

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)

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APR 03 2019

Schlumberger

DISTRICT II-ARTESIA O.C.D.

March 7, 2019

OXY USA INCORPORATED
5 Greenway Plaza, Suite 110
Houston, TX 77046 Houston TX 77046 Houston TX 77046

Re:

33, 23S, 31E, Eddy NM
N 32.26791 W 103.77626

CLIENT: OXY USA INCORPORATED
WELL: Sterling Silver MDP1 33-4 Fed Com 5H
FIELD: Ingle Wells Bone Spring

RIG: H&P 639
COUNTY: Eddy
API NO: 30-015-45393
JOB NO: 19MLD4175

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>
Ryland Matthews FE	Sterling Silver MDP1 33-4 Fed Com 5H Original Hole	680.00 Ft to 20058.00 Ft	January 14, 2019 to February 25, 2019	TelePacer/SlimPulse Third Party Corrected

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

Mike Stephens
Field Service Manager

Schlumberger-Private

Oilfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
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Midland, Texas 79706
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Schlumberger

Well Reference:

33, 23S, 31E, Eddy NM
N 32.26791 W 103.77626

I, Ryland Matthews certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of January 14, 2019 through February 25, 2019, conduct or supervise the taking of the TelePacer/SlimPulse & Third Party Corrected surveys from a depth of 680.00 feet to a depth of 20058.00 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 INCORPORATED for the Sterling Silver MDPI 33-4 Fed Com 5H Well (Original Hole) API No. 30-015-45393 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
Ryland Matthews
FE



Subscribed and Sworn to before me this 7th day of March (month) 2019 (yr)

My Commission expires:

2-16-2022

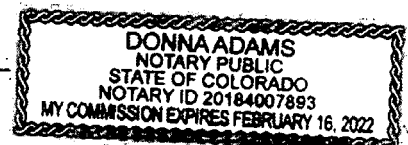
Notary Public

D. Adams

(signature)

(County State)

