

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

August 2, 2019

Oxy USA WTP Limited Partnership
PO Box 4294
Houston, TX 77210

NM OIL CONSERVATION

ARTESIA DISTRICT

AUG 26 2019

RECEIVED

Re:

S9, T19S, R29E Eddy, NM
N 32.6793995 W -104.0868256

CLIENT: Oxy USA WTP Limited Partnership
WELL: Turkey Track 8-7 31H
FIELD: Turkey Track/Bone Spring

RIG: H&P 636
COUNTY: Eddy
API NO: 30-015-44266
JOB NO: 19MLH0205

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>
Juan Estrada FS	Turkey Track 8-7 31H Original Hole	327.00 Ft to 19252.00 Ft	June 16, 2019 to July 6, 2019	Telepacor/SlimPulse 3rd 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

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

Schlumberger

Fax : (432) 742-5606 (Shared)

Well Reference:

S9, T19S, R29E Eddy, NM
N 32.6793995 W -104.0868256

I, Juan Estrada certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of June 16, 2019 through July 06, 2019, conduct or supervise the taking of the Telepacer/SlimPulse & 3rd Party Corrected surveys from a depth of 327.00 feet to a depth of 19252.00 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 31H Well (Original Hole) API No. 30-015-44266 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.

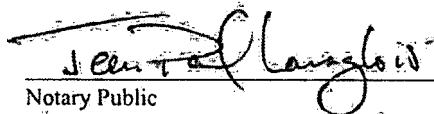
By
Juan Estrada
FS



Subscribed and Sworn to before me this 2nd day of August (month) 2019 (yr)

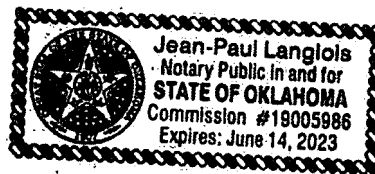
My Commission expires:

6/14/2023


Notary Public

(signature)

Comanche Oklahoma
(County State)



