

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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
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 30-015-45573	Pool Code 50371	Pool Name Pierce Crossing Bone Spring	KZ
Property Code 323065	Property Name WIDTH CC "6-7" FEDERAL COM		Well Number 14H
OGRID No. 16696	Operator Name OXY USA INC.		Elevation 2956.5'

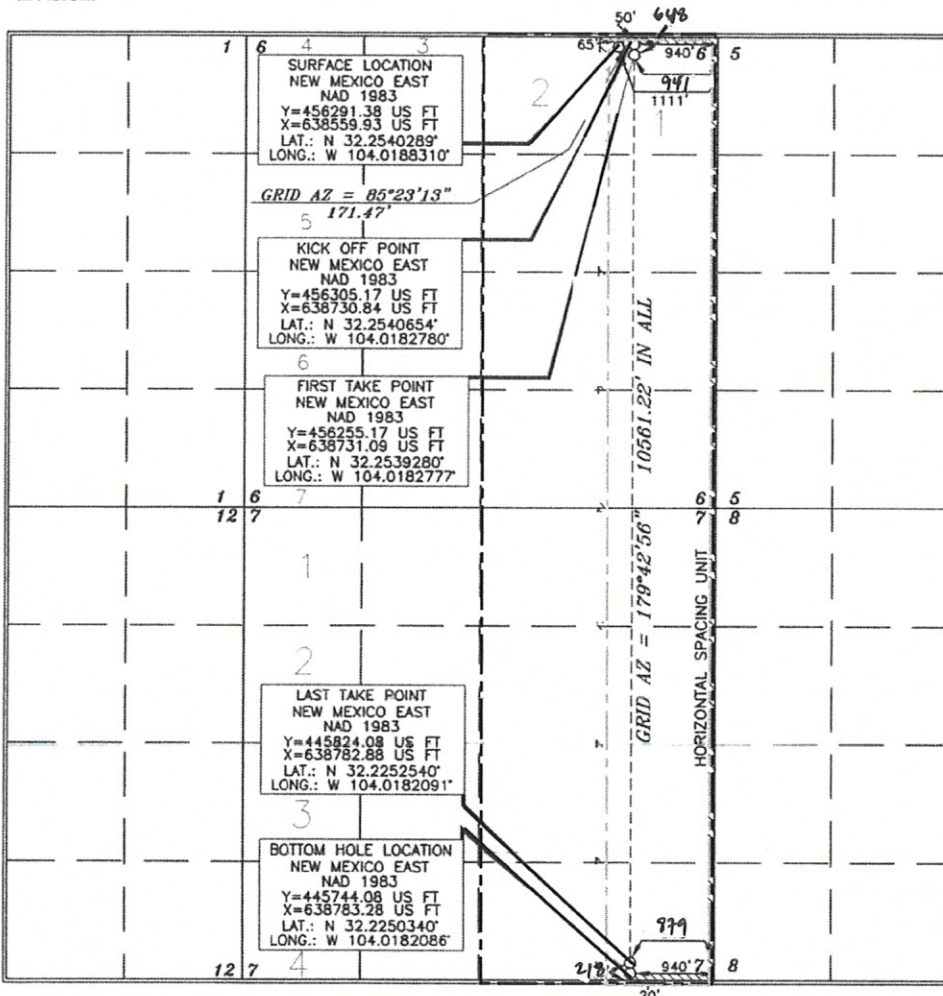
Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	6	24 SOUTH	29 EAST, N.M.P.M.		65'	NORTH	1111'	EAST	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
P	7	24 SOUTH	29 EAST, N.M.P.M.		20' 22"	SOUTH	940' 879	EAST	EDDY
Dedicated Acres 6.40		Joint or Infill	Consolidation Code	Order No.	FTP- 648 FNL 941 FEL LTP- 218 FSL 879 FEL				

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: *Jana Mendiola* Date: **3/16/20**

Printed Name: **Jana Mendiola**

E-mail Address: **janalyn_mendiola@oxy.com**

SURVEYOR CERTIFICATION

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

Date of Survey: **JUNE 26, 2018**

Signature and Seal: *Terry J. As...*
Professional Surveyor

Certificate Number: **15079**

WO# 180626WL-e (KA)

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)



February 6, 2020

Oxy USA Incorporated
5 Greenway Plaza, Suite 110
Houston, TX 77046

Re:

S6, T24S, R29E Eddy, NM
N 32.25403 W -104.01883

CLIENT: Oxy USA Incorporated
WELL: Width CC 6-7 Federal Com 14H
FIELD: Pierce Crossing Bone Spring

RIG: HP 656
COUNTY: Eddy
API NO: 30-015-45573
JOB NO: 20MLH0247

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>
Tyler Matthews FE	Width CC 6-7 Federal Com 14H Original Hole	541.00 Ft to 17642.00 Ft	January 17, 2019 to January 27, 2019	SlimPulse Third Party Corrected

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

Well Reference:
6, 24 South, 29 East, Eddy NM
N 32.25403 W -104.01883

I, Tyler Matthews 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 January 27, 2019, conduct or supervise the taking of the SlimPulse & Third Party Corrected surveys from a depth of 541.00 feet to a depth of 17642.00 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 Width CC 6-7 Federal Com 14H Well (Original Hole) API No. 30-015-45573 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
Tyler Matthews
FE