Adams County Colorado



Schlumberger

OXY

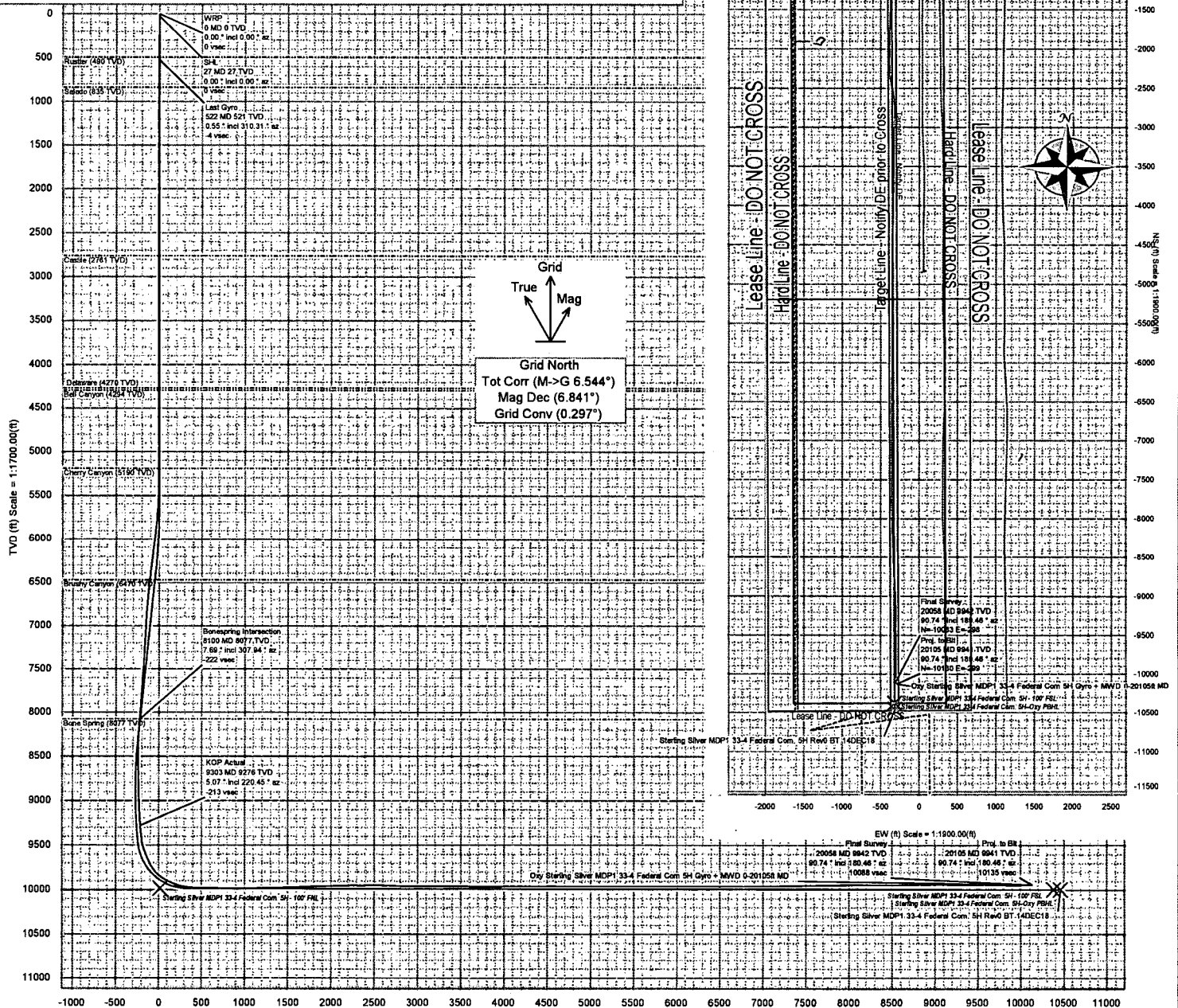


Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Sterling Silver MDP1 33-4 Federal Com 5H	NM Eddy County (NAD 83)	Oxy Sterling Silver MDP1 33-4 Federal Com 5H

Gravity & Magnetic Parameters	Surface Location	Miscellaneous
Model: IFR1 Dp: 59.934" Date: 26-Jan-2019 MagDec: 6.841" FS: 48010.3nT Gravity FS: 998.449mg (9.80665 Based)	NAD83 New Mexico State Plane, Eastern Zone, US Feet Lat: N 32 16 4.51 Northing: 461648.771US Grid Conv: 0.2974" Lon: W 103 46 34.53 Easting: 713521.331US Scale Fact: 0.9994305	Oxy Sterling Slot: Silver MDP1 33-4 TVD Ref: RKB (28.5)(3427.1ft above MSL) Federal Com 5H Plan: Oxy Sterling Silver MDP1 33-4 Federal Com 5H Gyro + MWD 0-201058 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	0.00
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00
Last Gyro	521.50	0.55	310.31	521.48	-3.72	3.79	-2.42	0.10
Bonespring Intersection	8100.10	7.69	307.94	8077.00	-222.15	229.82	-249.05	0.21
KOP Actual	9303.00	5.07	220.45	9275.62	-213.05	223.35	-335.80	0.67
100' FNL Crossing	9941.70	54.69	188.20	9847.15	19.26	-7.19	-397.59	17.32
Final Survey	20058.00	90.74	180.46	9941.58	10087.62	-10083.21	-298.39	1.36
Proj. to Bit	20105.00	90.74	180.46	9940.98	10134.61	-10130.20	-298.77	0.00





Oxy Sterling Silver MDP1 33-4 Federal Com 5H Gyro + MWD 0-20105ft MD

Survey Geodetic Report

(Def Survey)

Report Date: February 27, 2019 - 11:33 AM
 Client: OXY
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Oxy Sterling Silver MDP1 33-4 Federal Com 5H / Oxy Sterling Silver MDP1 33-4 Federal Com 5H
 Well: Oxy Sterling Silver MDP1 33-4 Federal Com 5H
 Borehole: Original Borehole
 UWI / API#: Unknown / 30-015-45393
 Survey Name: Oxy Sterling Silver MDP1 33-4 Federal Com 5H Gyro + MWD 0-20105ft MD
 Survey Date: December 31, 2018
 Tort / AHD / DDI / ERD Ratio: 226.279° / 10839.155 ft / 6.694 / 1.085
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 16' 4.50745", W 103° 46' 34.52902"
 Location Grid N/E Y/X: N 461648.770 ftUS, E 713521.330 ftUS
 CRS Grid Convergence Angle: 0.2974°
 Grid Scale Factor: 0.99994305
 Version / Patch: 2.10.753.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 181.740° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB (26.5)
 TVD Reference Elevation: 3427.100 ft above MSL
 Seabed / Ground Elevation: 3400.600 ft above MSL
 Magnetic Declination: 6.841°
 Total Gravity Field Strength: 998.4491mgN (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48010.300 nT
 Magnetic Dip Angle: 59.994°
 Declination Date: January 26, 2019
 Magnetic Declination Model: IFR1
 North Reference: Grid North
 Grid Convergence Used: 0.2974°
 Total Corr Mag North->Grid: 6.5436°
 North: Well Head
 Local Coord Referenced To: Well Head

