

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

July 7, 2019

OXY USA WTP LIMITED PARTNERSHIP
5 Greenway Plaza, Suite 110
Houston, Texas 77046-0521

Re:

9, 19S, 29E, Eddy NM
N 32.67197 W 104.08654

CLIENT: OXY USA WTP LIMITED PARTNERSHIP
WELL: Turkey Track 8-7 State 34H
FIELD: Bone Spring

RIG: Pioneer 82
COUNTY: Eddy
API NO: 30-015-44160
JOB NO: 19MLH0209

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>
Cody Jacks FE	Turkey Track 8-7 State 34H Original Hole	320.00 Ft to 19329.00 Ft	May 28, 2019 to July 4, 2019	TelePacer/SlimPulse Third Party Corrected

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

Andrew Salomon
Field Service Manager

Schlumberger-Private

Oilfield Services, Confidential U.S. & Canada
Schlumberger Drilling and Measurements
Drilling Group
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7220 W I-H 20
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Well Reference:

9, 19S, 29E, Eddy NM
N 32.67197 W 104.08654

I, Cody Jacks, certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of May 28, 2019 through July 04, 2019, conduct or supervise the taking of the TelePacer/SlimPulse & Third Party Corrected surveys from a depth of 320.00 feet to a depth of 19329.00 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 WTP LIMITED PARTNERSHIP for the Turkey Track 8-7 State 34H Well (Original Hole) API No. 30-015-44160 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
Cody Jacks
FE

Cody Jacks

Subscribed and Sworn to before me this 1 day of August (month) 2019 (yr)

My Commission expires:

6/14/2023

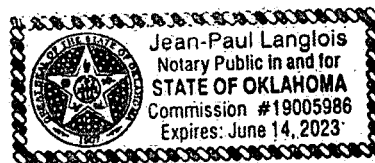
Jean-Paul Langlois

(signature)

Notary Public

Comanche Oklahoma

(County State)



Schlumberger

OXY

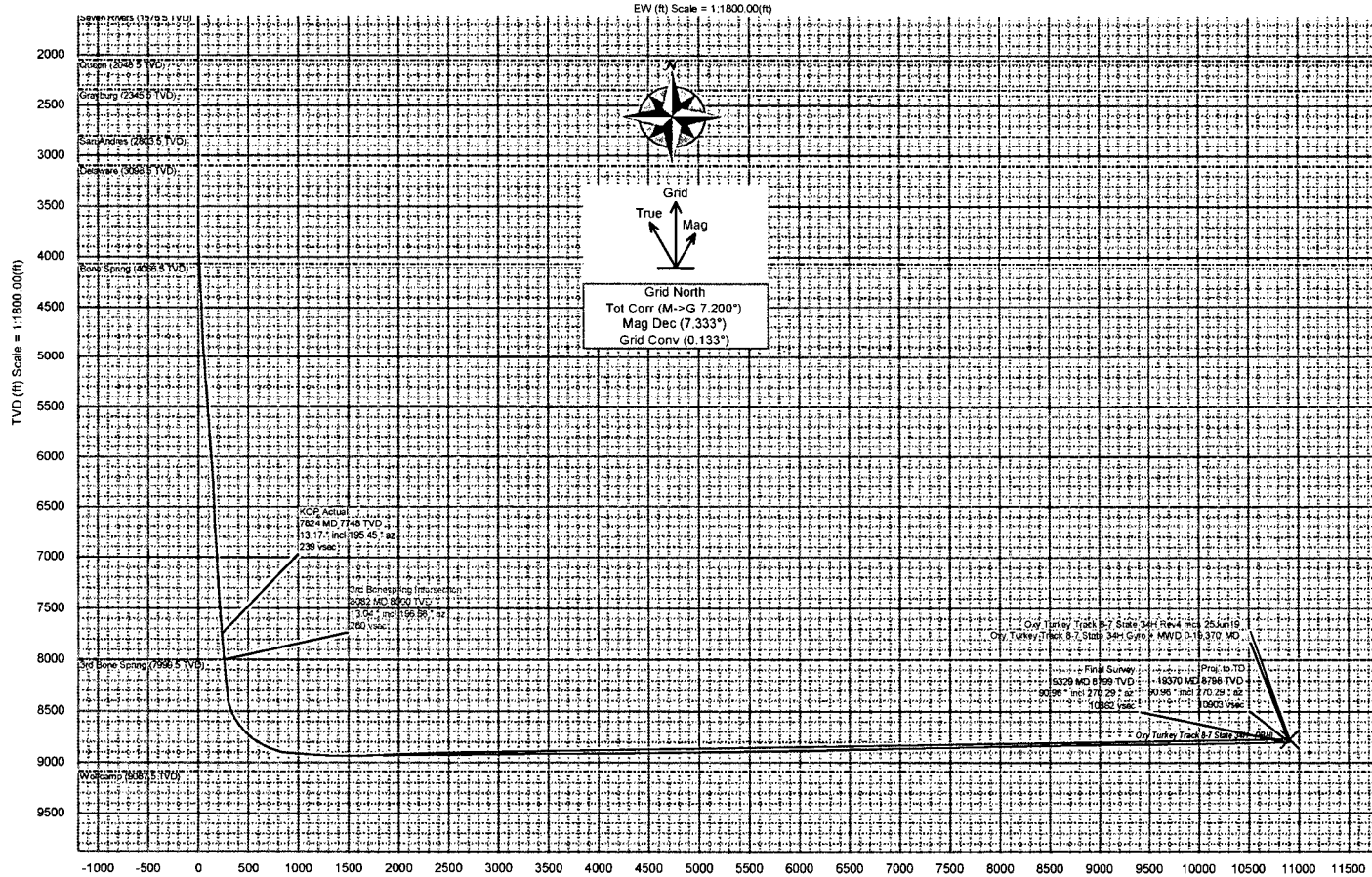
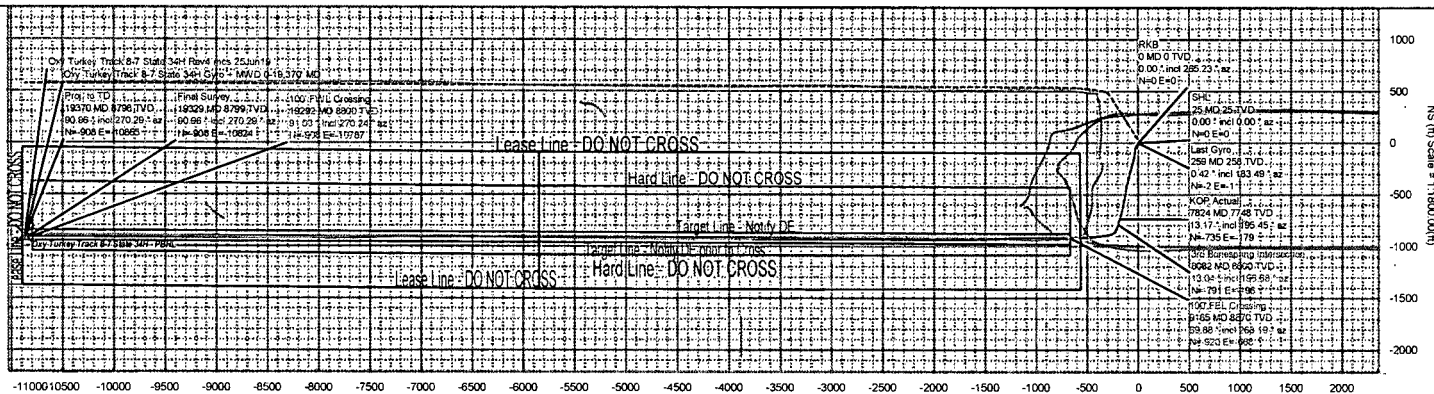


Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Turkey Track 8-7 State 34H	NM Eddy County (NAD 83)	Oxy Turkey Track 8-7 State 34H

Gravity & Magnetic Parameters	Surface Location	Miscellaneous
Model: IFR1 Dip: 60.613° Date: 17-Jun-2019	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Oxy Turkey Track TVD Ref: RKB= 25(3406.4ft above MSL)
MagDec: 7.333° FS: 48027.1nT Gravity FS: 998.613mgal (9.80665 Based)	Lat: N 32 40 19.10 Northing: 608283.33NUS Grid Conv: 0.1332°	Slot: Oxy Turkey Track 8-7 State 34H
	Lon: W 104 5 11.63 Easting: 617278.57NUS Scale Fact: 0.9999167	Plan: Oxy Turkey Track 8-7 State 34H Gyro + MWD 0.19370° MD

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)S(-)	E(+)W(-)	DLS
RKB	0.00	0.00	265.23	0.00	0.00	0.00	0.00	
SHL	25.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00
Last Gyro	258.50	0.42	183.49	258.49	0.89	-1.59	-0.76	1.86
KOP Actual	7824.00	13.17	195.45	7748.24	238.72	-735.44	-179.00	0.71
3rd Bonespring Intersection	8081.97	13.04	196.68	7999.50	260.43	-791.26	-196.19	1.13
100' FEL Crossing	9164.80	69.88	268.19	8870.27	740.76	-920.10	-667.54	4.10
100' FWL Crossing	19291.87	91.03	270.24	8799.53	10825.24	-908.14	-10787.10	0.23
Final Survey	19329.00	90.96	270.29	8798.89	10862.23	-907.97	-10824.23	0.23
Proj. to TD	19370.00	90.96	270.29	8798.20	10903.07	-907.76	-10865.22	0.00



Vertical Section (ft) Azim = 265.30° Scale = 1:1800.00(ft) Origin = 0N-S, 0E-W

Oxy Turkey Track 8-7 State 34H Gyro + MWD 0-19370' MD Survey Geodetic Report

(Def Survey)



