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District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-6120
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico FEB 28 2020
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT
(As-Drilled)

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-45082	Pool Code 50371	Pool Name Pierce Crossing Bone Spring
Property Code 321601	Property Name SALT FLAT CC "20-29" FEDERAL COM	Well Number 33H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 2941.7'

Surface Location

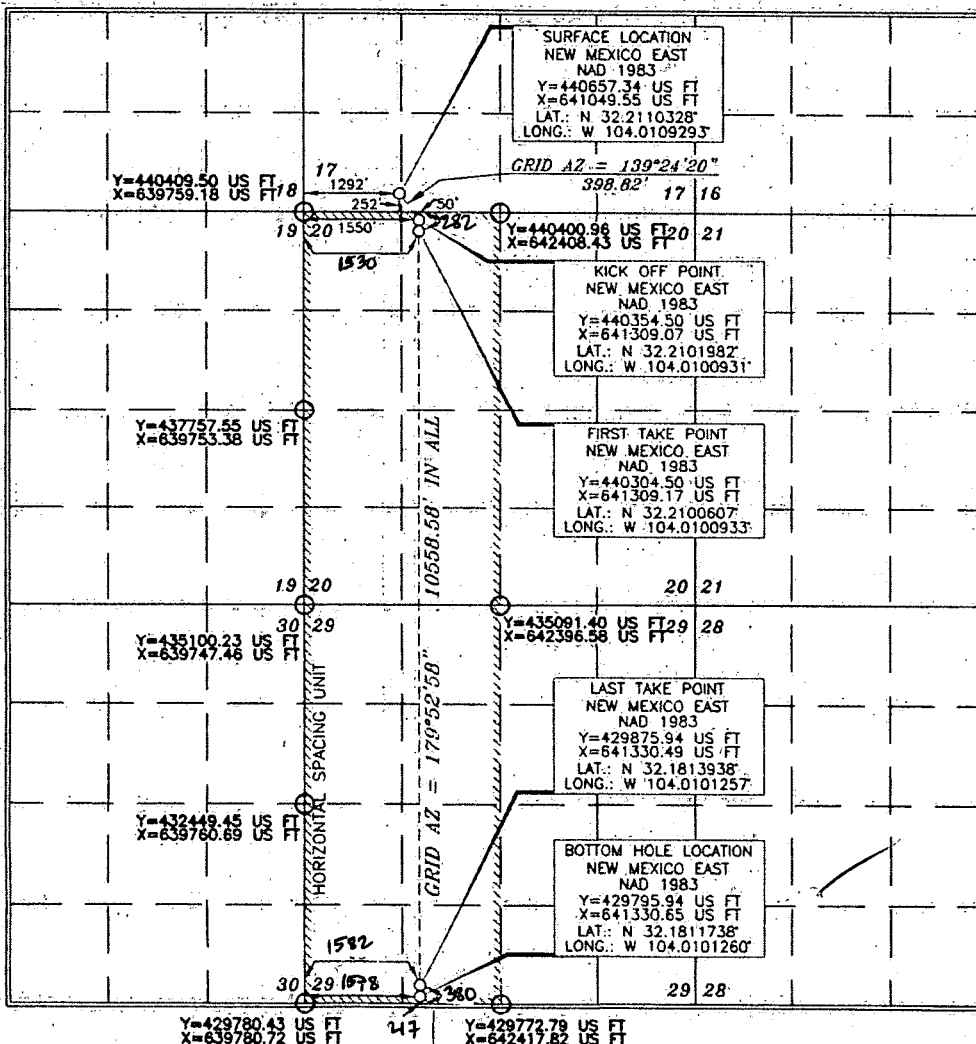
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	17	24 SOUTH	29 EAST, N.M.P.M.		252'	SOUTH	1292'	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	29	24 SOUTH	29 EAST, N.M.P.M.		20' 217'	SOUTH	1550' 1578'	WEST	EDDY

Dedicated Acres 640	Joint or Infill	Consolidation Code	Order No. FTP - 282 FNL 1530 FNL LTP - 380 FSL 1582 FNL
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *[Signature]* Date: 2/26/20
Printed Name: Jana Mendiola
E-mail Address: jana_mendiola@oxy.com

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from a set of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Signature: *[Signature]* Date of Survey: OCTOBER 19, 2017
Professional Surveyor: *[Signature]*
Certificate Number: 15079

WO# 171019WL-b-XY (Rev. A) (KA)

RWP 4-30-20

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FEB 28 2020

Intent ☐ As Drilled ☒

EMNRD-OCDARTESIA

API #
30-015-45082

Operator Name: OXY USA INC.	Property Name: SALT FLAT CC 20-29 FEDERAL COM	Well Number 33H
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Kick Off Point (KOP)

UL C	Section 20	Township 24S	Range 29E	Lot	Feet 72	From N/S N	Feet 1430	From E/W W	County EDDY
Latitude 32.21054					Longitude -104.01049			NAD NAD83	

First Take Point (FTP)

UL C	Section 20	Township 24S	Range 29E	Lot	Feet 282	From N/S N	Feet 1530	From E/W W	County EDDY
Latitude 32.20956					Longitude -104.01017			NAD NAD83	

Last Take Point (LTP)

UL N	Section 29	Township 24S	Range 29E	Lot	Feet 380	From N/S S	Feet 1582	From E/W W	County EDDY
Latitude 32.18217					Longitude -104.01009			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

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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FEB 28 2020

EMNRD-OCD ARTESIA

Well Reference:
S17, T24S, R29E, EDDY, NM
N:32:21103 W -104.01093

I, RAJA A. HAKEEM RAJA SHAHREEN certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of December 11, 2019 through December 22, 2019, conduct or supervise the taking of the SlimPulse & Third Party Corrected surveys from a depth of 534.00 feet to a depth of 19948.00 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 INCORPORATED for the SALT FLAT CC 20-29 FED COM 33H Well (Original Hole) API No. 30-015-45082 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.

