

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

EMNRD-OCD ARTESIA Form C-104
REC'D: 03/18/2020 Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address OXY USA INC. P.O. BOX 50250 MIDLAND, TX 79710		² OGRID Number 16696
		³ Reason for Filing Code/ Effective Date – RT
⁴ API Number 30 – 015-45575	⁵ Pool Name PIERCE CROSSING; BONE SPRING	⁶ Pool Code 50371
⁷ Property Code: 323065	⁸ Property Name: WIDTH CC 6-7 FEDERAL COM	⁹ Well Number: 16H

II. ¹⁰ Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
3	6	24S	29E		170	NORTH	1475	WEST	EDDY

¹¹ Bottom Hole Location FTP- 419' FNL 1697' FWL LTP- 177' FSL 1758' FWL

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	7	24S	29E		12	SOUTH	1758	WEST	EDDY
¹² Lse Code F	¹³ Producing Method Code : F	¹⁴ Gas Connection Date: TBD	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
214754	LPC CRUDE OIL, INC.	O
151618	ENTERPRISE FIELD SERVICES LLC	G

IV. Well Completion Data

²¹ Spud Date 9/20/19	²² Ready Date 3/19/2020	²³ TD 17901'M 7471'V	²⁴ PBTD 17849'M 10412'V	²⁵ Perforations 7685-17736'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
14-3/4"	10-3/4"	454'	440		
9-7/8"	7-5/8"	6841'	1862		
6-3/4"	5-1/2" x 4-1/2"	17876'	1199		

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name:

Jana Mendiola

Title:

Regulatory Specialist

E-mail Address:

Janalyn_mendiola@oxy.com

Date: 3/18/2020

Phone: 432-685-5936

Approved by:

Title:

Approval Date:

OIL CONSERVATION DIVISION

DENIED SEE RULE: 19.15.5.9

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

EMNRD-OCD ARTESIA
REC'D: 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 30-015-45575	Pool Code 50371	Pool Name Pierce Crossing Bone Spring
Property Code 323065	Property Name WIDTH CC "6-7" FEDERAL COM	Well Number 16H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 2958.7'

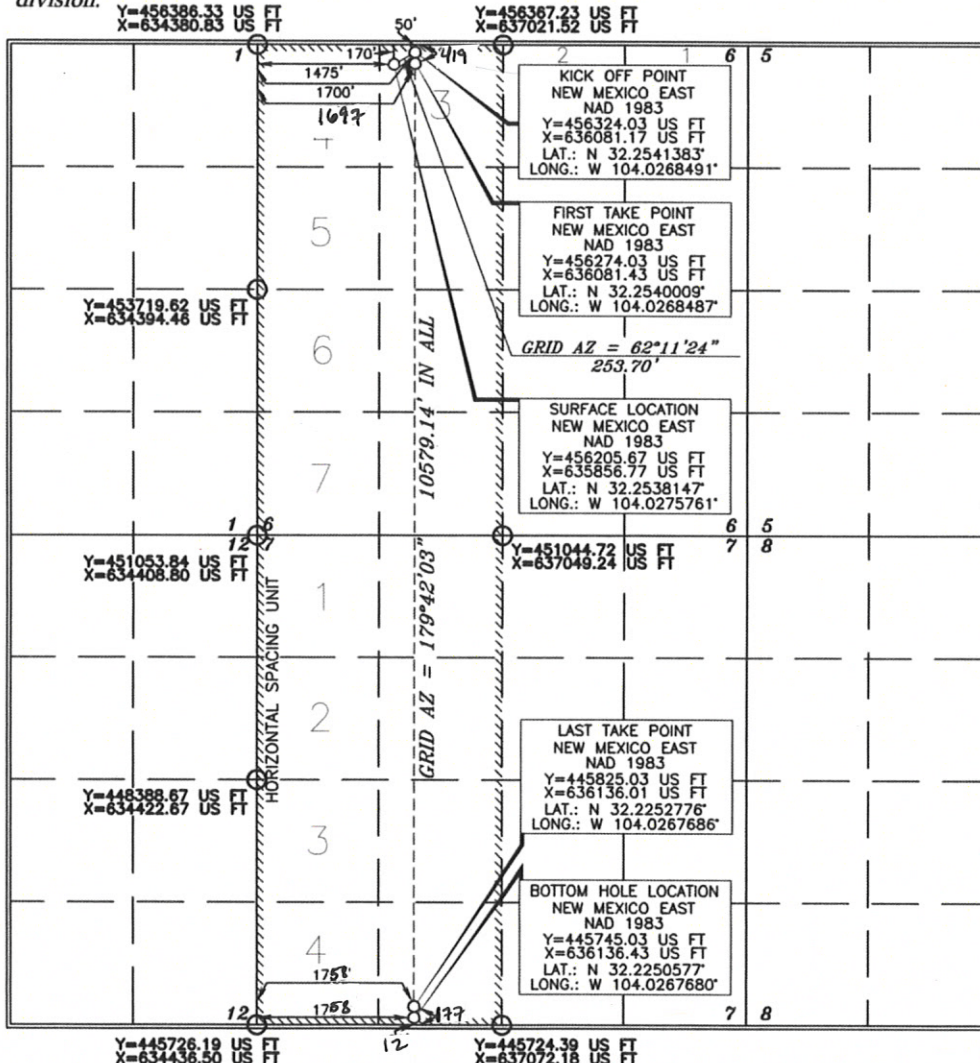
Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	6	24 SOUTH	29 EAST, N.M.P.M.		170'	NORTH	1475'	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	7	24 SOUTH	29 EAST, N.M.P.M.		-2072	SOUTH	-1700'	WEST	EDDY
Dedicated Acres 640	Joint or Infill	Consolidation Code	Order No.	FTP- 419 FNL 1697 FNL LTP- 177 FSL 1758 FNL					

