103 46 57.51
	8745.00	11.90	74.38	8702.36	-125.81	140.36	250.91	4.38	461804.63	711564.79	N 32 16 6.15 W	103 46 57.31
	8840.00	11.83	81.27	8795.34	-128.83	144.48	269.97	1.49	461808.75	711583.84	N 32 16 6.19 W	103 46 57.08
	8934.00	12.44	86.55	8887.24	-129.78	146.55	289.60	1.35	461810.82	711603.47	N 32 16 6.21 W	103 46 56.86
	9029.00	16.89	89.37	8979.12	-129.17	147.32	313.63	4.74	461811.59	711627.50	N 32 16 6.22 W	103 46 56.58
	9123.00	20.02	95.01	9068.28	-126.22	146.06	343.32	3.83	461810.33	711657.19	N 32 16 6.20 W	103 46 56.23
	9217.00	18.97	108.60	9156.94	-118.21	139.78	373.85	4.94	461804.05	711687.71	N 32 16 6.14 W	103 46 55.88
	9312.00	17.79	110.88	9247.09	-106.52	129.68	402.04	1.45	461793.95	711715.91	N 32 16 6.04 W	103 46 55.55
	9406.00	16.44	121.13	9336.95	-93.12	117.68	426.85	3.51	461781.96	711740.72	N 32 16 5.92 W	103 46 55.26
	9500.00	15.31	120.65	9427.36	-78.68	104.48	448.91	1.21	461768.75	711762.78	N 32 16 5.78 W	103 46 55.00
	9566.00	14.97	122.15	9491.07	-68.88	95.50	463.63	0.79	461759.78	711777.49	N 32 16 5.70 W	103 46 54.83
	9707.00	11.15	127.52	9628.40	-49.41	77.50	489.87	2.84	461741.78	711803.73	N 32 16 5.52 W	103 46 54.53
	9802.00	20.38	154.93	9719.85	-27.97	56.85	504.21	12.24	461721.13	711818.07	N 32 16 5.31 W	103 46 54.36
	9897.00	28.38	147.00	9806.33	7.06	22.87	523.56	9.08	461687.15	711837.42	N 32 16 4.97 W	103 46 54.14
	9992.00	35.04	155.87	9887.15	52.23	-21.03	547.04	8.54	461643.25	711860.90	N 32 16 4.54 W	103 46 53.87
	10087.00	42.56	171.64	9961.31	109.94	-77.92	562.92	13.02	461586.36	711876.78	N 32 16 3.97 W	103 46 53.69
	10182.00	49.23	175.40	10027.40	177.99	-145.66	570.49	7.57	461518.63	711884.35	N 32 16 3.30 W	103 46 53.40
	10276.00	61.81	174.34	10080.51	255.28	-222.67	577.46	13.41	461441.62	711891.31	N 32 16 2.54 W	103 46 53.53
	10372.00	71.96	178.49	10118.17	343.43	-310.66	582.85	11.29	461353.64	711896.70	N 32 16 1.67 W	103 46 53.47
	10467.00	77.39	181.42	10143.27	434.85	-402.23	582.89	6.44	461262.07	711896.75	N 32 16 0.76 W	103 46 53.47
	10561.00	81.03	180.36	10160.86	526.94	-494.54	581.46	4.03	461169.76	711895.32	N 32 16 5.95 W	103 46 53.50
	10656.00	89.18	176.73	10168.97	621.45	-589.07	583.88	9.38	461075.24	711897.74	N 32 15 58.92 W	103 46 53.47
	10701.00	89.88	176.31	10169.41	666.44	-633.99	586.61	1.45	461030.33	711900.47	N 32 15 58.47 W	103 46 53.44
	10792.00	89.65	179.67	10169.95	757.41	-724.92	589.80	3.69	460939.41	711903.66	N 32 15 57.57 W	103 46 53.41
	10885.00	89.23	180.46	10170.86	850.24	-817.91	589.70	0.96	460846.42	711903.55	N 32 15 56.65 W	103 46 53.42
	10978.00	88.92	180.81	10172.36	943.02	-910.89	588.67	0.50	460753.44	711902.52	N 32 15 55.73 W	103 46 53.44
	11076.00	89.23	181.64	10173.94	1040.70	-1008.86	586.57	0.90	460655.48	711900.43	N 32 15 54.76 W	103 46 53.47
	11171.00	89.27	182.02	10175.18	1135.31	-1103.80	583.54	0.40	460560.55	711897.39	N 32 15 53.82 W	103 46 53.51
	11266.00	89.03	182.33	10176.59	1229.88	-1198.72	579.93	0.41	460465.63	711893.79	N 32 15 52.88 W	103 46 53.56
	11361.00	89.06	181.23	10178.17	1324.49	-1293.66	576.98	1.16	460370.70	711890.84	N 32 15 51.94 W	103 46 53.60
	11456.00	88.72	182.69	10180.02	1419.07	-1388.58	573.74	1.58	460275.78	711887.59	N 32 15 51.00 W	103 46 53.64
	11551.00	89.10	183.12	10181.82	1513.51	-1483.44	568.92	0.80	460180.93	711882.78	N 32 15 50.07 W	103 46 53.70
	11646.00	88.61	183.63	10183.72	1607.85	-1578.26	563.33	0.74	460086.12	711877.19	N 32 15 48.19 W	103 46 53.77
	11741.00	88.85	182.10	10185.83	1702.28	-1673.11	558.58	1.63	459991.27	711872.44	N 32 15 48.19 W	103 46 53.83
	11836.00	89.10	179.18	10187.53	1797.03	-1768.08	557.52	3.08	459896.30	711871.38	N 32 15 47.25 W	103 46 53.85
	11931.00	88.30	178.17	10188.85	1891.96	-1863.05	559.72	1.08	459801.34	711873.58	N 32 15 46.31 W	103 46 53.83
