

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)

Schlumberger

30-015-44508

August 14, 2018

OXY USA INC
PO BOX 4294
HOUSTON, TX 77210

RECEIVED

AUG 17 2018

DISTRICT II-ARTESIA O.C.D.

2, 25S, 29E, Eddy NM
N 32.16306 W -103.96331

Re:

CLIENT: OXY USA INC
WELL: Corral Fly 02 01 State 22H
FIELD: Pierce Crossing, Bone Spring East

RIG: H&P 635
COUNTY: Eddy
API NO: 30-015-44508
JOB NO: 18MLD2105

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>
Kristina Hansen FET	Corral Fly 02 01 State 22H Original Hole	563.00 Ft to 18835.00 Ft	February 9, 2018 to February 20, 2018	TelePacer SlimPulse

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

Les Foster
Field Service Manager

Oilfield Services, Schlumberger
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 32.16306 W -103.96331

I, Kristina Hansen certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of February 09, 2018 through February 20, 2018, conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 563.00 feet to a depth of 18835.00 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 02 01 State 22H Well (Original Hole) API No. 30-015-44508 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
Kristina Hansen
FET

Subscribed and Sworn to before me this 14th day of August (month) 2018 (yr)

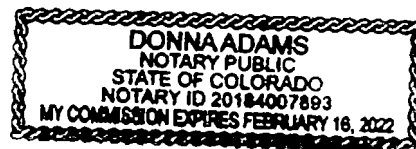
My Commission expires:

2-16-2018

Donna Adams
Notary Public

Adams County Colorado
(County State)

(signature)



