

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)



March 5, 2018

Oxy U.S.A Inc

Re:

2, 25S, 29E, Eddy NM
N 32.15537 W -103.96237

CLIENT: Oxy U.S.A Inc
WELL: Corral Fly 02-01 State 25H
FIELD: Pierce Crossing; Bone Spring, East

RIG: H&P 636
COUNTY: Eddy
API NO: ~~430-015-445-12~~
JOB NO: 17MLD2107

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>
Roseleigh Taylor FE	Corral Fly 02-01 State 25H Original Hole	1742.00 Ft to 18836.00 Ft	February 20, 2018 to March 3, 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

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:
2, 25S, 29E, Eddy NM
N 32.15537 W -103.96237

I, Roseleigh Taylor certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of February 20, 2018 through March 03, 2018. conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 1742.00 feet to a depth of 18836.00 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 U.S.A Inc for the Corral Fly 02-01 State 25H Well (Original Hole) API No. 30-015-44512 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
Roseleigh Taylor
FE

Subscribed and Sworn to before me this 9th day of March (month) 2018 (yr)

My Commission expires:

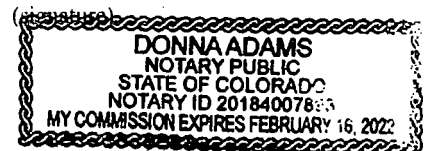
2-16-2022

D. Adams

Notary Public

Adams County Colorado

(County State)



