Oilfield Services, Continuous Data
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

30-015-44646

November 16, 2018

RECEIVED

MAR 18 2019

DISTRICT II-ARTESIA O.C.D.

OXY USA Inc.

Re:

1, 25S, 29E, Eddy NM
32.16349 -103.93337

CLIENT: OXY USA Inc.
WELL: Corral Canyon 36-25 Fed Com 36H
FIELD: Purple Sage Wolfcamp

RIG: H&P 636
COUNTY: Eddy
API NO: 30-015-44646
JOB NO: 18MLD3554

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.

Name & Title of Surveyor	Drainhole Number	Surveyed Depths	Dates Performed	Type of Survey
Andres Hernandez FS	Corral Canyon 36-25 Fed Com 36H Original Hole	697.00 Ft to 21183.00 Ft	October 17, 2018 to November 7, 2018	SlimPulse Third Party Correcte

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

Josh Rubash/Van Spinks
Field Service Manager

3/21/19

Directional Surveys Certified Survey

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:
I, 25S, 29E, Eddy NM
32.16349 -103.93337

I, Andres Hernandez certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of October 17, 2018 through November 07, 2018, conduct or supervise the taking of the SlimPulse & Third Party Corrected surveys from a depth of 697.00 feet to a depth of 21183.00 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 Corral Canyon 36-25 Fed Com 36H Well (Original Hole) API No. 30-015-44646 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
Andres Hernandez
FS

6-NOV-2018

Subscribed and Sworn to before me this 16th day of November (month) 2018 (yr)

My Commission expires:

2-16-2022

D. Adams
Notary Public (signature)

Adams County Colorado
(County State)

DONNA ADAMS
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20184007893
MY COMMISSION EXPIRES FEBRUARY 16, 2022

Schlumberger

Oxy Corral Canyon 36-25 Fed Com 36H Gyro + MWD 0-21233'MD Survey
Geodetic Report
(Def Survey)