Schlumberger

OXY

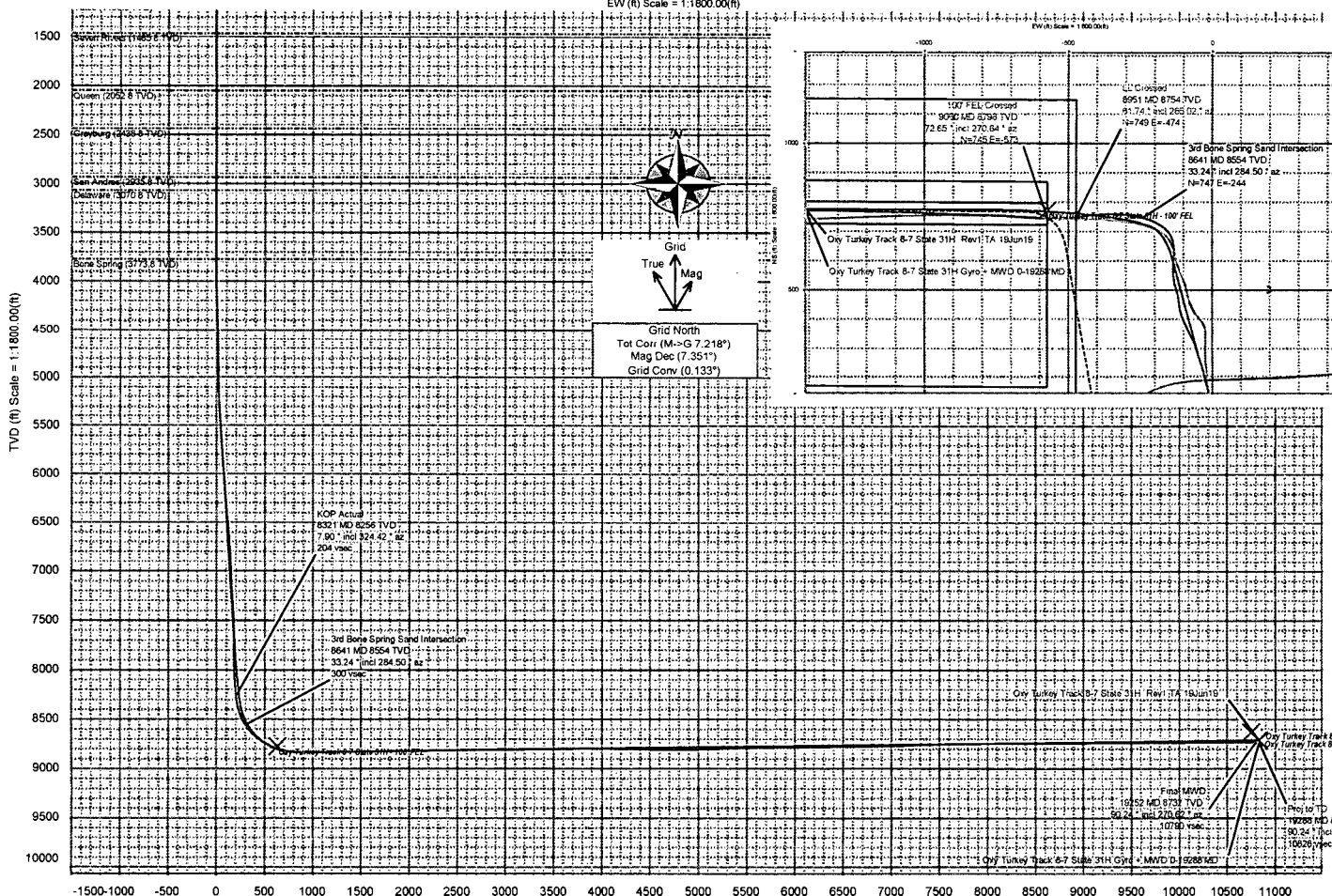
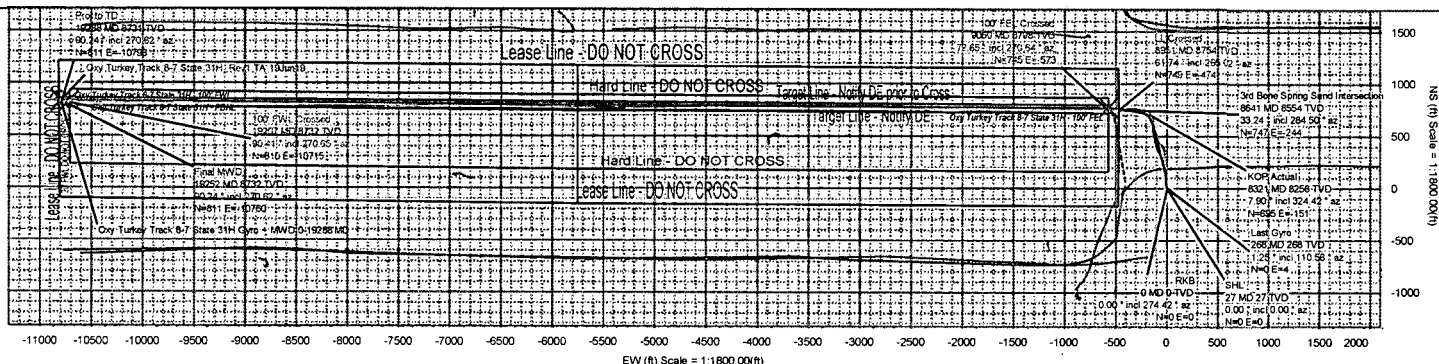


Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Turkey Track 8-7 State 31H	NM Eddy County (NAD 83)	Oxy Turkey Track 8-7 State 31H

Gravity & Magnetic Parameters	Surface Location	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Miscellaneous
Model: IFR1	Lat: N 32 40 45.84	Northings: 610984.76RUS	Slot: Oxy Turkey Track 8-7 State 31H
Dip: 80.517°	Lon: W 104 5 12.67	Easting: 617183.23RUS	TVD Ref: RKB(3423ft above MSL)
Date: 13-Jun-2019		Scale Fact: 0.99991568	Plan: Oxy Turkey Track 8-7 State 31H Gyro + MWD 0-19288MD
MagDec: 7.351°	FS: 48021.8nT		
Gravity FS: 998.514mgm (9.80665 Based)			

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(°)/S(-)	E(°)/W(-)	DLS
RKB	0.00	0.00	274.42	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	267.91	1.25	110.56	267.87	-4.07	-0.01	4.08	0.86
KOP Actual	8321.00	7.90	324.42	8256.21	203.77	695.29	-150.86	3.30
3rd Bone Spring Sand Intersection	8640.58	33.24	284.50	8554.00	300.30	746.52	-243.52	9.93
LL Crossed	8951.00	61.74	265.02	8754.12	530.41	749.15	-474.11	3.81
100' FEL Crossed	9060.00	72.65	270.64	8798.13	629.13	744.73	-573.47	13.96
100' FWL Crossed	19207.00	90.41	270.65	8731.83	10745.17	810.34	-10714.59	0.06
Final MWD	19252.00	90.24	270.62	8731.57	10790.07	810.84	-10759.58	0.39
Proj to TD	19288.00	90.24	270.62	8731.42	10825.99	811.23	-10795.58	0.00