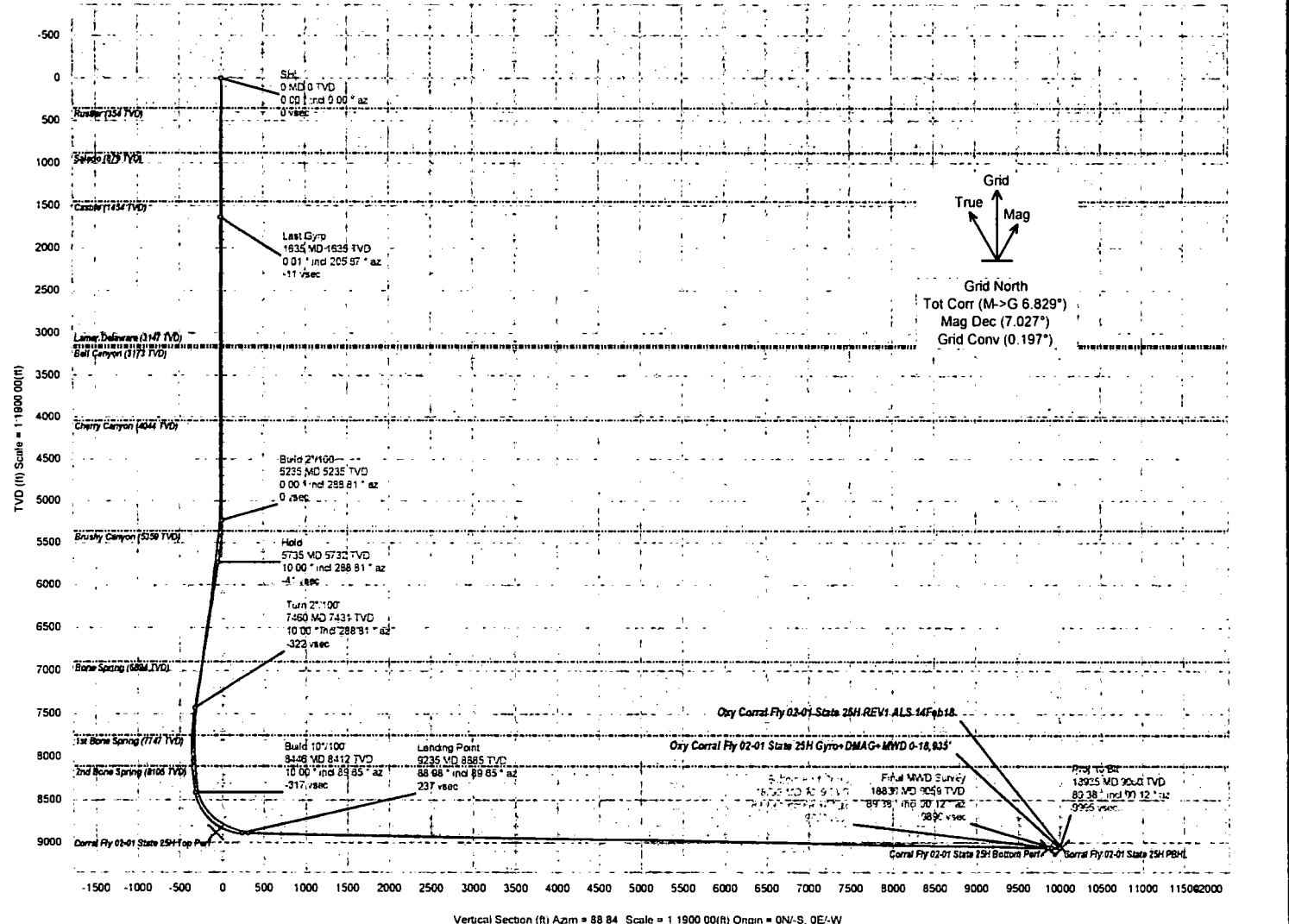
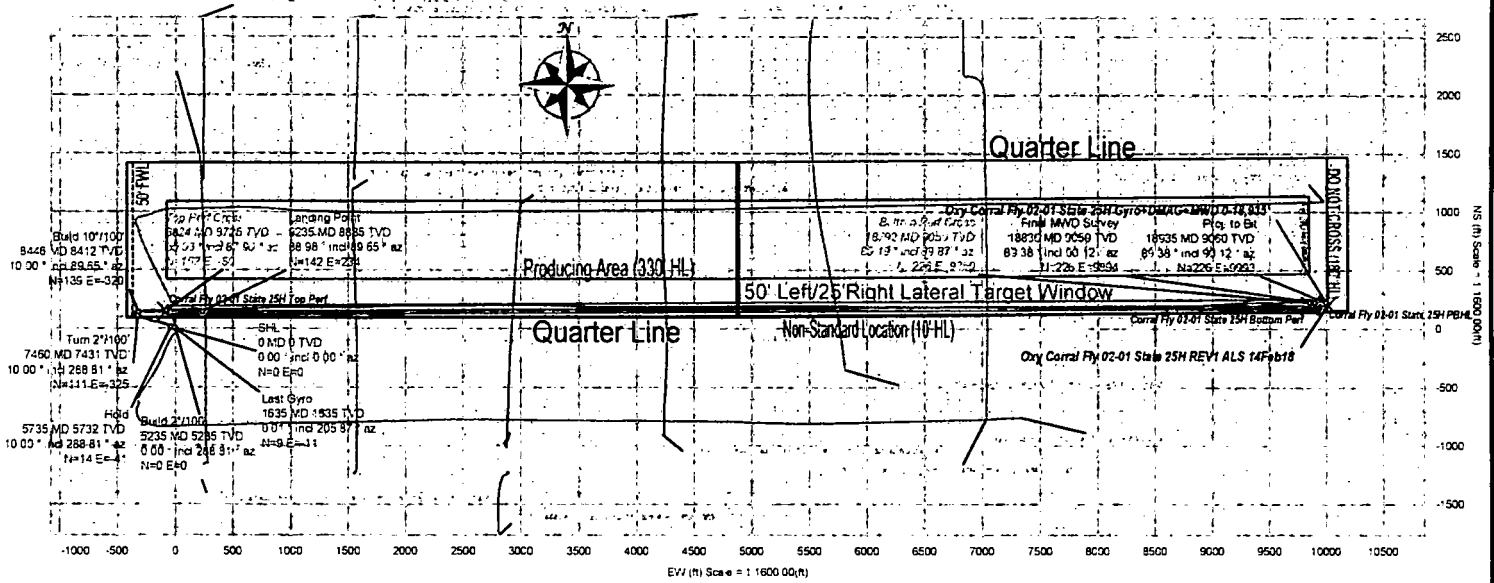


OXY



Borehole: Original Borehole Well: Oxy Corral Fly 02-01 State 25H Field: NM Eddy County (NAD 83) Structure: Oxy Corral Fly 02-01 State 25H

