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Intent ☐ As Drilled ☒

APR 23 2019

API # 30-015-44728		DISTRICT II-ARTESIA O.C.D.	
Operator Name: OXY USA Inc.		Property Name: Corral Fly 35-26 Federal Com	Well Number 33H

Kick Off Point (KOP)

UL C	Section 2	Township 25S	Range 29E	Lot	Feet 597	From N/S N	Feet 1945	From E/W W	County Eddy
Latitude 32.16489					Longitude -103.95741			NAD NAD83	

First Take Point (FTP)

UL N	Section 35	Township 24S	Range 29E	Lot	Feet 371	From N/S S	Feet 2239	From E/W W	County Eddy
Latitude 32.16754					Longitude -103.95645			NAD NAD83	

Last Take Point (LTP)

UL C	Section 26	Township 24S	Range 29E	Lot	Feet 386	From N/S N	Feet 2209	From E/W W	County Eddy
Latitude 32.19460					Longitude -103.95643			NAD NAD83	

Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

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)

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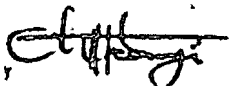
Schlumberger

DISTRICT II-ARTESIA O.C.D.

Well Reference:
2, 25S, 29E, Eddy NM
N 32.16463 W 103.96024

I, Chris Onyeke certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of January 17, 2019 through March 24, 2019, conduct or supervise the taking of the SlimPulse & Third Party Corrected surveys from a depth of 843.00 feet to a depth of 20947.00 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 33H Well (Original Hole) API No. 30-015-44728 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
Chris Onyeke
FS



Subscribed and Sworn to before me this 28th day of March (month) 2019 (yr)

My Commission expires:

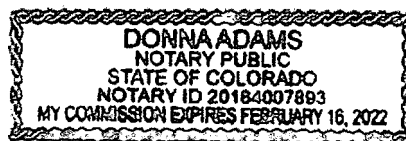
2-16-2022

Notary Public

D. Adams

(signature)

Adams County Colorado
(County State)