Report Date:	November 07, 2018 - 12:36 PM	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	OXY	**Vertical Section Azimuth:**	3.900 ° (Grid North)
Field:	NM Eddy County (NAD 83)	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	Oxy Corral Canyon 36-25 Fed Com 36H / Oxy Corral Canyon 36-25 Fed Com 36H	**TVD Reference Datum:**	RKB
Well:	Corral Canyon 36-25 Fed Com 36H	**TVD Reference Elevation:**	3159.700 ft above MSL
Borehole:	Original Borehole	**Seabed / Ground Elevation:**	3133.200 ft above MSL
UWI / API#:	Unknown / Unknown	**Magnetic Declination:**	6.892 °
Survey Name:	Oxy Corral Canyon 36-25 Fed Com 36H Gyro + MWD 0-21233'MD	**Total Gravity Field Strength:**	998.4490mgn (9.80665 Based)
Survey Date:	October 10, 2018	**Gravity Model:**	GARM
Tort / AHD / DDI / ERD Ratio:	248.215 ° / 11833.176 ft / 6.772 / 1.123	**Total Magnetic Field Strength:**	47956.600 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Dip Angle:**	59.891 °
Location Lat / Long:	N 32° 9' 48.57476", W 103° 56' 0.15888"	**Declination Date:**	October 10, 2018
Location Grid N/E Y/X:	N 423443.780 ftUS, E 665098.980 ftUS	**Magnetic Declination Model:**	IFR1
CRS Grid Convergence Angle:	0.2129 °	**North Reference:**	Grid North
Grid Scale Factor:	0.99992663	**Grid Convergence Used:**	0.2129 °
Version / Patch:	2.10.740.0	**Total Corr Mag North->Grid North:**	6.6791 °
		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 ° ' ")
RKB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	423443.78	665098.98	N 32 9 48.57	W 103 56 0.16
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	423443.78	665098.98	N 32 9 48.57	W 103 56 0.16
	69.88	0.63	100.34	69.88	-0.03	-0.04	0.23	1.45	423443.74	665099.21	N 32 9 48.57	W 103 56 0.16
	156.86	0.77	106.23	156.85	-0.21	-0.29	1.27	0.18	423443.49	665100.25	N 32 9 48.57	W 103 56 0.14
	244.87	0.27	107.44	244.86	-0.38	-0.52	2.03	0.57	423443.26	665101.01	N 32 9 48.57	W 103 56 0.14
	336.05	0.21	75.64	336.04	-0.38	-0.54	2.40	0.16	423443.24	665101.38	N 32 9 48.57	W 103 56 0.13
	430.62	0.30	191.19	430.61	-0.57	-0.74	2.52	0.46	423443.04	665101.50	N 32 9 48.57	W 103 56 0.13
	525.26	0.44	191.97	525.25	-1.17	-1.34	2.40	0.15	423442.44	665101.37	N 32 9 48.56	W 103 56 0.13
Last Gyro	596.50	0.69	190.83	596.48	-1.87	-2.03	2.26	0.35	423441.75	665101.24	N 32 9 48.55	W 103 56 0.13
	697.00	0.48	252.49	696.98	-2.63	-2.75	1.74	0.62	423441.03	665100.72	N 32 9 48.55	W 103 56 0.14
	791.00	1.04	190.63	790.97	-3.62	-3.71	1.21	0.98	423440.07	665100.19	N 32 9 48.54	W 103 56 0.14
	885.00	0.13	209.75	884.96	-4.56	-4.64	1.00	0.98	423439.14	665099.98	N 32 9 48.53	W 103 56 0.15
	976.00	0.08	358.65	975.96	-4.59	-4.66	0.95	0.22	423439.12	665099.93	N 32 9 48.53	W 103 56 0.15
	1070.00	0.03	208.56	1069.96	-4.55	-4.62	0.93	0.11	423439.16	665099.91	N 32 9 48.53	W 103 56 0.15
	1164.00	0.07	76.52	1163.96	-4.55	-4.63	0.98	0.10	423439.15	665099.96	N 32 9 48.53	W 103 56 0.15
	1258.00	0.02	122.76	1257.96	-4.54	-4.63	1.05	0.06	423439.16	665100.03	N 32 9 48.53	W 103 56 0.15
	1352.00	0.16	30.97	1351.96	-4.43	-4.52	1.13	0.17	423439.26	665100.11	N 32 9 48.53	W 103 56 0.15
	1540.00	0.16	319.40	1539.96	-4.01	-4.10	1.09	0.10	423439.68	665100.07	N 32 9 48.53	W 103 56 0.15
	1634.00	0.39	356.02	1633.96	-3.60	-3.68	0.99	0.30	423440.10	665099.97	N 32 9 48.54	W 103 56 0.15
	1824.00	0.12	336.06	1823.96	-2.79	-2.85	0.86	0.15	423440.93	665099.84	N 32 9 48.55	W 103 56 0.15
	1919.00	0.20	115.71	1918.96	-2.76	-2.83	0.97	0.32	423440.95	665099.95	N 32 9 48.55	W 103 56 0.15
	2013.00	0.08	87.01	2012.96	-2.81	-2.90	1.18	0.14	423440.88	665100.16	N 32 9 48.55	W 103 56 0.15
	2108.00	0.04	172.77	2107.96	-2.84	-2.93	1.25	0.09	423440.85	665100.23	N 32 9 48.55	W 103 56 0.14
	2202.00	0.05	131.76	2201.96	-2.90	-2.99	1.29	0.03	423440.79	665100.27	N 32 9 48.55	W 103 56 0.14
	2297.00	0.11	136.71	2296.96	-2.98	-3.08	1.38	0.06	423440.70	665100.36	N 32 9 48.54	W 103 56 0.14
	2391.00	0.09	129.55	2390.96	-3.09	-3.20	1.50	0.03	423440.58	665100.48	N 32 9 48.54	W 103 56 0.14
	2486.00	0.13	91.46	2485.96	-3.13	-3.25	1.67	0.09	423440.53	665100.65	N 32 9 48.54	W 103 56 0.14
	2580.00	0.51	71.87	2579.96	-2.96	-3.12	2.17	0.41	423440.66	665101.15	N 32 9 48.54	W 103 56 0.13
	2675.00	1.94	84.67	2674.93	-2.55	-2.84	4.17	1.52	423440.94	665103.15	N 32 9 48.55	W 103 56 0.11
	2769.00	2.88	97.50	2768.85	-2.44	-3.00	8.10	1.15	423440.78	665107.08	N 32 9 48.54	W 103 56 0.06
	2870.00	0.94	103.38	2869.79	-2.74	-3.52	11.42	1.93	423440.26	665110.40	N 32 9 48.54	W 103 56 0.03
	2964.00	0.61	139.69	2963.78	-3.22	-4.08	12.49	0.61	423439.70	665111.47	N 32 9 48.53	W 103 56 0.01