	12026.00	88.06	179.59	10190.21	1986.89	-1958.02	561.58	1.52	459706.38	711875.43	N 32 15 45.37 W	103 46 53.81
	12121.00	88.75	178.27	10191.20	2081.81	-2052.99	563.35	1.57	459611.41	711877.21	N 32 15 44.43 W	103 46 53.80
	12216.00	88.54	177.83	10191.20	2176.78	-2147.94	566.58	0.51	459516.47	711880.44	N 32 15 43.49 W	103 46 53.77
	12311.00	88.34	177.72	10192.72	2271.76	-2242.86	570.27	0.23	459421.56	711884.13	N 32 15 42.55 W	103 46 53.73
	12406.00	88.41	177.45	10193.75	2366.74	-2337.77	574.27	0.29	459326.65	711888.13	N 32 15 41.61 W	103 46 53.69
	12501.00	88.61	178.44	10194.56	2461.72	-2432.70	577.68	1.06	459231.72	711891.53	N 32 15 40.67 W	103 46 53.66
	12596.00	89.47	177.62	10195.33	2556.69	-2527.64	580.94	0.88	459136.79	711894.80	N 32 15 39.70 W	103 46 53.59
	12691.00	91.85	178.09	10194.23	2651.66	-2622.56	584.50	2.55	459041.87	711898.36	N 32 15 37.85 W	103 46 53.56
	12786.00	90.68	178.25	10192.14	2746.60	-2717.49	587.53	1.24	458946.95	711901.39	N 32 15 36.91 W	103 46 53.53
	12881.00	88.85	177.75	10192.53	2841.57	-2812.43	590.85	2.00	458852.02	711904.70	N 32 15 36.01 W	103 46 53.53
	13071.00	89.54	177.38	10195.19	3031.53	-3002.23	598.92	0.41	458762.22	711912.77	N 32 15 35.04 W	103 46 53.44
	13261.00	90.27	180.94	10195.51	3221.33	-3192.18	601.70	1.91	458672.29	711915.56	N 32 15 33.16 W	103 46 53.42
	13356.00	89.54	181.23	10195.67	3316.05	-3287.16	599.91	0.83	458577.31	711913.76	N 32 15 32.22 W	103 46 53.45
	13451.00	91.99	181.94	10194.40	3410.70	-3382.11	597.28	2.69	458482.37	711911.13	N 32 15 31.28 W	103 46 53.48
	13546.00	89.78	180.87	10192.93	3505.36	-3477.06	594.95	2.58	458387.42	711908.80	N 32 15 30.34 W	103 46 53.52
	13641.00	89.54	181.62	10193.50	3600.06	-3572.04	592.89	0.83	458292.45	711906.74	N 32 15 29.40 W	103 46 53.55
	13736.00	90.38	177.89	10193.63	3694.76	-3667.00	593.70	2.01	458197.50	711904.55	N 32 15 27.52 W	103 46 53.55
	13831.00	89.25	180.18	10193.93	3789.76	-3762.00	595.28	2.72	458102.53	711902.39	N 32 15 26.59 W	103 46 53.54
	14021.00	89.39	177.24	10195.07	3884.76	-3857.00	597.44	3.07	458007.56	711900.19	N 32 15 25.66 W	103 46 53.52
	14116.00	89.25	179.06	10196.20	3979.60	-3951.94	597.44	1.92	457912.58	711897.97	N 32 15 24.70 W	103 46 53.49
	14306.00	89.35	179.99	10198.52	4074.56	-4046.88	600.51	0.49	457817.64	711895.78	N 32 15 23.76 W	103 46 53.48
	14401.00	88.73	178.75	10200.11	4169.52	-4141.82	603.13	1.46	457722.68	711893.59	N 32 15 22.82 W	103 46 53.48
	14590.00	88.49	179.60	10204.70	4264.32	-4236.86	605.85	0.47	457627.72	711891.40	N 32 15 21.88 W	103 46 53.47
	14685.00	87.94	182.14	10207.66	4359.20	-4331.84	608.03	2.73	457532.76	711889.21	N 32 15 20.94 W	103 46 53.48
	14780.00	88.15	180.96	10210.90	4454.07	-4426.80	610.84	1.26	457437.79	711887.02	N 32 15 19.97 W	103 46 53.48
	14875.00	88.35	180.17	10213.80	4548.95	-4521.74	613.65	0.86	457342.83	711884.83	N 32 15 19.01 W	103 46 53.48
	15065.00	88.35	180.32	10219.27	4643.83	-4616.69	616.46	0.08	457247.87	711882.64	N 32 15 18.04 W	103 46 53.51
	15255.00	90.79	179.74	10220.70	4738.72	-4711.60	619.27	0.09	457152.91	711880.45	N 32 15 17.07 W	103 46 53.53
	15445.00	91.35	179.37	10217.15	4833.60	-4806.55	622.08	0.08	457057.95	711878.26	N 32 15 16.10 W	103 46 53.56
	15540.00	91.38	180.00	10214.88	4928.48	-4901.50	624.89	0.35	456962.99	711876.07	N 32 15 15.13 W	103 46 53.55
	15635.00	90.66	179.66	10213.19	5023.36	-4996.45	627.70	0.66	456868.03	711873.88	N 32 15 14.16 W	103 46 53.55
	15730.00	90.38	181.16	10212.33	5118.24	-5091.40	630.51	0.84	456773.07	711871.69	N 32 15 13.19 W	103 46 53.57
	15825.00	90.25	180.90	10211.81	5213.12	-5186.35	633.32	1.61	456678.11	711869.50	N 32 15 12.22 W	103 46 53.57
	15920.00	90.18	181.11	10211.45	5308.00	-5281.30	636.13	0.31	456583.15	711867.31	N 32 15 11.25 W	1

