

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)

RECEIVED

Schlumberger

OCT 11 2018

~~DISTRICT II-ARTESIA O.C.D.~~

30-015-44703

August 23, 2018

OXY USA Inc.

Re:

2, 25S, 29E, Eddy NM
32.16462 103.95960

CLIENT: OXY USA Inc.
WELL: Corral Fly 35-26 Federal Com 22H
FIELD: Pierce Crossing Bone Spring

RIG: H&P 636
COUNTY: Eddy
API NO: 30-015-44703
JOB NO: 18MLD2968

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>
Thomas Wetmore FS	Corral Fly 35-26 Federal Com 22H Original Hole	543.00 Ft to 19365.00 Ft	May 7, 2018 to June 5, 2018	TelePacer SlimPulse

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

Mike Stephens
Field Service Manager

Oilfield Services - Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
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7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
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OCT 11 2018

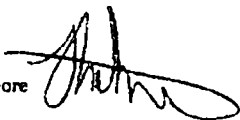
DISTRICT II-ARTESIA O.C.D.

Well Reference:

2, 25S, 29E, Eddy NM
32.16462 103.95960

I, Thomas Wetmore certify that: I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of May 07, 2018 through June 05, 2018, conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 543.00 feet to a depth of 19365.00 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 22H Well (Original Hole) API No. 30-015-44703 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
T. Wetmore
FS



Subscribed and Sworn to before me this 23rd day of August (month) 2018 (yr)

My Commission expires:

2-16-2022

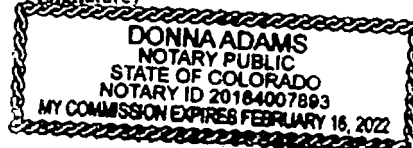
Notary Public

D. Adams

(County State)

Adams County Colorado

(signature)