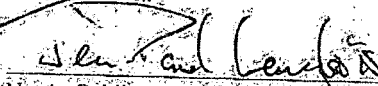
By 
RAJA A. HAKEEM RAJA SHAHREEN
FE

Subscribed and Sworn to before me this 22 day of January (month) 2020 (yr)

My Commission expires:

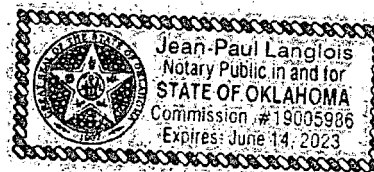
6/14/23

Notary Public


Jean-Paul Langlois

(signature)

(County State)



Schlumberger

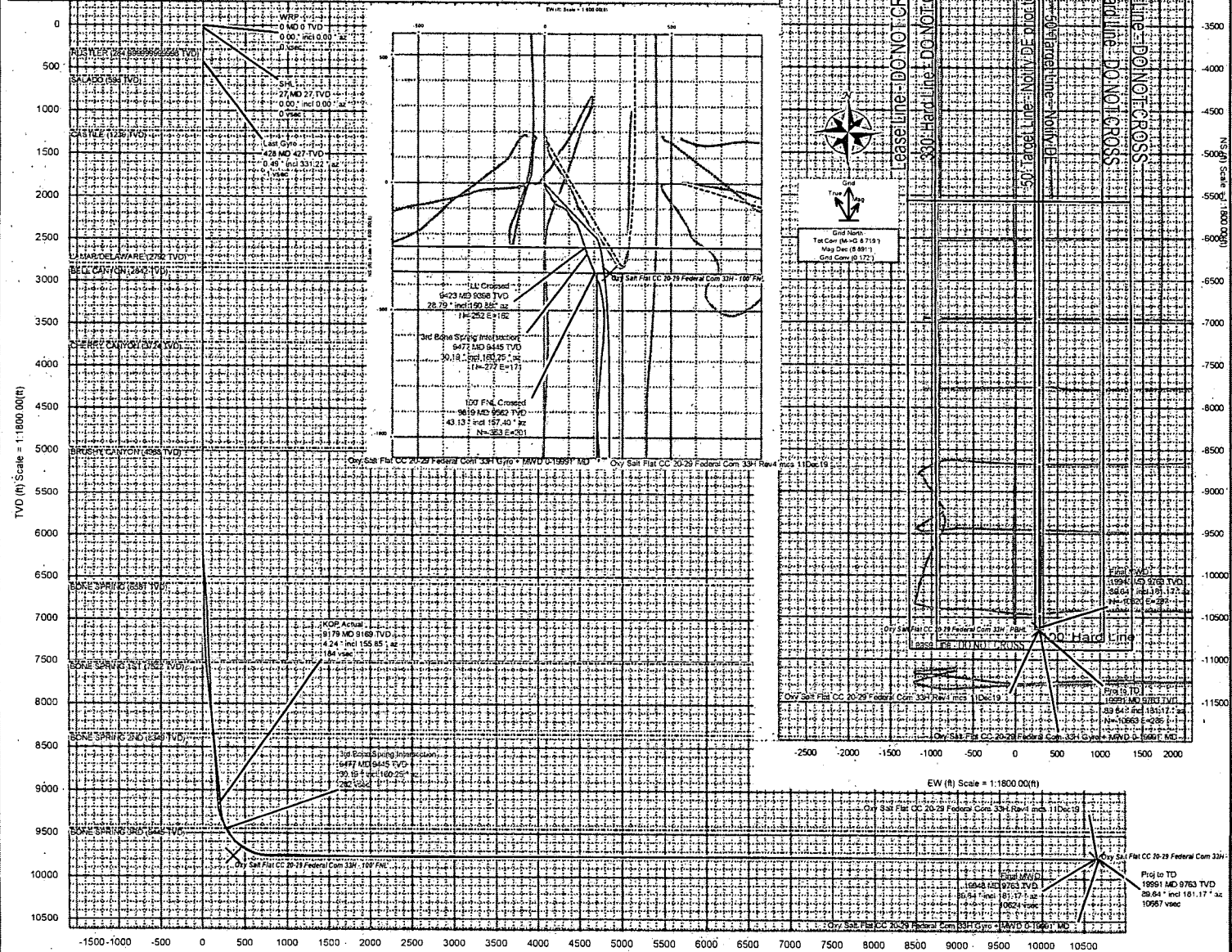
OXY



Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Salt Flat CC 20-29 Federal Com 33H	NM Eddy County (NAD 83)	Oxy Salt Flat CC 20-29 Federal Com 33H

Gravity & Magnetic Parameters				Surface Location				Miscellaneous			
Model:	IFR1	Dip:	59.919°	Date:	09-Dec-2019	Lat:	N 32 12 39.72	Northing:	440657.34RUS	Grid Conv:	0.1719°
MagDec:	6.891°	FS:	47847.5nT	Gravity FS:	998.467mgal (9.80565 Based)	Lon:	W 104 0 39.35	Easting:	641049.55RUS	Scale Fact:	0.99992048
								Plan:			
								Oxy Salt Flat CC 20-29 Federal Com 33H Gyro + MWD 0-19991' MD			

