

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

30-015-44705

NM OIL CONSERVATION
ARTESIA DISTRICT

June 18, 2018

Oxy USA Inc.

JUL 27 2018

RECEIVED

Re:

2, 25S, 29E, Eddy NM
N 32.16567 W -103.95082

CLIENT: Oxy USA Inc.
WELL: Corral Fly 35-26 Federal Com 24H
FIELD: Pierce Crossing Bone Spring

RIG: H&P 635
COUNTY: Eddy
API NO: 30-015-44705
JOB NO: 18MLD2972

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>
Ali Mehio FS	Corral Fly 35-26 Federal Com 24H Original Hole	577.00 Ft to 19626.00 Ft	May 14, 2018 to May 28, 2018	TelePacer SlimPulse

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

Blake Jones
Field Service Manager

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

Well Reference:
2, 25S, 29E, Eddy NM
N 32.16567 W -103.95082

I, Ali Mehio certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of May 14, 2018 through May 28, 2018, conduct or supervise the taking of the TelePacrr & SlimPulse surveys from a depth of 577.00 feet to a depth of 19626.00 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 Fly 35-26 Federal Com 24H Well (Original Hole) API No. 30-015-44705 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
Ali Mehio
FS

Ali Mehio

Subscribed and Sworn to before me this 18th day of June (month) 2018 (yr)

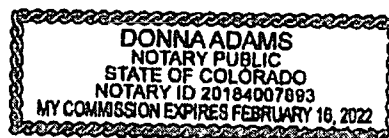
My Commission expires:

2-16-2022

D. Adams
Notary Public

(signature)

Adams County Colorado
(County State)