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 ° ' '')
WRP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	461648.77	713521.33	N 32 16 4.51	W 103 46 34.53
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	461648.77	713521.33	N 32 16 4.51	W 103 46 34.53
	99.50	0.41	359.25	99.50	-0.26	0.26	0.00	0.56	461649.03	713521.33	N 32 16 4.51	W 103 46 34.53
	156.50	0.71	300.88	156.50	-0.64	0.65	-0.31	1.06	461649.42	713521.02	N 32 16 4.51	W 103 46 34.53
	214.50	0.89	341.52	214.49	-1.14	1.16	-0.73	0.84	461649.93	713520.60	N 32 16 4.52	W 103 46 34.54
	272.50	0.62	340.90	272.49	-1.76	1.79	-0.94	0.12	461650.56	713520.39	N 32 16 4.53	W 103 46 34.54
	335.50	0.60	331.43	335.49	-2.36	2.40	-1.21	0.16	461651.17	713520.12	N 32 16 4.53	W 103 46 34.54
	398.50	0.56	319.69	398.48	-2.88	2.93	-1.57	0.20	461651.70	713519.76	N 32 16 4.54	W 103 46 34.55
	461.50	0.58	315.82	461.48	-3.33	3.39	-1.99	0.07	461652.16	713519.34	N 32 16 4.54	W 103 46 34.55
	521.50	0.55	310.31	521.48	-3.72	3.79	-2.42	0.10	461652.56	713518.91	N 32 16 4.55	W 103 46 34.56
	580.00	0.79	293.64	579.97	-4.60	4.72	-4.00	0.19	461653.49	713517.33	N 32 16 4.55	W 103 46 34.58
	640.00	0.78	292.65	639.96	-5.05	5.21	-5.14	0.02	461653.98	713516.19	N 32 16 4.56	W 103 46 34.59
	700.00	0.55	301.44	699.95	-5.49	5.67	-6.08	0.28	461654.44	713515.25	N 32 16 4.56	W 103 46 34.60
	760.00	0.19	299.81	759.95	-6.06	6.28	-7.09	0.20	461655.05	713514.24	N 32 16 4.57	W 103 46 34.61
	820.00	0.06	283.68	819.95	-6.14	6.37	-7.27	0.15	461655.14	713514.06	N 32 16 4.57	W 103 46 34.61
	880.00	0.02	206.65	879.95	-6.14	6.36	-7.32	0.07	461655.13	713514.01	N 32 16 4.57	W 103 46 34.61
	940.00	0.13	96.55	939.95	-6.09	6.31	-7.13	0.08	461655.08	713514.20	N 32 16 4.57	W 103 46 34.61
	1000.00	0.02	254.47	979.95	-6.08	6.30	-7.04	0.16	461655.07	713514.29	N 32 16 4.57	W 103 46 34.61
	1060.00	0.06	84.44	1039.95	-6.08	6.30	-7.00	0.08	461655.07	713514.33	N 32 16 4.57	W 103 46 34.61
	1120.00	0.02	110.95	1099.95	-6.08	6.29	-6.87	0.02	461655.06	713514.46	N 32 16 4.57	W 103 46 34.61
	1180.00	0.04	199.79	1179.95	-6.05	6.26	-6.87	0.05	461655.03	713514.46	N 32 16 4.57	W 103 46 34.61
	1240.00	0.06	216.01	1229.95	-5.97	6.19	-6.91	0.03	461654.96	713514.42	N 32 16 4.57	W 103 46 34.61
	1300.00	0.42	86.22	1289.95	-5.96	6.15	-6.27	0.24	461654.92	713515.06	N 32 16 4.57	W 103 46 34.60
	1360.00	0.06	62.05	1349.95	-6.02	6.20	-5.88	0.39	461654.97	713515.45	N 32 16 4.57	W 103 46 34.60
	1420.00	0.06	294.09	1419.95	-6.06	6.24	-5.89	0.11	461655.01	713515.44	N 32 16 4.57	W 103 46 34.60
	1480.00	0.06	169.33	1469.95	-6.03	6.21	-5.94	0.10	461654.98	713515.39	N 32 16 4.57	W 103 46 34.60
	1540.00	0.09	32.78	1529.95	-6.04	6.23	-5.91	0.16	461655.00	713515.42	N 32 16 4.57	W 103 46 34.60
	1600.00	0.06	87.54	1589.95	-6.11	6.29	-5.82	0.08	461655.05	713515.51	N 32 16 4.57	W 103 46 34.60
	1660.00	0.06	99.75	1659.95	-6.11	6.29	-5.72	0.01	461655.05	713515.61	N 32 16 4.57	W 103 46 34.60
	1720.00	0.06	290.85	1719.95	-6.12	6.29	-5.72	0.13	461655.06	713515.61	N 32 16 4.57	W 103 46 34.60
	1780.00	0.04	180.75	1769.95	-6.08	6.26	-5.81	0.04	461655.03	713515.62	N 32 16 4.57	W 103 46 34.60
	1840.00	0.06	56.45	1829.95	-6.08	6.25	-5.73	0.05	461655.02	713515.60	N 32 16 4.57	W 103 46 34.60
	1900.00	0.07	202.14	1899.95	-6.05	6.23	-5.71	0.13	461655.00	713515.62	N 32 16 4.57	W 103 46 34.60
	1960.00	0.07	97.37	1949.95	-5.99	6.17	-5.67	0.05	461654.93	713515.68	N 32 16 4.57	W 103 46 34.59
	2020.00	0.06	131.02	2019.95	-5.95	6.13	-5.58	0.04	461654.89	713515.75	N 32 16 4.57	W 103 46 34.59
	2080.00	0.02	78.37	2069.95	-5.93	6.10	-5.53	0.05	461654.87	713515.80	N 32 16 4.57	W 103 46 34.59
	2140.00	0.07	153.96	2129.95	-5.88	6.05	-5.48	0.07	461654.82	713515.85	N 32 16 4.57	W 103 46 34.59