Report Date: July 05, 2019 - 11:00 AM
 Client: OXY
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Oxy Turkey Track 8-7 State 34H / Oxy Turkey Track 8-7 State 34H
 Well: Oxy Turkey Track 8-7 State 34H
 Borehole: Original Borehole
 UWI / API#: Unknown / 30-015-44160
 Survey Name: Oxy Turkey Track 8-7 State 34H Gyro + MWD 0-19,370' MD
 Survey Date: May 21, 2019
 Tort / AHD / DDI / ERD Ratio: 177.100° / 11548.767 ft / 6.647 / 1.293
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 40' 19.10454" W 104° 5' 11.53009"
 Location Grid N/E Y/X: N 608263.330 RUS, E 617278.570 RUS
 CRS Grid Convergence Angle: 0.1332°
 Grid Scale Factor: 0.9999157
 Version / Patch: 2.10.760.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 265.295° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB= 25'
 TVD Reference Elevation: 3406.400 ft above MSL
 Seabed / Ground Elevation: 3381.400 ft above MSL
 Magnetic Declination: 7.333°
 Total Gravity Field Strength: 998.5133mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48027.100 nT
 Magnetic Dip Angle: 60.513°
 Declination Date: June 17, 2019
 Magnetic Declination Model: IFR1
 North Reference: Grid North
 Grid Convergence Used: 0.1332°
 Total Corr Mag North->Grid North: 7.1998°
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northings (RUS)	Easting (RUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
RKB	0.00	0.00	265.23	0.00	0.00	0.00	0.00	N/A	608283.33	617278.57	N 32 40 19.10 W 104	5 11.53
SHL	25.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00	608283.33	617278.57	N 32 40 19.10 W 104	5 11.53
	98.50	0.47	194.36	98.50	0.10	-0.29	-0.07	0.64	608283.04	617278.50	N 32 40 19.10 W 104	5 11.53
	128.50	0.38	165.71	128.50	0.12	-0.51	-0.08	0.76	608282.82	617278.49	N 32 40 19.10 W 104	5 11.53
	157.50	0.68	221.97	157.50	0.23	-0.73	-0.17	1.95	608282.60	617278.40	N 32 40 19.10 W 104	5 11.53
	183.50	0.58	213.39	183.50	0.42	-0.95	-0.35	0.53	608282.38	617278.22	N 32 40 19.10 W 104	5 11.53
	209.50	0.69	211.12	209.49	0.60	-1.20	-0.50	0.43	608282.13	617278.07	N 32 40 19.09 W 104	5 11.54
	239.50	0.54	224.31	239.49	0.81	-1.45	-0.69	0.68	608281.88	617277.88	N 32 40 19.09 W 104	5 11.54
	258.50	0.42	183.49	258.49	0.89	-1.59	-0.76	1.86	608281.74	617277.81	N 32 40 19.09 W 104	5 11.54
	320.00	0.56	221.37	319.99	1.14	-2.04	-0.97	0.56	608281.29	617277.60	N 32 40 19.08 W 104	5 11.54
	499.00	0.11	224.54	498.99	1.90	-2.82	-1.67	0.25	608280.51	617276.90	N 32 40 19.08 W 104	5 11.55
	593.00	0.07	302.40	592.99	2.01	-2.85	-1.78	0.12	608280.48	617276.79	N 32 40 19.08 W 104	5 11.55
	685.00	0.09	142.12	684.99	2.02	-2.88	-1.79	0.17	608280.45	617276.78	N 32 40 19.08 W 104	5 11.55
	775.00	0.14	157.31	774.99	1.94	-3.03	-1.70	0.06	608280.30	617276.87	N 32 40 19.07 W 104	5 11.55
	868.00	0.09	46.83	867.99	1.85	-3.09	-1.60	0.21	608280.24	617276.97	N 32 40 19.07 W 104	5 11.55
	959.00	0.07	19.37	958.99	1.77	-2.99	-1.53	0.05	608280.34	617277.04	N 32 40 19.07 W 104	5 11.55