Schlumberger

OXY

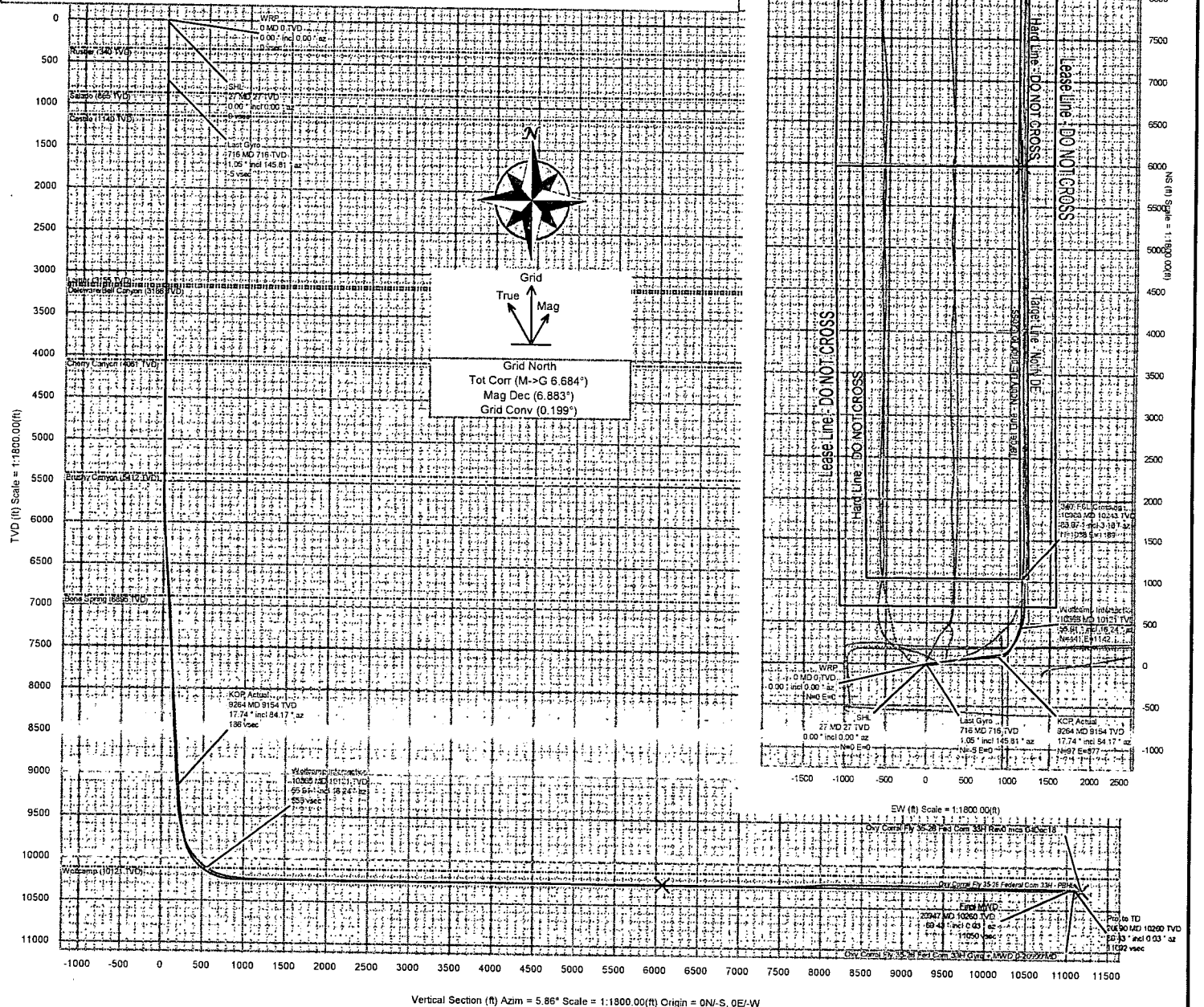


Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Corral Fly 35-26 Federal Com 33H	NM Eddy County (NAD 83)	Oxy Corral Fly 35-26 Federal Com 33H

Gravity & Magnetic Parameters	Surface Location	Miscellaneous
Model: IFR1 MagDec: 6.883° Dip: 58.887° Date: 08-Mar-2019 Gravity FS: 998.458mgm (9.80665 Based)	NAD83 New Mexico State Plane, Eastern Zone, US Feet Lat: N 32 9 52.68 Lon: W 103 57 35.87 Northing: 429826.88NUS Easting: 650784.77NUS Grid Conv: 0.1988° Scale Fact: 0.99992436	35-26 Federal Oxy Corral Fly 35-26 Fed Com 33H Gyro + MWD 0-20990' MD TVD Ref: RKB(3042.1ft above MSL) Plan: 0.00000000

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
WRP	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	716.20	1.05	145.81	716.14	-4.93	-4.98	0.26	1.21
KOP Actual	9264.00	17.74	84.17	9153.91	186.46	97.43	876.83	0.30
Wolfcamp Intersection	10367.88	55.91	16.24	10121.00	555.46	441.12	1142.26	17.16
340° FSL Crossing	10987.50	88.97	3.18	10242.90	1152.45	1038.50	1169.12	3.79
340° FNL Crossing	20914.00	89.70	0.64	10259.49	11016.78	10957.50	1141.53	2.02
Final MWD	20947.00	89.43	0.03	10259.74	11049.63	10990.49	1141.72	2.02
Proj to TD	20990.00	89.43	0.03	10260.17	11092.40	11033.49	1141.74	0.00



Oxy Corral Fly 35-26 Fed Com 33H Gyro + MWD 0-20990' MD Survey Geodetic Report (Def Survey)