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	427.50	0.49	331.22	427.49	-0.58	0.54	-1.35	0.09	
KOP Actual	9179.00	4.24	155.85	9168.94	183.64	-180.08	137.93	-0.89	
LL Crossed	9423.00	28.79	160.88	9398.18	256.59	-252.42	162.34	1.86	
3rd Bone Spring Intersection	9476.94	30.19	160.25	9445.20	281.76	-277.36	171.09	4.72	
100' FNL Crossed	9619.00	43.13	157.40	9561.52	357.92	-352.78	200.66	14.86	
Final MWD	19948.00	89.64	181.17	9763.06	10624.26	-10620.39	286.76	1.45	
Proj to TD	19991.00	89.64	181.17	9763.33	10667.21	-10663.38	285.89	0.00	



Vertical Section (ft) Azim = 178.50° Scale = 1:1800.00(ft) Origin = ON-S, 0E-W

Oxy Salt Flat CC 20-29 Federal Com 33H Gyro + MWD 0-19991' MD Survey

Geodetic Report

(Def Survey)



Report Date: January 20, 2020 - 02:16 PM
 Client: OXY
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Oxy Salt Flat CC 20-29 Federal Com 33H / Oxy Salt Flat CC 20-29 Federal Com 33H
 Well: Oxy Salt Flat CC 20-29 Federal Com 33H
 Borehole: Original Borehole
 UWI / API#: Unknown / 30-015-45082
 Survey Name: Oxy Salt Flat CC 20-29 Federal Com 33H Gyro + MWD 0-19991' MD
 Survey Date: November 27, 2019
 Tort / AHD / DDI / ERO Ratio: 228.966 * / 10757.639 ft / 6.702 / 1.101
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 12' 39.71803", W 104° 0' 39.34543"
 Location Grid N/E Y/X: N 440657.340 ftUS, E 641049.550 ftUS
 CRS Grid Convergence Angle: 0.1719 *
 Grid Scale Factor: 0.99992048
 Version / Patch: 2.10.782.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 178.496 * (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 2968.200 ft above MSL
 Seabed / Ground Elevation: 2941.700 ft above MSL
 Magnetic Declination: 6.891 *
 Total Gravity Field Strength: 998.4672mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 47847.600 nT
 Magnetic Dip Angle: 59.919 *
 Declination Date: December 09, 2019
 Magnetic Declination Model: IFR1
 North Reference: Grid North
 Grid Convergence Used: 0.1719 *
 Total Corr Mag North->Grid: 6.7191 *
 North: 6.7191 *
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
WRP SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	440657.34	641049.55	N 32 12 39.72 W 104	0 39 35
	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	440657.34	641049.55	N 32 12 39.72 W 104	0 39 35
	114.50	0.18	230.72	114.50	0.08	-0.09	-0.11	0.20	440657.25	641049.44	N 32 12 39.72 W 104	0 39 35
Last Gyro	141.50	0.22	207.30	141.50	0.16	-0.16	-0.16	0.33	440657.18	641049.39	N 32 12 39.72 W 104	0 39 35
	168.50	0.24	203.38	168.50	0.25	-0.26	-0.21	0.09	440657.08	641049.34	N 32 12 39.72 W 104	0 39 35
	193.50	0.30	229.05	193.50	0.34	-0.35	-0.28	0.53	440656.99	641049.27	N 32 12 39.71 W 104	0 39 35
	220.50	0.30	247.50	220.50	0.41	-0.42	-0.40	0.36	440656.92	641049.15	N 32 12 39.71 W 104	0 39 35
	249.50	0.29	275.54	249.50	0.43	-0.44	-0.54	0.49	440656.90	641049.01	N 32 12 39.71 W 104	0 39 35
	281.50	0.34	301.47	281.50	0.37	-0.39	-0.70	0.47	440656.95	641048.85	N 32 12 39.71 W 104	0 39 35
	312.50	0.43	318.19	312.50	0.23	-0.25	-0.86	0.46	440657.09	641048.69	N 32 12 39.72 W 104	0 39 36
	344.50	0.46	327.58	344.50	0.03	-0.05	-1.01	0.25	440657.29	641048.54	N 32 12 39.72 W 104	0 39 36
	375.50	0.47	328.40	375.50	-0.19	0.16	-1.14	0.04	440657.50	641048.41	N 32 12 39.72 W 104	0 39 36