	3059.00	1.52	144.82	3058.76	-4.56	-5.50	13.55	0.96	423438.28	665112.53	N 32 9 48.52	W 103 56 0.00
	3153.00	0.55	140.77	3152.75	-5.86	-6.87	14.55	1.03	423436.91	665113.53	N 32 9 48.51	W 103 55 59.99
	3248.00	0.06	115.96	3247.75	-6.21	-7.24	14.88	0.52	423436.54	665113.86	N 32 9 48.50	W 103 55 59.99
	3342.00	0.09	166.67	3341.75	-6.30	-7.33	14.95	0.07	423436.45	665113.92	N 32 9 48.50	W 103 55 59.99
	3437.00	0.09	140.52	3436.75	-6.43	-7.46	15.01	0.04	423436.32	665113.99	N 32 9 48.50	W 103 55 59.98
	3625.00	0.09	314.26	3624.75	-6.44	-7.47	15.00	0.10	423436.31	665113.98	N 32 9 48.50	W 103 55 59.98
	3721.00	0.10	43.02	3720.75	-6.32	-7.36	15.00	0.14	423436.42	665113.98	N 32 9 48.50	W 103 55 59.98
	3815.00	0.09	237.98	3814.75	-6.30	-7.34	14.99	0.20	423436.44	665113.97	N 32 9 48.50	W 103 55 59.98
	3910.00	0.09	259.13	3909.75	-6.37	-7.39	14.86	0.03	423436.39	665113.84	N 32 9 48.50	W 103 55 59.99
	4004.00	0.06	222.32	4003.75	-6.42	-7.44	14.75	0.06	423436.34	665113.73	N 32 9 48.50	W 103 55 59.99
	4099.00	0.11	223.00	4098.74	-6.53	-7.55	14.66	0.05	423436.23	665113.64	N 32 9 48.50	W 103 55 59.99
	4287.00	0.19	239.08	4286.74	-6.85	-7.84	14.27	0.05	423435.94	665113.25	N 32 9 48.50	W 103 55 59.99
	4382.00	0.22	258.23	4381.74	-6.99	-7.96	13.95	0.08	423435.82	665112.93	N 32 9 48.50	W 103 56 0.00
	4482.00	0.16	230.43	4481.74	-7.14	-8.09	13.66	0.11	423435.69	665112.64	N 32 9 48.49	W 103 56 0.00
	4577.00	0.24	266.16	4576.74	-7.26	-8.18	13.36	0.15	423435.60	665112.34	N 32 9 48.49	W 103 56 0.00
	4766.00	0.03	216.79	4765.74	-7.35	-8.25	12.93	0.12	423435.53	665111.91	N 32 9 48.49	W 103 56 0.01
	4955.00	0.09	246.07	4954.74	-7.46	-8.35	12.77	0.03	423435.43	665111.75	N 32 9 48.49	W 103 56 0.01
	5143.00	0.09	265.93	5142.74	-7.55	-8.42	12.48	0.02	423435.36	665111.46	N 32 9 48.49	W 103 56 0.01
	5332.00	0.09	263.80	5331.74	-7.55	-8.40	12.19	0.01	423435.39	665111.17	N 32 9 48.49	W 103 56 0.02
	5427.00	0.09	183.21	5426.74	-7.61	-8.45	12.12	0.15	423435.33	665111.09	N 32 9 48.49	W 103 56 0.02
	5521.00	0.09	192.98	5520.74	-7.76	-8.60	12.09	0.02	423435.18	665111.07	N 32 9 48.49	W 103 56 0.02
	5616.00	0.07	260.38	5615.74	-7.84	-8.68	12.02	0.10	423435.10	665111.00	N 32 9 48.49	W 103 56 0.02
	5710.00	0.09	223.86	5709.74	-7.91	-8.74	11.91	0.06	423435.04	665110.89	N 32 9 48.49	W 103 56 0.02
	5804.00	0.09	333.18	5803.74	-7.91	-8.73	11.83	0.16	423435.05	665110.81	N 32 9 48.49	W 103 56 0.02
	5899.00	0.14	23.86	5898.74	-7.73	-8.56	11.84	0.11	423435.22	665110.82	N 32 9 48.49	W 103 56 0.02
	5993.00	0.09	47.29	5992.74	-7.57	-8.40	11.94	0.07	423435.38	665110.92	N 32 9 48.49	W 103 56 0.02
	6088.00	0.09	222.72	6087.74	-7.57	-8.41	11.95	0.19	423435.37	665110.93	N 32 9 48.49	W 103 56 0.02
	6182.00	0.11	75.55	6181.74	-7.60	-8.44	11.98	0.20	423435.34	665110.96	N 32 9 48.49	W 103 56 0.02
	6276.00	0.06	336.60	6275.74	-7.53	-8.37	12.05	0.14	423435.41	665111.03	N 32 9 48.49	W 103 56 0.02
	6371.00	0.11	167.34	6370.74	-7.57	-8.41	12.05	0.18	423435.37	665111.03	N 32 9 48.49	W 103 56 0.02
	6465.00	0.09	191.44	6464.74	-7.73	-8.57	12.06	0.05	423435.21	665111.04	N 32 9 48.49	W 103 56 0.02
	6560.00	0.33	190.56	6559.74	-8.08	-8.92	11.99	0.25	423434.86	665110.97	N 32 9 48.49	W 103 56 0.02
	6655.00	0.49	204.79	6654.74	-8.73	-9.55	11.77	0.20	423434.23	665110.75	N 32 9 48.48	W 103 56 0.02
	6750.00	1.55	51.55	6749.73	-8.19	-9.07	12.67	2.21	423434.71	665111.65	N 32 9 48.48	W 103 56 0.01
	6844.00	5.15	51.62	6843.55	-4.44	-5.61	17.04	3.72	423438.17	665116.02	N 32 9 48.52	W 103 55 59.96
	6939.00	8.66	49.74	6937.84	3.42	1.66	25.84	3.70	423445.44	665124.82	N 32 9 48.59	W 103 55 59.86
	7034.00	11.04	45.47	7031.44	15.20	12.66	37.79	2.62	423456.44	665136.77	N 32 9 48.70	W 103 55 59.72
	7129.00	12.36	40.35	7124.46	30.19	26.79	50.86	1.77	423470.57	665148.83	N 32 9 48.84	W 103 55 59.57
	7223.00	13.21	43.18	7216.13	46.60	42.29	64.72	1.12	423486.07	665163.70	N 32 9 48.99	W 103 55 59.40
	7318.00	13.30	44.48	7308.60	63.30	58.00	79.80	0.33	423501.78	665178.78	N 32 9 49.15	W 103 55 59.23
	7413.00	12.22	45.00	7401.25	79.17	72.91	94.57	1.14	423518.68	665193.54	N 32 9 49.29	W 103 55 59.06
	7508.00	13.13	46.95	7493.94	94.64	87.39	109.57	1.06	423531.16	665208.54	N 32 9 49.44	W 103 55 58.88
	7603.00	13.12	48.20	7586.46	110.24	101.94	125.49	0.30	423545.71	665224.46	N 32 9 49.58	W 103 55 58.69
	7697.00	12.52	45.24	7678.12	125.52	116.22	140.68	0.95	423560.00	665239.65	N 32 9 49.72	W 103 55 58.52
	7784.00	14.10	43.14	7762.78	140.81	130.60	154.62	1.90	423574.37	665253.59	N 32 9 49.86	W 103 55 58.35