Tyler Matthews

Subscribed and Sworn to before me this 6 day of February (month) 2020 (yr)

My Commission expires:

6/14/23

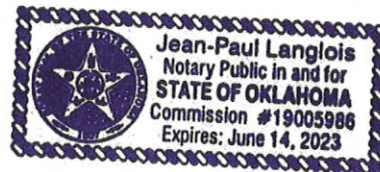
Jean-Paul Langlois

Notary Public

Wenatchee, Oklahoma

(County State)

(signature)



Schlumberger

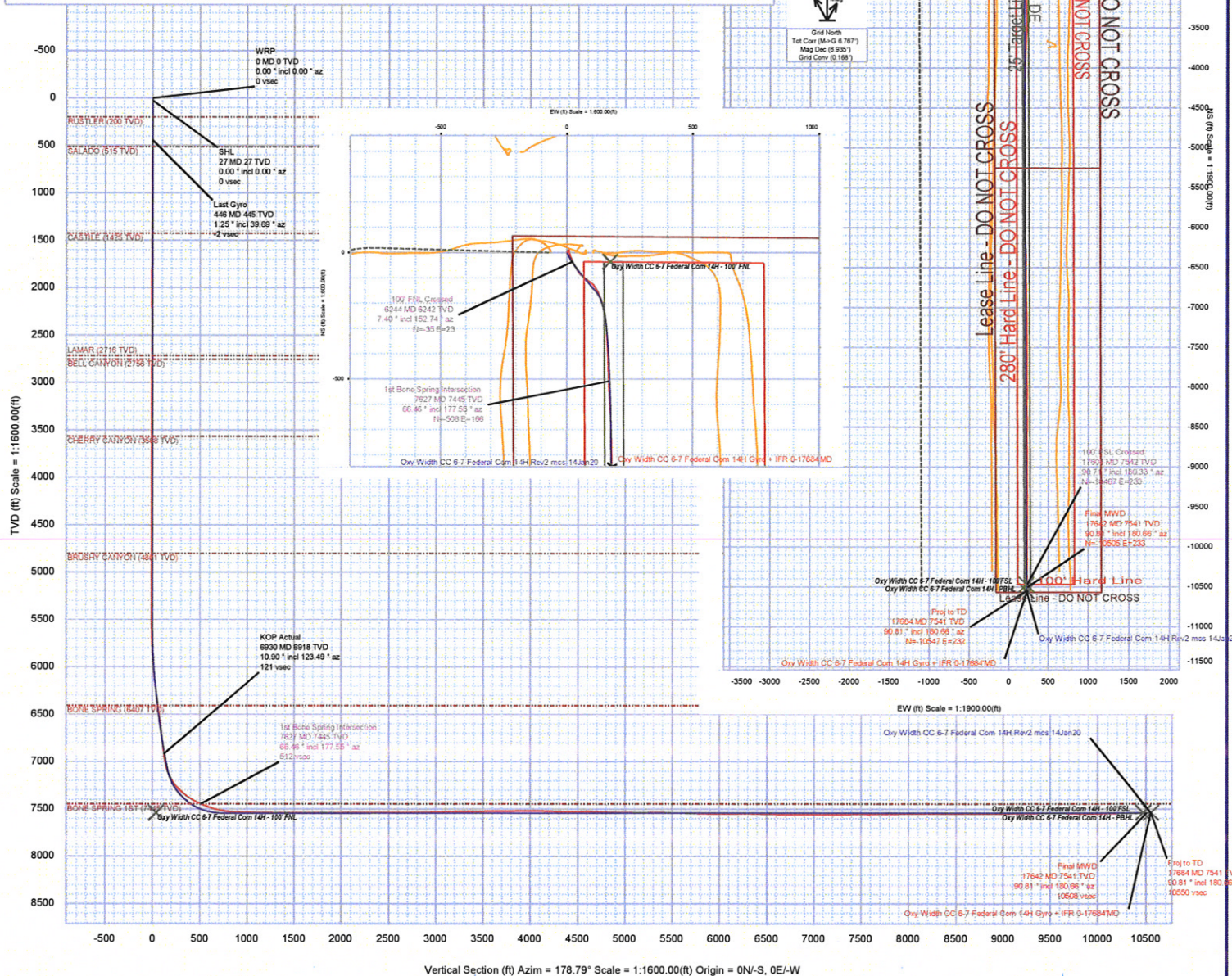
OXY



Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Width CC 6-7 Federal Com 14H	NM Eddy County (NAD 83)	Oxy Width CC 6-7 Federal Com 14H

Gravity & Magnetic Parameters				Surface Location NAD83 New Mexico State Plane, Eastern Zone, US Feet				Miscellaneous			
Model:	IFR1	Dip:	59.971°	Date:	16-Jan-2020	Lat:	N 32 15 14.50	Northing:	456291.38RUS	Grid Conv:	0.1678°
MagDec:	6.935°	FS:	47847.9nT	Gravity FS:	998.471mg (9.80665 Based)	Lon:	W 104 1 7.79	Easting:	638559.93RUS	Scale Fact:	0.99991992
								Slot: Oxy Width CC 6-7 Federal Com 14H			
								TVD Ref: RKB = 26.5' (2983ft above MSL)			
								Plan: Oxy Width CC 6-7 Federal Com 14H Gyro + IFR 0-17684MD			