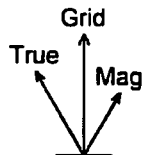
Schlumberger

OXY

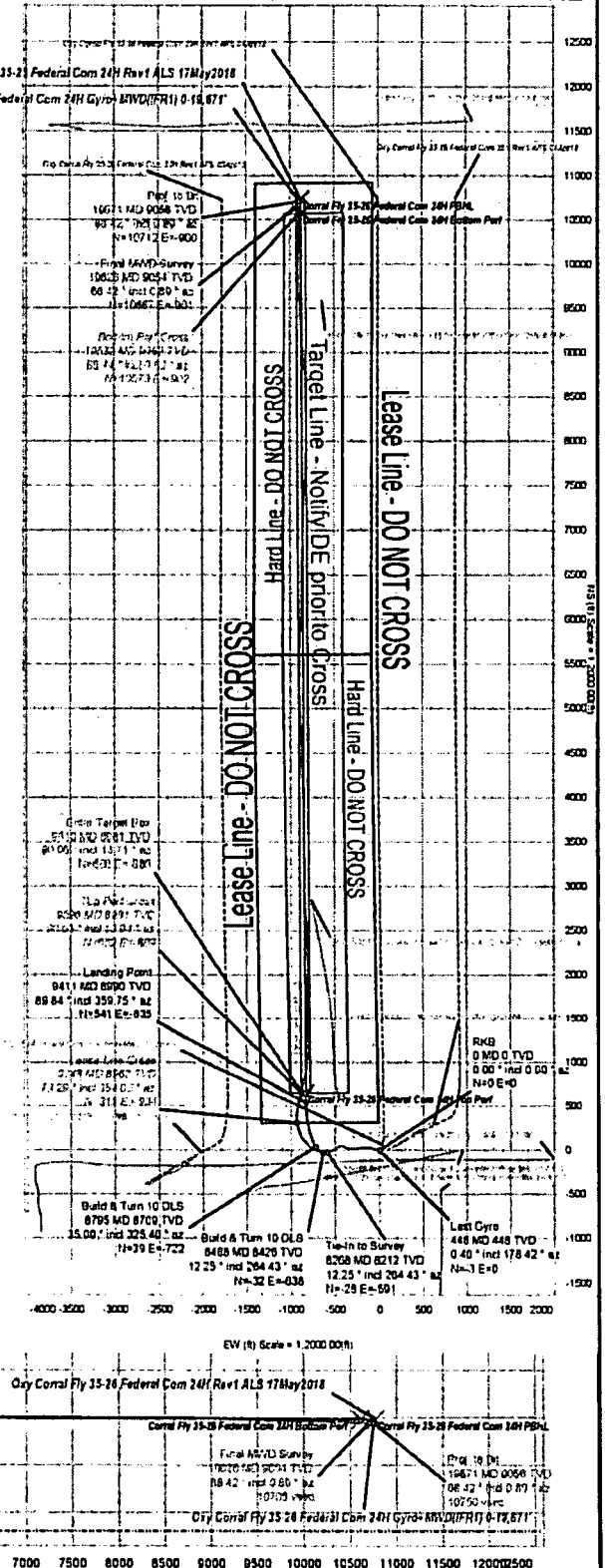
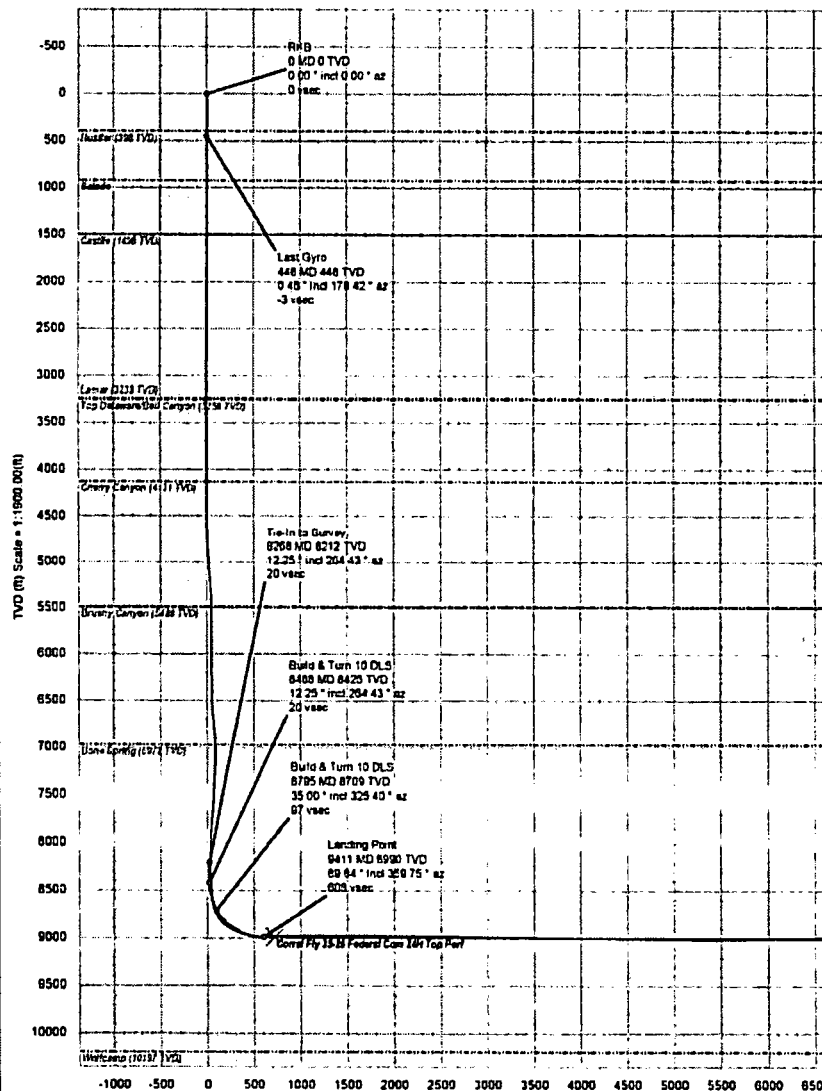
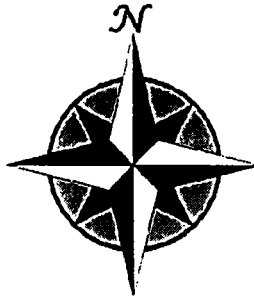


Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Coral Fly 35-26 Federal Com 24H	NM Eddy County (NAD 83)	Oxy Coral Fly 35-26 Federal Com 24H