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 **jana.mendiola@oxy.com**

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of 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 **FEBRUARY 28, 2019**
Signature and Seal of Professional Surveyor *Terry J. Asch*
Certificate Number **15079**

Intent ☐ As Drilled ☒

API # 30-015-43575			
Operator Name: OXY USA Inc.		Property Name: Widfr CC 6-7 Federal Com	Well Number 16H

Kick Off Point (KOP)

UL C	Section 6	Township 24S	Range 29E	Lot	Feet 88	From N/S N	Feet 1583	From E/W W	County Eddy
Latitude 32.25404					Longitude -104.02723			NAD NAD83	

First Take Point (FTP)

UL C	Section 6	Township 24S	Range 29E	Lot	Feet 419	From N/S N	Feet 1697	From E/W W	County Eddy
Latitude 32.25313					Longitude -104.02686			NAD NAD83	

Last Take Point (LTP)

UL N	Section 7	Township 24S	Range 29E	Lot	Feet 177	From N/S S	Feet 1758	From E/W W	County Eddy
Latitude 32.22551					Longitude -104.02676			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)



January 16, 2020

Oxy USA Incorporated
5 Greenway Plaza, Suite 110
Houston, TX 77046-0521

Re:

S6, T24S, R29E Eddy, NM
N 32.2538161 W -104.0277378

CLIENT: Oxy USA Incorporated
WELL: Width CC 6 7 Fed Com 16H
FIELD: Pierce Crossing-Bone Spring

RIG: H&P 656
COUNTY: Eddy
API NO: 30-015-45575
JOB NO: 19MLH0366

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>
Kyle Bolyard FE	Width CC 6 7 Fed Com 16H Original Hole	540.00 Ft 17858.00 Ft	December 13, 2019 to January 7, 2020	SlimPulse

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:
S6, T24S, R29E Eddy, NM
N 32.2538161 W -104.0277378

I, Kyle Bolyard certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of December 13, 2019 through January 07, 2020, conduct or supervise the taking of the SlimPulse surveys from a depth of 540.00 feet to a depth of 17858.00 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 Fed Com 16H Well (Original Hole) API No. 30-015-45575 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
Kyle Bolyard
FE

Kyle Bolyard

Subscribed and Sworn to before me this 16 day of January (month) 2020 (yr)

My Commission expires:

6/14/23

Notary Public

Comanche, Oklahoma
(County State)

(signature)