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 ° ' ")
	7878.00	13.77	36.55	7854.02	159.10	147.94	169.11	1.72	423591.71	665268.08	N 32 9 50.03	W 103 55 58.19
	7973.00	15.37	33.23	7945.96	179.60	167.56	182.75	1.90	423611.32	665281.71	N 32 9 50.23	W 103 55 58.03
	8067.00	17.21	37.16	8036.18	202.09	189.06	197.97	2.28	423632.83	665296.94	N 32 9 50.44	W 103 55 57.85
	8161.00	18.62	43.83	8125.63	225.23	210.97	216.77	2.65	423654.74	665315.73	N 32 9 50.65	W 103 55 57.63
	8256.00	20.36	51.54	8215.20	248.00	232.20	240.22	3.27	423675.96	665338.18	N 32 9 50.86	W 103 55 57.35
	8350.00	19.69	60.05	8303.54	267.84	250.28	266.75	3.18	423694.04	665365.71	N 32 9 51.04	W 103 55 57.04
	8445.00	18.70	62.69	8393.26	284.65	265.26	294.15	1.39	423709.02	665393.11	N 32 9 51.19	W 103 55 56.73
	8539.00	17.66	64.84	8482.56	299.38	278.23	320.45	1.32	423721.99	665419.40	N 32 9 51.32	W 103 55 56.42
	8633.00	15.52	58.45	8572.65	313.61	290.88	344.07	2.99	423734.64	665443.03	N 32 9 51.44	W 103 55 56.14
	8728.00	17.46	54.67	8663.74	329.99	305.77	366.53	2.33	423749.53	665465.49	N 32 9 51.59	W 103 55 55.88
	8822.00	17.46	55.72	8753.41	347.63	321.87	389.69	0.34	423765.62	665488.64	N 32 9 51.75	W 103 55 55.61
	8917.00	18.77	52.03	8843.71	366.64	339.30	413.52	1.83	423783.05	665512.47	N 32 9 51.92	W 103 55 55.33
	9011.00	17.48	44.87	8933.05	387.40	358.61	435.40	2.74	423802.37	665534.35	N 32 9 52.11	W 103 55 55.08
	9106.00	17.71	41.63	9023.61	409.60	379.53	455.07	1.06	423823.28	665554.02	N 32 9 52.31	W 103 55 54.85
	9200.00	19.07	42.39	9112.81	432.93	401.56	474.92	1.47	423845.30	665573.87	N 32 9 52.53	W 103 55 54.62
	9295.00	19.66	46.19	9202.43	456.90	424.08	496.92	1.46	423867.83	665595.86	N 32 9 52.75	W 103 55 54.36
	9389.00	18.18	47.35	9291.35	479.24	444.96	519.12	1.62	423888.71	665618.06	N 32 9 52.96	W 103 55 54.10
	9484.00	21.19	46.42	9380.79	502.66	466.85	542.46	3.19	423910.59	665641.40	N 32 9 53.17	W 103 55 53.83
	9578.00	19.52	44.72	9468.92	527.07	489.72	565.62	1.88	423933.46	665664.75	N 32 9 53.40	W 103 55 53.56
	9673.00	16.96	43.11	9559.14	549.82	511.12	586.46	2.75	423954.86	665685.39	N 32 9 53.61	W 103 55 53.31
	9767.00	17.26	44.42	9648.98	571.04	531.08	605.59	0.52	423974.82	665704.52	N 32 9 53.81	W 103 55 53.09
	9862.00	16.14	47.14	9739.97	591.38	550.13	625.13	1.44	423993.87	665724.07	N 32 9 54.00	W 103 55 52.86
	9956.00	16.05	49.32	9830.29	610.02	567.49	644.56	0.65	424011.23	665743.50	N 32 9 54.17	W 103 55 52.64
	10044.00	15.73	53.53	9914.93	626.28	582.51	663.38	1.36	424026.25	665762.31	N 32 9 54.31	W 103 55 52.42
KOP Actual	10084.00	16.32	55.07	9953.37	633.32	588.95	672.35	1.82	424032.69	665771.28	N 32 9 54.38	W 103 55 52.31
	10179.00	23.40	42.41	10042.71	656.49	610.56	696.06	8.68	424054.29	665794.99	N 32 9 54.59	W 103 55 52.04
	10274.00	28.91	30.99	10128.00	691.74	644.22	720.64	7.83	424087.95	665819.56	N 32 9 54.92	W 103 55 51.75
	10369.00	37.73	24.70	10207.33	739.47	690.42	744.86	9.96	424134.15	665843.59	N 32 9 55.38	W 103 55 51.47
	10464.00	45.24	17.41	10278.49	799.56	749.13	766.95	9.39	424192.85	665865.87	N 32 9 55.96	W 103 55 51.20
	10559.00	54.33	12.25	10339.79	870.71	819.20	785.27	10.42	424262.91	665884.19	N 32 9 56.65	W 103 55 50.99
Wolfcamp Intersection	*10597.07*	*57.92*	*12.05*	*10361.00*	*901.99*	*850.09*	*791.92*	*9.45*	*424293.81*	*665890.84*	*N 32 9 56.96*	*W 103 55 50.91*
	10654.00	63.30	11.78	10388.93	951.09	898.61	802.16	9.45	424342.32	665901.08	N 32 9 57.44	W 103 55 50.79
	10749.00	66.34	9.95	10429.34	1036.41	983.03	818.34	3.64	424426.74	665917.26	N 32 9 58.27	W 103 55 50.60
	10844.00	73.60	2.49	10461.90	1125.46	1071.64	827.86	10.62	424515.33	665926.78	N 32 9 59.15	W 103 55 50.48
LL Crossing	*10899.00*	*78.74*	*0.69*	*10475.04*	*1178.80*	*1125.00*	*829.34*	*9.87*	*424568.70*	*665928.26*	*N 32 9 59.68*	*W 103 55 50.46*
	10939.00	82.49	359.43	10481.57	1218.17	1164.46	829.38	9.87	424608.15	665928.30	N 32 10 0.07	W 103 55 50.46