Gravity & Magnetic Parameters	Surface Location	Miscellaneous
Model: HGM 2018 Mag Dec: 6.991° PS: 47995 mGal Gravity FS: 998.43 mGal (1.00000 Sec)	NAD83 New Mexico State Plane, Eastern Zone, US Feet Lat: N 32 9 58.82 Long: W 103 57 0.87 Easting: 610637.03025 Scale Part: 0.99992514	Alt: Oxy Coral Fly 35-26 Federal Com 24H Plan: Oxy Coral Fly 35-26 Federal Com 24H Rev1 ALS 17May2018



Grid North
Tot Corr (M->G 6.787°)
Mag Dec (6.991°)
Grid Conv (0.204°)



Oxy Corral Fly 35-26 Federal Com 24H Gyro+MWD(IFR1) 0-19,671' Survey Geodetic Report (Def Survey)



Report Date: June 01, 2018 - 09:47 AM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Corral Fly 35-26 Federal Com 24H / Oxy Corral Fly 35-26 Federal Com 24H
Well: Oxy Corral Fly 35-26 Federal Com 24H
Borehole: Original Borehole
UWI / API# : Unknown / 30-015-44705
Survey Name: Oxy Corral Fly 35-26 Federal Com 24H Gyro+MWD(IFR1) 0-19,671'
Survey Date: May 29, 2018
Tort / AHD / DD1 / ERD Ratio: 302.276' / 11587.143 N / 6.681 / 1.280
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 9' 56.41783" W 103° 57' 2.96709"
Location Grid N/E V/E: N 424216.680 N/S. E 659697.450 N/S
CRS Grid Convergence Angle: 0.2038'
Grid Scale Factor: 0.99992514
Version / Patch: 2.10.720.0
Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 355.318° (Grid North)
Vertical Section Origin: 0.000 N, 0.000 N
TVD Reference Datum: RKB+28.5'
TVD Reference Elevation: 3098.600 ft above MSL
Seabed / Ground Elevation: 3072.100 ft above MSL
Magnetic Declination: 6.988°
Total Gravity Field Strength: 998.4533mgN (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47891.271 nT
Magnetic Dip Angle: 59.923°
Declination Date: May 29, 2018
Magnetic Declination Model: HDGM 2018
North Reference: Grid North
Grid Convergence Used: 0.2038°
Total Corr Mag North->Grid North: 6.7840°
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VBEC (ft)	NS (ft)	EW (ft)	DLS (ft/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	424218.68	659697.45	N 32° 9' 56.42" W 103° 57' 2.97"	
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	424218.68	659697.45	N 32° 9' 56.42" W 103° 57' 2.97"	
	94.60	0.33	158.52	94.60	-0.19	-0.18	0.07	0.48	424216.50	659697.52	N 32° 9' 56.42" W 103° 57' 2.97"	
	156.60	0.48	170.98	156.60	-0.62	-0.61	0.18	0.28	424216.07	659697.83	N 32° 9' 56.41" W 103° 57' 2.97"	
	215.80	0.55	198.36	215.80	-1.13	-1.12	0.13	0.43	424215.50	659697.58	N 32° 9' 56.41" W 103° 57' 2.97"	
	277.00	0.44	173.89	276.99	-1.63	-1.63	0.06	0.39	424215.05	659697.51	N 32° 9' 56.40" W 103° 57' 2.97"	
	338.70	0.54	197.08	338.69	-2.14	-2.15	0.00	0.36	424214.53	659697.45	N 32° 9' 56.40" W 103° 57' 2.97"	
	401.80	0.38	190.04	401.89	-2.61	-2.63	-0.15	0.25	424214.05	659697.30	N 32° 9' 56.39" W 103° 57' 2.97"	
	447.70	0.46	178.42	447.69	-2.94	-2.96	-0.18	0.33	424213.72	659697.27	N 32° 9' 56.39" W 103° 57' 2.97"	
	577.00	0.13	207.55	576.99	-3.58	-3.61	-0.24	0.27	424213.07	659697.21	N 32° 9' 56.38" W 103° 57' 2.97"	
	697.00	0.09	333.08	696.99	-3.62	-3.65	-0.34	0.18	424213.02	659697.11	N 32° 9' 56.38" W 103° 57' 2.97"	
	792.00	0.11	142.04	791.98	-3.63	-3.67	-0.31	0.20	424213.01	659697.14	N 32° 9' 56.38" W 103° 57' 2.97"	
	887.00	0.13	208.62	886.99	-3.80	-3.84	-0.31	0.14	424212.84	659697.14	N 32° 9' 56.38" W 103° 57' 2.97"	