Schlumberger

OXY

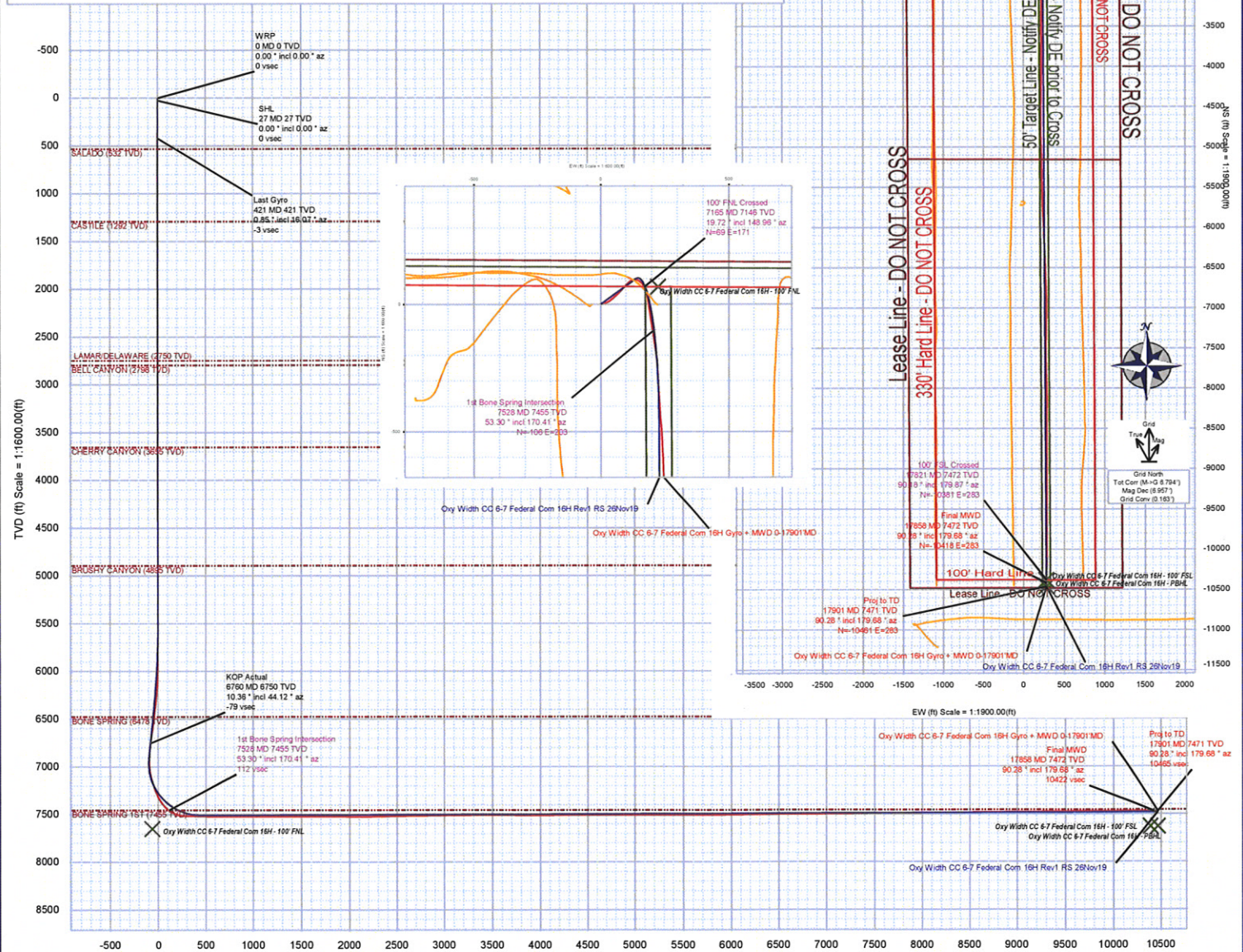


Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Width CC 6-7 Federal Com 16H	NM Eddy County (NAD 83)	Oxy Width CC 6-7 Federal Com 16H

Gravity & Magnetic Parameters	Surface Location	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Miscellaneous
Model: IFR1 Dip: 59.976° Date: 12-Dec-2019	Lat: N 32 15 13.73 Northing: 456205.877777 Grid Conv: 0.1632°	Slot: Oxy Width CC 6-7 Federal Com 16H TVD Ref: RKB = 26.5'(2885.2ft above MSL)	Plan: Oxy Width CC 6-7 Federal Com 16H Gyro + MWD 0-17901 MD
MagDec: 6.957° FS: 47857.1nT Gravity FS: 998.472mg (9.80665 Based)	Lon: W 104 1 39.27 Easting: 635856.777777 Scale Fact: 0.99991932		

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	
Last Gyro	421.20	0.85	16.07	421.18	-2.79	2.82	1.40	0.70
KOP Actual	6760.00	10.36	44.12	6750.04	-78.97	81.87	107.60	0.53
100' FNL Crossed	7165.00	19.72	148.96	7145.89	-64.02	68.61	171.00	9.35
1st Bone Spring Intersection	7528.31	53.30	170.41	7455.00	111.52	-106.13	203.22	16.99
100' FSL Crossed	17821.00	90.18	179.87	7471.76	10384.71	-10380.86	282.85	0.60
Final MWD	17858.00	90.28	179.68	7471.62	10421.70	-10417.86	282.99	0.60
Proj to TD	17901.00	90.28	179.68	7471.41	10464.69	-10460.86	283.23	0.00



Vertical Section (ft) Azim = 178.47° Scale = 1:1600.00(ft) Origin = 0N/-S, 0E/-W

Oxy Width CC 6-7 Federal Com 16H Gyro + MWD 0-17901'MD Survey Geodetic Report (Def Survey)