Schlumberger

OXY

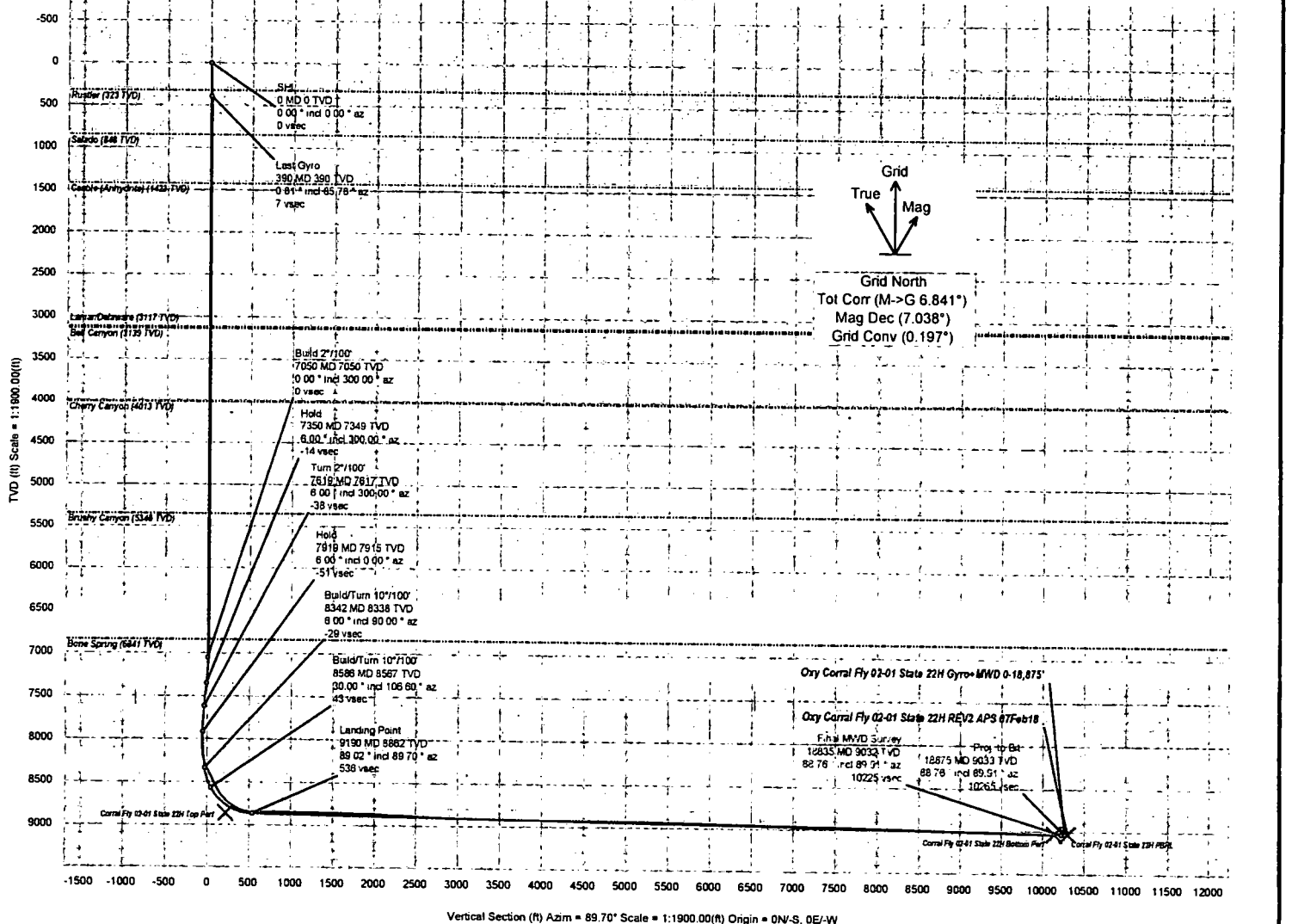
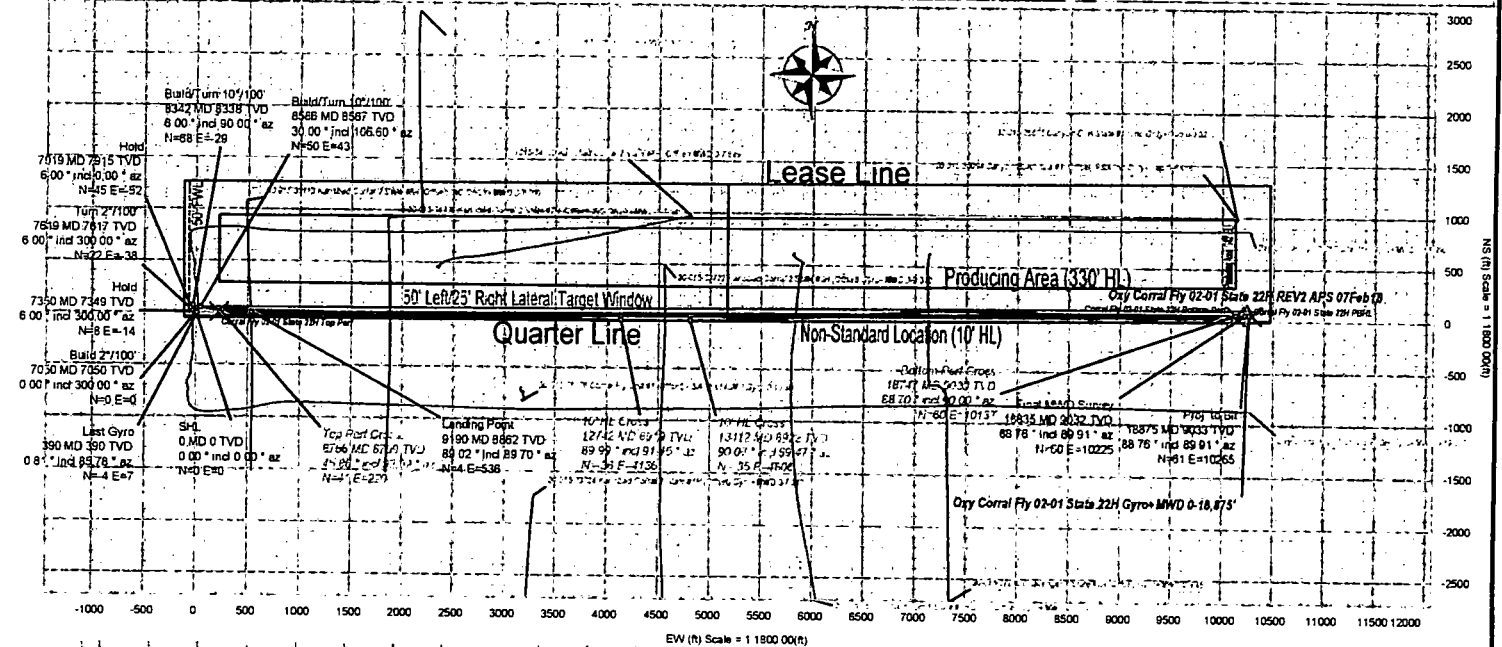


Borehole: Original Borehole Well: Oxy Corral Fly 02-01 State 22H Field: NM Eddy County (NAD 83) Structure: Oxy Corral Fly 02-01 State 22H

Gravity & Magnetic Parameters
 Model: HDGM 2017 Dip: 59.816° Date: 04-Feb-2018
 MagDec: 7.038° FS: 48027.48nT Gravity FS: 998.459mgn (9.80665 Based)

Surface Location NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Lat: N 32 9 47.01 Northing: 423252.19MUS Grid Conv: 0.197°
 Lon: W 103 07 47.92 Easting: 656836.88MUS Scale Fact: 0.99992411