	1057.00	0.11	104.33	1056.99	-4.11	-4.16	-0.44	0.02	424212.52	659697.01	N 32° 9' 56.38" W 103° 57' 2.97"	
	1152.00	0.06	124.01	1151.99	-4.23	-4.28	-0.42	0.11	424212.40	659697.03	N 32° 9' 56.38" W 103° 57' 2.97"	
	1246.00	0.05	120.62	1245.99	-4.29	-4.33	-0.34	0.00	424212.35	659697.11	N 32° 9' 56.37" W 103° 57' 2.97"	
	1435.00	0.06	31.38	1434.99	-4.27	-4.30	-0.20	0.04	424212.38	659697.25	N 32° 9' 56.38" W 103° 57' 2.97"	
	1530.00	0.17	196.33	1529.99	-4.38	-4.39	-0.21	0.24	424212.29	659697.24	N 32° 9' 56.37" W 103° 57' 2.97"	
	1615.00	0.20	305.87	1614.98	-4.38	-4.42	-0.37	0.38	424212.26	659697.08	N 32° 9' 56.37" W 103° 57' 2.97"	
	1709.00	0.28	310.69	1708.98	-4.11	-4.16	-0.68	0.09	424212.30	659696.77	N 32° 9' 56.38" W 103° 57' 2.98"	
	1804.00	0.08	219.12	1803.98	-3.99	-4.08	-0.90	0.31	424212.60	659696.55	N 32° 9' 56.38" W 103° 57' 2.98"	
	1993.00	0.06	15.94	1992.98	-3.99	-4.09	-0.95	0.07	424212.59	659696.50	N 32° 9' 56.38" W 103° 57' 2.98"	
	2087.00	0.08	169.48	2086.98	-4.01	-4.10	-0.93	0.15	424212.58	659696.52	N 32° 9' 56.38" W 103° 57' 2.98"	
	2182.00	0.13	278.86	2181.98	-4.05	-4.15	-1.02	0.18	424212.53	659696.43	N 32° 9' 56.38" W 103° 57' 2.98"	
	2278.00	0.00	93.40	2275.98	-4.03	-4.14	-1.13	0.14	424212.54	659696.32	N 32° 9' 56.38" W 103° 57' 2.98"	
	2370.00	0.11	72.79	2369.98	-4.01	-4.11	-1.04	0.12	424212.57	659696.41	N 32° 9' 56.38" W 103° 57' 2.98"	
	2465.00	0.06	140.64	2464.98	-4.03	-4.12	-0.92	0.11	424212.56	659696.53	N 32° 9' 56.38" W 103° 57' 2.98"	
	2560.00	0.44	124.57	2559.98	-4.30	-4.37	-0.59	0.40	424212.31	659696.86	N 32° 9' 56.37" W 103° 57' 2.97"	
	2654.00	1.08	114.68	2653.97	-4.97	-4.94	0.51	0.69	424211.74	659697.06	N 32° 9' 56.37" W 103° 57' 2.96"	
	2748.00	0.82	70.42	2747.96	-5.27	-5.14	1.80	0.82	424211.54	659696.25	N 32° 9' 56.37" W 103° 57' 2.95"	
	2842.00	0.53	145.71	2841.98	-5.52	-5.33	2.52	0.75	424211.35	659695.97	N 32° 9' 56.38" W 103° 57' 2.94"	
	2937.00	0.64	127.71	2936.98	-6.28	-6.02	3.19	0.22	424210.88	659700.84	N 32° 9' 56.38" W 103° 57' 2.93"	
	3031.00	1.22	108.89	3030.94	-6.98	-6.63	4.56	0.70	424210.05	659702.01	N 32° 9' 56.35" W 103° 57' 2.91"	
	3126.00	0.18	283.08	3125.94	-7.30	-6.89	5.38	1.47	424208.79	659702.83	N 32° 9' 56.35" W 103° 57' 2.90"	
	3220.00	0.17	333.48	3219.94	-7.13	-6.73	5.18	0.16	424208.66	659702.63	N 32° 9' 56.35" W 103° 57' 2.91"	
	3314.00	0.06	59.79	3313.94	-6.98	-6.58	5.16	0.19	424210.10	659702.61	N 32° 9' 56.35" W 103° 57' 2.91"	
	3409.00	0.06	288.20	3408.94	-6.93	-6.54	5.16	0.12	424210.15	659702.60	N 32° 9' 56.35" W 103° 57' 2.91"	
	3504.00	0.08	284.12	3503.94	-6.85	-6.47	4.93	0.01	424210.21	659702.38	N 32° 9' 56.35" W 103° 57' 2.91"	
	3788.00	0.08	127.90	3785.94	-6.90	-6.52	4.91	0.08	424210.18	659702.38	N 32° 9' 56.35" W 103° 57' 2.91"	
	3879.00	0.13	221.73	3878.94	-7.02	-6.64	4.89	0.17	424210.04	659702.34	N 32° 9' 56.35" W 103° 57' 2.91"	
	3974.00	0.05	105.53	3973.94	-7.11	-6.73	4.87	0.17	424209.95	659702.32	N 32° 9' 56.35" W 103° 57' 2.91"	
	4163.00	0.18	266.70	4162.94	-7.13	-6.78	4.67	0.13	424209.90	659702.12	N 32° 9' 56.35" W 103° 57' 2.91"	
	4257.00	0.08	225.25	4256.94	-7.10	-6.82	4.48	0.15	424209.86	659701.93	N 32° 9' 56.35" W 103° 57' 2.92	