Gravity & Magnetic Parameters				Surface Location				Miscellaneous							
Model	HDM3 2017	Dip	59.923'	Date	14-Feb-2018	Lat	N 32 9 19.35	Northing	420458.45105	Grid Conv.	0.1974	Slot	Oxy Corral Fly 02-01 State 25H	TVD Ref	RKB=26.5'(3654 ft above MSL)
MagDec	7.027'	F3	44020.975nt	Gravity F3	958.456mgp (9.80665 Based)	Lon	W 103 57 44.53	Easting	656137.89105	Scale Fact	0.99992419	Plan	Oxy Corral Fly 02-01 State 25H REV1 ALS 14Feb18		



Vertical Section (ft) Azm = 88.84 Scale = 1:1900.00(ft) Origin = ON-S, 0E-W

Oxy Corral Fly 02-01 State 25H Gyro+DMAG+MWD to 18,935' Survey



(Def Survey)

Client:	OXY
Field:	N4H Eddy County (NAD 83)
Well:	Oxy Corral Fly 02-01 State 25H
Structure / Slot:	Oxy Corral Fly 02-01 State 25H / Oxy Corral Fly 02-01 State 25H
Borehole:	U/M / API# / Unknown / 30-015-44512
Survey Name:	Oxy Corral Fly 02-01 State 25H Gyro+DMAG+MWD 0-18.935'
Survey Date:	February 16, 2018
True / AHD / ODI / ERD Ratio:	206.027' / 107.15614' H / 6.664' / 1.183
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long:	N 27° 9' 19.34968" W 103° 57' 44.53344"
Location GND N/E Y/X:	N 42058.450 NUS, E 666137.590 NUS
CRS GND Convergence Angle:	0.1974°
GND Scale Factor:	0.9992419
Version / Patch:	2.10 706 0

Comments	SHL
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MD	(m)
Incl:	(°)
Azim Grid	(°)
TVD	(m)
VSEC	(m)
NS	(m)
EW	(m)
DLS	(1/1000)
Eastng	(NUS)
Northng	(NUS)
Eastng	(NUS)
Latitude	(N/S - -)
Longitude	(E/W - -)

Vertical Section Azimuth:	88.844° (Grid North)
Vertical Section Datum:	0.000 ft, 0.000 ft
TVD Reference Elevation:	3054.100 ft above MSL
Seabed / Ground Elevation:	7.027'
Magnetic Declination:	998.4550mg (9.80665 Based)
Gravity Model:	GAR1
Total Gravity Field Strength:	48020.075 nT
Magnetic Dip Angle:	59.923°
Declination Date:	February 16, 2018
Magnetic Declination Model:	HDMI 2017
North Reference:	Grid North
GND Convergence Used:	0.1974°
Total Corr Mag North->Grid:	6.8293'
North:	Well Head
Local Coord Referenced To:	