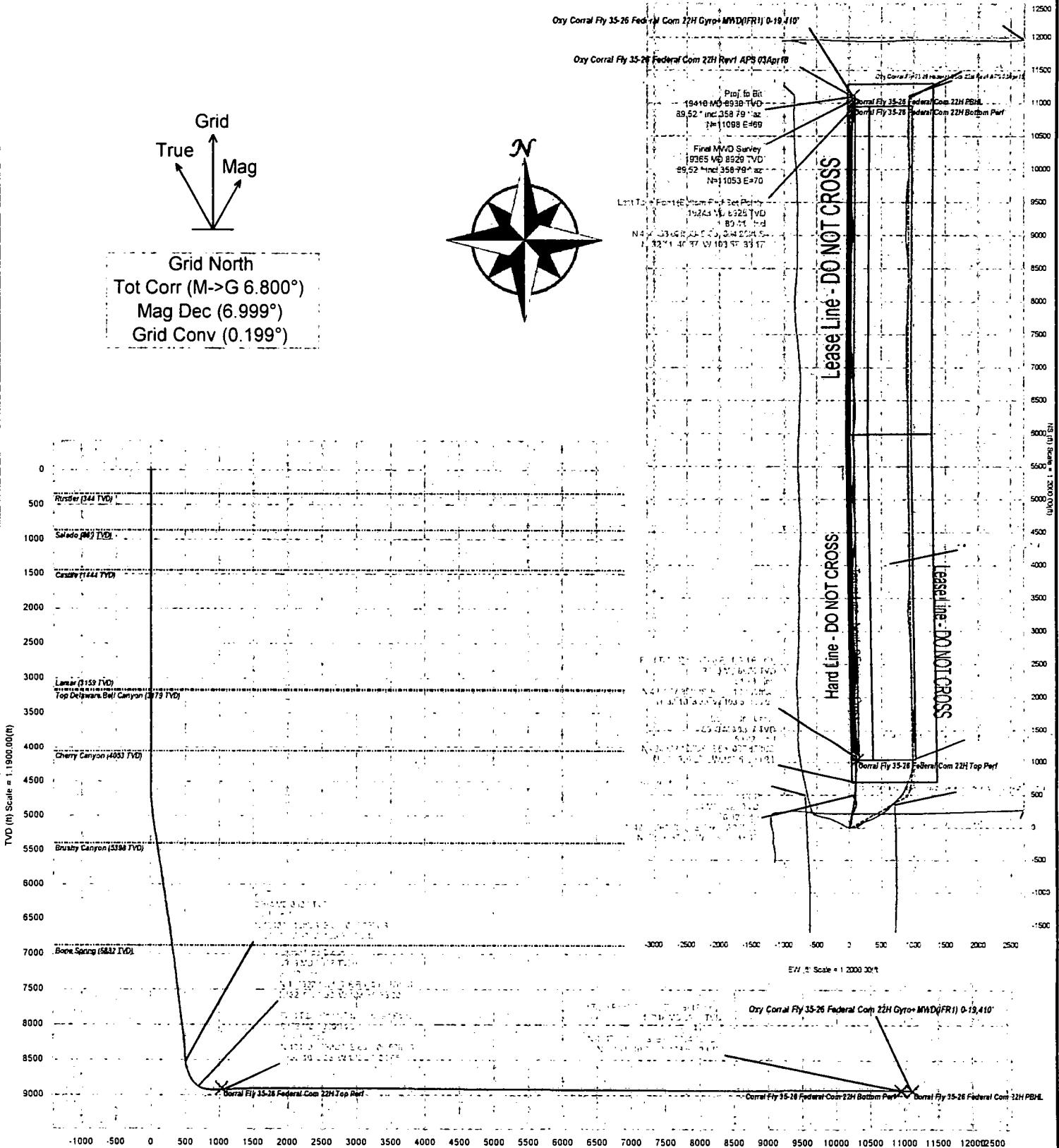
Schlumberger

OXY



Borehole: Original Borehole Well: Oxy Corral Fly 35-26 Federal Com 22H Field: NM Eddy County (NAD 83) Structure: Oxy Corral Fly 35-26 Federal Com 22H

Gravity & Magnetic Parameters				Surface Location				Miscellaneous			
Model	HOGM 2018	Op	50 924'	Date	29-May-2018	Lat	N 32 3 52.66	Northings	423627.46RUS	Grid Conv	0.199'
MagDec	6.999'	FS	47951.82nT	Gravity FS	998.437mgn (N 80645 Based)	Lon	W 103 57 34.43	Easting	856994.77RUS	Scale Fact	0.99992441
								Start			
								Oxy Corral Fly 35-26 Federal Com 22H TVD Ref.			
								RKB=26.5' (2044.71' above MSL)			
								Plan			