Vertical Section (ft) Azim = 274.42° Scale = 1:1800.00(ft) Origin = 0N/S, 0E/W



Oxy Turkey Track 8-7 State 31H Gyro + MWD 0-19288'MD Survey Geodetic Report (Def Survey)

Report Date: August 01, 2019 - 05:00 PM
 Client: OXY
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Oxy Turkey Track 8-7 State 31H / Oxy Turkey Track 8-7 State 31H
 Well: Oxy Turkey Track 8-7 State 31H
 Borehole: Original Borehole
 UWI / API#: Unknown / 30-015-44266
 Survey Name: Oxy Turkey Track 8-7 State 31H Gyro + MWD 0-19288'MD
 Survey Date: June 13, 2019
 Tort / AHD / DDI / ERD Ratio: 180.774' / 11401.171 ft / 6.653' / 1.290
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 40' 45.83809", W 104° 5' 12.57210"
 Location Grid N/E Y/X: N 610984.760 ftUS, E 617183.230 ftUS
 CRS Grid Convergence Angle: 0.1331°
 Grid Scale Factor: 0.99991568
 Version / Patch: 2.10.760.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 274.418° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 3423.000 ft above MSL
 Seabed / Ground Elevation: 3396.500 ft above MSL
 Magnetic Declination: 7.351°
 Total Gravity Field Strength: 998.5135mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48021.800 nT
 Magnetic Dip Angle: 60.517°
 Declination Date: June 13, 2019
 Magnetic Declination Model: IFR1
 North Reference: Grid North
 Grid Convergence Used: 0.1331°
 Total Corr Mag North->Grid North: 7.2179°
 Local Coord Referenced To: Well Head