	11034.00	88.08	359.18	10489.37	1312.51	1259.09	828.23	5.89	424702.78	665927.15	N 32 10 1.00	W 103 55 50.47
	11074.00	88.53	359.08	10490.55	1352.35	1299.07	827.62	1.15	424742.75	665926.54	N 32 10 1.40	W 103 55 50.47
	11176.00	88.44	357.56	10493.25	1453.83	1400.99	824.63	1.49	424844.66	665923.55	N 32 10 2.41	W 103 55 50.51
Top Perf Crossing	*11240.00*	*88.53*	*357.78*	*10494.94*	*1517.43*	*1464.91*	*822.03*	*0.37*	*424908.58*	*665920.95*	*N 32 10 3.04*	*W 103 55 50.53*
	11271.00	88.58	357.88	10495.72	1548.25	1495.88	820.86	0.37	424939.55	665919.77	N 32 10 3.35	W 103 55 50.54
	11366.00	89.58	359.74	10497.25	1642.85	1590.84	818.88	2.22	425034.50	665917.80	N 32 10 4.29	W 103 55 50.56
	11556.00	88.78	359.71	10499.97	1832.33	1780.82	817.97	0.42	425224.46	665916.89	N 32 10 6.17	W 103 55 50.57
	11651.00	89.06	358.47	10501.76	1926.98	1875.79	816.46	1.34	425319.43	665915.38	N 32 10 7.11	W 103 55 50.58
	11841.00	89.51	357.69	10504.13	2115.98	2065.66	810.10	0.47	425509.29	665909.02	N 32 10 8.98	W 103 55 50.65
	11937.00	89.78	358.18	10504.72	2211.46	2161.50	806.64	0.58	425605.22	665905.56	N 32 10 9.93	W 103 55 50.68
	12031.00	90.16	358.58	10504.77	2305.02	2255.56	803.98	0.59	425699.17	665902.90	N 32 10 10.86	W 103 55 50.71
	12126.00	89.99	358.66	10504.65	2399.62	2350.53	801.69	0.20	425794.14	665900.61	N 32 10 11.80	W 103 55 50.73
	12317.00	89.99	359.25	10504.68	2589.91	2541.50	798.21	0.31	425985.09	665897.13	N 32 10 13.69	W 103 55 50.76
	12412.00	90.71	0.36	10504.10	2684.66	2636.50	797.89	1.39	426080.08	665896.81	N 32 10 14.63	W 103 55 50.76
	12507.00	89.85	359.83	10503.64	2779.45	2731.49	798.04	1.06	426175.07	665896.96	N 32 10 15.57	W 103 55 50.76
	12601.00	89.78	1.55	10503.94	2873.30	2825.48	799.18	1.83	426269.05	665898.10	N 32 10 16.50	W 103 55 50.74
	12697.00	89.85	0.21	10504.25	2969.16	2921.47	800.65	1.40	426365.03	665899.57	N 32 10 17.45	W 103 55 50.72
	12792.00	89.99	1.24	10504.38	3064.01	3016.46	801.85	1.09	426460.01	665900.77	N 32 10 18.39	W 103 55 50.70
	12887.00	89.95	0.75	10504.43	3158.89	3111.45	803.50	0.52	426554.99	665902.42	N 32 10 19.33	W 103 55 50.68
	12981.00	89.30	0.66	10505.05	3252.74	3205.44	804.86	0.70	426648.97	665903.58	N 32 10 20.26	W 103 55 50.66
	13078.00	89.85	358.51	10505.75	3347.46	3300.43	803.97	2.34	426743.96	665902.89	N 32 10 21.20	W 103 55 50.66
	13172.00	89.85	0.09	10506.00	3443.15	3396.41	802.80	1.65	426839.94	665901.72	N 32 10 22.15	W 103 55 50.67
	13266.00	89.40	358.86	10506.62	3536.87	3490.41	801.94	1.39	426933.92	665900.86	N 32 10 23.08	W 103 55 50.68
	13362.00	90.16	0.45	10506.99	3632.60	3586.40	801.36	1.84	427029.91	665900.28	N 32 10 24.03	W 103 55 50.68
	13457.00	90.09	0.28	10506.78	3727.42	3681.40	801.96	0.19	427124.90	665900.88	N 32 10 24.97	W 103 55 50.67
	13552.00	89.88	359.99	10506.81	3822.21	3776.40	802.19	0.38	427219.89	665901.11	N 32 10 25.91	W 103 55 50.66
	13741.00	91.12	358.99	10505.16	4010.64	3965.38	800.50	0.84	427408.86	665899.42	N 32 10 27.78	W 103 55 50.67
	13836.00	90.30	359.94	10503.98	4105.35	4060.36	799.62	1.32	427503.84	665898.54	N 32 10 28.72	W 103 55 50.68
	13931.00	89.92	359.76	10503.80	4200.11	4155.36	799.37	0.44	427598.83	665898.29	N 32 10 29.66	W 103 55 50.68
	14026.00	90.06	359.76	10503.81	4294.86	4250.36	798.97	0.15	427693.82	665897.89	N 32 10 30.60	W 103 55 50.68
	14121.00	90.13	0.24	10503.66	4389.64	4345.36	798.97	0.51	427788.81	665897.89	N 32 10 31.54	W 103 55 50.68
	14216.00	90.61	0.76	10503.04	4484.47	4440.36	799.80	0.74	427883.80	665898.72	N 32 10 32.48	W 103 55 50.66
	14311.00	91.19	2.28	10501.55	4579.37	4535.31	802.32	1.71	427978.75	665901.24	N 32 10 33.42	W 103 55 50.63
	14406.00	89.64	1.03	10500.86	4674.29	4630.26	805.06	2.10	428073.69	665903.98	N 32 10 34.36	W 103 55 50.59
	14500.00	89.71	1.03	10501.39	4768.17	4724.24	806.75	0.07	428167.67	665905.67	N 32 10 35.29	W 103 55 50.57