								Oxy Corral Fly 35-26 Federal Com 22H Gyro-MMD(FRI) 0-19,410'			



Schlumberger

OXY



Borehole: Original Borehole Well: Oxy Corral Fly 35-26 Federal Com 22H Field: NM Eddy County (NAD 83) Structure: Oxy Corral Fly 35-26 Federal Com 22H

Gravity & Magnetic Parameters

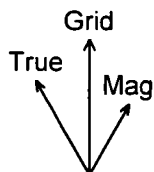
Model: HOGW 2019 Dip: 53.924° Date: 29-May-2018
MagDec: 6.999° PS: 47991.82nT Gravity PS: 998.457mgn (9.80665 Based)

Surface Location

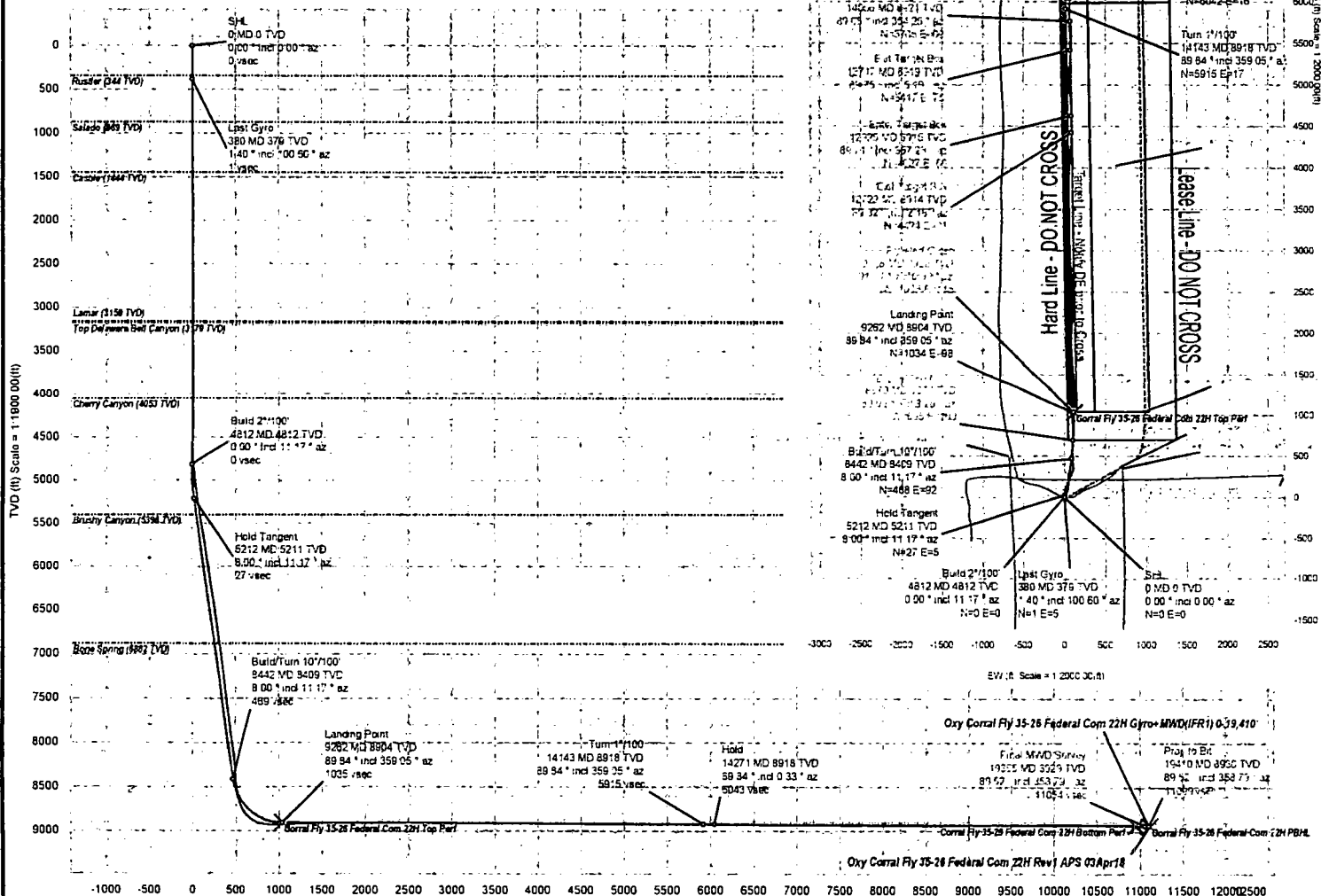
NAD83 New Mexico State Plane, Eastern Zone, US Feet
Lat: N 32 9 52.68 Northing: 42327.48NUS Grid Conv: 0.199°
Lon: W 103 57 34.43 Easting: 65694.77EUS Scale Fact: 0.99992441