	407.50	0.49	333.34	407.49	-0.43	0.39	-1.27	-0.14	440657.73	641048.28	N 32 12 39.72 W 104	0 39 36
	427.50	0.49	331.22	427.49	-0.58	0.54	-1.35	0.09	440657.88	641048.20	N 32 12 39.72 W 104	0 39 36
	534.00	0.20	12.79	533.99	-1.16	1.12	-1.53	0.34	440658.46	641048.02	N 32 12 39.73 W 104	0 39 36
	625.00	0.17	78.71	624.99	-1.34	1.31	-1.36	0.22	440658.65	641048.19	N 32 12 39.73 W 104	0 39 36
	715.00	0.20	186.36	714.99	-1.21	1.18	-1.25	0.33	440658.52	641048.30	N 32 12 39.73 W 104	0 39 36
	806.00	0.13	302.29	805.99	-1.11	1.07	-1.35	0.31	440658.41	641048.20	N 32 12 39.73 W 104	0 39 36
	896.00	0.20	215.20	895.99	-1.04	1.00	-1.53	0.26	440658.34	641048.02	N 32 12 39.73 W 104	0 39 36
	986.00	0.20	75.40	985.99	-0.95	0.91	-1.47	0.42	440658.25	641048.08	N 32 12 39.73 W 104	0 39 36
	1078.00	0.19	290.22	1077.99	-1.04	1.00	-1.46	0.40	440658.34	641048.09	N 32 12 39.73 W 104	0 39 36
	1169.00	0.17	31.94	1168.99	-1.21	1.17	-1.53	0.31	440658.51	641048.02	N 32 12 39.73 W 104	0 39 36
	1260.00	0.20	293.21	1259.99	-1.39	1.35	-1.60	0.31	440658.69	641047.95	N 32 12 39.73 W 104	0 39 36
	1350.00	0.13	151.71	1349.99	-1.36	1.32	-1.70	0.35	440658.66	641047.85	N 32 12 39.73 W 104	0 39 37
	1441.00	0.20	318.77	1440.99	-1.39	1.35	-1.75	0.36	440658.69	641047.80	N 32 12 39.73 W 104	0 39 37
	1531.00	0.17	40.20	1530.99	-1.61	1.57	-1.77	0.27	440658.91	641047.78	N 32 12 39.73 W 104	0 39 37
	1716.00	0.17	143.01	1715.99	-1.60	1.56	-1.43	0.14	440658.90	641048.12	N 32 12 39.73 W 104	0 39 36
	1811.00	0.17	98.97	1810.99	-1.46	1.42	-1.20	0.13	440658.76	641048.35	N 32 12 39.73 W 104	0 39 36
	1906.00	0.17	114.54	1905.99	-1.37	1.34	-0.94	0.05	440658.68	641048.61	N 32 12 39.73 W 104	0 39 36
	2001.00	0.16	258.55	2000.99	-1.28	1.26	-0.94	0.33	440658.60	641048.61	N 32 12 39.73 W 104	0 39 36
	2095.00	0.20	212.13	2094.99	-1.12	1.09	-1.15	0.16	440658.43	641048.40	N 32 12 39.73 W 104	0 39 36
	2190.00	0.17	22.79	2189.99	-1.11	1.08	-1.19	0.39	440658.42	641048.36	N 32 12 39.73 W 104	0 39 36
	2284.00	0.20	240.62	2283.99	-1.16	1.13	-1.28	0.37	440658.47	641048.27	N 32 12 39.73 W 104	0 39 36
	2379.00	0.10	349.36	2378.99	-1.17	1.13	-1.44	0.26	440658.47	641048.11	N 32 12 39.73 W 104	0 39 36
	2473.00	0.10	341.50	2472.99	-1.33	1.29	-1.48	0.01	440658.63	641048.07	N 32 12 39.73 W 104	0 39 36
	2568.00	0.20	176.59	2567.99	-1.24	1.20	-1.49	0.31	440658.54	641048.06	N 32 12 39.73 W 104	0 39 36
	2662.00	0.14	93.75	2661.99	-1.07	1.03	-1.37	0.24	440658.37	641048.18	N 32 12 39.73 W 104	0 39 36
	2757.00	0.20	202.80	2756.99	-0.91	0.87	-1.32	0.29	440658.21	641048.23	N 32 12 39.73 W 104	0 39 36
	2852.00	0.17	94.55	2851.99	-0.74	0.71	-1.24	0.32	440658.05	641048.31	N 32 12 39.73 W 104	0 39 36
	2946.00	0.21	332.73	2945.98	-0.88	0.85	-1.18	0.35	440658.19	641048.37	N 32 12 39.73 W 104	0 39 36
	3041.00	0.20	295.43	3040.98	-1.11	1.08	-1.41	0.14	440658.42	641048.14	N 32 12 39.73 W 104	0 39 36
	3136.00	0.21	204.59	3135.98	-1.03	0.99	-1.63	0.31	440658.33	641047.92	N 32 12 39.73 W 104	0 39 36
	3230.00	0.20	163.22	3229.98	-0.72	0.67	-1.66	0.15	440658.01	641047.89	N 32 12 39.72 W 104	0 39 36
3420.00	0.20	167.13	3419.98	-0.07	0.03	-1.49	0.01	440657.37	641048.06	N 32 12 39.72 W 104	0 39 36	
3514.00	0.17	262.68	3513.98	0.10	-0.14	-1.59	0.29	440657.20	641047.96	N 32 12 39.72 W 104	0 39 36	
