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Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
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District III
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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) 476-3488

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

EMNRD- OCD ARTESIA

RECEIVED: 3/18/2020 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
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' 8"	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.

50' 648 65' 22" 940' 8" 1111' 941' 1111' GRID AZ = 85°23'13" 171.47' KICK OFF POINT NEW MEXICO EAST NAD 1983 Y=456291.38 US FT X=638559.93 US FT LAT.: N 32.2540289° LONG.: W 104.0188310° FIRST TAKE POINT NEW MEXICO EAST NAD 1983 Y=456255.17 US FT X=638731.09 US FT LAT.: N 32.2539280° LONG.: W 104.0182777° LAST TAKE POINT NEW MEXICO EAST NAD 1983 Y=445824.08 US FT X=638782.88 US FT LAT.: N 32.2252540° LONG.: W 104.0182091° BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1983 Y=445744.08 US FT X=638783.28 US FT LAT.: N 32.2250340° LONG.: W 104.0182086° GRID AZ = 179°42'56" 10561.22' IN ALL 179°42'56" HORIZONTAL SPACING UNIT 20'	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. <i>[Signature]</i> 3/16/20 Signature Date Jana Mendiola Printed Name janalyn_mendiola@oxy.com E-mail Address SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me under my supervision and that the same is true and correct to the best of my belief. <i>[Signature]</i> 4/3/2018 Date of Survey Professional Surveyor Certificate Number 15079 WOF 180626WL-e (KA)
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RWP 5/1/2020

Intent ☐ As Drilled ☒

API # 30-05-45573		
Operator Name: OXY USA Inc.	Property Name: Widfh CC 6-7 Federal Com	Well Number 14H

Kick Off Point (KOP)

UL A	Section 6	Township 24S	Range 29E	Lot	Feet 202	From N/S N	Feet 999	From E/W E	County Eddy
Latitude 32.25365					Longitude -104.01847			NAD NAD83	

First Take Point (FTP)

UL A	Section 6	Township 24S	Range 29E	Lot	Feet 648	From N/S N	Feet 941	From E/W E	County Eddy
Latitude 32.25243					Longitude -104.01829			NAD NAD83	

Last Take Point (LTP)

UL P	Section 7	Township 24S	Range 29E	Lot	Feet 218	From N/S S	Feet 879	From E/W E	County Eddy
Latitude 32.22558					Longitude -104.01818			NAD NAD83	

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

Is this well an infill well? ☐

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

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Oilfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)



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

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)

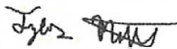
Schlumberger**Well Reference:**

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



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

My Commission expires:

6/14/23

Notary Public



(County State)

(signature)