Miscellaneous

Start: Oxy Corral Fly 35-26 Federal Com 22H TVD Ref: RKB=26.5' (3644.7' above NSL)
Plan: Oxy Corral Fly 35-26 Federal Com 22H Rev1 APS 03Apr18



Grid North
Tot Corr (M->G 6.800°)
Mag Dec (6.999°)
Grid Conv (0.199°)



Oxy Corral Fly 35-26 Federal Com 22H Gyro+MWD(IFR1) 0-19,410' Survey

Geodetic Report

(Def Survey)

Report Date: June 05, 2018 - 10:17 AM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Corral Fly 35-26 Federal Com 22H / Oxy Corral Fly 35-26 Federal Com 22H
Well: Oxy Corral Fly 35-26 Federal Com 22H
Borehole: Original Borehole
UWI / API#: Unknown / 30-015-44703
Survey Name: Oxy Corral Fly 35-26 Federal Com 22H Gyro+MWD(IFR1) 0-19,410'
Survey Date: May 29, 2018
Tort / AHD / DDI / ERD Ratio: 302.700 ° / 11160.256 ft / 6.866 / 1.249
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 9' 52.65991", W 103° 57' 34.42598"
Location Grid N/E Y/X: N 423827.460 ftUS, E 656994.770 ftUS
CRS Grid Convergence Angle: 0.1990 °
Grid Scale Factor: 0.99992441
Version / Patch: 2.10.720.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 0.236 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB=26.5'
TVD Reference Elevation: 3044.700 ft above MSL
Seabed / Ground Elevation: 3018.200 ft above MSL
Magnetic Declination: 6.999 °
Total Gravity Field Strength: 998.4574mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47991.820 nT
Magnetic Dip Angle: 59.924 °
Declination Date: May 29, 2018
Magnetic Declination Model: HDGM 2018
North Reference: Grid North
Grid Convergence Used: 0.1990 °
Total Corr Mag North->Grid North: 6.8002 °
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	423827.46	656994.77	N 32	9 52.66 W 103 57 34.43
RKB	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	423827.46	656994.77	N 32	9 52.66 W 103 57 34.43
	99.10	0.47	68.33	99.10	0.11	0.11	0.28	0.65	423827.57	656995.05	N 32	9 52.66 W 103 57 34.42
	133.00	0.46	63.58	133.00	0.22	0.22	0.53	0.12	423827.68	656995.30	N 32	9 52.66 W 103 57 34.42
	219.50	0.98	60.89	219.49	0.74	0.74	1.49	0.60	423828.20	656996.25	N 32	9 52.67 W 103 57 34.41
	310.20	1.31	100.59	310.17	0.94	0.92	3.18	0.92	423828.38	656997.95	N 32	9 52.67 W 103 57 34.39
Last Gyro	379.50	1.40	100.60	379.45	0.64	0.62	4.79	0.13	423828.08	656999.56	N 32	9 52.67 W 103 57 34.37
	543.00	0.68	74.10	542.93	0.55	0.52	7.69	0.52	423827.98	657002.46	N 32	9 52.66 W 103 57 34.34
	633.00	0.06	331.61	632.93	0.74	0.71	8.18	0.77	423828.17	657002.95	N 32	9 52.67 W 103 57 34.33
	717.00	0.13	350.60	716.93	0.87	0.84	8.14	0.09	423828.30	657002.91	N 32	9 52.67 W 103 57 34.33
	895.00	0.12	260.37	894.93	1.04	1.01	7.93	0.10	423828.47	657002.70	N 32	9 52.67 W 103 57 34.33
	1077.00	0.06	186.10	1076.92	0.91	0.88	7.73	0.07	423828.34	657002.50	N 32	9 52.67 W 103 57 34.34
	1169.00	0.12	329.76	1168.92	0.95	0.92	7.68	0.19	423828.38	657002.44	N 32	9 52.67 W 103 57 34.34
	1260.00	0.06	190.04	1259.92	0.98	0.95	7.62	0.19	423828.41	657002.39	N 32	9 52.67 W 103 57 34.34
	1450.00	0.06	215.66	1449.92	0.81	0.77	7.54	0.01	423828.23	657002.31	N 32	9 52.67 W 103 57 34.34
	1640.00	0.06	196.67	1639.92	0.63	0.60	7.46	0.01	423828.06	657002.23	N 32	9 52.67 W 103 57 34.34
	1735.00	0.06	291.63	1734.92	0.60	0.57	7.40	0.09	423828.03	657002.17	N 32	9 52.67 W 103 57 34.34
	1830.00	0.06	264.91	1829.92	0.61	0.58	7.30	0.03	423828.04	657002.07	N 32	9 52.67 W 103 57 34.34
	1925.00	0.07	183.48	1924.92	0.55	0.52	7.25	0.09	423827.98	657002.02	N 32	9 52.66 W 103 57 34.34
	2020.00	0.14	206.13	2019.92	0.39	0.36	7.19	0.08	423827.82	657001.96	N 32	9 52.66 W 103 57 34.34
	2114.00	0.15	258.18	2113.92	0.26	0.23	7.02	0.14	423827.69	657001.79	N 32	9 52.66 W 103 57 34.34
	2209.00	0.07	328.68	2208.92	0.28	0.25	6.87	0.15	423827.71	657001.64	N 32	9 52.66 W 103 57 34.35
	2305.00	0.12	192.85	2304.92	0.23	0.21	6.82	0.18	423827.67	657001.59	N 32	9 52.66 W 103 57 34.35
	2399.00	0.12	109.53	2398.92	0.11	0.08	6.89	0.17	423827.54	657001.66	N 32	9 52.66 W 103 57 34.35
	2494.00	0.06	341.25	2493.92	0.12	0.09	6.97	0.17	423827.55	657001.74	N 32	9 52.66 W 103 57 34.34
	2589.00	0.12	27.89	2588.92	0.25	0.23	7.00	0.09	423827.69	657001.77	N 32	9 52.66 W 103 57 34.34
	2684.00	0.12	109.30	2683.92	0.31	0.28	7.14	0.16	423827.74	657001.91	N 32	9 52.66 W 103 57 34.34