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 ° ' ")
RKB	0.00	0.00	274.42	0.00	0.00	0.00	0.00	N/A	610984.76	617183.23	N 32 40 45.84 W 104	5 12 57
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	610984.76	617183.23	N 32 40 45.84 W 104	5 12 57
	70.92	0.61	40.14	70.92	-0.14	0.18	0.15	1.37	610984.94	617183.38	N 32 40 45.84 W 104	5 12 57
	101.88	1.00	72.28	101.88	-0.48	0.39	0.52	1.88	610985.15	617183.75	N 32 40 45.84 W 104	5 12 57
	135.45	1.36	99.91	135.44	-1.15	0.41	1.19	1.98	610985.17	617184.42	N 32 40 45.84 W 104	5 12 56
	169.02	1.20	96.10	169.00	-1.90	0.30	1.93	0.54	610985.06	617185.16	N 32 40 45.84 W 104	5 12 55
	202.60	1.28	90.68	202.57	-2.63	0.26	2.65	0.42	610985.02	617185.88	N 32 40 45.84 W 104	5 12 54
	236.17	1.31	101.57	236.13	-3.38	0.18	3.41	0.74	610984.94	617186.63	N 32 40 45.84 W 104	5 12 53
Last Gyro	267.91	1.25	110.56	267.87	-4.07	-0.01	4.08	0.66	610984.75	617187.31	N 32 40 45.84 W 104	5 12 52
	327.00	1.42	119.93	326.94	-5.35	-0.61	5.32	0.47	610984.15	617188.55	N 32 40 45.83 W 104	5 12 51
	417.00	0.77	103.18	416.92	-6.96	-1.30	6.88	0.80	610983.46	617190.11	N 32 40 45.83 W 104	5 12 49
	510.00	0.42	29.87	509.92	-7.72	-1.15	7.66	0.82	610983.61	617190.89	N 32 40 45.83 W 104	5 12 48
	693.00	0.25	34.55	692.92	-8.21	-0.24	8.22	0.09	610984.52	617191.45	N 32 40 45.84 W 104	5 12 48
	784.00	0.41	32.99	783.92	-8.47	0.20	8.51	0.18	610984.96	617191.74	N 32 40 45.84 W 104	5 12 47
	876.00	0.40	0.46	875.91	-8.60	0.80	8.69	0.25	610985.56	617191.92	N 32 40 45.85 W 104	5 12 47
	1058.00	0.26	324.94	1057.91	-8.29	1.77	8.46	0.13	610986.53	617191.69	N 32 40 45.86 W 104	5 12 47
	1241.00	0.23	233.18	1240.91	-7.75	1.89	7.92	0.19	610986.65	617191.15	N 32 40 45.86 W 104	5 12 48
	1331.00	0.09	288.75	1330.91	-7.55	1.81	7.71	0.22	610986.56	617190.94	N 32 40 45.86 W 104	5 12 48
	1513.00	0.29	288.34	1512.91	-6.96	2.00	7.14	0.11	610986.76	617190.37	N 32 40 45.86 W 104	5 12 49
	1604.00	0.28	230.31	1603.91	-6.58	1.93	6.75	0.30	610986.69	617189.98	N 32 40 45.86 W 104	5 12 49
	1786.00	0.28	244.91	1785.90	-5.87	1.45	6.00	0.04	610986.21	617189.23	N 32 40 45.85 W 104	5 12 50
	1877.00	0.16	263.13	1876.90	-5.56	1.34	5.68	0.15	610986.10	617188.91	N 32 40 45.85 W 104	5 12 51
	1971.00	0.12	118.34	1970.90	-5.52	1.28	5.63	0.28	610986.04	617188.86	N 32 40 45.85 W 104	5 12 51
	2066.00	0.17	306.16	2065.90	-5.49	1.32	5.61	0.30	610986.08	617188.84	N 32 40 45.85 W 104	5 12 51
	2160.00	0.17	235.77	2159.90	-5.26	1.32	5.38	0.21	610986.08	617188.61	N 32 40 45.85 W 104	5 12 51
	2255.00	0.08	17.71	2254.90	-5.17	1.31	5.28	0.25	610986.07	617188.51	N 32 40 45.85 W 104	5 12 51
	2444.00	0.08	255.88	2443.90	-5.07	1.40	5.20	0.07	610986.16	617188.42	N 32 40 45.85 W 104	5 12 51
	2539.00	0.10	29.41	2538.90	-5.04	1.46	5.17	0.17	610986.21	617188.40	N 32 40 45.85 W 104	5 12 51
	2633.00	0.16	37.32	2632.90	-5.15	1.63	5.29	0.07	610986.39	617188.52	N 32 40 45.85 W 104	5 12 51
	2728.00	0.20	72.72	2727.90	-5.38	1.79	5.53	0.12	610986.55	617188.76	N 32 40 45.86 W 104	5 12 51
	2822.00	0.18	69.32	2821.90	-5.66	1.89	5.83	0.02	610986.65	617189.05	N 32 40 45.86 W 104	5 12 50
	2917.00	0.25	349.35	2916.90	-5.74	2.14	5.93	0.30	610986.90	617189.16	N 32 40 45.86 W 104	5 12 50
	3011.00	0.24	8.53	3010.90	-5.70	2.54	5.92	0.09	610987.30	617189.15	N 32 40 45.86 W 104	5 12 50
	3035.00	0.11	68.94	3034.90	-5.73	2.60	5.95	0.87	610987.36	617189.18	N 32 40 45.86 W 104	5 12 50
	3210.00	0.17	328.98	3209.90	-5.73	2.88	5.97	0.12	610987.64	617189.20	N 32 40 45.87 W 104	5 12 50
	3336.00	0.07	44.08	3335.90	-5.67	3.10	5.93	0.13	610987.86	617189.16	N 32 40 45.87 W 104	5 12 50
	3526.00	0.08	251.31	3525.90	-5.62	3.14	5.88	0.08	610987.90	617189.11	N 32 40 45.87 W 104	5 12 50
	3620.00	0.11	145.31	3619.90	-5.62	3.04	5.87	0.16	610987.80	617189.10	N 32 40 45.87 W 104	5 12 50