Miscellaneous
 Slot: Oxy Corral Fly 02-01 State 22H
 Plan: Oxy Corral Fly 02-01 State 22H REV2 APS 07Feb18
 TVD Ref: RKB=26.5' (3022.2ft above MSL)



Vertical Section (ft) Azim = 89.70° Scale = 1:1900.00(ft) Origin = 0N-S, 0E-W

Oxy Corral Fly 02-01 State 22H Gyro+MWD 0-18,875' Survey Geodetic Report

(Def Survey)



Report Date: March 13, 2018 - 11:58 AM
 Client: OXY
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Oxy Corral Fly 02-01 State 22H / Oxy Corral Fly 02-01 State 22H
 Well: Oxy Corral Fly 02-01 State 22H
 Borehole: Original Borehole
 UWI / API#: Unknown / 30-015-44508
 Survey Name: Oxy Corral Fly 02-01 State 22H Gyro+MWD 0-18,875'
 Survey Date: February 04, 2018
 Tort / AHD / ODI / ERD Ratio: 195.422' / 10441.483 ft / 6.630' / 1.156
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 9' 47.00665", W 103° 57' 47.91865"
 Location Grid N/E Y/X: N 423252.190 RUS, E 655836.980 RUS
 CRS Grid Convergence Angle: 0.1970°
 Grid Scale Factor: 0.99992411
 Version / Patch: 2.10.706.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 89.695° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB=26.5'
 TVD Reference Elevation: 3022.200 ft above MSL
 Seabed / Ground Elevation: 2995.700 ft above MSL
 Magnetic Declination: 7.038°
 Total Gravity Field Strength: 998.458mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48027.489 nT
 Magnetic Dip Angle: 59.936°
 Declination Date: February 04, 2018
 Magnetic Declination Model: HDGM 2017
 North Reference: Grid North
 Grid Convergence Used: 0.1970°
 Total Corr Mag North->Grid: 6.8405°
 North: Well Head
 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	423252.19	655836.98	N 32° 9' 47.01"	W 103° 57' 47.92"
RKB	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	423252.19	655836.98	N 32° 9' 47.01"	W 103° 57' 47.92"
	43.04	1.39	122.95	43.04	0.17	-0.11	0.17	8.40	423252.08	655837.15	N 32° 9' 47.01"	W 103° 57' 47.92"
	128.27	1.71	132.61	128.24	1.96	-1.53	1.97	0.48	423250.66	655838.95	N 32° 9' 46.99"	W 103° 57' 47.90"
	215.76	1.14	128.45	215.70	3.60	-2.96	3.61	0.66	423249.23	655840.59	N 32° 9' 46.98"	W 103° 57' 47.88"
	308.02	0.93	96.45	307.95	5.06	-3.61	5.08	0.66	423248.58	655842.06	N 32° 9' 46.97"	W 103° 57' 47.86"
Last Gyro	390.15	0.81	85.78	390.07	6.30	-3.64	6.32	0.24	423248.60	655843.30	N 32° 9' 46.97"	W 103° 57' 47.85"
	563.00	0.08	105.81	562.91	7.63	-3.59	7.65	0.43	423248.53	655844.61	N 32° 9' 46.97"	W 103° 57' 47.83"
	652.00	0.13	235.85	651.91	7.61	-3.66	7.63	0.22	423248.53	655844.33	N 32° 9' 46.97"	W 103° 57' 47.83"
	770.00	0.16	305.91	769.91	7.37	-3.64	7.38	0.14	423248.55	655844.42	N 32° 9' 46.97"	W 103° 57' 47.83"
	860.00	0.16	148.43	859.91	7.33	-3.67	7.35	0.35	423248.52	655844.36	N 32° 9' 46.97"	W 103° 57' 47.83"
	950.00	0.16	11.53	949.91	7.42	-3.66	7.44	0.33	423248.53	655844.33	N 32° 9' 46.97"	W 103° 57' 47.83"
	1041.00	0.13	345.76	1040.91	7.42	-3.43	7.44	0.08	423248.76	655844.42	N 32° 9' 46.97"	W 103° 57' 47.83"
	1127.00	0.13	76.61	1126.91	7.49	-3.31	7.51	0.22	423248.88	655844.49	N 32° 9' 46.97"	W 103° 57' 47.83"