Critical Points							
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(°)/S(°)	E(°)/W(°)
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
Last Gyro	445.50	1.25	39.69	445.48	-2.07	2.11	1.77
100' FNL Crossed	6244.00	7.40	152.74	6241.54	35.69	-35.21	23.20
KOP Actual	6930.00	10.90	123.49	6918.21	120.89	-118.91	94.86
1st Bone Spring Intersection	7626.91	66.46	177.55	7444.50	511.69	-508.29	165.79
100' FSL Crossed	17604.00	90.71	180.33	7541.89	10469.81	-10467.22	233.25
Final MWD	17642.00	90.81	180.66	7541.42	10507.79	-10505.22	232.83
Proj to TD	17684.00	90.81	180.66	7540.83	10549.76	-10547.21	232.34



Oxy Width CC 6-7 Federal Com 14H Gyro + IFR 0-17684'MD Survey

Geodetic Report

(Def Survey)



Report Date: January 28, 2020 - 01:23 PM Client: OXY Field: NM Eddy County (NAD 83) Structure / Slot: Oxy Width CC 6-7 Federal Com 14H / Oxy Width CC 6-7 Federal Com 14H Well: Oxy Width CC 6-7 Federal Com 14H Borehole: Original Borehole UWI / API#: Unknown / 30-015-45573 Survey Name: Oxy Width CC 6-7 Federal Com 14H Gyro + IFR 0-17684'MD Survey Date: January 11, 2020 Tort / AHD / DDI / ERD Ratio: 271.196 " / 10642.559 ft / 6.830 / 1.409 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet Location Lat / Long: N 32° 15' 14.50393", W 104° 1' 7.79160" Location Grid N/E Y/X: N 456291.380 RUS, E 638559.930 RUS CRS Grid Convergence Angle: 0.1678 ° Grid Scale Factor: 0.99991992 Version / Patch: 2.10.782.0	Survey / DLS Computation: Minimum Curvature / Lubinski Vertical Section Azimuth: 178.787 ° (Grid North) Vertical Section Origin: 0.000 ft, 0.000 ft TVD Reference Datum: RKB = 26.5' TVD Reference Elevation: 2983.000 ft above MSL Seabed / Ground Elevation: 2956.500 ft above MSL Magnetic Declination: 6.935 ° Total Gravity Field Strength: 998.4714mgn (9.80665 Based) Gravity Model: GARM Total Magnetic Field Strength: 47847.900 nT Magnetic Dip Angle: 59.971 ° Declination Date: January 16, 2020 Magnetic Declination Model: IFR1 North Reference: Grid North Grid Convergence Used: 0.1678 ° Total Corr Mag North->Grid North: 6.7672 ° Local Coord Referenced To: Well Head	Minimum Curvature / Lubinski 178.787 ° (Grid North) 0.000 ft, 0.000 ft RKB = 26.5' 2983.000 ft above MSL 2956.500 ft above MSL 6.935 ° 998.4714mgn (9.80665 Based) GARM 47847.900 nT 59.971 ° January 16, 2020 IFR1 Grid North 0.1678 ° 6.7672 ° Well Head
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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 ° ' ")
WRP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	456291.38	638559.93	N 32 15 14.50 W 104 1	7.79
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	456291.38	638559.93	N 32 15 14.50 W 104 1	7.79
	100.50	0.22	196.45	100.50	0.14	-0.14	-0.04	0.30	456291.24	638559.89	N 32 15 14.50 W 104 1	7.79
	126.50	0.12	262.67	126.50	0.19	-0.19	-0.08	0.78	456291.19	638559.85	N 32 15 14.50 W 104 1	7.79
	157.50	0.28	264.12	157.50	0.20	-0.20	-0.19	0.52	456291.18	638559.74	N 32 15 14.50 W 104 1	7.79
	184.50	0.43	42.63	184.50	0.13	-0.13	-0.19	2.47	456291.25	638559.74	N 32 15 14.50 W 104 1	7.79
	213.50	0.21	58.64	213.50	0.02	-0.02	-0.07	0.81	456291.36	638559.86	N 32 15 14.50 W 104 1	7.79
	243.50	0.17	64.08	243.50	-0.02	0.02	0.02	0.15	456291.40	638559.95	N 32 15 14.50 W 104 1	7.79
	270.50	0.49	42.12	270.50	-0.12	0.13	0.13	1.25	456291.51	638560.06	N 32 15 14.51 W 104 1	7.79