	3809.00	0.16	12.63	3808.90	-5.77	3.15	6.03	0.13	610987.91	617189.26	N 32 40 45.87 W 104	5 12 50
	3904.00	0.52	311.38	3903.90	-5.45	3.56	5.74	0.49	610988.32	617188.97	N 32 40 45.87 W 104	5 12 50
	3998.00	1.44	323.51	3997.88	-4.33	4.80	4.72	1.00	610989.56	617187.94	N 32 40 45.89 W 104	5 12 52
	4093.00	2.28	319.71	4092.83	-2.22	7.20	2.78	0.89	610991.96	617186.01	N 32 40 45.91 W 104	5 12 54
	4187.00	2.81	323.08	4186.74	0.62	10.46	0.19	0.59	610995.22	617183.42	N 32 40 45.94 W 104	5 12 57
	4282.00	3.12	329.84	4281.61	3.62	14.56	-2.51	0.49	610999.32	617180.72	N 32 40 45.98 W 104	5 12 60
	4377.00	3.47	338.41	4376.46	6.35	19.47	-4.86	0.64	611004.23	617178.37	N 32 40 46.03 W 104	5 12 63
	4471.00	4.21	341.90	4470.24	8.92	25.40	-6.98	0.83	611010.15	617176.25	N 32 40 46.09 W 104	5 12 65
	4566.00	5.58	353.08	4564.90	11.16	33.30	-8.62	1.75	611018.05	617174.61	N 32 40 46.17 W 104	5 12 67
	4661.00	7.06	357.47	4659.32	12.78	43.71	-9.44	1.64	611028.47	617173.79	N 32 40 46.27 W 104	5 12 68
	4755.00	9.06	0.49	4752.39	13.98	56.89	-9.63	2.17	611041.64	617173.60	N 32 40 46.40 W 104	5 12 68
	4945.00	10.43	0.75	4939.64	16.11	89.04	-9.28	0.72	611073.80	617173.95	N 32 40 46.72 W 104	5 12 68
	5134.00	10.70	352.90	5125.44	20.71	123.56	-11.22	0.77	611108.31	617172.01	N 32 40 47.06 W 104	5 12 70
	5323.00	10.92	347.47	5311.10	29.43	158.45	-17.27	0.55	611143.20	617165.96	N 32 40 47.41 W 104	5 12 77
	5417.00	11.09	344.66	5403.37	35.08	175.86	-21.60	0.60	611160.61	617161.64	N 32 40 47.58 W 104	5 12 82
	5512.00	11.00	343.73	5496.81	41.37	193.37	-28.55	0.21	611178.12	617156.68	N 32 40 47.75 W 104	5 12 88
	5606.00	10.96	344.33	5588.89	47.61	210.59	-31.48	0.13	611195.33	617151.75	N 32 40 47.92 W 104	5 12 93
	5701.00	10.83	345.06	5682.17	53.87	227.90	-36.22	0.20	611212.64	617147.01	N 32 40 48.09 W 104	5 12 99
	5796.00	10.85	344.48	5775.48	59.67	245.14	-40.91	0.12	611229.88	617142.32	N 32 40 48.26 W 104	5 13 04
	5890.00	10.77	344.41	5867.81	65.70	262.13	-45.64	0.09	611246.86	617137.59	N 32 40 48.43 W 104	5 13 10
	5984.00	10.91	344.00	5960.13	71.81	279.14	-50.45	0.17	611263.87	617132.78	N 32 40 48.60 W 104	5 13 15
	6079.00	10.72	341.61	6053.45	78.37	296.16	-55.72	0.51	611280.90	617127.52	N 32 40 48.77 W 104	5 13 22
	6173.00	10.35	339.63	6145.86	85.30	312.38	-61.42	0.55	611297.11	617121.82	N 32 40 48.93 W 104	5 13 28
	6268.00	9.62	334.18	6239.43	92.87	327.52	-67.84	1.26	611312.25	617115.39	N 32 40 49.08 W 104	5 13 36
	6362.00	10.04	331.47	6332.05	101.28	341.79	-75.18	0.66	611326.52	617108.06	N 32 40 49.22 W 104	5 13 44
	6457.00	10.90	334.77	6425.46	110.23	357.19	-82.96	1.10	611341.92	617100.28	N 32 40 49.37 W 104	5 13 53
	6552.00	10.88	335.21	6518.75	119.05	373.46	-90.55	0.09	611358.18	617092.69	N 32 40 49.54 W 104	5 13 62
	6646.00	10.40	336.47	6611.14	127.35	389.29	-97.66	0.57	611374.02	617085.58	N 32 40 49.69 W 104	5 13 70
	6741.00	11.03	339.22	6704.48	135.24	405.65	-104.30	0.85	611390.37	617078.93	N 32 40 49.85 W 104	5 13 78
	6835.00	11.09	344.66	6796.74	142.13	422.77	-109.89	1.11	611407.50	617073.35	N 32 40 50.02 W 104	5 13 85
	6930.00	11.56	352.12	6889.89	147.24	441.02	-113.61	1.62	611425.74	617069.63	N 32 40 50.20 W 104	5 13 89
	7119.00	10.45	349.09	7075.42	155.81	476.61	-119.45	0.66	611461.32	617063.79	N 32 40 50.56 W 104	5 13 96
	7214.00	10.27	344.90	7168.87	160.91	493.24	-123.29	0.82	611477.96	617059.95	N 32 40 50.72 W 104	5 14 00
	7309.00	10.64	344.56	7262.29	166.72	509.87	-127.83	0.39	611494.59	617055.41	N 32 40 50.89 W 104	5 14 05
	7498.00	11.02	351.07	7447.93	176.82	544.54	-135.28	0.68	611529.25	617047.96	N 32 40 51.23 W 104	5 14 14
	7592.00	10.53	359.51	7540.28	179.63	562.00	-136.74	1.76	611546.71	617046.50	N 32 40 51.40 W 104	5 14 16
	7687.00	9.31	2.21	7633.86	180.67	578.36	-136					