Report Date: March 25, 2019 - 09:34 AM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Corral Fly 35-26 Federal Com 33H / Oxy Corral Fly 35-26 Federal Com 33H
Well: Oxy Corral Fly 35-26 Federal Com 33H
Borehole: Original Borehole
UWI / API#: Unknown / 30-015-44728
Survey Name: Oxy Corral Fly 35-26 Fed Com 33H Gyro + MWD 0-20990' MD
Survey Date: December 07, 2018
Tort / AHD / DDI / ERD Ratio: 313.213' / 11973.225 ft / 6.885' / 1.166
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 9' 52.65940", W 103° 57' 36.86913"
Location Grid N/E Y/X: N 423826.680 RUS, E 656784.770 RUS
CRS Grid Convergence Angle: 0.1986°
Grid Scale Factor: 0.99992436
Version / Patch: 2.10.753.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 5.861° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3040.100 ft above MSL
Seabed / Ground Elevation: 3013.600 ft above MSL
Magnetic Declination: 6.883°
Total Gravity Field Strength: 998.4577mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47914.100 nT
Magnetic Dip Angle: 59.887°
Declination Date: March 08, 2019
Magnetic Declination Model: IFR1
North Reference: Grid North
Grid Convergence Used: 0.1986°
Total Corr Mag North->Grid: 6.6844°
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 ° ' ")
WRP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	423826.68	656784.77	N 32° 9' 52.66"	W 103° 57' 36.87"
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	423826.68	656784.77	N 32° 9' 52.66"	W 103° 57' 36.87"
	105.20	0.40	328.06	105.20	0.22	0.23	-0.15	0.51	423826.91	656784.62	N 32° 9' 52.66"	W 103° 57' 36.87"
	160.20	0.34	281.21	160.20	0.38	0.43	-0.41	0.54	423827.11	656784.36	N 32° 9' 52.66"	W 103° 57' 36.87"
	246.20	1.02	215.68	246.19	-0.26	-0.14	-1.10	1.08	423826.54	656783.67	N 32° 9' 52.66"	W 103° 57' 36.88"
	341.20	0.94	208.48	341.18	-1.71	-1.52	-1.97	0.15	423825.16	656782.80	N 32° 9' 52.64"	W 103° 57' 36.89"
	435.20	0.68	171.86	435.17	-2.96	-2.75	-2.26	0.60	423823.93	656782.51	N 32° 9' 52.63"	W 103° 57' 36.90"
	530.20	0.84	159.46	530.16	-4.13	-3.96	-1.93	0.24	423822.72	656782.84	N 32° 9' 52.62"	W 103° 57' 36.89"
	624.20	0.93	77.81	624.15	-4.51	-4.44	-0.95	1.23	423822.24	656783.82	N 32° 9' 52.62"	W 103° 57' 36.88"
Last Gyro	716.20	1.05	145.81	716.14	-4.93	-4.98	0.26	1.21	423821.70	656785.03	N 32° 9' 52.61"	W 103° 57' 36.87"
	843.00	0.19	294.63	842.94	-5.75	-5.85	0.72	0.96	423820.83	656785.49	N 32° 9' 52.60"	W 103° 57' 36.86"
	935.00	0.50	143.87	934.94	-6.00	-6.11	0.82	0.73	423820.57	656785.59	N 32° 9' 52.60"	W 103° 57' 36.86"
	1119.00	0.17	131.87	1118.93	-6.76	-6.94	1.49	0.18	423819.74	656786.26	N 32° 9' 52.59"	W 103° 57' 36.85"
	1304.00	0.17	53.85	1303.93	-6.73	-6.97	1.92	0.12	423819.71	656786.69	N 32° 9' 52.59"	W 103° 57' 36.85"
	1489.00	0.17	175.74	1488.93	-6.82	-7.08	2.16	0.16	423819.60	656786.93	N 32° 9' 52.59"	W 103° 57' 36.84"
	1676.00	0.23	201.98	1675.93	-7.45	-7.70	2.04	0.06	423818.98	656786.81	N 32° 9' 52.58"	W 103° 57' 36.85"