	1052.00	0.09	171.36	1051.99	1.74	-3.01	-1.50	0.17	608280.32	617277.07	N 32 40 19.07 W 104	5 11.55
	1144.00	0.07	327.05	1143.99	1.77	-3.03	-1.52	0.17	608280.30	617277.05	N 32 40 19.07 W 104	5 11.55
	1235.00	0.02	99.51	1234.99	1.78	-2.99	-1.54	0.09	608280.34	617277.03	N 32 40 19.08 W 104	5 11.55
	1327.00	0.09	40.91	1326.99	1.71	-2.93	-1.47	0.09	608280.40	617277.10	N 32 40 19.08 W 104	5 11.55
	1418.00	0.14	301.52	1417.99	1.75	-2.82	-1.52	0.20	608280.51	617277.05	N 32 40 19.08 W 104	5 11.55
	1513.00	0.07	191.67	1512.99	1.86	-2.82	-1.63	0.19	608280.51	617276.94	N 32 40 19.08 W 104	5 11.55
	1704.00	0.07	206.84	1703.99	1.95	-3.04	-1.71	0.01	608280.29	617276.86	N 32 40 19.07 W 104	5 11.55
	1799.00	0.09	98.79	1798.99	1.91	-3.10	-1.66	0.14	608280.23	617276.91	N 32 40 19.07 W 104	5 11.55
	1895.00	0.09	143.57	1894.98	1.80	-3.17	-1.54	0.07	608280.16	617277.03	N 32 40 19.07 W 104	5 11.55
	1990.00	0.10	118.20	1989.98	1.69	-3.27	-1.42	0.05	608280.06	617277.15	N 32 40 19.07 W 104	5 11.55
	2085.00	0.07	155.17	2084.98	1.80	-3.36	-1.33	0.06	608279.97	617277.24	N 32 40 19.07 W 104	5 11.55
	2180.00	0.04	165.54	2179.98	1.57	-3.45	-1.29	0.03	608279.88	617277.28	N 32 40 19.07 W 104	5 11.55
	2276.00	0.13	132.59	2275.98	1.49	-3.55	-1.21	0.10	608279.78	617277.36	N 32 40 19.07 W 104	5 11.54
	2371.00	0.09	16.13	2370.98	1.39	-3.56	-1.11	0.20	608279.78	617277.46	N 32 40 19.07 W 104	5 11.54
	2561.00	0.07	120.50	2560.98	1.25	-3.47	-0.96	0.07	608279.86	617277.61	N 32 40 19.07 W 104	5 11.54
	2656.00	0.14	127.54	2655.98	1.11	-3.57	-0.82	0.07	608279.76	617277.75	N 32 40 19.07 W 104	5 11.54
	2751.00	0.13	136.01	2750.98	0.96	-3.72	-0.66	0.02	608279.61	617277.91	N 32 40 19.07 W 104	5 11.54
	2846.00	0.13	316.80	2845.98	0.96	-3.72	-0.65	0.27	608279.61	617277.92	N 32 40 19.07 W 104	5 11.54
	2941.00	0.13	277.27	2940.98	1.13	-3.63	-0.83	0.09	608279.70	617277.74	N 32 40 19.07 W 104	5 11.54
	3015.00	0.10	186.73	3014.98	1.22	-3.68	-0.93	0.22	608279.65	617277.64	N 32 40 19.07 W 104	5 11.54
	3201.00	0.27	284.71	3200.98	1.67	-3.73	-1.37	0.16	608279.60	617277.20	N 32 40 19.07 W 104	5 11.55
	3264.00	0.04	226.01	3263.98	1.83	-3.71	-1.53	0.40	608279.62	617277.04	N 32 40 19.07 W 104	5 11.55
	3359.00	0.06	329.23	3358.98	1.87	-3.69	-1.58	0.08	608279.64	617276.99	N 32 40 19.07 W 104	5 11.55
	3454.00	0.07	134.18	3453.98	1.86	-3.69	-1.56	0.14	608279.65	617277.01	N 32 40 19.07 W 104	5 11.55
	3550.00	0.69	104.41	3549.98	1.27	-3.87	-0.96	0.66	608279.46	617277.61	N 32 40 19.07 W 104	5 11.54
	3645.00	0.84	122.23	3644.97	0.18	-4.38	0.18	0.29	608278.95	617278.75	N 32 40 19.06 W 104	5 11.53
	3740.00	1.57	188.82	3739.95	-0.08	-6.04	0.57	1.53	608277.29	617279.14	N 32 40 19.04 W 104	5 11.52
	3834.00	2.97	205.30	3833.88	1.44	-9.52	-0.66	1.63	608273.82	617277.91	N 32 40 19.01 W 104	5 11.54
	3929.00	4.00	211.84	3928.70	4.65	-14.56	-3.46	1.16	608268.78	617275.11	N 32 40 18.96 W 104	5 11.57
	4024.00	5.12	213.05	4023.40	9.22	-20.92	-7.52	1.18	608262.41	617271.05	N 32 40 18.90 W 104	5 11.62