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 ° ' '')
	8160.00	11.50	343.00	8097.66	189.43	670.57	-138.19	2.51	611655.28	617045.05	N 32 40 52.48 W 104	5 14.17
	8254.00	9.96	329.57	8190.03	197.50	686.55	-145.05	3.11	611671.25	617038.20	N 32 40 52.63 W 104	5 14.25
KOP Actual	8321.00	7.90	324.42	8256.21	203.77	695.29	-150.66	3.30	611679.99	617032.58	N 32 40 52.72 W 104	5 14.32
	8415.00	13.44	312.13	8348.56	216.58	707.88	-162.53	6.34	611692.58	617020.71	N 32 40 52.85 W 104	5 14.45
	8509.00	22.82	300.31	8437.82	241.68	724.45	-186.43	10.67	611709.15	616996.82	N 32 40 53.01 W 104	5 14.73
	8604.00	30.12	288.03	8522.87	281.50	741.16	-225.08	9.57	611725.86	616958.17	N 32 40 53.18 W 104	5 15.19
3rd Bone Spring Sand Intersection	8640.58	33.24	284.50	8554.00	300.30	746.52	-243.52	9.93	611731.21	616939.73	N 32 40 53.23 W 104	5 15.40
	8698.00	38.31	280.01	8600.58	333.54	753.55	-276.31	9.93	611738.25	616906.94	N 32 40 53.30 W 104	5 15.78
	8793.00	50.04	270.39	8668.57	399.47	758.95	-342.02	14.19	611743.64	616841.24	N 32 40 53.36 W 104	5 16.55
	8887.00	59.63	263.61	8722.79	475.47	754.66	-418.58	11.77	611739.36	616764.68	N 32 40 53.31 W 104	5 17.45
LL Crossed	8951.00	61.74	265.02	8754.12	530.41	749.15	-474.11	3.81	611733.84	616709.16	N 32 40 53.26 W 104	5 18.10
	8982.00	62.76	265.69	8768.56	557.50	746.93	-501.45	3.81	611731.62	616681.82	N 32 40 53.24 W 104	5 18.42
100' FEL Crossed	9060.00	72.65	270.64	8798.13	629.13	744.73	-573.47	13.96	611729.43	616609.81	N 32 40 53.22 W 104	5 19.26
	9076.00	74.69	271.58	8802.63	644.46	745.03	-588.82	13.96	611729.72	616594.46	N 32 40 53.22 W 104	5 19.44
	9171.00	84.62	273.86	8819.67	737.75	749.49	-682.04	10.72	611734.18	616501.24	N 32 40 53.27 W 104	5 20.53
	9224.00	84.77	272.96	8824.57	790.52	752.63	-734.72	1.71	611737.32	616448.97	N 32 40 53.30 W 104	5 21.15
	9306.00	85.33	271.36	8831.65	872.14	755.70	-816.36	2.06	611740.40	616386.94	N 32 40 53.33 W 104	5 22.10
	9402.00	87.97	271.88	8837.26	967.86	758.41	-912.14	2.80	611743.11	616271.16	N 32 40 53.33 W 104	5 23.22
	9494.00	90.60	272.39	8838.40	1059.77	761.84	-1004.07	2.91	611746.53	616179.25	N 32 40 53.40 W 104	5 24.30
	9585.00	91.78	271.77	8836.51	1150.67	765.14	-1094.98	1.46	611749.84	616088.34	N 32 40 53.43 W 104	5 25.36
	9769.00	91.33	270.61	8831.52	1334.31	768.96	-1278.87	0.68	611753.66	615904.47	N 32 40 53.48 W 104	5 27.51
	9860.00	91.10	270.50	8829.59	1425.08	769.84	-1369.85	0.28	611754.54	615813.50	N 32 40 53.49 W 104	5 28.58
	9950.00	91.05	270.66	8827.90	1514.86	770.75	-1459.83	0.19	611755.45	615723.53	N 32 40 53.50 W 104	5 29.63
	10042.00	91.16	270.63	8826.13	1606.65	771.79	-1551.80	0.12	611756.48	615631.56	N 32 40 53.51 W 104	5 30.71
	10133.00	90.99	270.62	8824.42	1697.43	772.78	-1642.78	0.19	611757.48	615540.59	N 32 40 53.52 W 104	5 31.77
	10223.00	90.99	270.65	8822.87	1787.22	773.78	-1732.76	0.03	611758.47	615450.62	N 32 40 53.53 W 104	5 32.82
	10315.00	91.05	270.56	8821.23	1879.00	774.75	-1824.74	0.12	611759.44	615358.64	N 32 40 53.55 W 104	5 33.90
	10405.00	91.05	270.61	8819.58	1968.79	775.67	-1914.72	0.06	611760.36	615268.67	N 32 40 53.56 W 104	5 34.95