	14595.00	90.43	2.01	10501.28	4863.09	4819.21	809.27	1.28	428262.62	665908.19	N 32 10 36.23	W 103 55 50.53
	14690.00	89.75	1.11	10501.13	4958.01	4914.17	811.86	1.19	428357.58	665910.78	N 32 10 37.17	W 103 55 50.50
	14880.00	89.40	0.26	10501.83	5052.86	5009.16	812.99	0.97	428452.56	665911.91	N 32 10 38.11	W 103 55 50.48
	14975.00	89.06	0.16	10503.11	5147.65	5104.15	813.34	0.37	428547.55	665912.26	N 32 10 39.05	W 103 55 50.48
	15070.00	89.13	0.17	10504.61	5242.44	5199.14	813.62	0.07	428642.53	665912.54	N 32 10 39.99	W 103 55 50.47
	15165.00	89.13	0.43	10506.05	5337.24	5294.13	814.11	0.27	428737.51	665913.03	N 32 10 40.93	W 103 55 50.46
	15260.00	88.99	0.69	10507.64	5432.08	5389.11	815.04	0.33	428832.48	665913.96	N 32 10 41.87	W 103 55 50.44
	15355.00	88.99	0.78	10509.34	5526.90	5484.09	816.26	0.10	428927.45	665915.18	N 32 10 42.81	W 103 55 50.42
	15450.00	89.16	358.57	10511.01	5621.63	5579.06	815.72	2.33	429022.42	665914.64	N 32 10 43.75	W 103 55 50.43
	15545.00	89.20	358.72	10512.54	5716.21	5674.02	813.48	0.24	429117.38	665912.39	N 32 10 44.69	W 103 55 50.45
	15640.00	89.33	358.63	10513.90	5810.81	5768.99	811.28	0.10	429212.33	665910.20	N 32 10 45.63	W 103 55 50.47
	15735.00	89.40	358.68	10515.12	5905.40	5863.96	809.05	0.15	429307.29	665907.97	N 32 10 46.57	W 103 55 50.49
	15830.00	89.27	357.74	10517.28	5999.94	5958.91	806.20	0.85	429402.24	665905.12	N 32 10 47.51	W 103 55 50.52
	15925.00	89.99	358.11	10517.89	6094.40	6053.83	802.57	0.20	429497.15	665901.49	N 32 10 48.45	W 103 55 50.56
	16021.00	90.16	358.88	10517.77	6188.88	6148.77	799.13	0.85	429592.08	665898.05	N 32 10 49.39	W 103 55 50.60
	16116.00	89.92	358.02	10517.70	6284.45	6244.73	796.61	0.82	429688.04	665895.53	N 32 10 50.34	W 103 55 50.62
	16306.00	88.72	357.81	10519.95	6379.02	6339.70	794.04	0.94	429783.00	665892.96	N 32 10 51.28	W 103 55 50.65
	16496.00	89.13	358.46	10523.52	6567.97	6529.55	787.13	0.64	429972.84	665886.05	N 32 10 53.16	W 103 55 50.72
	16591.00	89.95	358.83	10524.28	6756.97	6719.42	780.94	0.40	430162.69	665879.86	N 32 10 55.04	W 103 55 50.78
	16685.00	90.02	358.45	10524.31	6851.57	6814.39	778.70	0.95	430257.65	665877.62	N 32 10 55.98	W 103 55 50.80
	16780.00	90.06	358.51	10524.24	6945.17	6908.36	776.47	0.41	430351.62	665875.39	N 32 10 56.91	W 103 55 50.83
	16875.00	89.71	358.49	10524.43	7039.75	7003.33	773.95	0.08	430446.58	665872.87	N 32 10 57.85	W 103 55 50.85
	16970.00	89.68	0.60	10524.94	7134.33	7098.29	771.46	0.37	430541.54	665870.38	N 32 10 58.79	W 103 55 50.88
	17065.00	89.37	0.53	10525.72	7229.05	7193.28	770.70	2.22	430636.52	665869.63	N 32 10 59.72	W 103 55 50.88
	17160.00	89.13	0.97	10526.97	7323.88	7288.28	771.64	0.33	430731.51	665870.56	N 32 11 0.66	W 103 55 50.87
	17255.00	89.06	0.62	10528.47	7418.73	7383.26	772.89	0.53	430826.48	665871.81	N 32 11 1.60	W 103 55 50.85
	17350.00	89.06	1.00	10530.03	7513.58	7478.24	774.20	0.38	430921.45	665873.12	N 32 11 2.54	W 103 55 50.83
	17445.00	89.37	1.36	10531.33	7608.43	7573.22	775.55	0.40	431016.43	665874.47	N 32 11 3.48	W 103 55 50.81
	17540.00	90.13	2.22	10531.74	7703.31	7668.19	777.52	0.52	431111.39	665876.44	N 32 11 4.42	W 103 55 50.78
	17635.00	89.58	1.84	10531.98	7798.25	7763.14	780.50	1.19	431206.33	665879.42	N 32 11 5.36	W 103 55 50.74
	17730.00	90.33	1.90	10532.06	7893.19	7858.08	783.87	0.70	431301.26	665882.79	N 32 11 6.30	W 103 55 50.70
	17825.00	90.26	1.14	10531.57	7988.13	7953.03	786.97	0.79	431396.21	665885.89	N 32 11 7.24	W 103 55 50.66
	17920.00	90.98	1.80	10530.54	8083.05	8047.99	789.49	0.80	431491.16	665888.41	N 32 11 8.18	W 103 55 50.62
	18015.00	90.88	1.41	10529.00	8177.95	8142.96	791.76	0.90	431586.12	665890.68	N 32 11 9.12	W 103 55 50.59
	18111.00	90.40	1.61	10527.93	8272.86	8237.91	794.25	0.23	431681.07	665893.17	N 32 11 10.06	W 103 55 50.56
					8368.77	8333.87	796.78	0.54	431777.02	665895.70	N 32 11 11.01	W 103 55 50.53