3609.00	0.17	338.08	3608.98	-0.02	-0.03	-1.78	0.22	440657.31	641047.77	N 32 12 39.72 W 104	0 39 37	
3797.00	0.17	12.85	3796.98	-0.55	0.50	-1.82	0.05	440657.84	641047.73	N 32 12 39.72 W 104	0 39 37	
3892.00	0.17	173.98	3891.98	-0.54	0.50	-1.78	0.35	440657.84	641047.77	N 32 12 39.72 W 104	0 39 37	
4081.00	0.20	336.64	4080.98	-0.57	0.52	-1.88	0.19	440657.85	641047.67	N 32 12 39.72 W 104	0 39 37	
4271.00	0.21	358.94	4270.98	-1.23	1.17	-2.03	0.04	440658.51	641047.52	N 32 12 39.73 W 104	0 39 37	
4365.00	0.17	150.73	4364.98	-1.27	1.22	-1.97	0.39	440658.56	641047.58	N 32 12 39.73 W 104	0 39 37	
4460.00	0.17	256.78	4459.98	-1.12	1.07	-2.04	0.29	440658.41	641047.51	N 32 12 39.73 W 104	0 39 37	
4555.00	0.13	80.71	4554.98	-1.11	1.05	-2.07	0.32	440658.39	641047.48	N 32 12 39.73 W 104	0 39 37	
4649.00	0.20	316.34	4648.98	-1.24	1.19	-2.08	0.31	440658.53	641047.47	N 32 12 39.73 W 104	0 39 37	
4744.00	0.17	230.39	4743.98	-1.28	1.22	-2.30	0.27	440658.56	641047.25	N 32 12 39.73 W 104	0 39 37	
4933.00	0.21	359.61	4932.98	-1.45	1.39	-2.52	0.18	440658.73	641047.03	N 32 12 39.73 W 104	0 39 37	
5028.00	0.20	286.12	5027.98	-1.68	1.61	-2.68	0.26	440658.95	641046.87	N 32 12 39.73 W 104	0 39 38	
5123.00	0.20	315.18	5122.98	-1.85	1.77	-2.96	0.11	440659.11	641046.59	N 32 12 39.74 W 104	0 39 38	
5217.00	0.16	304.33	5216.98	-2.04	1.96	-3.18	0.06	440659.30	641046.37	N 32 12 39.74 W 104	0 39 38	
5407.00	0.16	93.54	5406.98	-2.18	2.09	-3.14	0.16	440659.43	641046.41	N 32 12 39.74 W 104	0 39 38	
5501.00	0.19	144.33	5500.98	-2.04	1.96	-2.91	0.16	440659.30	641046.64	N 32 12 39.74 W 104	0 39 38	
5595.00	0.17	249.45	5594.98	-1.86	1.78	-2.95	0.30	440659.12	641046.60	N 32 12 39.74 W 104	0 39 38	
5690.00	0.16	157.57	5689.97	-1.69	1.61	-3.03	0.25	440658.95	641046.52	N 32 12 39.73 W 104	0 39 38	
5785.00	0.13	32.25	5784.97	-1.66	1.58	-2.93	0.27	440658.92	641046.62	N 32 12 39.73 W 104	0 39 38	
5879.00	0.22	145.41	5878.97	-1.59	1.52	-2.77	0.32	440658.86	641046.75	N 32 12 39.73 W 104	0 39 38	
5974.00	0.17	269.16	5973.97	-1.44	1.37	-2.80	0.36	440658.71	641046.75	N 32 12 39.73 W 104	0 39 38	
6068.00	0.37	168.94	6067.97	-1.15	1.07	-2.89	0.46	440658.41	641046.66	N 32 12 39.73 W 104	0 39 38	
6163.00	2.23	166.58	6162.94	0.97	-1.03	-2.40	1.96	440656.31	641047.15	N 32 12 39.71 W 104	0 39 37	
6352.00	5.18	159.36	6351.53	12.63	-12.59	1.46	1.58	440644.75	641051.01	N 32 12 39.59 W 104	0 39 33	
6447.00	5.92	152.06	6446.09	21.07	-20.93	5.27	1.08	440636.41	641054.82	N 32 12 39.51 W 104	0 39 28	
6541.00	5.59	149.84	6539.61	29.42	-29.18	9.84	0.42	440628.17	641059.39	N 32 12 39.43 W 104	0 39 23	
6636.00	5.53	144.28	6634.17	37.27	-36.89	14.84	0.57	440620.45	641064.39	N 32 12 39.35 W 104	0 39 17	
6731.00	5.27	140.51	6728.74	44.49	-43.98	20.29	0.46	440613.37	641069.84	N 32 12 39.28 W 104	0 39 11	
6825.00	3.27	149.94	6822.48	50.25	-49.63	24.38	2.25	440607.72	641073.92	N 32 12 39.23 W 104	0 39 06	
6920.00	2.15	193.64	6917.38	54.35	-53.71	25.31	2.39	440603.64	641074.86	N 32 12 39.19 W 104	0 39 05	
7015.00	1.82	169.66	7012.33	57.56	-56.92	25.16	0.93	440600.42	641074.71	N 32 12 39.15 W 104	0 39 05	
7109.00	2.28	139.00	7106.27	60.48	-59.80	26.66	1.25	440597.54	641076.21	N 32 12 39.13 W 104	0 39 05	