	1217.00	0.11	26.37	1216.91	7.63	-3.21	7.65	0.11	423248.98	655844.63	N 32° 9' 46.97"	W 103° 57' 47.83"
	1308.00	0.08	297.20	1307.91	7.61	-3.11	7.63	0.15	423249.08	655844.61	N 32° 9' 46.98"	W 103° 57' 47.83"
	1398.00	0.13	61.79	1397.91	7.65	-3.03	7.66	0.21	423249.16	655844.64	N 32° 9' 46.98"	W 103° 57' 47.83"
	1583.00	0.16	29.42	1582.91	7.96	-2.71	7.98	0.05	423249.48	655844.96	N 32° 9' 46.98"	W 103° 57' 47.83"
	1678.00	0.16	181.76	1677.91	8.02	-2.72	8.04	0.33	423249.47	655845.02	N 32° 9' 46.98"	W 103° 57' 47.83"
	1773.00	0.16	47.61	1772.91	8.12	-2.77	8.13	0.31	423249.42	655845.11	N 32° 9' 46.98"	W 103° 57' 47.82"
	1868.00	0.16	346.96	1867.91	8.19	-2.55	8.20	0.17	423249.64	655845.18	N 32° 9' 46.98"	W 103° 57' 47.82"
	1962.00	0.20	253.59	1961.91	8.00	-2.47	8.01	0.28	423249.72	655844.99	N 32° 9' 46.98"	W 103° 57' 47.83"
	2056.00	0.13	323.29	2055.91	7.78	-2.43	7.79	0.21	423249.76	655844.77	N 32° 9' 46.98"	W 103° 57' 47.83"
	2151.00	0.20	131.01	2150.91	7.84	-2.45	7.85	0.35	423249.74	655844.83	N 32° 9' 46.98"	W 103° 57' 47.83"
	2246.00	0.08	52.44	2245.91	8.02	-2.52	8.03	0.21	423249.67	655845.01	N 32° 9' 46.98"	W 103° 57' 47.83"
	2340.00	0.13	86.46	2339.91	8.17	-2.47	8.19	0.08	423249.72	655845.17	N 32° 9' 46.98"	W 103° 57' 47.82"
	2435.00	0.16	119.58	2434.91	8.40	-2.53	8.41	0.09	423249.66	655845.39	N 32° 9' 46.98"	W 103° 57' 47.82"
	2624.00	0.13	89.28	2623.91	8.84	-2.66	8.85	0.04	423249.53	655845.83	N 32° 9' 46.98"	W 103° 57' 47.82"
	2719.00	0.25	104.06	2718.90	9.15	-2.71	9.16	0.14	423249.48	655846.14	N 32° 9' 46.98"	W 103° 57' 47.81"
	2908.00	0.13	339.79	2907.90	9.48	-2.60	9.49	0.18	423249.59	655846.47	N 32° 9' 46.98"	W 103° 57' 47.81"
	3003.00	0.16	84.44	3002.90	9.57	-2.49	9.58	0.24	423249.70	655846.56	N 32° 9' 46.98"	W 103° 57' 47.81"
	3097.00	0.16	220.29	3096.90	9.62	-2.58	9.63	0.32	423249.61	655846.61	N 32° 9' 46.98"	W 103° 57' 47.81"
	3192.00	0.16	7.25	3191.90	9.55	-2.55	9.56	0.32	423249.64	655846.54	N 32° 9' 46.98"	W 103° 57' 47.81"
	3287.00	0.16	140.29	3286.90	9.65	-2.52	9.66	0.31	423249.67	655846.64	N 32° 9' 46.98"	W 103° 57' 47.81"
	3381.00	0.16	66.01	3380.90	9.85	-2.57	9.87	0.21	423249.62	655846.85	N 32° 9' 46.98"	W 103° 57' 47.80"
	3476.00	0.16	166.26	3475.90	10.00	-2.64	10.02	0.26	423249.55	655847.00	N 32° 9' 46.98"	W 103° 57' 47.80"
	3571.00	0.16	66.45	3570.90	10.16	-2.72	10.17	0.26	423249.47	655847.15	N 32° 9' 46.98"	W 103° 57' 47.80"
	3665.00	0.16	310.14	3664.90	10.18	-2.58	10.19	0.29	423249.61	655847.17	N 32° 9' 46.98"	W 103° 57' 47.80"
	3760.00	0.16	122.36	3759.90	10.19	-2.57	10.20	0.34	423249.63	655847.18	N 32° 9' 46.98"	W 103° 57' 47.80"
	3855.00	0.16	19.97	3854.90	10.35	-2.51	10.36	0.26	423249.68	655847.34	N 32° 9' 46.98"	W 103° 57' 47.80"
	3949.00	0.16	0.35	3948.90	10.39	-2.26	10.41	0.06	423249.93	655847.39	N 32° 9' 46.98"	W 103° 57' 47.80"
	4044.00	0.13	213.50	4043.90	10.34	-2.21	10.35	0.29	423249.98	655847.33	N 32° 9' 46.98"	W 103° 57' 47.80"
	4139.00	0.16	105.52	4138.90	10.40	-2.34	10.42	0.25	423249.85	655847.39	N 32° 9' 46.98"	W 103° 57' 47.80"
	4234.00	0.13	283.04	4233.90	10.43	-2.35	10.44	0.31	423249.84	655847.42	N 32° 9' 46.98"	W 103° 57' 47.80"