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 ° ' ")
	18206.00	86.20	0.27	10530.74	8463.57	8428.79	798.34	4.64	431871.94	665897.26	N 32 11 11.95	W 103 55 50.50
	18301.00	87.99	359.41	10535.56	8558.21	8523.67	798.08	2.09	431966.80	665897.00	N 32 11 12.89	W 103 55 50.50
	18396.00	89.82	0.25	10537.37	8652.95	8618.64	797.79	2.12	432061.77	665896.71	N 32 11 13.83	W 103 55 50.50
	18491.00	89.47	359.84	10537.96	8747.73	8713.64	797.87	0.57	432156.76	665896.79	N 32 11 14.77	W 103 55 50.50
	18586.00	89.16	358.69	10539.10	8842.41	8808.62	798.65	1.25	432251.74	665895.57	N 32 11 15.71	W 103 55 50.51
	18681.00	90.23	359.26	10539.60	8937.06	8903.61	794.95	1.28	432346.72	665893.87	N 32 11 16.65	W 103 55 50.52
	18776.00	90.02	359.52	10539.40	9031.76	8998.60	793.94	0.35	432441.70	665892.86	N 32 11 17.59	W 103 55 50.53
	18871.00	89.88	358.94	10539.48	9126.45	9093.59	792.66	0.63	432536.69	665891.58	N 32 11 18.53	W 103 55 50.54
	18966.00	89.95	359.34	10539.62	9221.12	9188.58	791.24	0.43	432631.67	665890.16	N 32 11 19.47	W 103 55 50.55
	19060.00	89.85	359.13	10539.79	9314.81	9282.57	789.98	0.25	432725.65	665888.90	N 32 11 20.40	W 103 55 50.57
	19155.00	89.92	359.17	10539.98	9409.48	9377.56	788.57	0.08	432820.63	665887.49	N 32 11 21.34	W 103 55 50.58
	19250.00	89.61	359.20	10540.37	9504.16	9472.55	787.22	0.33	432915.62	665886.14	N 32 11 22.28	W 103 55 50.59
	19345.00	90.02	359.51	10540.67	9598.86	9567.54	786.15	0.54	433010.60	665885.07	N 32 11 23.22	W 103 55 50.60
	19440.00	90.54	359.07	10540.21	9693.55	9662.54	784.98	0.72	433105.59	665883.90	N 32 11 24.16	W 103 55 50.61
	19535.00	90.37	359.27	10539.45	9788.22	9757.52	783.60	0.28	433200.57	665882.52	N 32 11 25.10	W 103 55 50.62
	19630.00	90.71	359.31	10538.56	9882.91	9852.51	782.42	0.36	433295.55	665881.34	N 32 11 26.04	W 103 55 50.63
	19725.00	90.47	359.10	10537.58	9977.59	9947.50	781.10	0.34	433390.53	665880.03	N 32 11 26.98	W 103 55 50.64
	19820.00	90.50	359.65	10536.78	10072.29	10042.49	780.07	0.58	433485.51	665878.99	N 32 11 27.92	W 103 55 50.65
	19915.00	90.95	359.58	10535.57	10167.01	10137.48	779.43	0.48	433580.49	665878.35	N 32 11 28.86	W 103 55 50.65
	20010.00	90.16	359.20	10534.65	10261.71	10232.47	778.42	0.92	433675.47	665877.34	N 32 11 29.80	W 103 55 50.66
	20105.00	89.95	358.93	10534.56	10356.38	10327.45	776.87	0.36	433770.45	665875.79	N 32 11 30.74	W 103 55 50.67
	20200.00	89.95	359.06	10534.65	10451.03	10422.44	775.20	0.14	433865.43	665874.12	N 32 11 31.68	W 103 55 50.69
	20390.00	90.02	359.81	10534.70	10640.45	10612.43	773.33	0.40	434055.41	665872.25	N 32 11 33.56	W 103 55 50.70
	20485.00	90.13	359.34	10534.57	10735.18	10707.42	772.62	0.51	434150.40	665871.55	N 32 11 34.50	W 103 55 50.70
	20580.00	89.95	358.86	10534.50	10829.85	10802.41	771.21	0.44	434245.38	665870.14	N 32 11 35.44	W 103 55 50.72
	20675.00	90.43	359.23	10534.19	10924.52	10897.40	769.71	0.58	434340.36	665868.64	N 32 11 36.38	W 103 55 50.73
	20770.00	89.95	358.77	10533.87	11019.17	10992.39	768.06	0.70	434435.34	665866.98	N 32 11 37.32	W 103 55 50.75
	20865.00	89.85	2.64	10534.04	11114.00	11087.36	769.22	4.08	434530.30	665868.15	N 32 11 38.26	W 103 55 50.73
	20960.00	89.95	359.69	10534.21	11208.89	11182.33	771.16	3.11	434625.27	665870.08	N 32 11 39.20	W 103 55 50.70
	21055.00	89.95	358.63	10534.29	11303.56	11277.32	769.76	1.12	434720.25	665868.69	N 32 11 40.14	W 103 55 50.71
Bottom Perf Crossing	*21132.00*	*90.14*	*359.06*	*10534.23*	*11380.26*	*11354.30*	*768.21*	*0.61*	*434797.23*	*665867.13*	*N 32 11 40.90*	*W 103 55 50.73*
	21150.00	90.19	359.16	10534.17	11398.20	11372.30	767.93	0.61	434815.22	665866.85	N 32 11 41.08	W 103 55 50.73
Final MWD	21183.00	90.85	359.67	10533.87	11431.09	11405.30	767.59	2.53	434848.22	665866.52	N 32 11 41.40	W 103 55 50.73
Proj to TD	21233.00	90.85	359.67	10533.13	11480.95	11455.29	767.31	0.00	434898.21	665866.23	N 32 11 41.90	W 103 55 50.73