8918.00	8822.00	8727.00	8632.00	8538.00	8442.00	8347.00	8246.00	8140.00	8066.00	7991.00	7896.00	7801.00	7706.00	7611.00	7517.00	7422.00	7328.00	7234.00	7140.00	7046.00	6952.00	6857.00	6762.00	6667.00	6572.00	6478.00	6383.00	6288.00	6192.00	6098.00	5998.00	5898.00	5798.00	5698.00	5598.00	5498.00	5398.00	5298.00	5198.00	5098.00	4998.00	4898.00	4798.00	4698.00	4598.00	4498.00	4398.00	4298.00	4198.00	4098.00	3998.00	3898.00	3798.00	3698.00	3598.00	3498.00	3398.00	3298.00	3198.00	3098.00	2998.00	2898.00	2798.00	2698.00	2598.00	2498.00	2398.00	2298.00	2198.00	2098.00	1998.00	1898.00	1798.00	1698.00	1598.00	1498.00	1398.00	1298.00	1198.00	1098.00	998.00	898.00	798.00	698.00	598.00	498.00	398.00	298.00	198.00	98.00	0.00
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Comments	MWD	Incl	Azim	Grd	VSEC	NS	EW	DLS	North	East	Lat	Long
	8013.00	67.54	87.90	8818.98	87.44	159.27	84.23	8.38	420618.41	65621.82	N 32	9 20 53 W 103 57 42.51
	8013.00	71.25	89.70	8849.94	77.88	172.66	172.66	6.36	420620.69	65631.24	N 32	9 20 55 W 103 57 42.51
	8013.00	73.20	91.01	8871.57	268.28	181.47	181.47	7.44	420619.91	65640.65	N 32	9 20 54 W 103 57 41.44
	8013.00	75.20	92.02	8882.19	362.58	190.48	190.48	8.36	420618.91	65649.98	N 32	9 20 53 W 103 57 40.35
	8013.00	77.20	93.04	8893.30	454.52	200.48	200.48	9.36	420618.18	65659.32	N 32	9 20 52 W 103 57 39.24
	8013.00	79.20	94.06	8904.41	546.46	210.48	210.48	10.36	420617.45	65668.65	N 32	9 20 51 W 103 57 38.12
	8013.00	81.20	95.08	8915.52	638.40	220.48	220.48	11.36	420616.72	65677.98	N 32	9 21 00 W 103 57 37.00
	8013.00	83.20	96.10	8926.63	730.34	230.48	230.48	12.36	420616.00	65687.31	N 32	9 21 01 W 103 57 35.88
	8013.00	85.20	97.12	8937.74	822.28	240.48	240.48	13.36	420615.27	65696.64	N 32	9 21 02 W 103 57 34.76
	8013.00	87.20	98.14	8948.85	914.22	250.48	250.48	14.36	420614.54	65705.97	N 32	9 21 03 W 103 57 33.64
	8013.00	89.20	99.16	8959.96	1006.16	260.48	260.48	15.36	420613.81	65715.30	N 32	9 21 04 W 103 57 32.52
	8013.00	91.20	100.18	8971.07	1098.10	270.48	270.48	16.36	420613.08	65724.63	N 32	9 21 05 W 103 57 31.40
	8013.00	93.20	101.20	8982.18	1190.04	280.48	280.48	17.36	420612.35	65733.96	N 32	9 21 06 W 103 57 30.28
	8013.00	95.20	102.22	8993.29	1281.98	290.48	290.48	18.36	420611.62	65743.29	N 32	9 21 07 W 103 57 29.16
	8013.00	97.20	103.24	9004.40	1373.92	300.48	300.48	19.36	420610.89	65752.62	N 32	9 21 08 W 103 57 28.04
	8013.00	99.20	104.26	9015.51	1465.86	310.48	310.48	20.36	420610.16	65761.95	N 32	9 21 09 W 103 57 26.92
	8013.00	101.20	105.28	9026.62	1557.80	320.48	320.48	21.36	420609.43	65771.28	N 32	9 21 10 W 103 57 25.80
	8013.00	103.20	106.30	9037.73	1649.74	330.48	330.48	22.36	420608.70	65780.61	N 32	9 21 11 W 103 57 24.68
	8013.00	105.20	107.32	9048.84	1741.68	340.48	340.48	23.36	420607.97	65789.94	N 32	9 21 12 W 103 57 23.56
	8013.00	107.20	108.34	9059.95	1833.62	350.48	350.48	24.36	420607.24	65799.27	N 32	9 21 13 W 103 57 22.44
	8013.00	109.20	109.36	9071.06	1925.56	360.48	360.48	25.36	420606.51	65808.60	N 32	9 21 14 W 103 57 21.32
	8013.00	111.20	110.38	9082.17	2017.50	370.48	370.48	26.36	420605.78	65817.93	N 32	9 21 15 W 103 57 20.20
	8013.00	113.20	111.40	9093.28	2109.44	380.48	380.48	27.36	420605.05	65827.26	N 32	9 21 16 W 103 57 19.08