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° °')	Longitude (E/W ° °')
	7204.00	2.93	133.61	7201.17	63.66	-62.90	29.66	0.73	440584.44	641079.20	N 32 12 39.09 W 104	0 37.00
	7298.00	2.83	139.20	7295.05	67.16	-66.32	32.91	0.32	440591.03	641082.46	N 32 12 39.06 W 104	0 38.96
	7393.00	3.37	144.23	7389.91	71.28	-70.36	36.08	0.64	440586.99	641085.62	N 32 12 39.02 W 104	0 38.93
	7488.00	4.38	148.49	7484.69	76.73	-75.72	39.60	1.10	440581.63	641089.15	N 32 12 38.97 W 104	0 38.89
	7583.00	4.94	135.16	7579.38	82.85	-81.71	44.38	1.28	440575.64	641093.93	N 32 12 38.91 W 104	0 38.83
	7677.00	5.04	120.21	7673.03	87.96	-86.66	50.81	1.38	440570.69	641100.35	N 32 12 38.86 W 104	0 38.76
	7772.00	4.94	107.54	7767.67	91.49	-89.99	58.31	1.16	440567.36	641107.86	N 32 12 38.83 W 104	0 38.67
	7867.00	5.49	108.46	7862.28	94.37	-92.66	66.52	0.59	440564.69	641116.07	N 32 12 38.80 W 104	0 38.57
	7961.00	4.98	112.93	7955.89	97.60	-95.67	74.55	0.69	440561.67	641124.09	N 32 12 38.77 W 104	0 38.48
	8056.00	4.71	121.49	8050.55	101.43	-99.32	81.67	0.81	440558.03	641131.21	N 32 12 38.73 W 104	0 38.40
	8151.00	4.50	136.53	8145.24	106.32	-104.06	87.56	1.29	440553.29	641137.10	N 32 12 38.69 W 104	0 38.33
	8245.00	4.76	152.53	8238.94	112.57	-110.20	91.90	1.40	440547.15	641141.44	N 32 12 38.62 W 104	0 38.28
	8340.00	5.11	153.71	8333.59	119.96	-117.49	95.59	0.38	440539.86	641145.13	N 32 12 38.55 W 104	0 38.24
	8434.00	5.68	149.93	8427.17	127.84	-125.27	99.77	0.71	440532.08	641149.32	N 32 12 38.48 W 104	0 38.19
	8624.00	6.32	141.26	8616.14	144.43	-141.56	111.03	0.58	440515.79	641160.57	N 32 12 38.31 W 104	0 38.06
	8718.00	6.79	129.46	8709.52	152.19	-149.13	118.56	1.51	440508.22	641168.10	N 32 12 38.24 W 104	0 37.97
	8813.00	5.41	129.76	8803.98	158.82	-155.56	126.34	1.45	440501.79	641175.88	N 32 12 38.17 W 104	0 37.88
	8907.00	3.37	158.59	8897.71	164.35	-160.97	130.75	3.13	440496.38	641180.29	N 32 12 38.12 W 104	0 37.83
	9002.00	4.57	161.30	8992.49	170.59	-167.15	132.99	1.28	440490.20	641182.53	N 32 12 38.06 W 104	0 37.80
	9096.00	4.48	158.78	9086.19	177.62	-174.12	135.52	0.23	440483.23	641185.05	N 32 12 37.99 W 104	0 37.77
	9140.00	4.52	158.51	9130.06	180.87	-177.34	136.77	0.10	440480.02	641186.31	N 32 12 37.96 W 104	0 37.76
	9179.00	4.24	155.85	9168.94	183.64	-180.08	137.93	0.89	440477.27	641187.46	N 32 12 37.93 W 104	0 37.75
	9274.00	15.15	162.55	9262.45	198.87	-195.18	143.10	11.53	440462.18	641192.64	N 32 12 37.78 W 104	0 37.69
	9368.00	27.78	161.23	9349.75	231.73	-227.77	153.88	13.45	440429.59	641203.41	N 32 12 37.46 W 104	0 37.56
	9423.00	28.79	160.88	9398.18	256.59	-252.42	162.34	1.86	440404.94	641211.88	N 32 12 37.22 W 104	0 37.46
	9462.00	29.51	160.64	9432.24	274.69	-270.35	168.60	1.86	440387.01	641218.14	N 32 12 37.04 W 104	0 37.39
3rd Bone Spring Intersección	9476.94	30.19	160.25	9445.20	281.76	-277.36	171.09	4.72	440380.00	641220.63	N 32 12 36.97 W 104	0 37.36
100' FNL Crossed	9556.00	33.79	158.41	9512.25	321.29	-316.52	185.90	4.72	440340.84	641235.44	N 32 12 36.58 W 104	0 37.19
	9519.00	43.13	157.40	9561.52	357.92	-352.78	200.66	14.86	440304.59	641250.19	N 32 12 36.22 W 104	0 37.02
	9650.00	47.73	157.03	9583.27	378.49	-373.13	209.21	14.86	440284.24	641258.74	N 32 12 36.02 W 104	0 36.92
	9744.00	58.24	170.06	9639.94	450.79	-444.91	229.79	15.70	440212.46	641279.32	N 32 12 35.31 W 104	0 36.69
	9839.00	60.33	178.94	9688.53	532.14	-449.91	237.54	8.33	440131.29	641287.07	N 32 12 34.51 W 104	0 36.60
	9928.00	69.60	184.28	9726.17	612.53	-506.56	235.14	11.74	440050.83	641284.67	N 32 12 33.71 W 104	0 36.63
	10027.00	85.26	185.16	9747.65	708.28	-702.56	227.19	15.84	439954.84	641276.72	N 32 12 32.76 W 104	0 36.73
	10174.00	92.01	184.17	9751.15	854.30	-848.95	215.24	4.64	439808.46	641264.78	N 32 12 31.31 W 104	0 36.87
	10268.00	90.23	179.75	9749.31	948.09	-942.85	212.03	5.07	439714.57	641261.56	N 32 12 30.38 W 104	0 36.91
	10361.00	89.47	176.12	9749.56	1041.06	-1035.77	215.38	3.99	439621.66	641264.91	N 32 12 29.46 W 104	0 36.87
	10454.00	88.37	176.10	9751.31	1133.97	-1128.54	221.69	1.18	439528.90	641271.22	N 32 12 28.54 W 104	0 36.80