	301.50	0.57	42.58	301.50	-0.33	0.34	0.33	0.26	456291.72	638560.26	N 32 15 14.51 W 104 1	7.79
	333.50	0.63	32.06	333.50	-0.59	0.61	0.53	0.39	456291.99	638560.46	N 32 15 14.51 W 104 1	7.79
	364.50	0.92	36.66	364.49	-0.93	0.95	0.77	0.96	456292.33	638560.70	N 32 15 14.51 W 104 1	7.78
	396.50	1.07	43.64	396.49	-1.35	1.37	1.13	0.60	456292.75	638561.06	N 32 15 14.52 W 104 1	7.78
	427.50	1.15	40.41	427.48	-1.79	1.82	1.53	0.33	456293.20	638561.46	N 32 15 14.52 W 104 1	7.77
Last Gyro	445.50	1.25	39.69	445.48	-2.07	2.11	1.77	0.56	456293.49	638561.70	N 32 15 14.52 W 104 1	7.77
	541.00	1.68	32.20	540.95	-4.02	4.09	3.18	0.49	456295.47	638563.11	N 32 15 14.54 W 104 1	7.75
	632.00	0.08	306.86	631.93	-5.18	5.26	3.84	1.84	456296.64	638563.77	N 32 15 14.56 W 104 1	7.75
	727.00	0.23	9.67	726.93	-5.41	5.49	3.82	0.22	456296.87	638563.75	N 32 15 14.56 W 104 1	7.75
	820.00	0.21	2.34	819.93	-5.76	5.84	3.86	0.04	456297.22	638563.79	N 32 15 14.56 W 104 1	7.75
	912.00	0.27	7.05	911.93	-6.14	6.23	3.89	0.07	456297.60	638563.82	N 32 15 14.57 W 104 1	7.75
	1005.00	0.22	13.20	1004.93	-6.53	6.62	3.96	0.06	456298.00	638563.89	N 32 15 14.57 W 104 1	7.75
	1098.00	0.16	17.24	1097.93	-6.83	6.91	4.04	0.07	456298.29	638563.97	N 32 15 14.57 W 104 1	7.74
	1191.00	0.20	24.87	1190.93	-7.10	7.19	4.15	0.05	456298.57	638564.08	N 32 15 14.57 W 104 1	7.74
	1284.00	0.17	17.66	1283.93	-7.37	7.46	4.26	0.04	456298.84	638564.19	N 32 15 14.58 W 104 1	7.74
	1377.00	0.21	55.38	1376.93	-7.60	7.69	4.44	0.14	456299.07	638564.37	N 32 15 14.58 W 104 1	7.74
	1469.00	0.58	68.84	1468.93	-7.85	7.96	5.01	0.41	456299.34	638564.94	N 32 15 14.58 W 104 1	7.73
	1562.00	0.93	4.06	1561.92	-8.76	8.88	5.50	0.93	456300.26	638565.43	N 32 15 14.59 W 104 1	7.73
	1655.00	0.40	112.06	1654.92	-9.38	9.51	5.86	1.20	456300.89	638565.79	N 32 15 14.60 W 104 1	7.72
	1750.00	0.66	30.38	1749.91	-9.72	9.86	6.44	0.76	456301.24	638566.37	N 32 15 14.60 W 104 1	7.72
	1845.00	0.90	62.32	1844.90	-10.52	10.68	7.38	0.51	456302.06	638567.31	N 32 15 14.61 W 104 1	7.71
	1940.00	1.07	327.31	1939.89	-11.61	11.77	7.56	1.53	456303.15	638567.49	N 32 15 14.62 W 104 1	7.70
	2035.00	0.43	247.07	2034.89	-12.23	12.38	6.75	1.14	456303.76	638568.68	N 32 15 14.63 W 104 1	7.71
	2130.00	1.73	126.87	2129.87	-11.22	11.38	7.57	2.09	456302.76	638567.50	N 32 15 14.62 W 104 1	7.70
	2225.00	2.39	106.65	2224.81	-9.72	9.95	10.62	1.02	456301.33	638570.55	N 32 15 14.60 W 104 1	7.67
	2320.00	0.21	146.23	2319.78	-8.97	9.24	12.61	2.35	456300.62	638572.54	N 32 15 14.59 W 104 1	7.64
	2415.00	0.17	96.68	2414.78	-8.80	9.08	12.85	0.17	456300.46	638572.78	N 32 15 14.59 W 104 1	7.64
	2510.00	0.22	100.79	2509.78	-8.75	9.03	13.17	0.05	456300.41	638573.10	N 32 15 14.59 W 104 1	7.64
	2604.00	0.10	314.26	2603.78	-8.77	9.05	13.29	0.33	456300.43	638573.22	N 32 15 14.59 W 104 1	7.64
	2700.00	0.42	316.46	2699.78	-9.09	9.36	12.98	0.33	456300.74	638572.91	N 32 15 14.60 W 104 1	7.64
	2794.00	0.49	322.91	2793.78	-9.67	9.93	12.50	0.09	456301.31	638572.43	N 32 15 14.60 W 104 1	7.65
	2984.00	0.09	342.83	2983.78	-10.47	10.72	11.97	0.21	456302.10	638571.90	N 32 15 14.61 W 104 1	7.65
	3079.00	0.24	339.15	3078.78	-10.73	10.98	11.88	0.16	456302.36	638571.81	N 32 15 14.61 W 104 1	7.65
	3174.00	0.23	321.97	3173.77	-11.07	11.32	11.69	0.07	456302.70	638571.62	N 32 15 14.62 W 104 1	7.66
	3269.00	0.21	249.36	3268.77	-11.16	11.41	11.41	0.27	456302.79	638571.34	N 32 15 14.62 W 104 1	7.66