	2779.00	0.02	349.87	2778.92	0.29	0.26	7.23	0.14	423827.72	657002.00	N 32	9 52.66 W 103 57 34.34
	2874.00	0.12	77.52	2873.92	0.33	0.30	7.32	0.13	423827.76	657002.09	N 32	9 52.66 W 103 57 34.34
	2969.00	0.12	168.63	2968.92	0.26	0.23	7.44	0.18	423827.69	657002.21	N 32	9 52.66 W 103 57 34.34
	3064.00	0.12	247.37	3063.92	0.12	0.09	7.37	0.16	423827.55	657002.14	N 32	9 52.66 W 103 57 34.34
	3158.00	0.04	318.30	3157.92	0.11	0.08	7.25	0.12	423827.54	657002.02	N 32	9 52.66 W 103 57 34.34
	3253.00	0.07	166.10	3252.92	0.08	0.05	7.25	0.11	423827.51	657002.02	N 32	9 52.66 W 103 57 34.34
	3443.00	0.07	223.98	3442.92	-0.12	-0.15	7.19	0.04	423827.31	657001.96	N 32	9 52.66 W 103 57 34.34
	3633.00	0.06	287.55	3632.92	-0.18	-0.20	7.02	0.04	423827.26	657001.79	N 32	9 52.66 W 103 57 34.34
	3727.00	0.07	7.95	3726.92	-0.10	-0.13	6.98	0.09	423827.33	657001.75	N 32	9 52.66 W 103 57 34.34
	3918.00	0.06	21.17	3917.92	0.11	0.08	7.03	0.01	423827.54	657001.80	N 32	9 52.66 W 103 57 34.34
	4108.00	0.06	350.18	4107.92	0.30	0.27	7.05	0.02	423827.73	657001.82	N 32	9 52.66 W 103 57 34.34
	4202.00	0.06	311.61	4201.92	0.38	0.35	7.00	0.04	423827.81	657001.77	N 32	9 52.66 W 103 57 34.34
	4297.00	0.07	162.73	4296.92	0.35	0.33	6.98	0.13	423827.79	657001.75	N 32	9 52.66 W 103 57 34.34
	4392.00	0.07	154.62	4391.92	0.25	0.22	7.03	0.01	423827.68	657001.80	N 32	9 52.66 W 103 57 34.34
	4487.00	0.04	81.52	4486.92	0.20	0.17	7.08	0.07	423827.63	657001.85	N 32	9 52.66 W 103 57 34.34
	4582.00	1.35	24.46	4581.91	1.23	1.19	7.58	1.40	423828.65	657002.35	N 32	9 52.67 W 103 57 34.34
	4676.00	2.85	21.49	4675.85	4.41	4.38	8.90	1.60	423831.84	657003.66	N 32	9 52.70 W 103 57 34.32
	4771.00	4.04	21.29	4770.67	9.74	9.69	10.98	1.25	423837.15	657005.75	N 32	9 52.76 W 103 57 34.30
	4866.00	5.40	21.19	4865.35	17.04	16.98	13.81	1.43	423844.44	657008.58	N 32	9 52.83 W 103 57 34.26
	5056.00	8.18	17.51	5054.00	38.30	38.21	21.11	1.48	423865.67	657015.88	N 32	9 53.04 W 103 57 34.18
	5246.00	9.27	13.72	5241.80	66.09	65.97	28.80	0.65	423893.42	657023.57	N 32	9 53.31 W 103 57 34.09
	5435.00	9.31	7.52	5428.33	96.05	95.91	34.41	0.53	423923.37	657029.18	N 32	9 53.61 W 103 57 34.02
	5625.00	9.74	5.70	5615.71	127.30	127.14	38.02	0.28	423954.59	657032.79	N 32	9 53.92 W 103 57 33.98
	5815.00	8.85	7.12	5803.21	157.81	157.64	41.43	0.48	423985.09	657036.20	N 32	9 54.22 W 103 57 33.94
	6004.00	8.69	10.65	5990.00	186.28	186.10	45.87	0.30	424013.54	657040.64	N 32	9 54.50 W 103 57 33.88
	6195.00	8.79	16.16	6178.79	214.51	214.29	52.60	0.44	424041.74	657047.37	N 32	9 54.78 W 103 57 33.81
	6289.00	8.82	19.70	6271.68	228.21	227.98	57.03	0.58	424055.42	657051.79	N 32	9 54.91 W 103 57 33.75
	6384.00	8.65	23.02	6365.58	241.66	241.41	62.28	0.56	424068.85	657057.04	N 32	9 55.05 W 103 57 33.69
	6574.00	8.88	26.30	6553.36	268.01	267.71	74.36	0.29	424095.15	657069.13	N 32	9 55.31 W 103 57 33.55
	6763.00	8.68	26.77	6740.15	293.87	293.52	87.25	0.11	424120.96	657082.01	N 32	9 55.56 W 103 57 33.40
	6858.00	8.58	23.70	6834.07	306.79	306.41	93.33	0.50	424133.84	657088.09	N 32	9 55.69 W 103 57 33.33
	7049.00	8.39	18.08	7022.98	333.12	332.70	103.38	0.45	424160.13	657098.14	N 32	9 55.95 W 103 57 33.21
	7144.00	8.09	8.29	7117.01	346.34	345.90	106.49	1.51	424173.34	657101.25	N 32	9 56.08 W 103 57 33.17
	7334.00	7.12	359.87	7305.34	371.35	370.91	108.39	0.78	424198.34	657103.15	N 32	9 56.33 W 103 57 33.15
	7428.00	7.15	354.87	7398.61	383.00	382.56	107.86	0.66	424209.99	657102.62	N 32	9 56.44 W 103 57 33.16
	7618.00	7.24	339.37	7587.13	406.00	405.58	102.68	0.99	424233.01	657097.44	N 32	9 56.67 W 103 57 33.22
	7713.00	7.96	338.15	7681.31	417.63	417.23	98.20	0.69	424244.66	657092.96	N 32	9 56.79 W 103 57 33.27
	7808.00	8.16	336.49	7775.38	429.82	429.44	93.09	0.40	424256.87	657087.86	N 32	9 56.91 W 103 57 33.33
	7903.00	8.34	331.44	7869.40	442.03	441.68	87.11	0.79	424269.10	657081.87	N 32	9 57.03 W 103 57 33.39
	7998.00	8.57	329.81	7963.37	454.17	453.85	80.26	0.35	424281.27	657075.02	N 32	9 57.15 W 103 57 33.47
	8093.00	8.20	334.46	8057.35	466.38	466.08	73.78	0.81	424293.50	657068.54	N 32	9 57.27 W 103 57 33.55
	8183.00	6.05	356.30	8146.67	476.89	476.61	70.70	3.80	424304.03	657065.47	N 32	9 57.37 W 103 57 33.58
	8374.00	4.27	37.57	8336.95	492.59	492.29	74.39	2.09	424319.71	657069.15	N 32	9 57.53 W 103 57 33.54