	2200.00	0.09	164.54	2189.95	-5.76	5.92	-5.44	0.03	461654.69	713515.89	N 32 16 4.57	W 103 46 34.59
	2260.00	0.06	154.05	2249.95	-5.53	5.69	-5.36	0.02	461654.46	713515.87	N 32 16 4.56	W 103 46 34.59
	2320.00	0.07	171.24	2309.95	-5.43	5.59	-5.33	0.02	461654.36	713516.00	N 32 16 4.56	W 103 46 34.59
	2380.00	0.17	73.75	2379.95	-5.41	5.57	-5.18	0.20	461654.34	713516.15	N 32 16 4.56	W 103 46 34.59
	2440.00	0.17	141.82	2439.95	-5.35	5.50	-4.95	0.19	461654.27	713516.38	N 32 16 4.56	W 103 46 34.59
	2500.00	0.19	245.51	2499.95	-5.01	5.17	-5.06	0.16	461653.94	713516.27	N 32 16 4.56	W 103 46 34.59
	2560.00	0.26	265.55	2559.95	-4.83	5.01	-5.78	0.05	461653.77	713515.55	N 32 16 4.56	W 103 46 34.60
	2620.00	0.24	237.09	2619.95	-4.56	4.76	-6.54	0.07	461653.53	713514.79	N 32 16 4.55	W 103 46 34.60
	2680.00	0.20	223.35	2679.95	-4.32	4.53	-6.81	0.07	461653.30	713514.52	N 32 16 4.55	W 103 46 34.61
	2740.00	0.15	234.09	2739.95	-3.92	4.15	-7.24	0.03	461652.92	713514.09	N 32 16 4.55	W 103 46 34.61
	2800.00	0.34	271.85	2799.95	-3.85	4.08	-7.62	0.26	461652.85	713513.71	N 32 16 4.55	W 103 46 34.62
	2860.00	0.39	264.43	2859.95	-3.81	4.06	-8.22	0.07	461652.83	713513.11	N 32 16 4.55	W 103 46 34.62
	2920.00	0.28	316.50	2919.95	-3.93	4.20	-8.70	0.33	461652.97	713512.63	N 32 16 4.55	W 103 46 34.63
	2980.00	1.37	331.09	2979.95	-5.06	5.35	-9.41	1.17	461654.12	713511.93	N 32 16 4.56	W 103 46 34.64
	3040.00	2.96	339.86	3039.95	-8.31	8.64	-10.80	1.70	461657.41	713510.53	N 32 16 4.59	W 103 46 34.65
	3100.00	4.46	340.23	3099.95	-14.03	14.42	-12.89	1.58	461663.19	713508.44	N 32 16 4.65	W 103 46 34.68
	3160.00	5.55	340.41	3159.95	-21.74	22.23	-15.68	1.15	461671.00	713505.65	N 32 16 4.73	W 103 46 34.71
	3220.00	6.97	338.85	3219.95	-31.23	31.83	-19.26	1.52	461680.60	713502.07	N 32 16 4.82	W 103 46 34.75
	3280.00	7.66	335.21	3279.95	-42.21	42.95	-24.00	0.87	461691.72	713497.33	N 32 16 4.93	W 103 46 34.81
	3340.00	8.23	333.21	3339.95	-53.72	54.65	-29.66	0.67	461703.41	713491.67	N 32 16 5.05	W 103 46 34.87
	3400.00	8.05	333.03	3399.95	-65.53	66.65	-35.74	0.19	461715.41	713485.59	N 32 16 5.17	W 103 46 34.94
	3460.00	8.30	328.73	3459.95	-88.58	90.10	-48.82	0.35	461738.87	713472.51	N 32 16 5.40	W 103 46 35.09
	3520.00	8.07	326.42	3519.95	-99.77	101.52	-56.07	0.42	461750.28	713465.26	N 32 16 5.51	W 103 46 35.18
	3580.00	8.03	320.06	3579.95	-110.05	112.05	-63.93	0.95	461760.81	713457.40	N 32 16 5.62	W 103 46 35.27
	3640.00	7.88	316.46	3639.95	-119.59	121.86	-72.68	0.55	461770.62	713448.65	N 32 16 5.72	W 103 46 35.37
	3700.00	7.90	309.34	3699.95	-128.16	130.72	-82.22	1.03	461779.48	713439.12	N 32 16 5.81	W 103 46 35.48
	3760.00	8.22	304.50	3759.95	-135.74	138.62	-92.75	0.80	461787.38	713428.59	N 32 16 5.88	W 103 46 35.60
	3820.00	8.09	300.75	3819.95	-142.65	145.88	-104.09	0.58	461794.64	713417.24	N 32 16 5.96	W 103 46 35.73
	3880.00	7.79	297.16	3879.95	-148.60	152.17	-115.44	0.62	461800.93	713405.89	N 32 16 6.02	W 103 46 35.86
	3940.00	8.07	292.87	3939.95	-158.88	163.17	-139.06	0.35	461811.93	713382.27	N 32 16 6.13	W 103 46 36.14
	4000.00	8.08	295.16	3999.95	-163.93	168.60	-151.25	0.34	461817.36	713370.09	N 32 16 6.18	W 103 46 36.28
	4060.00	7.93	294.50	4059.95	-169.07	174.10	-163.13	0.19	461822.86	713358.21	N 32 16 6.24	W 103 46 36.42
	4120.00	8.05	297.98	4119.95	-174.49	179.88	-174.84	0.53	461828.64	713346.50	N 32 16 6.30	W 103 46 36.55
	4180.00	8.07	300.68	4179.95	-180.65	186.40	-186.45	0.40	461835.16	713334.89	N 32 16 6.38	W 103 46 36.69
	4240.00	7.90	301.86	4239.95	-187.16	193.25	-197.73	0.25	461842.01	713323.61	N 32 16 6.43	W 103 46 36.82
	4300.00	7.95	303.70	4299.95	-193.84	200.27	-208.63	0.28	461849.02	713312.71	N 32 16 6.50	W 103 46 36.95