	4328.00	0.16	105.75	4327.90	10.45	-2.36	10.46	0.31	423249.83	655847.44	N 32° 9' 46.98"	W 103° 57' 47.80"
	4423.00	0.16	247.02	4422.90	10.45	-2.45	10.47	0.32	423249.74	655847.45	N 32° 9' 46.98"	W 103° 57' 47.80"
	4518.00	0.18	75.07	4517.90	10.46	-2.47	10.47	0.34	423249.72	655847.45	N 32° 9' 46.98"	W 103° 57' 47.80"
	4613.00	0.16	164.12	4612.90	10.62	-2.56	10.64	0.24	423249.63	655847.62	N 32° 9' 46.98"	W 103° 57' 47.80"
	4708.00	0.16	8.74	4707.90	10.68	-2.56	10.69	0.33	423249.63	655847.67	N 32° 9' 46.98"	W 103° 57' 47.80"
	4802.00	0.16	51.30	4801.90	10.80	-2.35	10.82	0.12	423249.84	655847.79	N 32° 9' 46.98"	W 103° 57' 47.79"
	4992.00	0.16	349.90	4991.90	10.97	-1.92	10.98	0.09	423250.27	655847.96	N 32° 9' 46.99"	W 103° 57' 47.79"
	5086.00	0.16	175.83	5085.90	10.95	-1.92	10.96	0.34	423250.27	655847.94	N 32° 9' 46.99"	W 103° 57' 47.79"
	5181.00	0.13	223.97	5180.90	10.89	-2.13	10.90	0.13	423250.06	655847.88	N 32° 9' 46.99"	W 103° 57' 47.79"
	5276.00	0.16	152.59	5275.90	10.87	-2.33	10.88	0.18	423249.86	655847.86	N 32° 9' 46.98"	W 103° 57' 47.79"
	5465.00	0.16	155.12	5464.90	11.10	-2.80	11.12	0.00	423249.39	655848.10	N 32° 9' 46.98"	W 103° 57' 47.79"
	5654.00	0.13	23.23	5653.90	11.30	-2.84	11.31	0.14	423249.35	655848.29	N 32° 9' 46.98"	W 103° 57' 47.79"
	5843.00	0.16	228.41	5842.90	11.18	-2.82	11.20	0.15	423249.37	655848.18	N 32° 9' 46.98"	W 103° 57' 47.79"
	5938.00	0.16	174.60	5937.90	11.10	-3.04	11.11	0.15	423249.15	655848.09	N 32° 9' 46.98"	W 103° 57' 47.79"
	6127.00	0.16	329.41	6126.90	10.99	-3.08	11.00	0.17	423249.11	655847.98	N 32° 9' 46.98"	W 103° 57' 47.79"
	6211.00	0.13	242.60	6210.90	10.84	-3.02	10.86	0.24	423249.17	655847.84	N 32° 9' 46.98"	W 103° 57' 47.79"
	6306.00	0.11	308.01	6305.90	10.67	-3.01	10.69	0.14	423249.18	655847.67	N 32° 9' 46.98"	W 103° 57' 47.79"
	6495.00	0.06	40.28	6494.90	10.60	-2.82	10.61	0.07	423249.37	655847.59	N 32° 9' 46.98"	W 103° 57' 47.80"
	6589.00	0.11	200.87	6588.90	10.60	-2.87	10.61	0.18	423249.32	655847.59	N 32° 9' 46.98"	W 103° 57' 47.80"
	6684.00	0.11	291.12	6683.90	10.48	-2.92	10.49	0.16	423249.27	655847.47	N 32° 9' 46.98"	W 103° 57' 47.80"
	6778.00	0.13	4.87	6777.90	10.40	-2.78	10.42	0.15	423249.41	655847.40	N 32° 9' 46.98"	W 103° 57' 47.80"
	6873.00	0.16	296.83	6872.90	10.30	-2.62	10.31	0.17	423249.57	655847.29	N 32° 9' 46.98"	W 103° 57' 47.80"
	6967.00	0.85	266.57	6966.89	9.48	-2.60	9.50	0.76	423249.59	655846.48	N 32° 9' 46.98"	W 103° 57' 47.81"
	7067.00	2.47	282.36	7066.85	6.64	-2.18	6.65	1.67	423250.01	655843.63	N 32° 9' 47.00"	W 103° 57' 47.84"
	7180.00	4.30	288.87	7179.65	0.26	-0.29	0.26	1.65	423251.90	655837.24	N 32° 9' 47.00"	W 103° 57' 47.82"
	7351.00	6.88	297.22	7349.82	-14.88	6.47	-14.91	1.58	423258.66	655822.07	N 32° 9' 47.07"	W 103° 57' 48.09"
	7445.00	5.82	293.95	7443.24	-24.22	10.98	-24.28	1.19	423263.17	655812.71	N 32° 9' 47.12"	W 103° 57' 48.20"
	7540.00	4.79	295.62	7537.83	-32.18	14.65	-32.25	1.10	423266.84	655804.73	N 32° 9' 47.15"	W 103° 57' 48.29"
	7634.00	4.66	300.56	7631.52	-38.98	18.29	-39.08	0.45	423270.48	655797.90	N 32° 9' 47.19"	W 103° 57' 48.37"