	1770.00	0.18	241.52	1769.93	-7.72	-7.95	1.84	0.16	423818.73	656786.61	N 32° 9' 52.58"	W 103° 57' 36.85"
	1865.00	0.13	278.48	1864.93	-7.80	-8.00	1.60	0.11	423818.68	656786.37	N 32° 9' 52.58"	W 103° 57' 36.85"
	1959.00	0.20	209.63	1958.93	-7.94	-8.13	1.42	0.21	423818.55	656786.19	N 32° 9' 52.58"	W 103° 57' 36.85"
	2054.00	0.16	53.49	2053.93	-8.01	-8.20	1.44	0.37	423818.49	656786.21	N 32° 9' 52.58"	W 103° 57' 36.85"
	2148.00	0.09	22.46	2147.93	-7.85	-8.05	1.58	0.10	423818.63	656786.35	N 32° 9' 52.58"	W 103° 57' 36.85"
	2242.00	0.13	296.79	2241.93	-7.74	-7.93	1.51	0.16	423818.75	656786.28	N 32° 9' 52.58"	W 103° 57' 36.85"
	2337.00	0.22	81.08	2336.93	-7.65	-7.86	1.59	0.35	423818.82	656786.36	N 32° 9' 52.58"	W 103° 57' 36.85"
	2431.00	0.07	330.52	2430.93	-7.56	-7.78	1.74	0.27	423818.90	656786.51	N 32° 9' 52.58"	W 103° 57' 36.85"
	2526.00	0.10	151.61	2525.93	-7.58	-7.80	1.75	0.18	423818.88	656786.52	N 32° 9' 52.58"	W 103° 57' 36.85"
	2620.00	0.13	175.78	2619.93	-7.75	-7.98	1.80	0.06	423818.70	656786.57	N 32° 9' 52.58"	W 103° 57' 36.85"
	2715.00	0.11	288.04	2714.93	-7.84	-8.06	1.72	0.21	423818.62	656786.49	N 32° 9' 52.58"	W 103° 57' 36.85"
	2809.00	0.13	312.25	2808.93	-7.76	-7.96	1.56	0.06	423818.72	656786.33	N 32° 9' 52.58"	W 103° 57' 36.85"
	2904.00	0.19	110.45	2903.93	-7.73	-7.94	1.63	0.33	423818.74	656786.39	N 32° 9' 52.58"	W 103° 57' 36.85"
	2998.00	0.20	35.76	2997.93	-7.63	-7.86	1.87	0.25	423818.82	656786.64	N 32° 9' 52.58"	W 103° 57' 36.85"
	3093.00	0.26	283.45	3092.93	-7.46	-7.68	1.75	0.40	423819.00	656786.52	N 32° 9' 52.58"	W 103° 57' 36.85"
	3187.00	0.13	331.67	3186.93	-7.34	-7.53	1.50	0.21	423819.15	656786.27	N 32° 9' 52.58"	W 103° 57' 36.85"
	3281.00	0.19	308.06	3280.93	-7.17	-7.34	1.32	0.09	423819.34	656786.09	N 32° 9' 52.59"	W 103° 57' 36.85"
	3375.00	0.18	222.50	3374.93	-7.21	-7.36	1.10	0.27	423819.32	656785.87	N 32° 9' 52.59"	W 103° 57' 36.86"
	3470.00	0.17	102.23	3469.92	-7.34	-7.50	1.14	0.32	423819.18	656785.91	N 32° 9' 52.59"	W 103° 57' 36.86"
	3564.00	0.22	213.79	3563.92	-7.52	-7.68	1.17	0.34	423819.00	656785.94	N 32° 9' 52.58"	W 103° 57' 36.86"
	3658.00	0.17	307.18	3657.92	-7.60	-7.74	0.96	0.30	423818.94	656785.73	N 32° 9' 52.58"	W 103° 57' 36.86"
	3753.00	0.21	40.24	3752.92	-7.39	-7.52	0.96	0.29	423819.16	656785.73	N 32° 9' 52.58"	W 103° 57' 36.86"
	3847.00	0.19	81.06	3846.92	-7.20	-7.37	1.23	0.15	423819.31	656786.00	N 32° 9' 52.59"	W 103° 57' 36.86"
	3941.00	0.22	245.48	3940.92	-7.26	-7.42	1.22	0.43	423819.26	656785.99	N 32° 9' 52.59"	W 103° 57' 36.86"
	4036.00	0.19	291.33	4035.92	-7.31	-7.44	0.90	0.17	423819.24	656785.67	N 32° 9' 52.59"	W 103° 57' 36.86"
	4130.00	0.18	71.88	4129.92	-7.20	-7.33	0.90	0.17	423819.35	656785.67	N 32° 9' 52.59"	W 103° 57' 36.86"
	4225.00	0.17	178.96	4224.92	-7.28	-7.43	1.04	0.30	423819.25	656785.81	N 32° 9' 52.59"	W 103° 57' 36.86"
	4319.00	0.19	158.77	4318.92	-7.56	-7.71	1.17	0.07	423818.97	656785.87	N 32° 9' 52.58"	W 103° 57' 36.86"