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 (in)	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 Corral Canyon 36-25 Fed Com 36H Gyro + MWD 0-21233'MD
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Corral Canyon 36-25 Fed Com 36H Gyro + MWD 0-21233'MD
	1	26.500	596.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Corral Canyon 36-25 Fed Com 36H Gyro
	1	596.500	697.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Corral Canyon 36-25 Fed Com 36H Gyro
	1	697.000	21233.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Corral Canyon 36-25 Fed Com 36H Gyro

Schlumberger

OXY

Borehole:	Well:	Field:	Structure:
Original Borehole	Corral Canyon 36-25 Fed Com 36H	NM Eddy County (NAD 83)	Oxy Corral Canyon 36-25 Fed Com 36H

Gravity & Magnetic Parameters				Surface Location	NAD83 New Mexico State Plane, Eastern Zone, US Feet				Miscellaneous		
Model: IFR1	Dip: 59.891°	Date: 10-Oct-2018		Lat: N 32 9 48.57	Northing: 423443.78RUS	Grid Conv: 0.2129°			Slot: Oxy Corral Canyon 36-25 Fed Com 36H	TVD Ref: RKB(3159.7ft above MSL)	
MagDec: 6.892°	FS: 47956.6nT	Gravity FS: 998.449mgn (9.80665 Based)		Lon: W 103 58 0.16	Easting: 665096.58RUS	Scale Fact: 0.99992593			Plan: Oxy Corral Canyon 36-25 Fed Com 36H Gyro + MWD 0-21233'MD		

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
RKB	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	596.50	0.69	190.83	596.48	-1.87	-2.03	2.26	0.35
KOP Actual	10084.00	16.32	55.07	9953.37	633.32	588.95	672.35	1.82
Wolfcamp Intersection	10597.07	57.92	12.05	10361.00	901.99	850.09	791.92	9.45
LL Crossing	10899.00	78.74	0.69	10475.04	1178.80	1125.00	829.34	9.87
Top Perf Crossing	11240.00	88.53	357.78	10494.94	1517.43	1464.91	822.03	0.37
Bottom Perf Crossing	21132.00	90.14	359.06	10534.23	11380.26	11354.30	768.21	0.61
Final MWD	21183.00	90.85	359.67	10533.67	11431.09	11405.30	767.59	2.53
Proj to TD	21233.00	90.85	359.67	10533.13	11480.95	11455.29	767.31	0.00