	4445.00	0.18	284.97	4444.93	-7.13	-6.81	4.13	0.08	424209.87	659701.58	N 32° 9' 56.35" W 103° 57' 2.92	
	4540.00	0.20	348.42	4539.93	-6.91	-6.51	3.95	0.21	424210.07	659701.40	N 32° 9' 56.35" W 103° 57' 2.92	
	4728.00	5.83	290.34	4727.63	-2.68	-3.08	-4.77	2.94	424213.60	659692.68	N 32° 9' 56.38" W 103° 57' 3.02	
	4823.00	7.61	288.34	4821.97	1.81	0.57	-15.27	2.31	424217.25	659682.18	N 32° 9' 56.42" W 103° 57' 3.14	
	4917.00	10.33	288.14	4914.78	7.58	5.20	-29.34	3.68	424221.88	659688.11	N 32° 9' 56.47" W 103° 57' 3.31	
	5012.00	12.80	287.50	5007.85	14.88	11.02	-47.47	2.60	424227.70	659649.98	N 32° 9' 56.53" W 103° 57' 3.52	
	5108.00	12.84	284.49	5099.49	22.25	10.79	-67.59	0.73	424233.46	659628.86	N 32° 9' 56.59" W 103° 57' 3.75	
	5200.00	12.50	282.05	5191.18	28.63	21.54	-87.73	0.74	424238.22	659609.72	N 32° 9' 56.63" W 103° 57' 3.99	
	5295.00	12.49	279.11	5283.93	34.04	25.32	-107.93	0.67	424241.88	659589.53	N 32° 9' 56.67" W 103° 57' 4.22	
	5389.00	12.37	275.80	5375.73	38.25	27.89	-127.99	0.64	424244.57	659569.47	N 32° 9' 56.70" W 103° 57' 4.45	
	5483.00	11.22	272.54	5467.75	41.18	29.28	-147.15	1.38	424245.94	659550.31	N 32° 9' 56.71" W 103° 57' 4.68	
	5577.00	11.57	268.74	5559.69	42.89	29.40	-165.71	0.88	424246.14	659531.75	N 32° 9' 56.71" W 103° 57' 4.89	
	5672.00	11.56	264.87	5652.97	43.39	28.40	-184.72	0.82	424245.08	659512.75	N 32° 9' 56.71" W 103° 57' 5.11	
	5768.00	10.92	263.36	5745.16	43.01	28.53	-202.94	0.75	424243.20	659494.53	N 32° 9' 56.69" W 103° 57' 5.33	
	5860.00	10.95	264.31	5837.46	42.55	24.61	-220.67	0.19	424241.28	659476.80	N 32° 9' 56.67" W 103° 57' 5.53	
	5955.00	11.47	266.74	5930.64	42.62	23.18	-239.08	0.74	424239.86	659458.39	N 32° 9' 56.68" W 103° 57' 5.75	
	6049.00	10.95	267.48	6022.85	43.19	22.26	-257.33	0.57	424238.93	659440.14	N 32° 9' 56.65" W 103° 57' 5.96	
	6144.00	11.09	267.95	6116.10	43.95	21.53	-275.47	0.18	424238.21	659422.00	N 32° 9' 56.64" W 103° 57' 6.17	
	6332.00	11.50	269.32	6300.46	46.09	20.68	-312.28	0.26	424237.34	659385.19	N 32° 9' 56.63" W 103° 57' 6.60	
	6428.00	11.34	267.29	6392.60	47.07	20.11	-320.88	0.46	424238.79	659368.59	N 32° 9' 56.63" W 103° 57' 6.82	
	6521.00	10.81	268.76	6485.83	47.92	19.48	-349.12	0.63	424238.16	659348.38	N 32° 9' 56.62" W 103° 57' 7.03	
	6615.00	9.94	263.35	6578.31	50.97	21.18	-365.83	2.94	424237.84	659331.65	N 32° 9' 56.64" W 103° 57' 7.22	
	6709.00	9.38	304.73	6671.01	58.33	27.39	-380.01	3.84	424244.07	659317.47	N 32° 9' 56.70" W 103° 57' 7.39	
	6804.00	8.73	303.49	6764.82	67.69	35.77	-392.37	0.69	424252.45	659305.11	N 32° 9' 56.79" W 103° 57' 7.53	
	6891.00	9.30	298.38	6850.75	75.40	42.54	-404.10	1.44	424259.21	659293.31	N 32° 9' 56.85" W 103° 57' 7.67	
	6985.00	9.21	286.18	6943.53	82.60	48.01	-418.21	1.74	424264.68	659279.28	N 32° 9' 56.81" W 103° 57' 7.83	
	7079.00	8.33	265.35	7036.46	84.08	49.55	-432.22	3.48	424268.23	659263.26	N 32° 9' 56.82" W 103° 57' 7.99	
	7174.00	7.15	248.10	7130.80	82.83	46.78	-444.57	2.73	424265.86	659252.82	N 32° 9' 56.80" W 103° 57' 8.14	
	7262.00	5.88	227.91	7217.39	75.04	37.31	-463.58	0.01	424253.98	659235.80	N 32° 9' 56.80" W 103° 57' 8.38	
	7457.00	5.06	241.14	7411.88	70.78	32.34	-472.03	0.38	424249.02	659225.48	N 32° 9' 56.79" W 103° 57' 8.46	
	7557											