MD	Incl	Azim GHD	TVD	VSEC	NS	EW	DLS	Nothing	Eastings	Latitude	Longitude
18875.00	88.76	89.91	9033.09	10265.02	60.72	10264.84	0.00	423212.90	666101.02	N 32	9 47.24 W 103.55 48.51
18875.05	88.76	89.91	9032.23	10222.03	60.65	10224.55	0.51	423212.84	666061.03	N 32	9 47.24 W 103.55 48.97
18796.00	88.59	90.01	9031.32	10186.04	60.63	10185.86	0.22	423212.81	666021.05	N 32	9 47.24 W 103.55 49.43
18701.00	88.80	90.00	9030.12	10091.06	60.63	10090.88	0.51	423212.82	665982.07	N 32	9 47.25 W 103.55 50.50
18606.00	88.75	89.83	9026.80	9996.13	60.49	9995.91	0.48	423212.68	665932.12	N 32	9 47.25 W 103.55 51.64
18511.00	88.80	90.02	9024.40	9901.13	60.37	9900.97	0.44	423212.55	665873.15	N 32	9 47.25 W 103.55 52.74
18417.00	88.66	90.42	9022.29	9807.15	60.20	9806.94	0.06	423212.91	665834.19	N 32	9 47.26 W 103.55 53.83
18322.00	88.63	90.47	9020.44	9712.19	61.47	9712.00	1.05	423213.65	665784.22	N 32	9 47.27 W 103.55 54.94
18228.00	88.45	90.50	9017.64	9622.22	61.44	9622.03	1.12	423213.63	665745.26	N 32	9 47.28 W 103.55 56.03
18133.00	88.80	90.51	9015.36	9522.25	61.45	9522.06	0.25	423213.64	665706.30	N 32	9 47.28 W 103.55 57.14
18038.00	88.69	90.45	9013.28	9422.28	62.80	9422.09	0.18	423214.43	665667.34	N 32	9 47.29 W 103.55 58.24
17943.00	88.76	90.22	9011.17	9333.31	63.07	9333.11	0.18	423215.99	665628.38	N 32	9 47.30 W 103.55 59.35
17848.00	88.80	90.15	9009.03	9243.34	63.29	9243.16	0.21	423216.47	665589.43	N 32	9 47.31 W 103.56 1.54
17754.00	88.63	90.15	9006.80	9144.37	63.44	9144.16	0.40	423216.86	665550.46	N 32	9 47.32 W 103.56 2.64
17660.00	88.69	90.25	9004.79	9054.39	63.62	9054.21	0.19	423216.90	665511.49	N 32	9 47.32 W 103.56 3.74
17565.00	88.69	90.27	9002.57	8964.45	63.65	8964.28	0.21	423216.83	665472.53	N 32	9 47.32 W 103.56 4.85
17470.00	88.66	90.05	9000.37	8874.48	63.72	8874.28	0.38	423216.06	665433.56	N 32	9 47.33 W 103.56 5.94
17376.00	88.76	90.22	8998.26	8784.50	63.87	8784.28	0.53	423216.12	665394.59	N 32	9 47.33 W 103.56 7.03
17282.00	88.76	90.35	8996.22	8694.53	64.11	8694.31	0.48	423216.30	665355.62	N 32	9 47.34 W 103.56 8.14
17187.00	88.63	90.35	8994.06	8604.56	64.34	8604.34	0.40	423216.53	665316.65	N 32	9 47.34 W 103.56 9.24
17093.00	88.80	90.66	8991.93	8514.59	64.33	8514.38	0.38	423216.52	665277.69	N 32	9 47.35 W 103.56 10.34
16998.00	88.45	90.06	8989.88	8424.62	64.33	8424.39	0.51	423216.68	665238.72	N 32	9 47.35 W 103.56 11.44
16903.00	88.80	90.14	8987.95	8334.65	64.33	8334.41	0.21	423216.79	665199.75	N 32	9 47.36 W 103.56 12.53
16808.00	88.66	90.40	8985.81	8244.68	65.11	8244.44	0.36	423217.29	665160.78	N 32	9 47.37 W 103.56 13.64
16714.00	89.00	90.59	8983.37	8154.71	65.04	8154.44	0.62	423218.28	665121.81	N 32	9 47.38 W 103.56 14.73
16620.00	88.56	90.29	8981.37	8064.74	66.75	8064.49	0.21	423218.93	665082.84	N 32	9 47.39 W 103.56 15.84
16525.00	88.76	90.19	8979.35	7974.77	66.75	7974.50	0.43	423219.27	665043.87	N 32	9 47.40 W 103.56 16.93
16431.00	88.83	90.42	8977.46	7884.80	67.58	7884.52	0.11	423220.90	665004.90	N 32	9 47.41 W 103.56 18.03