	10496.00	91.05	270.53	8817.91	2059.57	776.57	-2005.70	0.09	611761.27	615177.70	N 32 40 53.57 W 104	5 36.02
	10587.00	90.99	270.60	8816.29	2150.35	777.47	-2096.69	0.10	611762.16	615086.73	N 32 40 53.58 W 104	5 37.08
	10678.00	91.05	270.60	8814.67	2241.13	778.42	-2187.67	0.07	611763.12	614995.75	N 32 40 53.59 W 104	5 38.15
	10772.00	90.94	270.67	8813.04	2334.91	779.47	-2281.65	0.14	611764.16	614901.78	N 32 40 53.60 W 104	5 39.25
	10867.00	91.22	270.66	8811.25	2429.69	780.57	-2376.62	0.29	611765.26	614806.81	N 32 40 53.62 W 104	5 40.36
	10962.00	91.16	270.61	8809.28	2524.46	781.62	-2471.60	0.08	611766.31	614711.85	N 32 40 53.63 W 104	5 41.47
	11056.00	90.77	270.75	8807.69	2618.25	782.74	-2565.58	0.44	611767.43	614617.87	N 32 40 53.64 W 104	5 42.57
	11151.00	90.77	270.63	8806.42	2713.04	783.88	-2660.56	0.13	611768.57	614522.90	N 32 40 53.65 W 104	5 43.68
	11245.00	91.05	270.52	8804.92	2806.82	784.82	-2754.54	0.32	611769.52	614428.92	N 32 40 53.67 W 104	5 44.78
	11340.00	91.10	270.94	8803.14	2901.60	786.03	-2849.52	0.45	611770.73	614333.96	N 32 40 53.68 W 104	5 45.89
	11435.00	90.49	270.77	8801.82	2996.41	787.45	-2944.50	0.67	611772.14	614238.98	N 32 40 53.70 W 104	5 47.00
	11624.00	90.66	270.66	8799.93	3185.00	789.81	-3133.48	0.11	611774.50	614050.03	N 32 40 53.72 W 104	5 49.21
	11767.00	90.43	270.74	8798.57	3327.70	791.56	-3276.46	0.17	611776.25	613907.05	N 32 40 53.74 W 104	5 50.88
	11908.00	90.38	270.74	8797.57	3468.40	793.38	-3417.44	0.04	611778.07	613768.08	N 32 40 53.76 W 104	5 52.53
	12002.00	90.60	270.54	8796.77	3562.20	794.43	-3511.43	0.32	611779.12	613672.10	N 32 40 53.78 W 104	5 53.63
	12097.00	90.71	270.99	8795.68	3657.00	795.70	-3606.42	0.49	611780.39	613577.12	N 32 40 53.79 W 104	5 54.74
	12098.00	90.77	271.26	8795.67	3657.99	795.72	-3607.42	27.66	611780.41	613576.12	N 32 40 53.79 W 104	5 54.76
	12195.00	90.66	271.07	8794.46	3754.83	797.69	-3704.39	0.23	611782.38	613479.16	N 32 40 53.81 W 104	5 55.89
	12289.00	90.10	270.80	8793.83	3846.65	799.22	-3798.38	0.66	611783.91	613385.18	N 32 40 53.83 W 104	5 56.99
	12384.00	89.31	268.90	8794.32	3943.35	798.97	-3893.37	2.17	611783.66	613290.20	N 32 40 53.83 W 104	5 58.10
	12478.00	88.81	268.84	8795.86	4036.89	797.12	-3987.34	0.54	611781.81	613196.24	N 32 40 53.81 W 104	5 59.20
	12573.00	89.31	269.14	8797.42	4131.45	795.45	-4082.31	0.61	611780.14	613101.27	N 32 40 53.80 W 104	6 0.31
	12668.00	89.09	268.89	8798.75	4226.02	793.81	-4177.29	0.35	611778.50	613006.30	N 32 40 53.79 W 104	6 1.42
	12763.00	89.70	268.68	8799.75	4320.56	791.80	-4272.26	0.68	611776.49	612911.34	N 32 40 53.77 W 104	6 2.53
	12857.00	88.70	268.80	8801.06	4414.09	789.73	-4366.23	1.07	611774.42	612817.38	N 32 40 53.75 W 104	6 3.63
	12952.00	88.53	268.84	8803.36	4508.61	787.78	-4461.18	0.18	611772.47	612722.44	N 32 40 53.73 W 104	6 4.74
	13047.00	88.92	269.04	8805.47	4603.15	786.02	-4556.14	0.46	611770.71	612627.49	N 32 40 53.72 W 104	6 5.86
	13141.00	89.48	269.09	8806.79	4696.73	784.48	-4650.12	0.60	611769.18	612533.52	N 32 40 53.70 W 104	6 6.96
	13236.00	90.69	268.29	8806.65	4791.25	782.31	-4745.09	1.53	611767.01	612438.55	N 32 40 53.68 W 104	6 8.07