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	20001.00	88.05	178.42	10231.90	9947.85	-9930.35	590.26	2.30	451734.52	711904.11	N 32 14 26.48 W 103 46 53.96	
	20191.00	84.60	177.60	10244.08	10137.38	-10119.81	596.84	1.87	451545.07	711910.69	N 32 14 24.61 W 103 46 53.89	
	20286.00	84.22	178.04	10253.33	10231.91	-10214.29	600.44	0.61	451450.60	711914.29	N 32 14 23.67 W 103 46 53.86	
	20381.00	84.26	178.50	10262.86	10326.40	-10308.77	603.29	0.48	451356.13	711917.14	N 32 14 22.74 W 103 46 53.83	
	20476.00	87.64	179.45	10269.57	10421.07	-10403.50	604.98	3.70	451261.40	711918.84	N 32 14 21.80 W 103 46 53.81	
Final MWD	20503.00	88.05	179.21	10270.59	10448.03	-10430.48	605.30	1.76	451234.42	711919.15	N 32 14 21.53 W 103 46 53.81	
Proj to TD	20550.00	88.05	179.21	10272.19	10494.96	-10477.45	605.95	0.00	451187.46	711919.80	N 32 14 21.07 W 103 46 53.81	

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	1/98.425	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Hole / Oxy Sterling Silver MDP1 33-4 Federal Com 6H Gyro+MWD 0' to 20550' MD
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Hole / Oxy Sterling Silver MDP1 33-4 Federal Com 6H Gyro+MWD 0' to 20550' MD
	1	26.500	497.000	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Hole / Oxy Sterling Silver MDP1 33-4 Federal Com 6H
	1	497.000	4268.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Hole / Oxy Sterling Silver MDP1 33-4 Federal Com 6H
	1	4268.000	5497.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Hole / Oxy Sterling Silver MDP1 33-4 Federal Com 6H
	1	5497.000	20550.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Hole / Oxy Sterling Silver MDP1 33-4 Federal Com 6H