16336.00	88.83	90.21	8975.52	7794.83	68.10	7794.55	0.36	423220.96	664965.93	N 32	9 47.42 W 103.56 19.14
16241.00	88.73	90.17	8973.78	7704.86	68.42	7704.58	0.07	423221.08	664926.96	N 32	9 47.43 W 103.56 20.24
16146.00	89.14	90.72	8971.93	7614.89	68.88	7614.61	0.22	423221.30	664887.99	N 32	9 47.44 W 103.56 21.34
16051.00	89.18	90.77	8969.90	7524.92	71.11	7524.64	1.22	423221.63	664849.02	N 32	9 47.45 W 103.56 22.45
15956.00	88.73	90.77	8967.97	7434.95	71.51	7434.67	0.71	423221.69	664810.05	N 32	9 47.45 W 103.56 23.55
15861.00	88.80	90.77	8965.94	7344.98	70.45	7344.70	1.92	423221.63	664771.08	N 32	9 47.45 W 103.56 24.65
15766.00	88.63	87.23	8963.91	7254.99	67.36	7254.71	0.49	423221.95	664732.11	N 32	9 47.46 W 103.56 25.75
15671.00	88.38	86.69	8961.92	7164.98	67.45	7164.70	1.06	423222.08	664693.14	N 32	9 47.47 W 103.56 26.86
15576.00	88.73	85.93	8959.94	7074.97	67.50	7074.69	0.17	423222.33	664654.17	N 32	9 47.48 W 103.56 27.96
15481.00	88.66	85.07	8957.96	6984.96	68.44	6984.68	0.76	423222.77	664615.20	N 32	9 47.49 W 103.56 30.06
15386.00	88.11	85.61	8955.93	6894.95	70.03	6894.75	0.86	423223.03	664576.23	N 32	9 47.50 W 103.56 31.16
15291.00	88.76	86.08	8953.91	6804.94	71.29	6804.74	1.14	423223.48	664537.26	N 32	9 47.51 W 103.56 32.26
15196.00	89.04	87.11	8951.88	6714.93	72.71	6714.71	0.82	423223.93	664498.29	N 32	9 47.52 W 103.56 33.36
15101.00	89.07	86.55	8949.85	6624.92	73.11	6624.71	0.45	423224.38	664459.32	N 32	9 47.53 W 103.56 34.46
15006.00	89.07	86.55	8947.82	6534.91	74.11	6534.69	0.13	423224.83	664420.35	N 32	9 47.54 W 103.56 35.56
14911.00	89.07	86.54	8945.79	6444.90	75.11	6444.68	0.71	423225.28	664381.38	N 32	9 47.55 W 103.56 36.66
14816.00	88.83	86.54	8943.76	6354.89	76.11	6354.67	0.36	423225.73	664342.41	N 32	9 47.56 W 103.56 37.76
14721.00	88.83	86.54	8941.73	6264.88	77.11	6264.66	0.36	423226.18	664303.44	N 32	9 47.57 W 103.56 38.86
14626.00	89.11	87.40	8939.70	6174.87	78.11	6174.65	1.27	423226.63	664264.47	N 32	9 47.58 W 103.56 39.96
14531.00	88.56	87.80	8937.67	6084.86	79.11	6084.64	0.35	423227.08	664225.50	N 32	9 47.59 W 103.56 41.06
14436.00	89.00	88.15	8935.64	5994.85	80.11	5994.63	0.20	423227.53	664186.53	N 32	9 47.60 W 103.56 42.16
14341.00	89.00	88.47	8933.61	5904.84	81.11	5904.62	0.20	423227.98	664147.56	N 32	9 47.61 W 103.56 43.26
14246.00	88.80	87.99	8931.58	5814.83	82.11	5814.61	0.19	423228.43	664108.59	N 32	9 47.62 W 103.56 44.36
14151.00	88.80	87.99	8929.55	5724.82	83.11	5724.60	0.13	423228.88	664069.62	N 32	9 47.63 W 103.56 45.46
14056.00	88.80	88.03	8927.52	5634.81	84.11	5634.59	0.20	423229.33	664030.65	N 32	9 47.64 W 103.56 46.56
13961.00	88.80	88.03	8925.49	5544.80	85.11	5544.58	0.64	423229.78	663991.68	N 32	9 47.65 W 103.56 47.66
13866.00	88.80	88.03	8923.46	5454.79	86.11	5454.57	1.13	423230.23	663952.71	N 32	9 47.66 W 103.56 48.76
13771.00	88.80	88.03	8921.43	5364.78	87.11	5364.56	0.67	423230.68	663913.74	N 32	9 47.67 W 103.56 49.86