...Original Borehole\Oxy Corral Fly 35-26 Federal Com 22H Gyro+MWD(IFR1) 0-19,410'

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	8469.00	2.31	67.69	8431.79	496.14	495.82	78.32	2.88	424323.24	657073.08	N 32 9 57.56 W	103 57 33.49
	8564.00	6.83	22.81	8526.49	502.10	501.76	82.28	5.73	424329.18	657077.05	N 32 9 57.82 W	103 57 33.45
	8659.00	15.84	10.62	8619.55	520.10	519.75	86.87	9.76	424347.17	657081.64	N 32 9 57.80 W	103 57 33.39
	8754.00	23.42	4.61	8708.97	551.73	551.36	90.78	8.25	424378.78	657085.55	N 32 9 58.11 W	103 57 33.35
	8849.00	37.57	7.00	8790.63	599.56	599.17	95.86	14.95	424426.59	657090.62	N 32 9 58.59 W	103 57 33.29
	8944.00	52.41	3.10	8857.64	666.30	665.89	101.46	15.88	424493.30	657096.22	N 32 9 59.25 W	103 57 33.22
	9040.00	70.53	3.50	8903.30	750.17	749.74	106.32	18.88	424577.14	657101.08	N 32 10 0.08 W	103 57 33.16
	9135.00	87.62	1.57	8921.24	843.03	842.58	110.38	18.10	424669.97	657105.14	N 32 10 0.99 W	103 57 33.11
	9195.00	89.66	2.04	8922.67	902.98	902.53	112.27	3.49	424729.92	657107.03	N 32 10 1.59 W	103 57 33.08
	9270.00	90.62	0.75	8922.48	977.96	977.50	114.10	2.14	424804.89	657108.86	N 32 10 2.33 W	103 57 33.06
	9364.00	91.62	0.06	8920.64	1071.94	1071.48	114.76	1.29	424898.86	657109.52	N 32 10 3.26 W	103 57 33.05
	9457.00	92.75	359.51	8917.10	1164.87	1164.41	114.41	1.35	424991.78	657109.17	N 32 10 4.18 W	103 57 33.05
	9550.00	92.03	359.10	8913.22	1257.78	1257.32	113.28	0.89	425084.68	657108.05	N 32 10 5.10 W	103 57 33.06
	9644.00	91.41	358.39	8910.40	1351.70	1351.26	111.23	1.00	425178.61	657105.99	N 32 10 6.03 W	103 57 33.08
	9737.00	91.03	357.29	8908.42	1444.60	1444.17	107.72	1.25	425271.52	657102.48	N 32 10 6.95 W	103 57 33.11
	9831.00	90.83	355.90	8906.89	1538.39	1537.99	102.14	1.49	425365.33	657096.90	N 32 10 7.88 W	103 57 33.18
	9924.00	90.21	355.02	8906.05	1631.07	1630.69	94.78	1.16	425458.02	657089.54	N 32 10 8.79 W	103 57 33.26
	10017.00	90.04	354.98	8905.85	1723.68	1723.34	86.67	0.19	425550.66	657081.44	N 32 10 9.71 W	103 57 33.35
	10110.00	90.24	357.94	8905.62	1816.47	1816.15	80.93	3.19	425643.47	657075.70	N 32 10 10.63 W	103 57 33.41
	10204.00	89.97	1.16	8905.45	1910.45	1910.13	80.19	3.44	425737.44	657074.96	N 32 10 11.56 W	103 57 33.42
	10391.00	90.00	4.61	8905.50	2097.22	2096.87	89.60	1.84	425924.16	657084.37	N 32 10 13.41 W	103 57 33.30
	10484.00	90.55	4.78	8905.05	2189.93	2189.55	97.22	0.62	426016.84	657091.98	N 32 10 14.32 W	103 57 33.21
	10578.00	90.65	2.77	8904.06	2283.75	2283.34	103.40	2.14	426110.62	657098.17	N 32 10 15.25 W	103 57 33.13
	10671.00	90.31	359.92	8903.29	2376.72	2376.30	105.59	3.09	426203.58	657100.35	N 32 10 16.17 W	103 57 33.10
	10764.00	89.90	356.89	8903.12	2469.66	2469.25	103.00	3.29	426296.52	657097.76	N 32 10 17.09 W	103 57 33.13
	10858.00	89.97	356.07	8903.22	2563.45	2563.07	97.23	0.88	426390.34	657091.99	N 32 10 18.02 W	103 57 33.19
	10951.00	90.14	355.48	8903.13	2656.17	2655.82	90.38	0.66	426483.08	657085.14	N 32 10 18.94 W	103 57 33.27
	11046.00	89.69	355.50	8903.27	2750.85	2750.53	82.91	0.47	426577.77	657077.67	N 32 10 19.87 W	103 57 33.35
	11141.00	89.35	355.42	8904.07	2845.51	2845.23	75.39	0.37	426672.46	657070.15	N 32 10 20.81 W	103 57 33.43
	11236.00	89.69	356.17	8904.87	2940.22	2939.97	68.42	0.87	426767.20	657063.19	N 32 10 21.75 W	103 57 33.51
	11330.00	89.73	357.03	8905.34	3034.03	3033.80	62.85	0.92	426861.02	657057.61	N 32 10 22.68 W	103 57 33.57
	11425.00	89.59	359.41	8905.90	3128.96	3128.74	59.90	2.51	426955.96	657054.66	N 32 10 23.62 W	103 57 33.60
	11615.00	89.62	358.62	8907.21	3318.92	3318.71	56.63	0.42	427145.91	657051.39	N 32 10 25.50 W	103 57 33.63
	11710.00	89.86	358.92	8907.65	3413.88	3413.69	54.59	0.40	427240.88	657049.36	N 32 10 26.44 W	103 57 33.65
	11804.00	91.03	358.96	8906.92	3507.85	3507.67	52.85	1.25	427334.85	657047.62	N 32 10 27.37 W	103 57 33.67
	11995.00	89.28	0.02	8906.40	3698.83	3698.65	51.15	1.07	427525.82	657045.92	N 32 10 29.26 W	103 57 33.68
	12185.00	88.87	1.69	8909.47	3888.78	3888.59	53.99	0.90	427715.75	657048.75	N 32 10 31.14 W	103 57 33.64
	12375.00	89.66	3.65	8911.90	4078.59	4078.36	62.84	1.11	427905.51	657057.60	N 32 10 33.01 W	103 57 33.53