	4119.00	5.89	210.74	4117.96	14.64	-28.67	-12.33	0.84	608254.67	617266.24	N 32 40 18.82 W 104	5 11.68
	4214.00	6.07	207.84	4212.44	20.17	-37.30	-17.17	0.37	608246.04	617261.41	N 32 40 18.74 W 104	5 11.73
	4310.00	5.68	203.41	4307.94	25.14	-46.15	-21.42	0.62	608237.19	617257.15	N 32 40 18.65 W 104	5 11.78
	4405.00	5.91	196.94	4402.46	29.16	-55.14	-24.72	0.73	608228.20	617253.86	N 32 40 18.56 W 104	5 11.82
	4500.00	7.47	192.82	4496.81	32.82	-65.84	-27.51	1.72	608217.50	617251.06	N 32 40 18.45 W 104	5 11.85
	4594.00	9.04	189.53	4489.83	36.48	-79.08	-30.09	1.74	608204.26	617248.48	N 32 40 18.32 W 104	5 11.88
	4690.00	10.22	187.14	4484.48	40.08	-94.97	-32.40	1.30	608188.37	617246.18	N 32 40 18.17 W 104	5 11.91
	4785.00	11.71	186.34	4477.74	43.66	-112.91	-34.51	1.58	608170.42	617244.06	N 32 40 17.99 W 104	5 11.94
	4880.00	12.11	187.90	4470.69	47.68	-132.37	-36.94	0.54	608150.97	617241.63	N 32 40 17.80 W 104	5 11.97
	4975.00	12.23	195.50	4463.57	53.33	-151.93	-41.00	1.69	608131.41	617237.57	N 32 40 17.60 W 104	5 12.01
	5070.00	12.23	195.65	5056.41	60.30	-171.32	-46.41	0.03	608112.02	617232.17	N 32 40 17.41 W 104	5 12.08
	5258.00	12.19	195.97	5240.16	74.24	-209.58	-57.24	0.04	608073.77	617221.34	N 32 40 17.03 W 104	5 12.21
	5353.00	12.45	194.72	5332.97	81.18	-229.12	-62.60	0.39	608054.23	617215.97	N 32 40 16.84 W 104	5 12.27
	5448.00	12.26	195.04	5425.77	88.00	-248.77	-67.82	0.21	608034.58	617210.76	N 32 40 16.64 W 104	5 12.33
	5543.00	12.25	195.45	5518.60	94.88	-268.23	-73.12	0.09	608015.13	617205.45	N 32 40 16.45 W 104	5 12.39
	5638.00	12.13	195.44	5611.46	101.79	-287.56	-78.46	0.13	607995.79	617200.11	N 32 40 16.26 W 104	5 12.46
	5733.00	12.18	195.83	5704.33	108.74	-306.82	-83.86	0.10	607976.53	617194.72	N 32 40 16.07 W 104	5 12.52
	5827.00	11.94	195.11	5796.26	115.51	-325.75	-89.10	0.30	607957.61	617189.48	N 32 40 15.88 W 104	5 12.58
	5920.00	11.96	193.87	5887.24	121.84	-344.39	-93.91	0.28	607938.97	617184.67	N 32 40 15.70 W 104	5 12.64
	6015.00	12.07	194.46	5980.16	128.24	-363.57	-98.75	0.17	607919.79	617179.83	N 32 40 15.51 W 104	5 12.70
	6204.00	11.56	197.37	6165.16	141.85	-400.78	-109.34	0.41	607882.59	617169.24	N 32 40 15.14 W 104	5 12.82
	6299.00	9.59	193.34	6258.54	147.87	-417.56	-114.01	2.21	607865.80	617164.57	N 32 40 14.98 W 104	5 12.88
	6394.00	10.94	186.19	6352.02	152.03	-434.23	-116.81	1.95	607849.14	617161.77	N 32 40 14.81 W 104	5 12.91
	6489.00	11.58	187.31	6445.19	155.72	-452.65	-118.99	0.71	607830.72	617159.59	N 32 40 14.63 W 104	5 12.93
	6584.00	11.55	190.19	6538.27	160.15	-471.46	-121.89	0.61	607811.91	617156.69	N 32 40 14.44 W 104	5 12.97
	6679.00	10.41	183.85	6631.53	163.87	-489.39	-124.15	1.75	607793.98	617154.43	N 32 40 14.27 W 104	5 13.00
	6774.00	12.31	190.99	6724.67	167.89	-507.90	-126.65	2.48	607775.48	617151.93	N 32 40 14.08 W 104	5 13.03
	6869.00	13.47	194.84	6817.27	174.33	-528.53	-131.42	1.52	607754.84	617147.16	N 32 40 13.88 W 104	5