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
KOP Actual	8113.00	7.67	308.03	8089.78	-223.17	230.88	-250.41	0.21	461879.63	713270.94	N 32 16 6.80 W	103 46 37.43
	8302.00	6.24	288.95	8277.41	-233.67	241.99	-270.06	1.43	461890.74	713251.29	N 32 16 6.92 W	103 46 37.66
	8397.00	4.95	279.37	8371.96	-235.75	244.33	-278.99	1.67	461893.09	713242.36	N 32 16 6.94 W	103 46 37.76
	8491.00	4.26	279.25	8465.65	-236.74	245.55	-286.43	0.73	461894.31	713234.91	N 32 16 6.95 W	103 46 37.85
	8585.00	3.97	270.41	8559.41	-237.12	246.14	-293.13	0.74	461894.89	713228.21	N 32 16 6.96 W	103 46 37.93
	8680.00	3.84	264.05	8654.19	-236.62	245.83	-299.59	0.48	461894.59	713221.76	N 32 16 6.96 W	103 46 38.00
	8774.00	3.75	254.05	8747.99	-235.26	244.66	-305.67	0.71	461893.41	713215.67	N 32 16 6.94 W	103 46 38.07
	8869.00	3.51	251.32	8842.80	-233.31	242.87	-311.42	0.31	461891.63	713209.93	N 32 16 6.93 W	103 46 38.14
	8963.00	3.99	241.00	8936.60	-230.63	240.37	-317.00	0.88	461889.12	713204.35	N 32 16 6.90 W	103 46 38.21
	9058.00	3.93	235.93	9031.37	-227.04	236.94	-322.59	0.37	461885.70	713198.76	N 32 16 6.87 W	103 46 38.27
	9247.00	4.78	217.67	9219.83	-216.87	227.08	-332.77	0.85	461875.83	713188.58	N 32 16 6.77 W	103 46 38.39
	9303.00	5.07	220.45	9275.62	-213.05	223.35	-335.80	0.67	461872.10	713185.55	N 32 16 6.73 W	103 46 38.43
	9470.00	9.79	218.81	9441.18	-195.95	206.66	-349.49	2.83	461855.42	713171.86	N 32 16 6.57 W	103 46 38.59
	9565.00	22.19	209.77	9532.33	-173.58	184.71	-363.52	13.27	461833.46	713157.83	N 32 16 6.35 W	103 46 38.75
	9659.00	24.44	201.93	9618.67	-139.65	151.25	-379.60	4.07	461800.01	713141.75	N 32 16 6.02 W	103 46 38.94
	9754.00	26.99	182.51	9704.41	-99.57	111.40	-387.90	9.22	461760.16	713133.45	N 32 16 5.63 W	103 46 39.04
	9848.00	38.87	183.16	9783.17	-48.57	60.46	-390.47	12.64	461709.22	713130.88	N 32 16 5.13 W	103 46 39.07
	100' FNL Crossing	9941.70	54.69	188.20	9847.15	19.26	-7.19	-397.59	17.32	461641.58	713123.76	N 32 16 4.46 W
Final Survey Proj. to Bit	9943.00	54.91	188.25	9847.90	20.32	-8.24	-397.74	17.32	461640.53	713123.61	N 32 16 4.45 W	103 46 39.16
	10037.00	61.41	184.83	9897.48	98.84	-87.53	-406.75	7.57	461561.25	713114.61	N 32 16 3.66 W	103 46 39.27
	10132.00	70.67	174.50	9936.10	186.33	-174.09	-405.96	13.91	461474.69	713115.40	N 32 16 2.81 W	103 46 39.27
	10226.00	80.72	170.19	9959.31	276.05	-264.21	-393.77	11.58	461384.57	713127.59	N 32 16 1.91 W	103 46 39.13
	10321.00	83.47	170.80	9972.37	368.33	-357.01	-378.23	2.96	461291.78	713143.12	N 32 16 0.99 W	103 46 38.96
	10416.00	88.02	176.23	9979.42	462.03	-451.08	-367.55	7.44	461187.72	713153.80	N 32 16 0.06 W	103 46 38.84
	10500.00	89.60	175.56	9981.17	545.57	-534.84	-361.54	2.04	461113.96	713159.81	N 32 15 59.23 W	103 46 38.77
	10593.00	89.98	176.14	9981.51	638.08	-627.60	-354.81	0.75	461021.21	713166.54	N 32 15 58.32 W	103 46 38.70
	10687.00	88.64	177.98	9982.64	731.76	-721.46	-349.99	2.42	460927.35	713171.36	N 32 15 57.39 W	103 46 38.65
	10780.00	89.09	178.24	9984.48	824.55	-814.39	-346.92	0.56	460834.43	713174.43	N 32 15 56.47 W	103 46 38.62
	10873.00	89.05	179.83	9985.99	917.43	-907.36	-345.36	1.71	460741.46	713175.99	N 32 15 55.55 W	103 46 38.61
	10966.00	91.43	183.27	9986.60	1010.41	-1000.31	-347.87	4.50	460648.52	713173.48	N 32 15 54.63 W	103 46 38.64
	11154.00	91.84	183.97	9980.24	1198.23	-1187.86	-359.74	0.43	460480.98	713161.62	N 32 15 52.77 W	103 46 38.79
	11343.00	91.36	182.73	9974.96	1387.08	-1376.46	-370.78	0.70	460272.40	713150.58	N 32 15 50.91 W	103 46 38.93
	11437.00	90.81	181.54	9973.18	1481.06	-1470.37	-374.28	1.39	460178.49	713147.08	N 32 15 49.98 W	103 46 38.98