	10547.00	88.71	178.30	9753.68	1226.91	-1221.39	226.23	2.39	439436.05	641275.76	N 32 12 27.63 W 104	0 36.76
	10640.00	88.92	177.63	9755.60	1319.88	-1314.31	229.53	0.75	439343.14	641279.06	N 32 12 26.71 W 104	0 36.72
	10734.00	88.88	177.81	9757.41	1413.86	-1408.22	233.27	0.20	439249.24	641282.80	N 32 12 25.78 W 104	0 36.68
	10827.00	89.92	176.80	9758.38	1506.83	-1501.11	237.64	1.56	439156.35	641287.18	N 32 12 24.86 W 104	0 36.63
	10920.00	89.50	175.12	9758.85	1599.73	-1593.87	244.20	1.86	439063.60	641293.73	N 32 12 23.94 W 104	0 36.56
	11013.00	87.68	176.93	9761.14	1692.61	-1686.61	250.64	2.76	438970.87	641300.17	N 32 12 23.02 W 104	0 36.49
	11106.00	88.71	177.23	9764.07	1785.53	-1779.44	255.38	1.15	438878.04	641304.91	N 32 12 22.10 W 104	0 36.44
	11199.00	88.16	178.59	9765.80	1878.51	-1872.36	258.77	1.54	438785.13	641308.30	N 32 12 21.18 W 104	0 36.40
	11292.00	88.64	179.62	9767.59	1971.49	-1965.33	260.22	1.24	438692.17	641309.75	N 32 12 20.26 W 104	0 36.39
	11385.00	88.50	179.32	9769.09	2064.46	-2058.32	261.08	0.98	438599.19	641310.61	N 32 12 19.34 W 104	0 36.38
	11478.00	89.23	179.27	9770.13	2157.44	-2151.30	262.22	0.30	438506.21	641311.75	N 32 12 18.42 W 104	0 36.37
	11572.00	88.78	178.46	9771.76	2251.43	-2245.27	264.09	0.99	438412.25	641313.61	N 32 12 17.49 W 104	0 36.35
	11665.00	89.78	180.62	9772.93	2344.40	-2338.25	264.83	2.56	438319.28	641314.36	N 32 12 16.57 W 104	0 36.34
	11758.00	90.23	178.61	9772.92	2437.38	-2431.25	265.46	2.21	438226.29	641314.99	N 32 12 15.65 W 104	0 36.34
	11851.00	90.16	179.97	9772.60	2530.36	-2524.24	266.61	1.46	438133.31	641316.14	N 32 12 14.73 W 104	0 36.33
	11945.00	89.68	179.62	9772.73	2624.34	-2618.23	266.95	0.83	438039.32	641316.47	N 32 12 13.80 W 104	0 36.33
	12038.00	90.26	179.64	9772.78	2717.32	-2711.23	267.55	-0.62	437946.33	641317.07	N 32 12 12.88 W 104	0 36.33
	12131.00	89.68	181.34	9772.83	2810.26	-2804.23	268.75	1.93	437853.34	641316.28	N 32 12 11.96 W 104	0 36.34
	12218.00	91.02	179.79	9771.69	2903.13	-2897.10	264.91	1.10	437766.38	641314.44	N 32 12 11.01 W 104	0 36.37
	12311.00	90.43	179.79	9770.51	3000.09	-2994.06	265.25	0.63	437673.40	641314.78	N 32 12 9.19 W 104	0 36.37
	12411.00	90.19	180.66	9770.01	3183.05	-3177.19	264.88	0.97	437580.41	641314.41	N 32 12 8.27 W 104	0 36.37
	12504.00	90.26	179.44	9769.84	3276.01	-3270.19	264.80	1.31	437487.42	641314.33	N 32 12 7.35 W 104	0 36.38
	12597.00	90.60	179.49	9768.24	3462.98	-3457.17	265.55	0.18	437394.43	641314.08	N 32 12 6.43 W 104	0 36.38
	12690.00	90.12	180.82	9767.66	3555.94	-3550.17	266.30	1.52	437301.44	641313.82	N 32 12 5.50 W 104	0 36.37
	12784.00	89.78	181.19	9767.74	3647.85	-3642.16	264.68	0.55	437208.45	641313.57	N 32 12 4.58 W 104	0 36.37
	12877.00	90.78	178.96	9767.27	3742.80	-3737.15	264.56	0.55	437115.46	641313.41	N 32 12 3.67 W 104	0 36.39
	12970.00	90.74	179.60	9766.01	3837.79	-3832.13	265.75	0.67	437022.47	641313.09	N 32 12 2.73 W 104	0 36.40
	13064.00	89.74	179.71	9765.62	3931.76	-3926.13	266.32	1.07	436929.48	641312.85	N 32 12 1.79 W 104	0 36.39
	13159.00	89.64	182.21	9766.65	4025.73	-4020.70	266.13	1.32	436836.49	641312.66	N 32 12 0.86 W 104	0 36.43
	13253.00	89.88	181.55	9767.44	4119.70	-4114.68	266.90	0.37	436743.50	641312.47	N 32 12 0.00 W 104	0 36.51
	13348.00	91.15	179.72	9766.60	4213.67	-4208.65	267.67	2.37	436650.51	641312.28	N 32 12 0.00 W 104	0 36.52
	13443.00	89.88	181.55	9767.44	4307.64	-4302.62	268.44	0.54	436557.52	641312.09	N 32 12 0.00 W 104	0 36.52
	13538.00	90.67	179.91	9765.09	4401.61	-4396.59	269.21	1.80	436464.53	641311.90	N 32 12 0.00 W 104	0 36.51
	13633.00	89.47	178.69	9764.97	4495.58	-4490.56	269.98	0.54	436371.54	641311.71	N 32 12 0.00 W 104	0 36.52
	13727.00	90.05	179.90	9765.37	4589.55	-4584.53	270.75	1.41	436278.55	641311.52	N 32 12 0.00 W 104	0 36.51
	13822.00	90.36	180.35	9765.03	4683.52	-4678.50	271.52	0.58	436185.56	641311.33	N 32 12 0.00 W 104	0 36.50
	13917.00	90.05	179.90	9765.37	4777.49	-4772.47	272.29	0.76	436092.57	641311.14	N 32 12 0.00 W 104	0 36.49
	14012.00	90.36	179.63	9764.44	4871.46	-4866.44	273.06	0.63	436000.58	641310.95	N 32 12 0.00 W 104	0 36.48
	14106.00	90.95	179.66	9763.36	4965.43	-4960.41	273.83	0.58	435908.59	641310.76		