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northings (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
KOP Actual	7442.00	13.48	194.73	7376.61	210.16	-649.77	-157.40	0.98	607633.62	617121.19	N 32 40 12.68 W 104	5 13.39
	7537.00	13.45	192.75	7469.00	217.16	-671.26	-162.65	0.49	607612.13	617115.93	N 32 40 12.47 W 104	5 13.45
	7633.00	13.89	195.88	7562.28	224.56	-693.23	-168.27	0.90	607590.16	617110.32	N 32 40 12.25 W 104	5 13.52
	7728.00	12.84	192.78	7654.71	231.74	-714.49	-173.72	1.34	607568.90	617104.86	N 32 40 12.04 W 104	5 13.58
	7824.00	13.17	195.45	7748.24	238.72	-735.44	-179.00	0.71	607547.96	617099.59	N 32 40 11.83 W 104	5 13.64
	7919.00	12.92	201.24	7840.80	247.09	-755.77	-185.73	1.40	607527.63	617092.86	N 32 40 11.63 W 104	5 13.72
	8015.00	13.32	193.58	7934.30	255.26	-776.52	-192.21	1.86	607506.88	617086.38	N 32 40 11.43 W 104	5 13.80
	8081.97	13.04	196.68	7999.50	260.43	-791.26	-196.19	1.13	607492.14	617082.40	N 32 40 11.28 W 104	5 13.85
	8109.00	12.94	197.97	8025.84	262.71	-797.06	-198.00	1.13	607486.34	617080.59	N 32 40 11.22 W 104	5 13.87
	8204.00	12.91	204.12	8118.44	271.93	-816.86	-205.62	1.45	607466.54	617072.97	N 32 40 11.03 W 104	5 13.96
3rd Bonespring Intersection	8300.00	12.02	200.07	8212.18	281.29	-836.04	-213.43	1.30	607447.36	617065.16	N 32 40 10.84 W 104	5 14.05
	8394.00	10.64	209.34	8304.35	290.25	-852.80	-221.05	2.43	607430.60	617057.54	N 32 40 10.67 W 104	5 14.14
	8431.00	10.00	216.95	8340.75	294.30	-858.35	-224.65	4.07	607425.06	617053.94	N 32 40 10.62 W 104	5 14.18
	8450.00	9.89	218.71	8359.47	296.52	-860.94	-226.66	1.70	607422.47	617051.93	N 32 40 10.59 W 104	5 14.21
	8546.00	18.45	237.36	8452.51	315.65	-875.60	-244.65	10.00	607407.81	617033.94	N 32 40 10.45 W 104	5 14.42
	8641.00	26.97	258.29	8540.20	350.43	-888.12	-278.52	12.23	607395.28	617000.07	N 32 40 10.32 W 104	5 14.81
	8736.00	37.01	261.49	8620.68	400.47	-896.75	-328.02	10.71	607386.66	616950.58	N 32 40 10.24 W 104	5 15.39
	8831.00	43.64	263.50	8693.07	461.84	-904.70	-388.94	7.11	607378.71	616889.66	N 32 40 10.16 W 104	5 16.10
	8880.00	47.02	264.14	8727.51	496.67	-908.45	-423.58	6.96	607374.96	616855.02	N 32 40 10.13 W 104	5 16.51
	8927.00	52.23	265.67	8757.95	532.46	-911.61	-459.23	11.36	607371.80	616819.38	N 32 40 10.10 W 104	5 16.93
100' FEL Crossing	9022.00	60.27	268.17	8810.69	611.34	-915.76	-538.04	8.74	607367.64	616740.58	N 32 40 10.06 W 104	5 17.85
	9117.00	66.96	267.97	8852.88	696.30	-918.63	-623.05	7.04	607364.78	616655.58	N 32 40 10.03 W 104	5 18.84
	9140.00	68.86	268.13	8861.53	717.58	-919.36	-644.34	8.29	607364.05	616634.28	N 32 40 10.02 W 104	5 19.09
	9164.80	69.88	268.19	8870.27	740.76	-920.10	-667.54	4.10	607363.31	616611.09	N 32 40 10.02 W 104	5 19.36
	9212.00	71.81	268.31	8885.76	785.29	-921.46	-712.10	4.10	607361.95	616566.53	N 32 40 10.00 W 104	5 19.89
	9307.00	84.46	270.46	8905.25	877.82	-922.42	-804.88	13.50	607360.99	616473.76	N 32 40 10.00 W 104	5 20.97
	9357.00	85.67	270.34	8909.55	927.44	-922.07	-854.69	2.43	607361.34	616423.96	N 32 40 10.00 W 104	5 21.55
	9489.00	85.92	269.74	8919.23	1058.63	-921.98	-986.33	0.49	607361.43	616292.32	N 32 40 10.00 W 104	5 23.09
	9581.00	86.76	269.45	8925.11	1150.19	-922.63	-1078.14	0.97	607360.78	616200.52	N 32 40 10.00 W 104	5 24.17
	9674.00	87.54	269.03	8929.73	1242.85	-923.86	-1171.02	0.95	607359.55	616107.65	N 32 40 9.99 W 104	5 25.25
	9765.00	88.67	268.79	8932.74	1333.62	-925.59	-1261.95	1.27	607357.82	616016.73	N 32 40 9.98 W 104	5 26.32
	9856.00	89.86	268.48	8933.83	1424.45	-927.76	-1352.91	1.46	607355.65	615925.77	N 32 40 9.96 W 104	5 27.38