	11532.00	91.81	181.87	9971.01	1576.03	-1565.30	-377.10	1.11	460083.56	713144.25	N 32 15 49.04 W	103 46 39.02
	11721.00	91.94	182.20	9964.82	1764.93	-1754.08	-383.81	0.19	459894.79	713137.54	N 32 15 47.17 W	103 46 39.10
	11815.00	91.70	181.75	9961.84	1858.88	-1847.98	-387.05	0.54	459800.90	713134.30	N 32 15 46.24 W	103 46 39.15
	11910.00	91.98	180.38	9958.79	1953.82	-1942.91	-388.81	1.47	459705.97	713132.54	N 32 15 45.30 W	103 46 39.17
	12005.00	90.81	181.47	9956.48	2048.78	-2037.87	-390.35	1.68	459611.02	713131.01	N 32 15 44.36 W	103 46 39.20
	12099.00	91.08	180.83	9954.93	2142.76	-2131.83	-392.23	0.74	459517.06	713129.12	N 32 15 43.43 W	103 46 39.23
	12194.00	91.12	178.20	9953.10	2237.66	-2226.81	-391.43	2.77	459422.10	713129.92	N 32 15 42.49 W	103 46 39.22
	12382.00	90.26	168.15	9950.83	2423.31	-2413.22	-369.12	5.36	459235.69	713152.24	N 32 15 40.65 W	103 46 38.97
	12477.00	90.40	168.86	9950.28	2517.79	-2506.31	-350.18	0.76	459142.61	713171.17	N 32 15 39.73 W	103 46 38.76
	12572.00	88.57	171.12	9951.14	2608.78	-2599.85	-333.67	3.06	459049.07	713187.68	N 32 15 38.80 W	103 46 38.57
	12666.00	87.19	175.66	9954.62	2701.70	-2693.14	-322.86	5.04	458955.79	713198.49	N 32 15 37.88 W	103 46 38.45
	12761.00	87.81	181.45	9958.77	2796.42	-2787.87	-320.47	6.12	458866.90	713200.88	N 32 15 36.94 W	103 46 38.43
	12855.00	88.98	182.65	9961.40	2890.38	-2881.87	-323.83	1.78	458767.07	713197.52	N 32 15 36.01 W	103 46 38.47
	12950.00	91.29	182.17	9961.17	2985.36	-2976.78	-327.83	2.48	458672.16	713193.52	N 32 15 35.07 W	103 46 38.53
	13044.00	89.88	180.67	9960.21	3079.35	-3070.74	-330.16	2.19	458578.21	713191.18	N 32 15 34.14 W	103 46 38.56
	13139.00	89.29	179.14	9960.00	3174.30	-3165.74	-330.00	1.73	458483.22	713191.35	N 32 15 33.20 W	103 46 38.56
	13233.00	89.60	181.11	9961.81	3268.25	-3259.73	-330.20	2.12	458389.23	713191.15	N 32 15 32.27 W	103 46 38.57
	13328.00	89.09	181.31	9962.90	3363.24	-3354.70	-332.21	0.58	458294.27	713189.14	N 32 15 31.33 W	103 46 38.60
	13422.00	89.80	180.16	9963.97	3457.22	-3448.68	-333.42	1.34	458200.29	713187.93	N 32 15 30.40 W	103 46 38.62
	13516.00	89.60	180.61	9964.63	3551.19	-3542.68	-334.05	0.48	458106.30	713187.30	N 32 15 29.47 W	103 46 38.63
	13611.00	89.05	180.85	9965.75	3646.17	-3637.67	-335.26	0.63	458011.32	713186.09	N 32 15 28.53 W	103 46 38.65
	13705.00	89.98	180.65	9966.54	3740.15	-3731.65	-336.49	1.01	457917.34	713184.86	N 32 15 27.60 W	103 46 38.67
	13800.00	90.36	180.98	9966.26	3835.14	-3826.64	-337.84	0.53	457822.35	713183.51	N 32 15 26.66 W	103 46 38.69
	13894.00	90.88	180.78	9966.25	3929.12	-3920.63	-339.28	0.59	457728.38	713182.07	N 32 15 25.73 W	103 46 38.72
	14083.00	90.60	180.88	9962.80	4118.08	-4109.59	-342.02	0.16	457539.42	713179.33	N 32 15 23.86 W	103 46 38.76
	14272.00	90.57	180.76	9960.88	4307.05	-4298.56	-344.72	0.07	457350.46	713176.63	N 32 15 21.99 W	103 46 38.80
	14366.00	90.50	180.41	9960.00	4401.02	-4392.55	-345.68	0.38	457256.48	713175.67	N 32 15 21.06 W	103 46 38.82
	14555.00	89.78	179.85	9959.54	4589.95	-4581.55	-346.11	0.48	457067.49	713175.24	N 32 15 19.19 W	103 46 38.84
	14744.00	89.74	179.81	9960.33	4778.84	-4770.55	-345.55	0.03	456878.51	713175.80	N 32 15 17.32 W	103 46 38.84
	14933.00	89.95	179.85	9960.84	4967.73	-4959.54	-344.99	0.11	456689.52	713176.36	N 32 15 15.45 W	103 46 38.85
	15122.00	90.15	180.11	9960.67	5156.64	-5148.54	-344.93	0.17	456500.53	713176.42	N 32 15 13.58 W	103 46 38.86
15311.00	89.57	179.97	9961.14	5345.56	-5337.54	-345.06	0.32	456311.54	713176.29	N 32 15 11.71 W	103 46 38.87	
15405.00	89.84	180.35	9961.62	5539.52	-5531.54	-345.32	0.50	456122.56	713176.03	N 32 15 10.78 W	103 46 38.88	
15500.00	90.40	180.94	9961.									