	4414.00	0.17	4.24	4413.92	-7.56	-7.72	1.34	0.37	423818.96	656785.94	N 32° 9' 52.58"	W 103° 57' 36.86"
	4502.00	0.17	32.30	4501.92	-7.03	-7.21	1.64	0.04	423819.47	656786.11	N 32° 9' 52.59"	W 103° 57' 36.85"
	4790.00	0.13	135.69	4789.92	-6.92	-7.12	1.64	0.13	423819.56	656786.41	N 32° 9' 52.59"	W 103° 57' 36.85"
	4885.00	0.20	205.38	4884.92	-7.14	-7.35	1.64	0.21	423819.33	656786.41	N 32° 9' 52.59"	W 103° 57' 36.85"
	5074.00	0.18	294.81	5073.92	-7.36	-7.52	1.23	0.14	423819.16	656786.00	N 32° 9' 52.58"	W 103° 57' 36.86"
	5168.00	0.16	289.14	5167.92	-7.28	-7.42	0.97	0.03	423819.26	656785.74	N 32° 9' 52.59"	W 103° 57' 36.86"
	5262.00	0.34	127.20	5261.92	-7.40	-7.54	1.07	0.53	423819.14	656785.84	N 32° 9' 52.58"	W 103° 57' 36.86"
	5356.00	0.85	96.80	5355.91	-7.55	-7.80	1.99	0.62	423818.89	656786.76	N 32° 9' 52.58"	W 103° 57' 36.85"
	5451.00	2.09	95.19	5450.88	-7.54	-8.04	4.41	1.31	423818.65	656789.18	N 32° 9' 52.58"	W 103° 57' 36.82"
	5545.00	3.14	98.26	5544.78	-7.63	-8.56	8.67	1.13	423818.12	656793.44	N 32° 9' 52.57"	W 103° 57' 36.77"
	5639.00	4.87	95.21	5638.55	-7.69	-9.29	15.19	1.85	423817.39	656799.96	N 32° 9' 52.57"	W 103° 57' 36.69"
	5734.00	7.50	88.84	5732.99	-6.89	-9.53	25.40	2.86	423817.15	656801.17	N 32° 9' 52.56"	W 103° 57' 36.57"
	5828.00	9.99	88.19	5825.89	-5.05	-9.15	39.69	2.65	423817.53	656824.46	N 32° 9' 52.57"	W 103° 57' 36.19"
	5922.00	12.60	85.29	5918.06	-2.08	-8.05	58.06	2.84	423818.63	656842.83	N 32° 9' 52.60"	W 103° 57' 35.94"
	6017.00	13.71	80.64	6010.57	2.78	-5.37	79.50	1.61	423821.31	656864.26	N 32° 9' 52.60"	W 103° 57' 35.94"
	6111.00	13.49	75.72	6101.94	9.48	-0.85	101.11	1.25	423825.83	656885.88	N 32° 9' 52.57"	W 103° 57' 35.69"
	6205.00	13.62	76.13	6193.32	16.99	4.50	122.48	0.17	423831.18	656907.24	N 32° 9' 52.70"	W 103° 57' 35.44"
	6300.00	13.65	76.88	6285.64	24.41	9.73	144.26	0.19	423836.41	656929.02	N 32° 9' 52.70"	W 103° 57' 35.19"
	6395.00	13.57	76.07	6377.97	31.83	14.96	165.99	0.22	423841.64	656950.75	N 32° 9' 52.80"	W 103° 57' 34.94"
	6489.00	13.72	77.30	6469.32	39.11	20.06	187.57	0.35	423846.74	656972.33	N 32° 9' 52.85"	W 103° 57' 34.69"
	6584.00	13.67	76.32	6561.62	46.45	25.19	209.47	0.25	423851.87	656994.22	N 32° 9' 52.90"	W 103° 57' 34.43"
	6678.00	13.41	76.39	6653.01	53.80	30.39	230.86	0.28	423857.06	657015.61	N 32° 9' 53.26"	W 103° 57' 34.18"
	6772.00	13.44	77.11	6744.44	60.95	35.39	252.10	0.18	423862.07	657036.85	N 32° 9' 53.05"	W 103° 57' 33.68"
	6867.00	13.47	76.34	6836.83	68.19	40.46	273.61	0.19	423867.14	657058.36	N 32° 9' 53.10"	W 103° 57' 33.44"
	6961.00	13.49	77.46	6928.24	75.31	45.43	294.95	0.28	423872.11	657079.70	N 32° 9' 53.14"	W 103° 57' 33.18"
	7055.00	14.45	80.40	7019.46	81.90	49.77	317.22	1.27	423876.44	657101.97	N 32° 9' 53.17"	W 103° 57' 32.90"
	7150.00	14.52	85.33	7111.44	87.24	52.71	340.78	1.30	423879.39	657125.52	N 32° 9' 53.17"	W 103° 57' 32.63"
	7244.00	14.18	84.56	7202.51	91.65	54.76	363.98	0.41	423881.44	657148.73	N 32° 9' 53.21"	W 103° 57' 32.37