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

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

Form C-104
Revised August 1, 2011

RECEIVED
JUN 24 2019
Submit on or before appropriate District Office
DISTRICT II-ARTESIA

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address OXY USA INC P.O. BOX 4294 HOUSTON, TX 77210		² OGRID Number 16696
⁴ API Number 30-015-45386		³ Reason for Filing Code/ Effective Date - NW
⁵ Pool Name INGLE WELLS BONE SPRING	⁶ Pool Code 33740	
⁷ Property Code: 322740	⁸ Property Name: STERLING SILVER MDP1 33-4 FEDERAL COM	⁹ Well Number: 6H

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
C	33	23S	31E		69	NORTH	2439	WEST	EDDY

¹¹ Bottom Hole Location

FTP: 405' FNL 2258' FEL LTP: 129' FSL 2236' FEL

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/WEST line	County
O	4	24S	31E		26	SOUTH	2235	EAST	EDDY
¹² Lse Code F	¹³ Producing Method Code : F	¹⁴ Gas Connection Date: 03/25/2019	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
237722	CENTURION PIPELINE L.P.	O
151618	ENTERPRISE FIELD SERVICES LLC	G

IV. Well Completion Data

²¹ Spud Date 11/13/2018	²² Ready Date 03/19/2019	²³ TD 10271'V/20550'M	²⁴ PBD 10271'V/20481'M	²⁵ Perforations 10399'-20447'	²⁶ DHC; MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17-1/2"	13-3/8"	504'	705		
12-1/4"	9-5/8"	4384'	1225		
8-1/2"	7-5/8"	9610'	555		
6-3/4"	5-1/2"	20481'	845		

V. Well Test Data

³¹ Date New Oil 03/26/2019	³² Gas Delivery Date 03/25/2019	³³ Test Date 04/05/2019	³⁴ Test Length 24-HOUR	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 1050
³⁷ Choke Size 102/128	³⁸ Oil 5096	³⁹ Water 5380	⁴⁰ Gas 8742		⁴¹ Test Method FLOWING

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: Sarah Chapman

Printed name:
SARAH CHAPMAN

Title:
REGULATORY SPECIALIST

E-mail Address:
sarah_chapman@oxy.com

Date: 06/17/2019
Phone: 713-350-4997

OIL CONSERVATION DIVISION

Approved by: Karen Sharp

Title: Staff Mgr

Approval Date: 6-24-19

Pending BLM approvals will subsequently be reviewed and scanned

RECEIVED

JUN 24 2019

Form 3160-4
(August 2007)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DISTRICT II-ARTESIA CO. C.D.