	9948.00	90.63	268.13	8933.35	1516.33	-930.48	-1444.87	0.82	607352.93	615833.82	N 32 40 9.93 W 104	5 28.46
	10039.00	90.57	268.27	8932.40	1607.20	-933.34	-1535.82	0.17	607350.07	615742.88	N 32 40 9.90 W 104	5 29.52
	10132.00	90.63	268.76	8931.43	1700.05	-935.75	-1628.79	0.53	607347.66	615649.92	N 32 40 9.88 W 104	5 30.61
	10222.00	90.57	269.98	8930.48	1789.82	-936.74	-1718.77	1.36	607346.67	615559.94	N 32 40 9.88 W 104	5 31.66
	10313.00	90.57	270.20	8929.58	1880.49	-936.59	-1809.77	0.24	607346.82	615468.96	N 32 40 9.88 W 104	5 32.73
	10405.00	90.63	270.14	8928.61	1972.16	-936.32	-1901.76	0.09	607347.09	615376.97	N 32 40 9.88 W 104	5 33.80
	10497.00	90.63	270.11	8927.60	2063.82	-936.12	-1993.76	0.03	607347.29	615284.98	N 32 40 9.88 W 104	5 34.88
	10592.00	90.63	270.16	8926.56	2158.48	-935.90	-2088.75	0.05	607347.51	615190.00	N 32 40 9.89 W 104	5 35.99
	10687.00	90.63	270.13	8925.51	2253.13	-935.66	-2183.75	0.03	607347.75	615095.01	N 32 40 9.90 W 104	5 37.10
	10782.00	90.69	270.22	8924.42	2347.78	-935.37	-2278.74	0.11	607348.04	615000.03	N 32 40 9.90 W 104	5 38.21
	10877.00	90.63	270.24	8923.33	2442.42	-934.98	-2373.73	0.07	607348.43	614905.04	N 32 40 9.91 W 104	5 39.32
	10972.00	90.69	270.18	8922.23	2537.07	-934.64	-2468.72	0.09	607348.77	614810.06	N 32 40 9.91 W 104	5 40.43
	11067.00	90.63	270.24	8921.14	2631.71	-934.29	-2563.72	0.09	607349.12	614715.07	N 32 40 9.92 W 104	5 41.55
	11163.00	90.69	270.36	8920.03	2727.34	-933.79	-2659.71	0.14	607349.62	614619.09	N 32 40 9.93 W 104	5 42.67
	11258.00	90.69	270.19	8918.89	2821.98	-933.33	-2754.70	0.18	607350.08	614524.11	N 32 40 9.93 W 104	5 43.78
	11353.00	90.63	270.21	8917.79	2916.62	-933.00	-2849.70	0.07	607350.41	614429.12	N 32 40 9.94 W 104	5 44.89
	11449.00	90.63	270.30	8916.74	3012.26	-932.57	-2945.69	0.09	607350.84	614333.14	N 32 40 9.94 W 104	5 46.01
	11544.00	90.63	270.24	8915.69	3106.89	-932.12	-3040.68	0.06	607351.29	614238.15	N 32 40 9.95 W 104	5 47.13
	11639.00	90.63	270.40	8914.65	3201.52	-931.59	-3135.67	0.17	607351.82	614143.17	N 32 40 9.96 W 104	5 48.24
	11735.00	90.69	270.19	8913.54	3297.15	-931.10	-3231.67	0.23	607352.31	614047.18	N 32 40 9.96 W 104	5 49.36
	11830.00	90.57	270.15	8912.50	3391.80	-930.82	-3326.66	0.13	607352.59	613952.20	N 32 40 9.97 W 104	5 50.47
	11925.00	90.63	270.23	8911.50	3486.45	-930.50	-3421.65	0.11	607352.91	613857.21	N 32 40 9.97 W 104	5 51.58
	12021.00	90.12	270.23	8910.87	3582.09	-930.12	-3517.65	0.53	607353.29	613761.22	N 32 40 9.98 W 104	5 52.71
	12116.00	89.68	270.15	8911.04	3676.74	-929.80	-3612.65	0.47	607353.61	613666.23	N 32 40 9.99 W 104	5 53.82
	12211.00	90.18	270.31	8911.16	3771.39	-929.42	-3707.65	0.55	607353.99	613571.24	N 32 40 9.99 W 104	5 54.93
	12307.00	90.91	270.62	8910.24	3867.00	-928.64	-3803.64	0.83	607354.77	613475.26	N 32 40 10.00 W 104	5 56.05
	12402.00	89.79	270.57	8909.66	3961.59	-927.65	-3898.63	1.18	607355.76	613380.27	N 32 40 10.01 W 104	5 57.16
	12498.00	90.46	270.53	8909.45	4057.18	-926.73	-3994.63	0.70	607356.68	613284.29	N 32 40 10.02 W 104	5 58.28
	12593.00	89.23	270.36	8909.71	4151.80	-926.00	-4089.62	1.31	607357.41	613189.30	N 32 40 10.03 W 104	5 59.40
	12689.00	90.80	270.52	8909.69	4247.41	-925.26	-4185.62	1.64	607358.15	613093.31	N 32 40 10.04 W 104	6 0.52
	12784.00	90.91	270.57	8908.27	4342.00	-924.35	-4280.60	0.13	607359.06	612998.34	N 32 40 10.05 W 104	6 1.63
	12879.00	90.80	270.46	8906.85	4436.59	-923.50	-4375.59	0.16	607359.91	612903.36	N 32 40 10.06 W 104	6 2.74
	12975.00	90.85	270.42	8905.47	4532.20	-922.76	-4471.57	0.07	607360.65	612807.38	N 32 40 10.07 W 104	6 3.86
	13070.00	90.74	270.45	8904.15	4628.80	-922.04	-4568.56	0.12	607361.37	612712.40	N 32 40 10.08 W 104	6