	3459.00	0.19	301.70	3458.77	-11.22	11.45	10.82	0.09	456302.83	638570.74	N 32 15 14.62 W 104 1	7.67
	3554.00	0.19	16.58	3553.77	-11.45	11.68	10.73	0.24	456303.06	638570.66	N 32 15 14.62 W 104 1	7.67
	3649.00	0.06	303.28	3648.77	-11.63	11.86	10.73	0.19	456303.24	638570.66	N 32 15 14.62 W 104 1	7.67
	3743.00	0.03	259.61	3742.77	-11.66	11.88	10.66	0.05	456303.26	638570.59	N 32 15 14.62 W 104 1	7.67
	3838.00	0.23	271.43	3837.77	-11.66	11.88	10.45	0.21	456303.26	638570.38	N 32 15 14.62 W 104 1	7.67
	4028.00	0.13	250.84	4027.77	-11.61	11.82	9.86	0.06	456303.20	638569.79	N 32 15 14.62 W 104 1	7.68
	4123.00	0.11	96.88	4122.77	-11.57	11.78	9.85	0.25	456303.16	638569.78	N 32 15 14.62 W 104 1	7.68
	4218.00	0.08	119.87	4217.77	-11.52	11.73	10.00	0.05	456303.11	638569.93	N 32 15 14.62 W 104 1	7.67
	4313.00	0.04	320.00	4312.77	-11.51	11.72	10.04	0.12	456303.10	638569.97	N 32 15 14.62 W 104 1	7.67
	4408.00	0.10	266.30	4407.77	-11.53	11.74	9.93	0.09	456303.12	638569.86	N 32 15 14.62 W 104 1	7.68
	4503.00	0.06	270.80	4502.77	-11.53	11.74	9.80	0.04	456303.12	638569.73	N 32 15 14.62 W 104 1	7.68
	4598.00	0.10	128.03	4597.77	-11.48	11.69	9.82	0.16	456303.07	638569.75	N 32 15 14.62 W 104 1	7.68
	4693.00	0.13	286.44	4692.77	-11.46	11.67	9.78	0.24	456303.05	638569.71	N 32 15 14.62 W 104 1	7.68
	4788.00	0.10	234.30	4787.77	-11.45	11.65	9.61	0.11	456303.03	638569.54	N 32 15 14.62 W 104 1	7.68
	4883.00	0.08	107.93	4882.77	-11.38	11.58	9.60	0.17	456302.96	638569.53	N 32 15 14.62 W 104 1	7.68
	4978.00	0.16	265.76	4977.77	-11.35	11.55	9.53	0.25	456302.93	638569.46	N 32 15 14.62 W 104 1	7.68
	5073.00	0.24	238.32	5072.77	-11.24	11.44	9.23	0.13	456302.82	638569.16	N 32 15 14.62 W 104 1	7.68
	5168.00	0.44	223.45	5167.77	-10.88	11.07	8.81	0.23	456302.45	638568.74	N 32 15 14.61 W 104 1	7.69
	5263.00	0.46	254.80	5262.77	-10.53	10.70	8.19	0.26	456302.08	638568.12	N 32 15 14.61 W 104 1	7.70
	5358.00	0.54	269.24	5357.76	-10.44	10.60	7.38	0.16	456301.98	638567.31	N 32 15 14.61 W 104 1	7.71
	5452.00	0.09	240.82	5451.76	-10.41	10.56	6.87	0.49	456301.94	638566.80	N 32 15 14.61 W 104 1	7.71
	5547.00	0.16	140.76	5546.76	-10.27	10.42	6.89	0.21	456301.80	638566.82	N 32 15 14.61 W 104 1	7.71
	5642.00	1.14	160.31	5641.75	-9.27	9.42	7.29	1.04	456300.80	638567.22	N 32 15 14.60 W 104 1	7.71
	5832.00	3.27	167.36	5831.60	-2.16	2.36	9.11	1.13	456293.74	638569.04	N 32 15 14.53 W 104 1	7.69
	5927.00	4.58	164.13	5926.38	4.16	-3.94	10.74	1.40	456287.44	638570.67	N 32 15 14.46 W 104 1	7.67
	6022.00	5.52	164.51	6021.01	12.26	-11.99	13.00	0.99	456279.39	638572.93	N 32 15 14.38 W 104 1	7.64
	6117.00	6.63	156.03	6115.47	21.75	-21.40	16.45	1.50	456269.98	638576.38	N 32 15 14.29 W 104 1	7.60
	6212.00	7.08	152.83	6209.79	32.07	-31.62	21.35	0.62	456259.76	638581.28	N 32 15 14.19 W 104 1	7.54
100' FNL Crossed	6244.00	7.40	152.74	6241.54	35.69	-35.21	23.20	0.99	456256.17	638583.12	N 32 15 14.15 W 104 1	7.52
	6307.00	8.02	152.57	6303.97	43.28	-42.71	27.08	0.99	456248.67	638587.01	N 32 15 14.08 W 104 1	7.48
	6402.00	8.58	151.48	6397.97	55.52	-54.82	33.52	0.61	456236.56	638593.44	N 32 15 13.96 W 104 1	7.40
	6497.00	8.08	149.14	6491.85	68.33	-67.48	40.74	0.65	456223.90	638600.67	N 32 15 13.83 W 104 1	7.32
	6592.00	9.71	142.23	6585.71	80.62	-79.61	49.00	1.19	456211.78	638608.92	N 32 15 13.71 W 104 1	7.22