	8013.00	115.20	112.42	9104.39	2201.38	390.48	390.48	28.36	420604.32	65836.59	N 32	9 21 17 W 103 57 17.96
	8013.00	117.20	113.44	9115.50	2293.32	400.48	400.48	29.36	420603.59	65845.92	N 32	9 21 18 W 103 57 16.84
	8013.00	119.20	114.46	9126.61	2385.26	410.48	410.48	30.36	420602.86	65855.25	N 32	9 21 19 W 103 57 15.72
	8013.00	121.20	115.48	9137.72	2477.20	420.48	420.48	31.36	420602.13	65864.58	N 32	9 21 20 W 103 57 14.60
	8013.00	123.20	116.50	9148.83	2569.14	430.48	430.48	32.36	420601.40	65873.91	N 32	9 21 21 W 103 57 13.48
	8013.00	125.20	117.52	9159.94	2661.08	440.48	440.48	33.36	420600.67	65883.24	N 32	9 21 22 W 103 57 12.36
	8013.00	127.20	118.54	9171.05	2753.02	450.48	450.48	34.36	420599.94	65892.57	N 32	9 21 23 W 103 57 11.24
	8013.00	129.20	119.56	9182.16	2844.96	460.48	460.48	35.36	420599.21	65901.90	N 32	9 21 24 W 103 57 10.12
	8013.00	131.20	120.58	9193.27	2936.90	470.48	470.48	36.36	420598.48	65911.23	N 32	9 21 25 W 103 57 9.00
	8013.00	133.20	121.60	9204.38	3028.84	480.48	480.48	37.36	420597.75	65920.56	N 32	9 21 26 W 103 57 7.88
	8013.00	135.20	122.62	9215.49	3120.78	490.48	490.48	38.36	420597.02	65929.89	N 32	9 21 27 W 103 57 6.76
	8013.00	137.20	123.64	9226.60	3212.72	500.48	500.48	39.36	420596.29	65939.22	N 32	9 21 28 W 103 57 5.64
	8013.00	139.20	124.66	9237.71	3304.66	510.48	510.48	40.36	420595.56	65948.55	N 32	9 21 29 W 103 57 4.52
	8013.00	141.20	125.68	9248.82	3396.60	520.48	520.48	41.36	420594.83	65957.88	N 32	9 21 30 W 103 57 3.40
	8013.00	143.20	126.70	9259.93	3488.54	530.48	530.48	42.36	420594.10	65967.21	N 32	9 21 31 W 103 57 2.28
	8013.00	145.20	127.72	9271.04	3580.48	540.48	540.48	43.36	420593.37	65976.54	N 32	9 21 32 W 103 57 1.16
	8013.00	147.20	128.74	9282.15	3672.42	550.48	550.48	44.36	420592.64	65985.87	N 32	9 21 33 W 103 57 0.04
	8013.00	149.20	129.76	9293.26	3764.36	560.48	560.48	45.36	420591.91	65995.20	N 32	9 21 34 W 103 57 0.00
	8013.00	151.20	130.78	9304.37	3856.30	570.48	570.48	46.36	420591.18	66004.53	N 32	9 21 35 W 103 57 0.00
	8013.00	153.20	131.80	9315.48	3948.24	580.48	580.48	47.36	420590.45	66013.86	N 32	9 21 36 W 103 57 0.00
	8013.00	155.20	132.82	9326.59	4040.18	590.48	590.48	48.36	420589.72	66023.19	N 32	9 21 37 W 103 57 0.00
	8013.00	157.20	133.84	9337.70	4132.12	600.48	600.48	49.36	420588.99	66032.52	N 32	9 21 38 W 103 57 0.00
	8013.00	159.20	134.86	9348.81	4224.06	610.48	610.48	50.36	420588.26	66041.85	N 32	9 21 39 W 103 57 0.00
	8013.00	161.20	135.88	9359.92	4316.00	620.48	620.48	51.36	420587.53	66051.18	N 32	9 21 40 W 103 57 0.00
	8013.00	163.20	136.90	9371.03	4407.94	630.48	630.48	52.36	420586.80	66060.51	N 32	9 21 41 W 103 57 0.00
	8013.00	165.20	137.92	9382.14	4499.88	640.48	640.48	53.36	420586.07	66069.84	N 32	9 21 42 W 103 57 0.00
	8013.00	167.20	138.94	9393.25	4591.82	650.48	650.48	54.36	420585.34	66079.17	N 32	9 21 43 W 103 57 0.00
	8013.00	169.20	139.96	9404.36	4683.76	660.48	660.48	55.36	420584.61	66088.50	N 32	9 21 44 W 103 57 0.00
	8013.00	171.20	140.98	9415.47	4775.70	670.48	670.48	56.36	420583.88	66097.83	N 32	9 21 45 W 103 57 0.00
	8013.00	173.20	142.00	9426.58	4867.64	680.48	680.48	57.36	420583.15	66107.16	N 32	9 21 46 W 103 57 0.00