Comments	MD (ft)	Incl (°)	Azim (°)	Grid (ft)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	7905.00	13.27	85.26	7846.76	121.98	70.17	510.92	1.22	423896.85	657295.65	N 32° 9' 53.34"	W 103° 57' 30.92"	
	7974.00	14.40	92.03	7913.76	124.01	70.52	527.39	2.86	423897.20	657312.12	N 32° 9' 53.34"	W 103° 57' 30.73"	
	8068.00	14.23	95.09	8004.84	124.94	69.08	550.58	0.82	423895.76	657335.30	N 32° 9' 53.32"	W 103° 57' 30.46"	
	8163.00	13.57	93.12	8097.06	125.63	67.44	573.33	0.85	423894.12	657358.06	N 32° 9' 53.31"	W 103° 57' 30.20"	
	8339.00	11.89	74.83	8268.86	133.02	70.98	611.18	2.50	423897.66	657395.90	N 32° 9' 53.34"	W 103° 57' 29.76"	
	8446.00	13.50	79.64	8373.29	140.40	76.07	633.93	1.95	423902.74	657418.65	N 32° 9' 53.39"	W 103° 57' 29.49"	
	8540.00	16.18	82.95	8464.14	146.40	79.65	657.73	2.99	423906.32	657442.44	N 32° 9' 53.42"	W 103° 57' 29.21"	
	8635.00	17.76	87.02	8555.01	151.58	82.03	685.33	2.08	423908.70	657470.05	N 32° 9' 53.45"	W 103° 57' 28.89"	
	8729.00	16.62	86.24	8644.81	156.03	83.65	713.07	1.24	423910.33	657497.78	N 32° 9' 53.46"	W 103° 57' 28.57"	
	8792.00	17.73	85.52	8705.00	159.26	84.99	731.62	1.79	423911.67	657516.33	N 32° 9' 53.48"	W 103° 57' 28.35"	
	8886.00	18.83	88.06	8794.25	163.89	86.63	761.05	1.44	423913.30	657545.76	N 32° 9' 53.49"	W 103° 57' 28.01"	
	8981.00	17.85	84.77	8884.43	168.77	88.47	790.88	1.50	423915.15	657575.58	N 32° 9' 53.51"	W 103° 57' 27.67"	
	9075.00	17.53	83.72	8973.99	174.52	91.33	819.29	0.48	423918.01	657604.00	N 32° 9' 53.53"	W 103° 57' 27.33"	
	9169.00	18.02	83.95	9063.50	180.50	94.41	847.82	0.53	423921.09	657632.53	N 32° 9' 53.56"	W 103° 57' 27.00"	
	9264.00	17.74	84.17	9153.91	186.46	97.43	876.83	0.30	423924.11	657661.54	N 32° 9' 53.59"	W 103° 57' 26.66"	
	9358.00	14.64	86.13	9244.17	191.37	99.69	902.94	3.35	423926.36	657687.64	N 32° 9' 53.57"	W 103° 57' 26.36"	
	9447.00	15.41	89.07	9426.80	206.74	110.28	950.25	2.37	423936.95	657734.94	N 32° 9' 53.52"	W 103° 57' 25.81"	
	9545.00	15.23	43.50	9608.33	237.58	137.14	990.62	3.57	423963.81	657775.31	N 32° 9' 53.98"	W 103° 57' 25.34"	
	9647.00	15.83	39.25	9678.66	253.49	151.81	1003.52	1.76	423978.48	657788.21	N 32° 9' 54.13"	W 103° 57' 25.19"	
	9747.00	25.44	34.79	9827.30	301.60	196.76	1036.81	6.12	424023.42	657821.50	N 32° 9' 54.57"	W 103° 57' 24.80"	
	9848.00	36.52	29.58	9908.63	345.49	238.23	1062.49	11.99	424064.90	657847.18	N 32° 9' 54.98"	W 103° 57' 24.50"	
	9949.00	42.11	21.70	9982.15	402.09	292.49	1088.26	7.88	424119.15	657872.94	N 32° 9' 55.52"	W 103° 57' 24.20"	
	10050.00	48.54	20.22	10048.20	466.60	354.89	1112.11	6.93	424181.54	657896.79	N 32° 9' 56.13"	W 103° 57' 23.92"	
	10151.00	52.99	19.14	10108.28	538.04	424.16	1136.86	4.77	424250.81	657921.54	N 32° 9' 56.82"	W 103° 57' 23.63"	
Wolfcamp Intersection	10367.88	55.91	16.24	10121.00	555.46	441.12	1142.26	17.16	424267.77	657926.94	N 32° 9' 56.98"	W 103° 57' 23.46"	
	10441.00	66.07	7.80	10156.46	618.89	503.55	1155.32	17.16	424330.19	657940.00	N 32° 9' 57.60"	W 103° 57' 23.15"	
	10535.00	71.74	2.09	10190.31	706.50	590.85	1162.78	8.27	424417.48	657947.46	N 32° 9' 58.47"	W 103° 57' 23.32"	
	10630.00	78.30	1.10	10214.85	797.96	682.53	1165.33	6.98	424509.16	657950.01	N 32° 9' 59.37"	W 103° 57' 23.29"	
	10725.00	85.29	0.54	10228.40	891.57	776.49	1166.67	7.38	424603.11	657951.35	N 32° 10' 0.30"	W 103° 57' 23.27"	
	10820.00	86.43	359.25	10235.26	985.81	871.24	1166.50	1.80	424697.85	657951.18	N 32° 10' 1.24"	W 103° 57' 23.26"	
	10920.00	87.00	0.46	10239.78	1064.24	950.11	1166.31	1.68	424776.72	657950.99	N 32° 10' 2.02"	W 103° 57' 23.26"	
340' FSL Crossing	10987.50	88.97	3.18	10242.90	1152.45	1038.50	1169.12	3.79	424865.10	657953.80	N 32° 10' 2.90"	W 103° 57' 23.23"	
	10992.00	89.07	3.32	10242.97	1156.95	1042.99	1169.37	3.79	424869.59	657954.05	N 32° 10' 2.94"	W 103° 57' 23.22"	
	11086.00	89.48	2.89	10244.16	1250.83	1136.84	1174.47	0.63	424963.44	657959.14	N 32° 10' 3.87"	W 103° 57' 23.16"	
	11179.00	89.48	3.21	10245.01	1343.72	1229.71	1179.41	0.34	425056.29	657964.09	N 32° 10' 4.79"	W 103° 57' 23.10"	
	11305.00	89.07	3.64	10246.60	1469.59	1355.47	1186.94	0.47	425182.05	657971.62	N 32° 10' 6.03"	W 103° 57' 23.01"	
	11400.00	91.13	3.64	10246.44	1564.52	1400.28	1192.97	2.17	425276.84	657977.65	N 32° 10' 6.97"	W 103° 57' 22.93"	