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 ° ' ")
KOP Actual	6687.00	10.18	133.74	6679.42	92.34	-91.10	59.47	2.13	456200.29	638619.39	N 32 15 13.60 W 104	1 7.10
	6782.00	10.70	128.51	6772.85	103.90	-102.39	72.43	1.14	456189.00	638632.36	N 32 15 13.49 W 104	1 6.95
	6876.00	10.93	126.10	6865.18	114.88	-113.08	86.46	0.54	456178.31	638646.39	N 32 15 13.38 W 104	1 6.79
	6930.00	10.90	123.49	6918.21	120.89	-118.91	94.86	0.92	456172.48	638654.78	N 32 15 13.32 W 104	1 6.69
	7046.00	14.41	147.01	7031.44	139.42	-137.09	111.88	5.32	456154.31	638671.80	N 32 15 13.14 W 104	1 6.49
	7141.00	26.15	154.58	7120.41	168.67	-166.01	127.36	12.64	456125.38	638687.28	N 32 15 12.86 W 104	1 6.31
	7236.00	33.25	163.78	7202.92	213.00	-210.01	143.65	8.86	456081.39	638703.57	N 32 15 12.42 W 104	1 6.13
	7331.00	41.80	174.98	7278.29	269.92	-266.73	153.72	11.48	456024.68	638713.64	N 32 15 11.86 W 104	1 6.01
	7426.00	51.34	176.53	7343.52	338.74	-335.45	158.75	10.11	455955.96	638718.67	N 32 15 11.18 W 104	1 5.95
	7521.00	59.97	178.17	7397.07	417.07	-413.73	162.32	9.19	455877.69	638722.23	N 32 15 10.41 W 104	1 5.92
1st Bone Spring Intersection	7616.00	66.12	177.70	7440.11	501.70	-498.31	165.38	6.49	455793.11	638725.29	N 32 15 9.57 W 104	1 5.88
	7626.91	66.46	177.55	7444.50	511.69	-508.29	165.79	3.36	455783.13	638725.71	N 32 15 9.47 W 104	1 5.88
	7711.00	69.07	176.39	7476.32	589.48	-586.01	169.91	3.36	455705.42	638729.83	N 32 15 8.70 W 104	1 5.83
	7806.00	76.92	177.76	7504.08	680.21	-676.67	174.52	8.38	455614.77	638734.44	N 32 15 7.80 W 104	1 5.78
	7901.00	81.86	179.35	7521.57	773.55	-769.98	176.87	5.45	455521.46	638736.78	N 32 15 6.88 W 104	1 5.76
	7996.00	87.91	179.01	7530.04	868.13	-864.55	178.22	6.38	455426.90	638738.14	N 32 15 5.94 W 104	1 5.75
	8056.00	89.25	178.45	7531.52	928.11	-924.51	179.55	2.42	455366.94	638739.47	N 32 15 5.35 W 104	1 5.73
	8071.00	89.20	178.92	7531.72	943.11	-939.51	179.90	3.15	455351.95	638739.81	N 32 15 5.20 W 104	1 5.73
	8166.00	88.96	182.11	7533.25	1038.04	-1034.48	179.04	3.37	455256.99	638738.96	N 32 15 4.26 W 104	1 5.74
	8261.00	89.17	181.38	7534.80	1132.90	-1129.42	176.15	0.80	455162.05	638736.06	N 32 15 3.32 W 104	1 5.78
	8356.00	88.96	178.65	7536.35	1227.85	-1224.40	176.12	2.88	455067.08	638736.04	N 32 15 2.38 W 104	1 5.78
	8546.00	89.92	175.47	7538.21	1417.73	-1414.11	185.87	1.75	454877.38	638745.78	N 32 15 0.51 W 104	1 5.68
	8641.00	89.89	177.11	7538.37	1512.64	-1508.91	192.01	1.73	454782.59	638751.93	N 32 14 59.57 W 104	1 5.61
	8736.00	89.82	178.28	7538.61	1607.62	-1603.83	195.84	1.23	454687.68	638755.75	N 32 14 58.63 W 104	1 5.57
	8831.00	89.79	177.17	7538.93	1702.60	-1698.76	199.61	1.17	454592.76	638759.52	N 32 14 57.69 W 104	1 5.53
	8924.00	91.02	178.77	7538.27	1795.58	-1791.69	202.90	2.17	454499.84	638762.81	N 32 14 56.77 W 104	1 5.49
	9016.00	90.10	180.08	7537.37	1887.57	-1883.68	203.82	1.74	454407.86	638763.74	N 32 14 55.86 W 104	1 5.48
	9202.00	90.44	182.26	7536.50	2073.40	-2069.63	200.03	1.19	454221.92	638759.94	N 32 14 54.02 W 104	1 5.53
	9295.00	90.20	182.15	7535.98	2168.23	-2162.56	196.45	0.28	454129.00	638756.36	N 32 14 53.10 W 104	1 5.58
	9388.00	89.96	179.27	7535.85	2259.17	-2255.54	195.30	3.11	454036.03	638755.21	N 32 14 52.18 W 104	1 5.59
	9481.00	89.99	179.60	7535.89	2352.16	-2348.53	196.21	0.36	453943.04	638756.13	N 32 14 51.26 W 104	1 5.59
	9573.00	90.37	176.62	7535.80	2444.14	-2440.47	199.25	3.27	453851.11	638759.16	N 32 14 50.35 W 104	1 5.55
	9666.00	89.68	176.47	7535.56	2537.07	-2533.30	204.85	0.76	453758.28	638764.76	N 32 14 49.43 W 104	1 5.49
	9759.00	90.51	177.88	7535.40	2630.03	-2626.19	209.43	1.76	453665.41	638769.35	N 32 14 48.51 W 104	1 5.44
	9852.00	90.85	177.65	7534.30	2723.01	-2719.11	213.06	0.44	453572.49	638772.97	N 32 14 47.59 W 104	1 5.40
	9944.00	90.99	182.74	7532.82	2814.94	-2811.07	212.75	5.53	453480.54	638772.66	N 32 14 46.68 W 104	1 5.41
	10037.00	90.16	180.50	7531.89	2907.82	-2904.02	210.12	2.57	453387.60	638770.03	N 32 14 45.76 W 104	1 5.44
	10130.00	91.57	179.24	7530.48	3000.78	-2997.00	210.33	2.03	453294.62	638770.24	N 32 14 44.84 W 104	1 5.44