13676.00	88.80	88.03	8919.40	5274.77	88.11	5274.55	0.28	423231.13	663874.77	N 32	9 47.68 W 103.56 50.96
13581.00	88.80	88.03	8917.37	5184.76	89.11	5184.54	0.28	423231.58	663835.80	N 32	9 47.69 W 103.56 52.06
13486.00	88.80	88.03	8915.34	5094.75	90.11	5094.53	0.67	423232.03	663796.83	N 32	9 47.70 W 103.56 53.16
13391.00	88.80	88.03	8913.31	5004.74	91.11	5004.52	0.28	423232.48	663757.86	N 32	9 47.71 W 103.56 54.26
13296.00	88.80	88.03	8911.28	4914.73	92.11	4914.51	1.12	423232.93	663718.89	N 32	9 47.72 W 103.56 55.36
13201.00	88.80	88.03	8909.25	4824.72	93.11	4824.50	0.28	423233.38	663679.92	N 32	9 47.73 W 103.56 56.46
13106.00	88.80	88.03	8907.22	4734.71	94.11	4734.49	0.73	423233.83	663640.95	N 32	9 47.74 W 103.56 57.56
13011.00	88.80	88.03	8905.19	4644.70	95.11	4644.48	0.83	423234.28	663601.98	N 32	9 47.75 W 103.56 58.66
12916.00	88.80	88.03	8903.16	4554.69	96.11	4554.47	0.46	423234.73	663563.01	N 32	9 47.76 W 103.56 59.76
12821.00	88.80	88.03	8901.13	4464.68	97.11	4464.46	0.93	423235.18	663524.04	N 32	9 47.77 W 103.56 60.86
12726.00	88.80	88.03	8899.10	4374.67	98.11	4374.45	0.46	423235.63	663485.07	N 32	9 47.78 W 103.56 61.96
12631.00	88.80	88.03	8897.07	4284.66	99.11	4284.44	0.83	423236.08	663446.10	N 32	9 47.79 W 103.56 63.06
12536.00	88.80	88.03	8895.04	4194.65	100.11	4194.43	0.46	423236.53	663407.13	N 32	9 47.80 W 103.56 64.16
12441.00	88.80	88.03	8893.01	4104.64	101.11	4104.42	0.83	423236.98	663368.16	N 32	9 47.81 W 103.56 65.26
12346.00	88.80	88.03	8890.98	4014.63	102.11	4014.41	0.46	423237.43	663329.19	N 32	9 47.82 W 103.56 66.36
12251.00	88.80	88.03	8888.95	3924.62	103.11	3924.40	0.83	423237.88	663290.22	N 32	9 47.83 W 103.56 67.46
12156.00	88.80	88.03	8886.92	3834.61	104.11	3834.39	0.46	423238.33	663251.25	N 32	9 47.84 W 103.56 68.56
12061.00	88.80	88.03	8884.89	3744.60	105.11	3744.38	0.83	423238.78	663212.28	N 32	9 47.85 W 103.56 69.66
11966.00	88.80	88.03	8882.86	3654.59	106.11	3654.37	0.46	423239.23	663173.31	N 32	9 47.86 W 103.56 70.76
11871.00	88.80	88.03	8880.83	3564.58	107.11	3564.36	0.83	423239.68	663134.34	N 32	9 47.87 W 103.56 71.86
11776.00	88.80	88.03	8878.80	3474.57	108.11	3474.35	0.46	423240.13	663095.37	N 32	9 47.88 W 103.56 72.96
11681.00	88.80	88.03	8876.77	3384.56	109.11	3384.34	0.83	423240.58	663056.40	N 32	9 47.89 W 103.56 74.06
11586.00	88.80	88.03	8874.74	3294.55	110.11	3294.33	0.46	423241.03	663017.43	N 32	9 47.90 W 103.56 75.16
11491.00	88.80	88.03	8872								

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	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 22H Gyro+MWD 0- 18,875'
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Corral Fly 02-01 State 22H Gyro+MWD 0- 18,875'
	1	26.500	390.150	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Corral Fly 02-01 State 22H Gyro+MWD 0- 18,875'
	1	390.150	18875.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Corral Fly 02-01 State 22H Gyro+MWD 0- 18,875'