	12470.00	90.00	5.58	8912.19	4173.30	4173.05	70.48	2.06	428000.19	657065.24	N 32 10 33.95 W	103 57 33.44
	12565.00	89.73	5.26	8912.41	4267.92	4267.62	79.45	0.44	428094.75	657074.22	N 32 10 34.89 W	103 57 33.33
	12660.00	89.52	4.74	8913.03	4362.58	4362.26	87.73	0.59	428189.38	657082.49	N 32 10 35.82 W	103 57 33.23
	12754.00	89.21	0.86	8914.07	4456.12	4456.12	92.32	4.14	428283.24	657087.09	N 32 10 36.75 W	103 57 33.17
	12849.00	89.62	357.89	8915.04	4551.44	4551.10	91.29	3.16	428378.21	657086.05	N 32 10 37.69 W	103 57 33.18
	12944.00	89.73	357.09	8915.88	4646.33	4646.01	87.13	0.85	428473.11	657081.89	N 32 10 38.63 W	103 57 33.22
	13134.00	89.52	355.23	8916.63	4835.84	4835.57	74.40	0.99	428662.65	657069.17	N 32 10 40.51 W	103 57 33.36
	13229.00	89.86	354.06	8917.34	4930.38	4930.15	65.54	1.28	428757.23	657060.30	N 32 10 41.44 W	103 57 33.46
	13323.00	89.66	357.61	8917.73	5024.09	5023.89	58.71	3.78	428850.96	657053.48	N 32 10 42.37 W	103 57 33.54
	13418.00	89.73	359.66	8918.24	5119.04	5118.85	56.45	2.16	428945.92	657051.21	N 32 10 43.31 W	103 57 33.56
	13608.00	89.93	5.36	8918.80	5308.82	5308.59	64.77	3.00	429135.64	657059.53	N 32 10 45.19 W	103 57 33.46
	13703.00	89.76	5.49	8919.06	5403.43	5403.17	73.75	0.23	429230.21	657068.51	N 32 10 46.12 W	103 57 33.35
	13798.00	89.69	2.82	8919.52	5498.19	5497.91	80.63	2.81	429324.94	657075.39	N 32 10 47.06 W	103 57 33.27
	13893.00	89.66	358.57	8920.06	5593.17	5592.88	81.78	4.47	429419.90	657076.54	N 32 10 48.00 W	103 57 33.25
	13988.00	89.62	355.03	8920.65	5687.98	5687.71	76.48	3.73	429514.73	657071.24	N 32 10 48.94 W	103 57 33.31
	14083.00	89.66	354.08	8921.25	5782.51	5782.28	67.46	1.00	429609.29	657062.23	N 32 10 49.87 W	103 57 33.41
	14178.00	89.90	355.91	8921.62	5877.11	5876.91	59.18	1.94	429703.92	657053.94	N 32 10 50.81 W	103 57 33.50
	14273.00	90.17	3.72	8921.56	5972.03	5971.84	58.87	8.23	429798.84	657053.64	N 32 10 51.75 W	103 57 33.50
	14368.00	89.86	9.16	8921.53	6066.44	6066.20	69.52	5.74	429893.19	657064.29	N 32 10 52.68 W	103 57 33.37
	14463.00	89.69	7.58	8921.91	6160.48	6160.19	83.35	1.67	429987.17	657078.11	N 32 10 53.61 W	103 57 33.21
	14558.00	89.66	3.60	8922.44	6255.05	6254.72	92.60	4.19	430081.69	657087.37	N 32 10 54.55 W	103 57 33.10
	14653.00	89.73	359.54	8922.95	6350.00	6349.66	95.20	4.27	430176.63	657089.97	N 32 10 55.49 W	103 57 33.06
	14748.00	89.52	356.42	8923.57	6444.91	6444.59	91.86	3.29	430271.55	657086.62	N 32 10 56.43 W	103 57 33.10
	14842.00	89.42	354.39	8924.44	6538.57	6538.28	84.33	2.16	430365.23	657079.09	N 32 10 57.35 W	103 57 33.18
	14937.00	89.90	354.44	8925.01	6633.08	6632.82	75.08	0.51	430459.77	657069.85	N 32 10 58.29 W	103 57 33.28
	15127.00	89.90	355.97	8925.34	6822.34	6822.15	59.20	0.81	430649.08	657053.96	N 32 11 0.16 W	103 57 33.46
	15222.00	90.21	357.96	8925.25	6917.18	6917.01	54.17	2.12	430743.94	657048.94	N 32 11 1.10 W	103 57 33.52
	15317.00	90.24	357.70	8924.87	7012.09	7011.95	50.57	0.28	430838.86	657045.34	N 32 11 2.04 W	103 57 33.55
	15511.00	89.59	356.12	8925.16	7205.76	7205.66	40.12	0.88	431032.56	657034.88	N 32 11 3.96 W	103 57 33.67
	15606.00	89.55	354.69	8925.87	7300.42	7300.35	32.51	1.51	431127.24	657027.27	N 32 11 4.90 W	103 57 33.75
	15701.00	89.62	355.29	8926.56	7395.02	7394.98	24.21	0.64	431221.87	657018.98	N 32 11 5.83 W	103 57 33.85
	15795.00	89.31	356.72	8927.44	7488.75	7488.74	17.66	1.56	431315.62	657012.43	N 32 11 6.76 W	103 57 33.92
	15891.00	89.49	358.22	8928.44	7584.63	7584.64	13.42	1.57	431411.51	657008.19	N 32 11 7.71 W	103 57 33.96
	15986.00	89.31	0.88	8929.44	7679.61	7679.63	12.68	2.81	431506.49	657007.45	N 32 11 8.65 W	103 57 33.97
	16081.00	89.73	2.39	8930.24	7774.58	7774.58	15.39	1.65	431601.44	657010.16	N 32 11 9.59 W	103 57 33.93
	16176.00	88.87	2.10	8931.40	7869.51	7869.50	19.11	0.96	431696.35	657013.88	N 32 11 10.53 W	103 57 33.89
	16271.00	89.79	358.76	8932.51	7964.49	7964.48	19.82	3.65	431791.32	657014.59	N 32 11 11.47 W	103 57 33.87
	16365.00	89.66	357.64	8932.96	8058.43	8058.43	16.87	1.20	431885.26	657011.64	N 32 11 12.40 W	103 57 33.90
	16460.00	90.17	358.83	8933.10	8153.37	8153.38	13.94					