	8013.00	175.20	143.02	9437.69	4959.58	690.48	690.48	58.36	420582.42	66116.49	N 32	9 21 47 W 103 57 0.00
	8013.00	177.20	144.04	9448.80	5051.52	700.48	700.48	59.36	420581.69	66125.82	N 32	9 21 48 W 103 57 0.00
	8013.00	179.20	145.06	9459.91	5143.46	710.48	710.48	60.36	420580.96	66135.15	N 32	9 21 49 W 103 57 0.00
	8013.00	181.20	146.08	9471.02	5235.40	720.48	720.48	61.36	420580.23	66144.48	N 32	9 21 50 W 103 57 0.00
	8013.00	183.20	147.10	9482.13	5327.34	730.48	730.48	62.36	420579.50	66153.81	N 32	9 21 51 W 103 57 0.00
	8013.00	185.20	148.12	9493.24	5419.28	740.48	740.48	63.36	420578.77	66163.14	N 32	9 21 52 W 103 57 0.00
	8013.00	187.20	149.14	9504.35	5511.22	750.48	750.48	64.36	420578.04	66172.47	N 32	9 21 53 W 103 57 0.00
	8013.00	189.20	150.16	9515.46	5603.16	760.48	760.48	65.36	420577.31	66181.80	N 32	9 21 54 W 103 57 0.00
	8013.00	191.20	151.18	9526.57	5695.10	770.48	770.48	66.36	420576.58	66191.13	N 32	9 21 55 W 103 57 0.00
	8013.00	193.20	152.20	9537.68	5787.04	780.48	780.48	67.36	420575.85	66200.46	N 32	9 21 56 W 103 57 0.00
	8013.00	195.20	153.22	9548.79	5878.98	790.48	790.48	68.36	420575.12	66209.79	N 32	9 21 57 W 103 57 0.00
	8013.00	197.20	154.24	9559.90	5970.92	800.48	800.48	69.36	420574.39	66219.12	N 32	9 21 58 W 103 57 0.00
	8013.00	199.20	155.26	9571.01	6062.86	810.48	810.48	70.36	420573.66	66228.45	N 32	9 21 59 W 103 57 0.00
	8013.00	201.20	156.28	9582.12	6154.80	820.48	820.48	71.36	420572.93	66237.78	N 32	9 22 00 W 103 57 0.00
	8013.00	203.20	157.30	9593.23	6246.74	830.48	830.48	72.36	420572.20	66247.11	N 32	9 22 01 W 103 57 0.00
	8013.00	205.20	158.32	9604.34	6338.68	840.48	840.48	73.36	420571.47	66256.44	N 32	9 22 02 W 103 57 0.00
	8013.00	207.20	159.34	9615.45	6430.62	850.48	850.48	74.36	420570.74	66265.77	N 32	9 22 03 W 103 57 0.00
	8013.00	209.20	160.36	9626.56	6522.56	860.48	860.48	75.36	420570.01	66275.10	N 32	9 22 04 W 103 57 0.00
	8013.00	211.20	161.38	9637.67	6614.50	870.48	870.48	76.36	420569.28	66284.43	N 32	9 22 05 W 103 57 0.00
	8013.00	213.20	162.40	9648.78	6706.44	880.48	880.48	77.36	420568.55	66293.76	N 32	9 22 06 W 103 57 0.00
	8013.00	215.20	163.42	9659.89	6798.38	890.48	890.48	78.36	420567.82	66303.09	N 32	9 22 07 W 103 57 0.00
	8013.00	217.20	164.44	9671.00	6890.32	900.48	900.48	79.36	420567.09	66312.42	N 32	9 22 08 W 103 57 0.00
	8013.00	219.20	165.46	9682.11	6982.26	910.48	910.48	80.36	420566.36	66321.75	N 32	9 22 09 W 103 57 0.00
	8013.00	221.20	166.48	9693.22	7074.20	920.48	920.48					

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 ° ' ")
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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 02-01 State 25H Gyro+DMAG+MWD 0-18.935'
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Corral Fly 02-01 State 25H Gyro+DMAG+MWD 0-18.935'
	1	26.500	1635.000	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Corral Fly 02-01 State 25H
	1	1635.000	8246.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Corral Fly 02-01 State 25H
	1	8246.000	9334.000	Act Stns	30.000	30.000	NAL_MWD_HDGM+MS	Original Borehole / Oxy Corral Fly 02-01 State 25H
	1	9334.000	18935.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Corral Fly 02-01 State 25H