Comments	MD (ft)	Incl (°)	Azlm Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
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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 Borehole / Oxy Sterling Silver MDP1 33-4 Federal Com 5H Gyro + MWD 0-20105ft MD
	1	26.500	26.500	Act Stns	30.000	30.000 NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Sterling Silver MDP1 33-4 Federal Com 5H Gyro + MWD 0-20105ft MD
	1	26.500	521.500	Act Stns	30.000	30.000 NAL_NSG+MSHOT	Original Borehole / Oxy Sterling Silver MDP1 33-4 Federal Com 5H Gyro + MWD 0-20105ft MD
	1	521.500	20105.000	Act Stns	30.000	30.000 NAL_MWD_IFR1+MS	Original Borehole / Oxy Sterling Silver MDP1 33-4 Federal Com

...Original Borehole\Oxy Sterling Silver MDP1 33-4 Federal Com 5H Gyro + MWD 0-20105ft MD

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.
NMNM45236

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
STERLING SILVER MDP1 33-4 FD C 5H9. API Well No.
30-015-45393-00-X110. Field and Pool or Exploratory Area
INGLE WELLS11. County or Parish, State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
OXY USA INCORPORATEDContact: SARAH CHAPMAN
E-Mail: SARAH_CHAPMAN@OXY.COM3a. Address
5 GREENWAY PLAZA SUITE 110
HOUSTON, TX 77046-05213b. Phone No. (include area code)
Ph: 713-350-4997

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

Sec 33 T23S R31E NENE 96FNL 634FEL
32.267918 N Lat, 103.776260 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☒ Subsequent Report☐ Final Abandonment Notice☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Hydraulic Fracturing☐ New Construction☐ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☒ Other
Well Spud

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.

Spud 17-1/2" hole 11/03/18, drill to 542'. 11/4/18 Notify David Bervine w/ BLM of intent to run and cement surface casing. RIH & set 13-3/8" J-55 45.5 BTC csg @ 533', pump 20bbl FWS followed by 685sxs (166bbl) class C cmt w/ additives 14.8ppg 1.36 yield. Full returns throughout job, circ 313sxs (76bbl) cmt to surface. WOC 11/4/18 RD and release rig.

RECEIVED

APR 03 2019

DISTRICT II-ARTESIA O.C.D.

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

Electronic Submission #446572 verified by the BLM Well Information System
For OXY USA INCORPORATED, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 12/06/2018 (19PP0540SE)

Name (Printed/Typed) DAVID STEWART

Title REGULATORY ADVISOR

Signature (Electronic Submission)

Date 12/05/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

ACCEPTED

JONATHON SHEPARD
Title PETROLEUM ENGINEER

Date 12/06/2018

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 Carlsbad

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)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Revisions to Operator-Submitted EC Data for Sundry Notice #446572