	10222.00	91.06	182.07	7528.37	3092.70	-3088.96	209.28	3.12	453202.67	638769.19	N 32 14 43.93 W 104	1 5.46
	10317.00	91.09	177.25	7526.59	3187.63	-3183.86	211.50	7.18	453107.78	638771.41	N 32 14 42.99 W 104	1 5.44
	10412.00	90.30	177.72	7525.44	3282.54	-3278.67	210.30	2.73	453012.98	638777.23	N 32 14 42.05 W 104	1 5.37
	10507.00	90.51	178.69	7524.76	3377.53	-3373.62	210.27	1.04	452918.04	638780.21	N 32 14 41.12 W 104	1 5.34
	10602.00	90.51	182.55	7523.92	3472.46	-3468.59	219.27	4.06	452823.07	638779.18	N 32 14 40.18 W 104	1 5.36
	10697.00	90.37	183.59	7523.19	3567.19	-3563.45	214.18	1.10	452728.22	638778.18	N 32 14 39.24 W 104	1 5.42
	10792.00	90.30	181.51	7522.63	3661.98	-3658.35	209.96	2.19	452633.33	638774.09	N 32 14 38.30 W 104	1 5.47
	10887.00	90.54	181.80	7521.94	3756.86	-3753.31	207.21	0.40	452538.38	638767.13	N 32 14 37.36 W 104	1 5.51
	10982.00	90.96	181.87	7520.69	3851.71	-3848.25	204.17	0.45	452443.44	638764.08	N 32 14 36.42 W 104	1 5.55
	11077.00	90.68	180.44	7519.33	3946.62	-3943.22	202.26	1.53	452348.48	638762.17	N 32 14 35.48 W 104	1 5.57
	11172.00	89.41	182.20	7519.26	4041.52	-4038.19	200.07	2.28	452253.52	638759.98	N 32 14 34.54 W 104	1 5.60
	11267.00	88.96	181.21	7520.61	4136.39	-4133.14	197.24	1.14	452158.58	638757.16	N 32 14 33.60 W 104	1 5.64
	11457.00	87.96	183.99	7525.72	4325.88	-4322.85	188.63	1.55	451968.88	638748.54	N 32 14 31.72 W 104	1 5.74
	11551.00	90.06	184.27	7527.34	4419.45	-4416.59	181.86	2.25	451875.15	638741.77	N 32 14 30.80 W 104	1 5.82
	11646.00	90.96	181.25	7526.50	4514.20	-4511.46	177.29	3.32	451780.29	638737.20	N 32 14 29.86 W 104	1 5.88
	11741.00	89.92	179.84	7525.77	4609.15	-4606.45	176.38	1.84	451685.31	638736.30	N 32 14 28.92 W 104	1 5.90
	11836.00	87.34	178.09	7528.04	4704.11	-4701.40	178.10	3.28	451590.37	638738.01	N 32 14 27.98 W 104	1 5.88
	11931.00	88.79	178.39	7531.25	4799.05	-4796.30	181.01	1.56	451495.48	638740.93	N 32 14 27.04 W 104	1 5.85
	12026.00	88.03	179.04	7533.88	4894.01	-4891.23	183.14	1.05	451400.55	638743.06	N 32 14 26.10 W 104	1 5.83
	12120.00	89.58	178.29	7535.84	4987.99	-4985.18	185.33	1.83	451306.60	638745.25	N 32 14 25.17 W 104	1 5.80
	12215.00	89.23	177.59	7536.83	5082.97	-5080.12	188.75	0.82	451211.68	638748.66	N 32 14 24.23 W 104	1 5.77
	12310.00	90.34	178.22	7537.19	5177.96	-5175.05	192.22	1.34	451116.75	638752.13	N 32 14 23.29 W 104	1 5.73
	12405.00	90.08	178.33	7536.84	5272.96	-5270.01	195.08	0.30	451021.81	638754.99	N 32 14 22.35 W 104	1 5.70
	12500.00	90.36	178.59	7536.47	5367.95	-5364.97	197.63	0.40	450926.85	638757.55	N 32 14 21.41 W 104	1 5.67
	12595.00	87.33	180.21	7538.39	5462.91	-5459.93	198.63	3.62	450831.89	638758.54	N 32 14 20.47 W 104	1 5.67
	12690.00	89.33	182.02	7541.16	5557.79	-5554.87	196.78	2.84	450736.97	638756.69	N 32 14 19.53 W 104	1 5.69
	12785.00	88.98	183.64	7542.56	5652.54	-5649.74	192.09	1.74	450642.11	638752.00	N 32 14 18.59 W 104	1 5.75
	12880.00	88.15	182.16	7544.94	5747.26	-5744.58	187.28	1.79	450547.27	638747.20	N 32 14 17.66 W 104	1 5.81
	12975.00	88.84	178.82	7547.43	5842.17	-5839.53	186.47	3.59	450452.33	638746.39	N 32 14 16.72 W 104	1 5.82
	13070.00	89.84	178.21	7548.53	5937.16	-5934.49	188.93	1.23	450357.38	638748.85	N 32 14 15.78 W 104	1 5.79
	13165.00	90.29	176.40	7548.42	6032.13	-6029.38	193.40	1.96	450262.49	638753.31	N 32 14 14.84 W 104	1 5.75
	13259.00	89.67	176.83	7548.45	6126.06	-6123.22	198.95	0.80	450168.67	638758.86	N 32 14 13.91 W 104	1 5.68
	13354.00	91.56	174.49	7547.93	6220.90	-6217.93	206.14	3.17	450073.96	638766.05	N 32 14 12.97 W 104	1 5.60
	13449.00	88.53	178.01	7547.36	6315.78	-6312.70	212.35	4.89	449979.20	638772.26	N 32 14 12.03 W 104	1 5.53
	13543.00	88.46	179.53	7549.83	6409.75	-6406.64	214.37	1.62	449885.26	638774.28	N 32 14 11.10 W 104	1 5.51
	13638.00	89.05	179.80	7551.89	6504.71	-6501.62	214.92	0.68	449790.30	638774.83	N 32 14 10.16 W 104	1 5.51
	13733.00	88.95	179.96	7553.55	6599.68	-6596.60	215.12	0.20	449695.32	638775.03	N 32 14 9.22 W 104	1 5.51
	13828.00	89.08	179.31	7555.18	6694.65	-6691.59	215.73	0.70	449600.34	638775.64	N 32 14 8.28 W 104	1 5.51