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 ° ° '")
	17414.00	89.68	179.49	9764.88	8091.28	-8086.75	278.54	0.37	432571.25	641328.07	N 32 11 19.69 W 104	0 36.39
	17508.00	90.12	179.63	9765.04	8185.26	-8180.75	279.27	0.49	432477.26	641328.79	N 32 11 18.76 W 104	0 36.38
	17602.00	90.40	179.43	9764.62	8279.24	-8274.74	280.04	0.37	432383.27	641328.56	N 32 11 17.83 W 104	0 36.38
	17696.00	89.95	179.60	9764.33	8373.23	-8368.74	280.83	0.51	432289.28	641330.36	N 32 11 16.90 W 104	0 36.37
	17791.00	89.99	179.49	9764.38	8468.21	-8463.74	281.59	0.12	432194.29	641331.11	N 32 11 15.96 W 104	0 36.36
	17885.00	89.99	179.62	9764.39	8562.20	-8557.73	282.32	0.14	432100.30	641331.84	N 32 11 15.03 W 104	0 36.36
	17979.00	90.02	179.20	9764.39	8656.18	-8651.73	283.29	0.45	432006.32	641332.81	N 32 11 14.10 W 104	0 36.35
	18073.00	89.85	179.27	9764.49	8750.18	-8745.72	284.54	0.20	431912.33	641334.07	N 32 11 13.17 W 104	0 36.34
	18167.00	89.88	179.22	9764.71	8844.17	-8839.71	285.78	0.06	431818.35	641335.31	N 32 11 12.24 W 104	0 36.33
	18261.00	89.74	179.19	9765.03	8938.16	-8933.70	287.08	0.15	431724.37	641336.61	N 32 11 11.31 W 104	0 36.32
	18356.00	89.68	179.09	9765.51	9033.15	-9028.69	288.51	0.12	431629.39	641338.04	N 32 11 10.37 W 104	0 36.30
	18450.00	89.92	179.02	9765.83	9127.15	-9122.68	290.06	0.27	431535.41	641339.59	N 32 11 9.44 W 104	0 36.29
	18545.00	89.81	178.84	9766.06	9222.14	-9217.66	291.83	0.22	431440.43	641341.36	N 32 11 8.50 W 104	0 36.27
	18640.00	89.64	178.97	9766.51	9317.14	-9312.64	293.65	0.23	431345.46	641343.18	N 32 11 7.56 W 104	0 36.25
	18735.00	89.81	178.84	9766.97	9412.14	-9407.62	295.46	0.23	431250.48	641344.99	N 32 11 6.62 W 104	0 36.24
	18829.00	90.36	179.00	9766.83	9506.13	-9501.61	297.24	0.61	431156.51	641346.76	N 32 11 5.69 W 104	0 36.22
	18924.00	90.43	179.17	9766.18	9601.13	-9596.59	298.75	0.19	431061.53	641348.28	N 32 11 4.75 W 104	0 36.20
	19018.00	90.16	178.87	9765.69	9695.12	-9690.58	300.36	0.43	430967.55	641349.89	N 32 11 3.82 W 104	0 36.19
	19113.00	90.09	179.39	9765.49	9790.11	-9785.56	301.80	0.55	430872.57	641351.33	N 32 11 2.88 W 104	0 36.18
	19209.00	90.36	180.74	9765.11	9886.08	-9881.56	301.69	1.43	430776.58	641351.22	N 32 11 1.93 W 104	0 36.18
	19304.00	90.09	181.11	9764.73	9980.99	-9976.55	300.16	0.48	430681.61	641349.69	N 32 11 0.99 W 104	0 36.20
	19398.00	89.71	180.75	9764.90	10074.90	-10070.54	298.64	0.56	430587.63	641348.16	N 32 11 0.06 W 104	0 36.22
	19493.00	90.36	180.81	9764.84	10169.83	-10165.53	297.34	0.69	430492.64	641346.87	N 32 10 59.12 W 104	0 36.24
	19587.00	90.29	181.21	9764.31	10263.74	-10259.51	295.69	0.43	430398.67	641345.21	N 32 10 58.19 W 104	0 36.26
	19682.00	90.43	181.11	9763.71	10358.63	-10354.49	293.76	0.18	430303.70	641343.29	N 32 10 57.25 W 104	0 36.29
	19776.00	90.16	181.25	9763.23	10452.53	-10448.47	291.83	0.32	430209.73	641341.35	N 32 10 56.32 W 104	0 36.31
	19870.00	90.19	182.16	9762.94	10546.38	-10542.42	289.03	0.97	430115.78	641338.56	N 32 10 55.39 W 104	0 36.35
330' FSL Crossed	19879.00	90.13	182.05	9762.91	10555.36	-10551.42	288.70	1.45	430106.78	641338.23	N 32 10 55.30 W 104	0 36.35
Final MWD	19948.00	89.64	181.17	9763.06	10624.26	-10620.39	286.76	1.45	430037.82	641336.29	N 32 10 54.62 W 104	0 36.38
Proj to TD	19991.00	89.64	181.17	9763.33	10667.21	-10663.38	285.89	0.00	429994.83	641335.41	N 32 10 54.19 W 104	0 36.39

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 3 *** 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	26.400	26.400 GYD_GC+DROP+OH-Depth Only	Original Borehole / Oxy Salt Flat CC 20-29 Federal Com 33H Gyro + MWD 0-19991' MD
	1	26.500	26.500	Act Stns	26.400	26.400 GYD_GC+DROP+OH-Depth Only	Original Borehole / Oxy Salt Flat CC 20-29 Federal Com 33H Gyro + MWD 0-19991' MD
	1	26.500	427.500	Act Stns	26.400	26.400 GYD_GC+DROP+OH	Original Borehole / Oxy Salt Flat CC 20-29 Federal Com 33H Gyro Original Borehole / Oxy Salt Flat
	1	427.500	19991.000	Act Stns	26.400	26.400 A010Mb_MWD+IFR1+SAG+MS	CC 20-29 Federal Com 33H Gyro + MWD 0-19991' MD