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	DRG SR	SPUD SR
Lease:	NMNM45236	NMNM45236
Agreement:		
Operator:	OXY USA INC P.O. BOX 4294 HOUSTON, TX 77210 Ph: 713-350-4997	OXY USA INCORPORATED 5 GREENWAY PLAZA SUITE 110 HOUSTON, TX 77046-0521 Ph: 713.350.4816
Admin Contact:	SARAH CHAPMAN REGULATORY SPECIALIST E-Mail: SARAH_CHAPMAN@OXY.COM Cell: 281-642-5503 Ph: 713-350-4997	SARAH CHAPMAN REGULATORY SPECIALIST E-Mail: SARAH_CHAPMAN@OXY.COM Cell: 281-642-5503 Ph: 713-350-4997
Tech Contact:	DAVID STEWART SR REGULATORY ADVISOR E-Mail: DAVID_STEWART@OXY.COM Ph: 432-685-5717	DAVID STEWART REGULATORY ADVISOR E-Mail: david_stewart@oxy.com Ph: 432.685.5717
Location:		
State:	NM	NM
County:	EDDY	EDDY
Field/Pool:	INGLE WELLS BONE SPRING	INGLE WELLS
Well/Facility:	STERLING SILVER MDP1 33-4 FEDE 5H Sec 33 T23S R31E 96FNL 643FEL 32.267918 N Lat, 103.776258 W Lon	STERLING SILVER MDP1 33-4 FD C 5H Sec 33 T23S R31E NENE 96FNL 634FEL 32.267918 N Lat, 103.776260 W Lon

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.**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM45236
2. Name of Operator OXY USA INCORPORATED		6. If Indian, Allottee or Tribe Name
3a. Address 5 GREENWAY PLAZA SUITE 110 HOUSTON, TX 77046-0521		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 713-350-4997		8. Well Name and No. STERLING SILVER MDP1 33-4 FD C 5H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 33 T23S R31E NENE 96FNL 634FEL 32.267918 N Lat, 103.776260 W Lon		9. API Well No. 30-015-45393-00-X1
		10. Field and Pool or Exploratory Area INGLE WELLS
		11. County or Parish, State EDDY 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 recompleate 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 recompleation 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.

1/12/19 RU BOP, test to 5000# high 250# low, good test. Test 13-3/8" csg to 1500# for 30 minutes, good test. RIH & drill new formation to 572', perform FIT test to EMW=10.0ppg 350#, good test. Drill 12-1/4" hole to 4398'. RIH & set 9-5/8" 43.5# HCL-80 BTC csg @ 4380', pump 30bbl tuned spacer then cmt w/ 1238sxs (277bbl) class C w/ additives 12.9ppg 1.87 yield followed by 177sxs (42bbl) class C w/ additives 14.8ppg 1.33 yield, full returns throughout job, circ 313sxs (70bbl) cmt to surface. WOC. 1/16/19 RD and rig release. 2/12/19 RU BOP, test to 5000# high 250# low, good test. Test 9-5/8" csg to 1500# for 30 minutes, good test. RIH & drill new formation to 4390', perform FIT test to EMW=14.5ppg 1250psi, good test. Drill 8-1/2" hole to 9415'. RIH & set 7-5/8" 26.4# FJ and SF csg @ 9397', pump 40bbl spacer then cmt w/ 331sxs (110bbl) class C cmt w/ additives 12.8ppg 1.96 yield followed by 127sxs (40bbl) class C w/ additives 12.9ppg 1.76 yield. No cmt to surface, RU echometer to determine TOC, determined to be @ 31'. Pumped additional cmt w/ 16sxs (4bbl) class C w/ additives 12.8ppg 1.76 yield, TOC @ surface.

RECEIVED

APR 03 2019

DISTRICT II-ARTESIA O.C.D.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #455582 verified by the BLM Well Information System For OXY USA INCORPORATED, sent to the Carlsbad Committed to AFMSS for processing by PRISCILLA PEREZ on 02/22/2019 (19PP1121SE)	
Name (Printed/Typed) DAVID STEWART	Title REGULATORY ADVISOR
Signature (Electronic Submission)	Date 02/22/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED	JONATHON SHEPARD Title PETROLEUM ENGINEER	Date 02/27/2019
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 Carlsbad

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)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Revisions to Operator-Submitted EC Data for Sundry Notice #455582

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	DRG SR	DRG SR
Lease:	NMNM45236	NMNM45236
Agreement:		
Operator:	OXY USA INC. P.O. BOX 4294 HOUSTON, TX 77210 Ph: 713-350-4997	OXY USA INCORPORATED 5 GREENWAY PLAZA SUITE 110 HOUSTON, TX 77046-0521 Ph: 713.350.4816
Admin Contact:	SARAH CHAPMAN REGULATORY SPECIALIST E-Mail: SARAH_CHAPMAN@OXY.COM Cell: 281-642-5503 Ph: 713-350-4997	SARAH CHAPMAN REGULATORY SPECIALIST E-Mail: SARAH_CHAPMAN@OXY.COM Cell: 281-642-5503 Ph: 713-350-4997
Tech Contact:	DAVID STEWART SR. REGULATORY ADVISOR E-Mail: DAVID_STEWART@OXY.COM Ph: 432-685-5717	DAVID STEWART REGULATORY ADVISOR E-Mail: david_stewart@oxy.com Ph: 432.685.5717
Location:		
State:	NM	NM
County:	EDDY	EDDY
Field/Pool:	INGLE WELLS BONE SPRING	INGLE WELLS
Well/Facility:	STERLING SILVER MDP1 33-4 FED 5H Sec 33 T23S R31E NENE 96FNL 634FEL 32.267918 N Lat, 103.776260 W Lon	STERLING SILVER MDP1 33-4 FD C 5H Sec 33 T23S R31E NENE 96FNL 634FEL 32.267918 N Lat, 103.776260 W Lon