Schlumberger

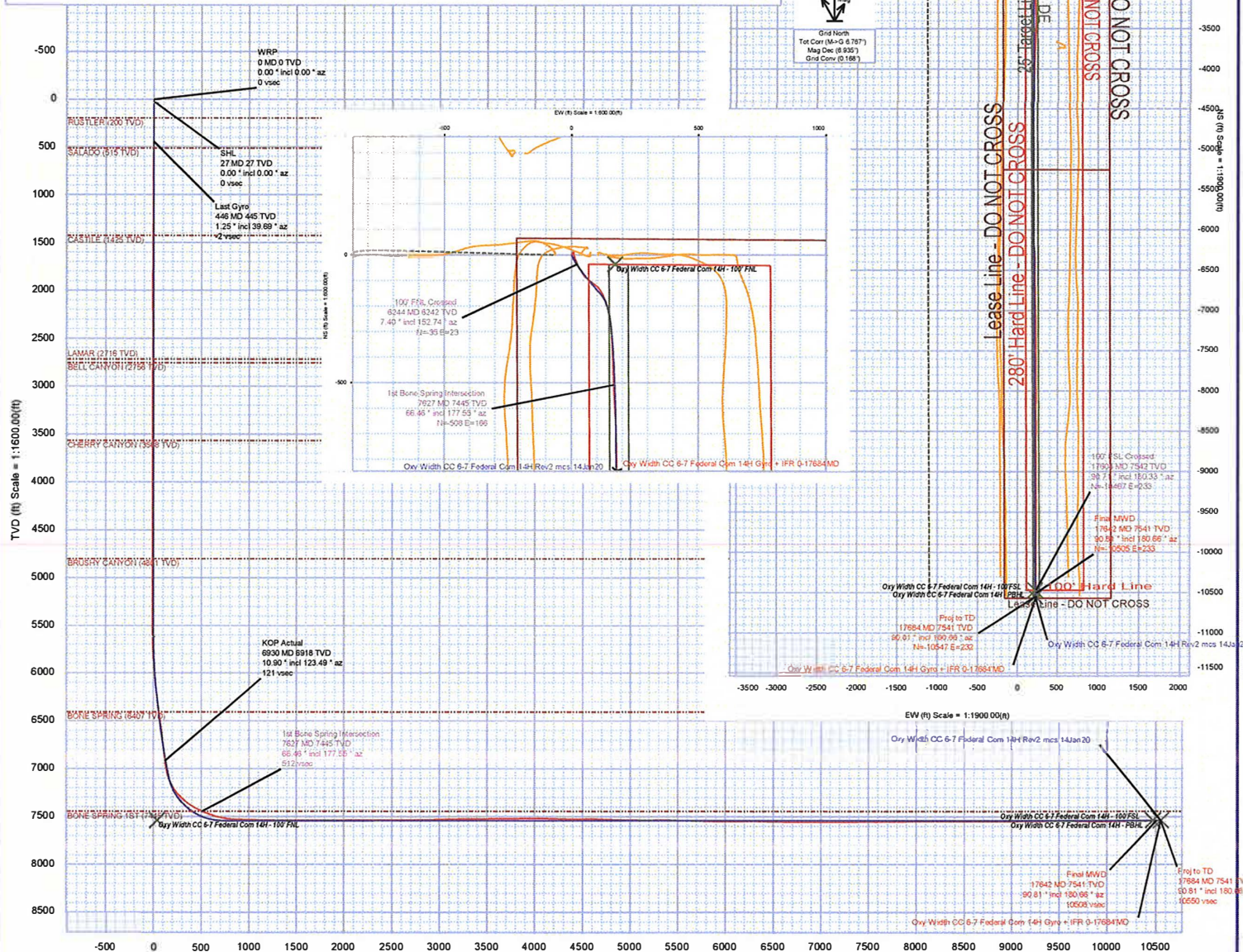
OXY



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:	99.571°	Date:	16-Jan-2020	Lat:	N 32 15 14.50	Northing:	456281.38MUS	Grid Conv:	0.1678°	Slot:	Oxy Width CC 6-7 Federal Com 14H	TVD Ref:	RKB = 26.5' (2983ft above MSL)
MagDec:	6.935°	FS:	47847.8nT	Gravity FS:	998.471mg (9.80665 Based)	Lon:	W 104 1 7.79	Easting:	638569.93MUS	Scale Fact:	0.99991992	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(-)	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	445.50	1.25	39.69	445.48	-2.07	2.11	1.77	0.56
100' FNL Crossed	6244.00	7.40	152.74	6241.54	35.69	-35.21	23.20	0.99
KOP Actual	6930.00	10.90	123.49	6918.21	120.89	-118.91	94.86	0.92
1st Bone Spring Intersection	7626.91	66.46	177.55	7444.50	511.69	-508.29	165.79	3.36
100' FSL Crossed	17604.00	90.71	180.33	7541.89	10469.81	-10467.22	232.25	2.25
Final MWD	17642.00	90.81	180.66	7541.42	10507.79	-10505.22	232.83	1.02
Proj to TD	17684.00	90.81	180.66	7540.83	10549.76	-10547.21	232.34	0.00



Vertical Section (ft) Azim = 178.79° Scale = 1:1600.00(ft) Origin = ON-S, 0E-W

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 NUS, E 638559.930 NUS
 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: 6.7672°
 North: Well Head
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (NUS)	Easting (EUS)	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 7.79
	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	638564.54	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 7.64
	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 7.67
	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	9.08	149.14	6491.85	68.							

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	2166.23	-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	7535.60	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	175.25	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	217.32	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	220.30	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	638774.09	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	638769.87	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	7547.43	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	7548.83	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 (in)	Casing Diameter (in)	Survey To of 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_MWO+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