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM45236

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.
STERLING SILVER MDP1 33-4 FED 6H

9. API Well No.
30-015-45386

10. Field and Pool, or Exploratory
INGLE WELLS BONE SPRING

11. Sec., T., R., M., or Block and Survey
or Area Sec 33 T23S R31E Mer NMP

12. County or Parish
EDDY

13. State
NM

17. Elevations (DF, KB, RT, GL)*
3387 GL

16. Date Completed
☐ D & A ☒ Ready to Prod.
03/18/2019

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☒ No ☐ Yes (Submit analysis)

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other

b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other

2. Name of Operator
OXY USA INC.

Contact: SARAH CHAPMAN
E-Mail: SARAH_CHAPMAN@OXY.COM

3. Address P.O. BOX 4294
HOUSTON, TX 77210

3a. Phone No. (include area code)
Ph: 713-350-4997

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
Sec 33 T23S R31E Mer NMP
At surface NENW 69FNL 2439FWL 32.267992 N Lat, 103.783399 W Lon
Sec 4 T23S R31E Mer
At top prod interval reported below SWSE 129FSL 2236FEL 32.239470 N Lat, 103.781620 W Lon
Sec 4 T23S R31E Mer
At total depth SWSE 26FSL 2235FEL 32.239178 N Lat, 103.781634 W Lon

14. Date Spudded
11/13/2018

15. Date T.D. Reached
02/23/2019

18. Total Depth: MD 20550
TVD 10271

19. Plug Back T.D.: MD 20481
TVD 10271

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
GAMMA RAY AND MUDLOG

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J55	45.5	0	504		705	155	0	
12.250	9.625 HCL-80	43.5	0	4384		1225	393	0	
8.500	7.625 HCL-80	26.4	0	9610		555	180	26	
6.750	5.500 P-110	20.0	0	20481		845	217	9160	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) 2ND BONE SPRING	10399	20447	10399 TO 20447	0.420	1236	ACTIVE
B)						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
10399 TO 20447	15666966G SLICKWATER, 6000G 7.5% HCL ACID W/ 20416040# SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
03/26/2019	04/05/2019	24	→	5096.0	8742.0	5380.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
102/128	SI	1050.0	→	5096	8742	5380		POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

Pending BLM approvals will
subsequently be reviewed
and scanned

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #469280 VERIFIED BY THE BLM WELL INFORMATION

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED

** OPERATOR-SUBMITTED **

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)

SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
BELL CANYON	4424	5145	OIL, GAS, WATER	RUSTLER	450
CHERRY CANYON	5146	6354	OIL, GAS, WATER	SALADO	821
BRUSHY CANYON	6355	8083	OIL, GAS, WATER	CASTILE	2751
BONE SPRING	8084	8965	OIL, GAS, WATER	DELAWARE	4399
BONE SPRING 1ST	8966	9649	OIL, GAS, WATER	BELL CANYON	4424
BONE SPRING 2ND	9650	10399	OIL, GAS, WATER	CHERRY CANYON	5146
				BRUSHY CANYON	6355
				BONE SPRING	8084

32. Additional remarks (include plugging procedure):

LOG HEADER, DIRECTIONAL SURVEY, AS-DRILLED C-102 PLAT AND WBD ARE ATTACHED.

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.) 2. Geologic Report 3. DST Report 4. Directional Survey
5. Sundry Notice for plugging and cement verification 6. Core Analysis 7. Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #469280 Verified by the BLM Well Information System.
For OXY USA INC., sent to the Carlsbad

Name (please print) SARAH CHAPMAN

Title REGULATORY SPECIALIST

Signature (Electronic Submission)

Date 06/17/2019

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.

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