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 ° ' ")
	17435.00	90.44	269.98	8823.84	8975.53	-916.57	-8930.44	0.20	607366.84	608348.90	N 32 40 10.23 W 104	6 56.02
	17530.00	90.50	269.96	8823.06	9070.21	-916.62	-9025.44	0.07	607366.79	608253.91	N 32 40 10.23 W 104	6 57.14
	17625.00	90.10	270.00	8822.57	9164.89	-916.65	-9120.44	0.42	607366.76	608158.92	N 32 40 10.23 W 104	6 58.25
	17722.00	90.79	270.89	8821.81	9261.49	-915.90	-9217.43	1.16	607367.51	608061.94	N 32 40 10.24 W 104	6 59.38
	17912.00	90.57	270.15	8819.56	9450.69	-914.17	-9407.41	0.41	607369.24	607871.98	N 32 40 10.26 W 104	7 1.60
	18101.00	90.34	270.22	8818.06	9639.00	-913.56	-9596.40	0.13	607369.85	607683.00	N 32 40 10.27 W 104	7 3.81
	18195.00	90.68	270.25	8817.22	9732.64	-913.18	-9690.39	0.36	607370.23	607589.01	N 32 40 10.28 W 104	7 4.91
	18291.00	90.57	270.27	8816.17	9828.28	-912.74	-9786.39	0.12	607370.67	607493.03	N 32 40 10.28 W 104	7 6.04
	18386.00	90.51	270.27	8815.28	9922.91	-912.29	-9881.38	0.06	607371.11	607398.04	N 32 40 10.29 W 104	7 7.15
	18481.00	90.96	270.25	8814.06	10017.55	-911.86	-9976.37	0.47	607371.55	607303.06	N 32 40 10.30 W 104	7 8.26
	18577.00	90.90	270.37	8812.50	10113.17	-911.34	-10072.36	0.14	607372.07	607207.08	N 32 40 10.30 W 104	7 9.38
	18672.00	91.07	270.47	8810.87	10207.78	-910.65	-10167.34	0.21	607372.76	607112.11	N 32 40 10.31 W 104	7 10.49
	18767.00	91.01	270.22	8809.14	10302.39	-910.08	-10262.32	0.27	607373.33	607017.13	N 32 40 10.32 W 104	7 11.60
	18957.00	91.01	270.21	8805.79	10491.66	-909.36	-10452.29	0.01	607374.05	606827.18	N 32 40 10.33 W 104	7 13.83
	19052.00	91.07	270.24	8804.07	10586.30	-908.99	-10547.28	0.07	607374.42	606732.20	N 32 40 10.34 W 104	7 14.94
	19147.00	91.07	270.19	8802.30	10680.93	-908.63	-10642.26	0.05	607374.78	606637.23	N 32 40 10.34 W 104	7 16.05
	19242.00	91.13	270.18	8800.47	10775.57	-908.33	-10737.24	0.06	607375.08	606542.25	N 32 40 10.35 W 104	7 17.16
100' FWL Crossing	19291.87	91.03	270.24	8799.53	10825.24	-908.14	-10787.10	0.23	607375.27	606492.40	N 32 40 10.35 W 104	7 17.74
Final Survey	19329.00	90.96	270.29	8798.89	10862.23	-907.97	-10824.23	0.23	607375.44	606455.28	N 32 40 10.35 W 104	7 18.18
Proj. to TD	19370.00	90.96	270.29	8798.20	10903.07	-907.76	-10865.22	0.00	607375.65	606414.29	N 32 40 10.35 W 104	7 18.66

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	25.000	1/98.425	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Turkey Track 8-7 State 34H Gyro + MWD 0-19,370' MD
	1	25.000	25.000	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Turkey Track 8-7 State 34H Gyro + MWD 0-19,370' MD
	1	25.000	258.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Turkey Track 8-7 State 34H Gyro + MWD
	1	258.500	320.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Turkey Track 8-7 State 34H Gyro + MWD
	1	320.000	5733.000	Act Stns	30.000	30.000	NAL_MWD_IFR2+MS	Original Borehole / Oxy Turkey Track 8-7 State 34H Gyro + MWD
	1	5733.000	6015.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Turkey Track 8-7 State 34H Gyro + MWD
	1	6015.000	19370.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Turkey Track 8-7 State 34H Gyro + MWD

...Original Borehole\Oxy Turkey Track 8-7 State 34H Gyro + MWD 0-19,370' MD