	11494.00	89.45	2.46	10245.96	1658.40	1544.14	1197.97	2.18	425370.70	657982.65	N 32° 10' 7.90"	W 103° 57' 22.87"	
	11684.00	89.21	358.06	10248.18	1847.43	1734.07	1198.83	2.32	425560.62	657983.51	N 32° 10' 9.78"	W 103° 57' 22.85"	
	11779.00	89.31	359.42	10249.41	1941.69	1829.04	1196.75	1.44	425655.58	657981.42	N 32° 10' 10.72"	W 103° 57' 22.87"	
	11873.00	88.93	358.80	10250.85	2035.02	1923.02	1195.29	0.77	425749.55	657979.96	N 32° 10' 11.65"	W 103° 57' 22.89"	
	11968.00	89.45	359.55	10252.20	2129.37	2018.00	1193.01	0.96	425844.52	657978.60	N 32° 10' 12.59"	W 103° 57' 22.90"	
	12063.00	89.41	359.35	10253.14	2223.77	2112.99	1193.01	0.21	425939.50	657977.68	N 32° 10' 13.53"	W 103° 57' 22.90"	
	12251.00	90.72	359.17	10252.83	2410.52	2300.97	1190.58	0.70	426127.47	657975.26	N 32° 10' 15.39"	W 103° 57' 22.93"	
	12346.00	90.96	356.30	10251.54	2504.54	2395.87	1186.82	3.03	426222.37	657971.50	N 32° 10' 16.33"	W 103° 57' 22.97"	
	12534.00	90.13	357.84	10249.75	2690.32	2583.61	1177.22	0.93	426410.09	657961.89	N 32° 10' 18.18"	W 103° 57' 23.07"	
	12629.00	89.93	1.17	10249.70	2784.72	2678.60	1176.40	3.51	426505.07	657961.07	N 32° 10' 19.12"	W 103° 57' 23.07"	
	12723.00	90.27	358.98	10249.53	2878.24	2772.59	1176.52	2.36	426599.05	657961.20	N 32° 10' 20.05"	W 103° 57' 23.07"	
	12913.00	88.45	358.70	10251.66	3066.79	2962.53	1172.67	0.97	426788.98	657957.35	N 32° 10' 21.93"	W 103° 57' 23.11"	
	13102.00	90.48	358.66	10253.42	3254.29	3151.46	1168.32	1.07	426977.90	657953.00	N 32° 10' 23.80"	W 103° 57' 23.15"	
	13197.00	89.76	359.31	10253.22	3348.61	3246.45	1166.64	1.02	427072.87	657951.32	N 32° 10' 24.74"	W 103° 57' 23.17"	
	13291.00	90.31	0.32	10253.16	3442.08	3340.44	1166.33	1.22	427166.87	657951.01	N 32° 10' 25.67"	W 103° 57' 23.17"	
	13386.00	90.17	359.50	10252.77	3536.57	3435.44	1166.18	0.88	427261.86	657950.86	N 32° 10' 26.61"	W 103° 57' 23.16"	
	13481.00	90.20	358.85	10252.46	3630.92	3530.43	1164.82	0.68	427356.84	657949.49	N 32° 10' 27.55"	W 103° 57' 23.17"	
	13575.00	90.55	359.61	10251.84	3724.29	3624.42	1163.55	0.89	427450.82	657948.23	N 32° 10' 28.48"	W 103° 57' 23.19"	
	13620.00	90.00	359.59	10251.63	3769.02	3669.42	1163.24	1.22	427495.81	657947.92	N 32° 10' 29.41"	W 103° 57' 23.19"	
	13669.00	90.17	359.45	10251.56	3817.72	3718.42	1162.83	0.45	427544.81	657947.51	N 32° 10' 29.41"	W 103° 57' 23.19"	
	13714.00	89.96	359.57	10251.50	3862.45	3763.42	1162.44	0.54	427589.80	657947.12	N 32° 10' 29.86"	W 103° 57' 23.19"	
	13763.00	90.20	359.55	10251.44	3911.15	3812.41	1162.07	0.49	427638.80	657946.75	N 32° 10' 30.34"	W 103° 57' 23.20"	
	13808.00	89.75	359.30	10251.46	3955.87	3857.41	1161.61	1.14	427683.79	657946.29	N 32° 10' 30.79"	W 103° 57' 23.20"	
	13858.00	90.24	358.97	10251.46	4005.52	3907.41	1160.86	1.18	427733.78	657945.54	N 32° 10' 31.28"	W 103° 57' 23.21"	
	13905.00	89.48	359.30	10251.57	4052.20	3954.40	1160.15	1.76	427780.77	657944.83	N 32° 10' 31.75"	W 103° 57' 23.21"	
	13953.00	90.68	359.36	10251.51	4099.88	4002.40	1159.59	2.50	427828.76	657944.27	N 32° 10' 32.22"	W 103° 57' 23.22"	
	14000.00	89.96	359.04	10251.24	4146.57	4049.39	1158.93	1.68	427875.76	657943.61	N 32° 10' 32.69"	W 103° 57' 23.22"	
	14048.00	90.31	359.61	10251.13	4194.25	4097.39	1158.37	1.39	427923.75	657943.05	N 32° 10' 33.16"	W 103° 57' 23.23"	
	14095.00	90.65	358.62	10250.74	4240.93	4144.38	1157.64	2.23	427970.74	657942.32	N 32° 10' 33.63"	W 103° 57' 23.23"	
	14143.00	88.59	358.81	10251.06	4288.55	4192.36	1156.57	4.31	428018.72	657941.25	N 32° 10' 34.10"	W 103° 57' 23.24"	
	14190.00	87.24	358.65	10252.77	4335.15	4239.32	1155.52	2.89	428065.67	657940.20	N 32° 10' 34.57"	W 103° 57' 23.25"	
	14238.00	89.93	358.19	10253.95	4382.73	4287.28	1154.20	5.69	428113.63	657938.88	N 32° 10' 35.04"	W 103° 57' 23.27"	
	14333.00	89.96	359.45	10254.04	4477.01	4382.26	1152.24	0.33	428208.60	657936.93	N 32° 10' 35.98"	W 103° 57' 23.29"	
	14522.00	90.06	1.06	10254.01	4665.10	4571.25	1153.09	0.85	428397.58	657937.77	N 32° 10' 37.85"	W 103° 57' 23.27"	
	14617.00	90.06	0.31	10253.91	4759.71	4666.24	1154.22	0.79	428492.56	657938.90	N 32° 10' 38.79"	W 103° 57' 23.25"	
	14807.00	89.45	358.13	10254.72	4948.43	4856.21	1151.64	1.19	428682.51	657936.32	N 32° 10' 40.67"	W 103° 57' 23.27"	
	14901.00	89.72	357.92	10255.40	5041.55	4950.15	11						