	13425.00	91.02	268.92	8803.83	4979.26	777.71	-4934.01	0.38	611762.40	612249.65	N 32 40 53.64 W 104	6 10.28
	13485.00	91.51	269.06	8802.50	5038.97	776.65	-4993.99	0.85	611761.35	612189.68	N 32 40 53.63 W 104	6 10.98
	13567.00	91.74	269.59	8800.18	5120.62	775.69	-5075.95	0.70	611760.38	612107.72	N 32 40 53.63 W 104	6 11.94
	13661.00	91.74	269.46	8797.32	5214.23	774.91	-5169.90	0.14	611759.60	612013.78	N 32 40 53.62 W 104	6 13.04
	13756.00	91.79	269.68	8794.40	5308.85	774.20	-5264.85	0.24	611758.89	611918.83	N 32 40 53.62 W 104	6 14.15
	13851.00	91.51	269.79	8791.66	5403.49	773.76	-5359.81	0.32	611758.45	611823.88	N 32 40 53.61 W 104	6 15.26
	13945.00	91.57	269.76	8789.13	5497.15	773.39	-5453.78	0.07	611758.08	611729.92	N 32 40 53.61 W 104	6 16.36
	14040.00	90.39	270.75	8787.51	5591.88	773.81	-5548.76	1.62	611758.51	611634.95	N 32 40 53.62 W 104	6 17.47
	14135.00	90.62	271.52	8786.67	5686.72	775.69	-5643.74	0.85	611760.39	611539.98	N 32 40 53.64 W 104	6 18.58
	14229.00	90.73	271.41	8785.56	5780.59	778.10	-5737.70	0.17	611762.79	611446.03	N 32 40 53.66 W 104	6 19.68
	14324.00	90.67	271.28	8784.40	5875.44	780.33	-5832.67	0.15	611765.02	611351.07	N 32 40 53.69 W 104	6 20.79
	14419.00	90.67	271.41	8783.29	5970.30	782.56	-5927.63	0.14	611767.25	611256.11	N 32 40 53.71 W 104	6 21.90
	14513.00	90.56	271.32	8782.28	6064.16	784.80	-6021.60	0.15	611769.49	611162.15	N 32 40 53.74 W 104	6 23.00
	14607.00	90.56	271.77	8781.36	6158.04	787.33	-6115.56	0.48	611772.02	611068.20	N 32 40 53.76 W 104	6 24.10
	14702.00	90.67	271.67	8780.35	6252.93	790.18	-6210.51	0.16	611774.87	610973.25	N 32 40 53.79 W 104	6 25.21
	14802.00	90.67	271.27	8779.18	6352.79	792.75	-6310.47	0.40	611777.44	610878.30	N 32 40 53.82 W 104	6 26.38
	14891.00	90.56	271.56	8778.22	6441.66	794.94	-6399.44	0.35	611779.06	610784.34	N 32 40 53.84 W 104	6 27.42
	14986.00	90.78	271.37	8777.11	6536.53	797.37	-6494.40	0.31	611782.06	610689.39	N 32 40 53.87 W 104	6 28.53
	15081.00	90.56	271.62	8776.00	6631.40	799.85	-6589.37	0.3				

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 ° ' ")
100' FWL Crossed	19207.00	90.41	270.65	8731.83	10745.17	810.34	-10714.59	0.06	611795.03	606469.57	N 32 40 54.08 W 104 7 17.91	
	19208.00	90.41	270.65	8731.82	10746.17	810.36	-10715.59	0.06	611795.05	606468.57	N 32 40 54.08 W 104 7 17.92	
Final MWD	19252.00	90.24	270.62	8731.57	10790.07	810.84	-10759.58	0.39	611795.53	606424.57	N 32 40 54.09 W 104 7 18.43	
Proj to TD	19288.00	90.24	270.62	8731.42	10825.99	811.23	-10795.58	0.00	611795.92	606388.58	N 32 40 54.10 W 104 7 18.85	

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 Turkey Track 8-7 State 31H Gyro + MWD 0-19288'MD
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Turkey Track 8-7 State 31H Gyro + MWD 0-19288'MD
	1	26.500	267.910	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Turkey Track 8-7 State 31H Gyro + MWD
	1	267.910	19288.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Turkey Track 8-7 State 31H Gyro + MWD

...Original Borehole\Oxy Turkey Track 8-7 State 31H Gyro + MWD 0-19288'MD