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 ° ' ")
	18835.00	89.76	3.78	8925.71	10524.35	10524.25	45.21	1.08	434350.90	657039.98	N 32 11 36.80	W 103 57 33.47
	18930.00	89.76	4.69	8926.11	10619.12	10618.99	52.23	0.96	434445.63	657046.99	N 32 11 37.73	W 103 57 33.39
	19025.00	89.79	4.24	8926.48	10713.86	10713.70	59.62	0.47	434540.33	657054.39	N 32 11 38.67	W 103 57 33.30
	19120.00	89.62	3.26	8926.97	10808.68	10808.50	65.84	1.05	434635.12	657060.60	N 32 11 39.61	W 103 57 33.22
	19215.00	89.38	1.25	8927.80	10903.61	10903.42	69.57	2.13	434730.03	657064.34	N 32 11 40.55	W 103 57 33.18
Final MWD Survey	19365.00	89.52	358.79	8929.24	11053.59	11053.40	69.63	1.64	434880.00	657064.39	N 32 11 42.03	W 103 57 33.17
Proj. to Bit	19410.00	89.52	358.79	8929.62	11098.57	11098.39	68.68	0.00	434924.99	657063.44	N 32 11 42.48	W 103 57 33.18

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 Fly 35-26 Federal Com 22H Gyro+MWD(IFR1) 0-19,410'
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Corral Fly 35-26 Federal Com 22H Gyro+MWD(IFR1) 0-19,410'
	1	26.500	379.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Corral Fly 35-26 Federal Com 22H
	1	379.500	717.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Corral Fly 35-26 Federal Com 22H
	1	717.000	8183.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Corral Fly 35-26 Federal Com 22H
	1	8183.000	9195.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Corral Fly 35-26 Federal Com 22H
	1	9195.000	19410.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Corral Fly 35-26 Federal Com 22H

...Original Borehole\Oxy Corral Fly 35-26 Federal Com 22H Gyro+MWD(IFR1) 0-19,410'