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 ° ' ")
	18209.00	89.77	359.14	10235.28	8326.65	8254.43	1131.79	0.74	432080.47	657916.47	N 32 11 14.30	W 103 57 23.37
	18304.00	90.32	359.81	10235.21	8421.26	8349.43	1130.92	0.91	432175.46	657915.60	N 32 11 15.24	W 103 57 23.37
	18398.00	90.25	359.38	10234.74	8514.70	8443.42	1130.26	0.46	432269.45	657914.94	N 32 11 16.17	W 103 57 23.38
	18493.00	89.50	359.09	10234.95	8609.07	8538.41	1128.99	0.85	432364.43	657913.67	N 32 11 17.11	W 103 57 23.39
	18587.00	89.84	2.00	10235.49	8702.65	8632.40	1129.88	3.12	432458.41	657914.57	N 32 11 18.04	W 103 57 23.37
	18682.00	90.49	2.37	10235.22	8797.45	8727.33	1133.51	0.79	432553.33	657918.19	N 32 11 18.98	W 103 57 23.33
	18777.00	89.46	2.16	10235.26	8892.26	8822.25	1137.25	1.11	432648.25	657921.94	N 32 11 19.92	W 103 57 23.28
	18872.00	89.01	0.67	10236.53	8986.97	8917.21	1139.61	1.64	432743.20	657924.29	N 32 11 20.86	W 103 57 23.25
	18966.00	88.71	0.00	10238.40	9080.51	9011.19	1140.16	0.78	432837.17	657924.84	N 32 11 21.79	W 103 57 23.24
	19061.00	89.46	4.65	10239.91	9175.29	9106.07	1144.01	4.96	432932.05	657928.69	N 32 11 22.73	W 103 57 23.19
	19155.00	90.22	3.11	10240.18	9269.23	9199.85	1150.37	1.83	433025.82	657935.05	N 32 11 23.65	W 103 57 23.11
	19250.00	90.46	359.40	10239.61	9363.91	9294.81	1152.45	3.91	433120.77	657934.69	N 32 11 24.59	W 103 57 23.08
	19345.00	89.15	357.66	10239.94	9458.12	9389.77	1150.01	2.29	433215.73	657934.69	N 32 11 25.53	W 103 57 23.11
	19440.00	89.05	0.83	10241.43	9552.47	9484.74	1148.76	3.34	433310.69	657933.44	N 32 11 26.47	W 103 57 23.12
	19534.00	88.57	357.95	10243.38	9645.84	9578.71	1147.76	3.11	433404.64	657932.44	N 32 11 27.40	W 103 57 23.13
	19628.00	89.39	358.77	10245.06	9739.02	9672.65	1145.07	1.23	433498.58	657929.75	N 32 11 28.33	W 103 57 23.15
	19723.00	87.81	357.05	10247.38	9833.07	9767.55	1141.61	2.46	433593.48	657928.29	N 32 11 29.27	W 103 57 23.19
	19818.00	87.02	356.20	10251.66	9926.74	9862.29	1136.02	1.22	433688.20	657920.70	N 32 11 30.21	W 103 57 23.25
	19912.00	88.15	358.08	10255.62	10019.57	9956.08	1131.34	2.33	433781.99	657916.02	N 32 11 31.14	W 103 57 23.30
	20007.00	89.74	359.25	10257.37	10113.80	10051.04	1129.12	2.08	433876.94	657913.81	N 32 11 32.08	W 103 57 23.32
	20196.00	90.39	0.77	10257.16	10301.81	10240.03	1129.16	0.87	434065.92	657913.84	N 32 11 33.95	W 103 57 23.32
	20291.00	90.18	4.57	10256.68	10396.64	10334.91	1133.58	4.01	434160.79	657918.26	N 32 11 34.89	W 103 57 23.26
	20386.00	90.29	1.99	10256.29	10491.54	10429.75	1139.02	2.72	434255.62	657923.70	N 32 11 35.82	W 103 57 23.19
	20480.00	89.84	2.56	10256.19	10585.35	10523.67	1142.75	0.77	434349.53	657927.43	N 32 11 36.75	W 103 57 23.15
	20575.00	89.67	0.70	10256.59	10680.09	10618.63	1145.45	1.97	434444.48	657930.13	N 32 11 37.69	W 103 57 23.11
	20669.00	88.88	357.72	10257.78	10773.44	10712.60	1144.15	3.28	434538.45	657928.83	N 32 11 38.62	W 103 57 23.12
	20764.00	89.50	358.06	10259.13	10867.51	10807.52	1140.66	0.74	434633.37	657925.34	N 32 11 39.56	W 103 57 23.16
	20859.00	90.15	1.66	10259.42	10961.97	10902.51	1140.42	3.85	434728.34	657925.11	N 32 11 40.50	W 103 57 23.16
340' FNL Crossing	20914.00	89.70	0.64	10259.49	11016.78	10957.50	1141.53	2.02	434783.32	657926.21	N 32 11 41.05	W 103 57 23.14
Final MWD	20947.00	89.43	0.03	10259.74	11049.63	10990.49	1141.72	2.02	434816.32	657926.40	N 32 11 41.37	W 103 57 23.14
Proj to TD	20990.00	89.43	0.03	10260.17	11092.40	11033.49	1141.74	0.00	434859.32	657926.43	N 32 11 41.80	W 103 57 23.14

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 35-26 Fed Com 33H Gyro + MWD 0-20990MD
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Corral Fly 35-26 Fed Com 33H Gyro + MWD 0-20990MD
	1	26.500	716.200	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Corral Fly 35-26 Fed Com 33H Gyro + MWD
	1	716.200	7905.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Corral Fly 35-26 Fed Com 33H Gyro + MWD
	1	7905.000	9808.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Corral Fly 35-26 Fed Com 33H Gyro + MWD
	1	9808.000	20990.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Corral Fly 35-26 Fed Com 33H Gyro + MWD

...Original Borehole\Oxy Corral Fly 35-26 Fed Com 33H Gyro + MWD 0-20990MD