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 ° ' ")
	17055.00	90.32	179.82	7548.84	9920.95	-9918.29	230.61	1.30	446373.90	638790.52	N 32 13 36.35 W 104 1 5.45	
	17150.00	90.63	180.04	7548.06	10015.93	-10013.29	230.72	0.40	446278.91	638790.63	N 32 13 35.41 W 104 1 5.45	
	17244.00	90.84	179.20	7546.85	10109.91	-10107.28	231.35	0.92	446184.93	638791.26	N 32 13 34.48 W 104 1 5.44	
	17339.00	91.01	180.76	7545.32	10204.88	-10202.26	231.38	1.65	446089.95	638791.29	N 32 13 33.55 W 104 1 5.45	
	17434.00	90.50	179.57	7544.07	10299.84	-10297.25	231.11	1.36	445994.97	638791.02	N 32 13 32.61 W 104 1 5.45	
	17529.00	90.87	178.65	7542.93	10394.83	-10392.23	232.58	1.04	445900.00	638792.49	N 32 13 31.67 W 104 1 5.44	
100' FSL Crossed	17604.00	90.71	180.33	7541.89	10469.81	-10467.22	233.25	2.25	445825.02	638793.16	N 32 13 30.92 W 104 1 5.43	
	17624.00	90.67	180.78	7541.65	10489.80	-10487.22	233.05	2.25	445805.02	638792.96	N 32 13 30.73 W 104 1 5.44	
Final MWD	17642.00	90.81	180.66	7541.42	10507.79	-10505.22	232.83	1.02	445787.03	638792.74	N 32 13 30.55 W 104 1 5.44	
Proj to TD	17684.00	90.81	180.66	7540.83	10549.76	-10547.21	232.34	0.00	445745.04	638792.25	N 32 13 30.13 W 104 1 5.45	

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 Width CC 6-7 Federal Com 14H Gyro + IFR 0-17684'MD
	1	26.500	26.500	Act Stns	26.400	26.400	GYD_GC+DROP+OH-Depth Only	Original Borehole / Oxy Width CC 6-7 Federal Com 14H Gyro + IFR 0-17684'MD
	1	26.500	445.500	Act Stns	26.400	26.400	GYD_GC+DROP+OH	Original Borehole / Oxy Width CC 6-7 Federal Com 14H Gyro + IFR Original Borehole / Oxy Width CC
	1	445.500	17684.000	Act Stns	26.400	26.400	A010Mb_MWD+IFR1+SAG+MS	6-7 Federal Com 14H Gyro + IFR 0-17684'MD

...Original Borehole\Oxy Width CC 6-7 Federal Com 14H Gyro + IFR 0-17684'MD