[illegible]

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLB ("/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ° °)	Longitude (E/W ° ° °)
	19494.00	88.43	0.82	9050.84	10573.96	10535.45	-902.49	0.81	434751.32	658795.03	N 32 11 40.70 W	103 57 13.03
	19589.00	88.42	0.85	9053.44	10668.48	10630.40	-901.11	0.04	434846.26	658796.41	N 32 11 41.64 W	103 57 13.01
Final MWD	19626.00	88.42	0.89	9054.46	10709.29	10667.38	-900.54	0.11	434883.24	658796.97	N 32 11 42.00 W	103 57 13.01
Survey Proj. to Bit	19671.00	88.42	0.89	9055.70	10750.06	10712.36	-899.85	0.00	434928.22	658797.87	N 32 11 42.45 W	103 57 13.00

Survey Type: Del Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7855 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	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Corral Fly 35-26 Federal Com 24H Gyro+MWD(IFR1) 0-19.671'
	1	26.500	26.500	Act Sns	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Corral Fly 35-26 Federal Com 24H Gyro+MWD(IFR1) 0-19.671'
	1	26.500	447.700	Act Sns	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Corral Fly 35-26 Federal Com 24H
	1	447.700	19671.000	Act Sns	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Corral Fly 35-26 Federal Com 24H

...Original Borehole/Oxy Corral Fly 35-26 Federal Com 24H Gyro+MWD(IFR1) 0-19.671'