Report Date:	January 08, 2020 - 03:41 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	OXY	Vertical Section Azimuth:	178.470 ° (Grid North)
Field:	NM Eddy County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Oxy Width CC 6-7 Federal Com 16H / Oxy Width CC 6-7 Federal Com 16H	TVD Reference Datum:	RKB = 26.5'
Well:	Oxy Width CC 6-7 Federal Com 16H	TVD Reference Elevation:	2985.200 ft above MSL
Borehole:	Original Borehole	Seabed / Ground Elevation:	2958.700 ft above MSL
UWI / API#:	Unknown / 30-015-45575	Magnetic Declination:	6.957 °
Survey Name:	Oxy Width CC 6-7 Federal Com 16H Gyro + MWD 0-17901'MD	Total Gravity Field Strength:	998.4716mgn (9.80665 Based)
Survey Date:	December 12, 2019	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	179.883 ° / 10767.136 ft / 6.664 / 1.431	Total Magnetic Field Strength:	47857.100 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.976 °
Location Lat / Long:	N 32° 15' 13.73303", W 104° 1' 39.27383"	Declination Date:	December 12, 2019
Location Grid N/E Y/X:	N 456205.670 rUS, E 635856.770 rUS	Magnetic Declination Model:	IFR1
CRS Grid Convergence Angle:	0.1632 °	North Reference:	Grid North
Grid Scale Factor:	0.99991932	Grid Convergence Used:	0.1632 °
Version / Patch:	2.10.782.0	Total Corr Mag North->Grid North:	6.7938 °
		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 ° ' ")
WRP SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	456205.67	635856.77	N 32 15 13.73 W 104	1 39 27
	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	456205.67	635856.77	N 32 15 13.73 W 104	1 39 27
Last Gyro	57.10	0.12	22.28	57.10	-0.03	0.03	0.00	0.39	456205.70	635856.78	N 32 15 13.73 W 104	1 39 27
	85.20	0.24	34.15	85.20	-0.10	0.11	0.06	0.44	456205.76	635856.83	N 32 15 13.73 W 104	1 39 27
	111.40	0.14	48.92	111.40	-0.17	0.17	0.11	0.42	456205.84	635856.88	N 32 15 13.73 W 104	1 39 27
	141.40	0.19	51.60	141.40	-0.22	0.23	0.18	0.17	456205.90	635856.95	N 32 15 13.74 W 104	1 39 27
	170.80	0.28	43.70	170.80	-0.30	0.31	0.27	0.32	456205.98	635857.04	N 32 15 13.74 W 104	1 39 27
	197.90	0.38	38.38	197.90	-0.42	0.43	0.37	0.39	456206.10	635857.14	N 32 15 13.74 W 104	1 39 27
	228.30	0.51	26.50	228.30	-0.61	0.63	0.49	0.52	456206.30	635857.26	N 32 15 13.74 W 104	1 39 27
	254.80	0.61	23.82	254.80	-0.85	0.86	0.60	0.39	456206.53	635857.37	N 32 15 13.74 W 104	1 39 27
	284.20	0.60	24.51	284.20	-1.13	1.15	0.73	0.04	456206.82	635857.50	N 32 15 13.74 W 104	1 39 27
	315.80	0.65	20.61	315.79	-1.44	1.46	0.86	0.21	456207.13	635857.63	N 32 15 13.75 W 104	1 39 26
	347.30	0.77	23.00	347.29	-1.80	1.83	1.00	0.39	456207.50	635857.77	N 32 15 13.75 W 104	1 39 26
	378.80	0.87	22.53	378.79	-2.21	2.24	1.18	0.32	456207.91	635857.95	N 32 15 13.76 W 104	1 39 26
	410.40	0.82	20.81	410.38	-2.64	2.67	1.35	0.18	456208.34	635858.12	N 32 15 13.76 W 104	1 39 26
	421.20	0.85	16.07	421.18	-2.79	2.82	1.40	0.70	456208.49	635858.17	N 32 15 13.76 W 104	1 39 26
	540.00	0.72	39.71	539.97	-4.19	4.24	2.12	0.29	456209.91	635858.89	N 32 15 13.77 W 104	1 39 25
	632.00	0.07	158.36	631.97	-4.57	4.64	2.51	0.82	456210.31	635859.28	N 32 15 13.78 W 104	1 39 24
	814.00	0.03	87.01	813.97	-4.47	4.54	2.60	0.04	456210.21	635859.37	N 32 15 13.78 W 104	1 39 24
	904.00	0.03	89.26	903.97	-4.47	4.54	2.65	0.00	456210.21	635859.42	N 32 15 13.78 W 104	1 39 24
	995.00	0.08	261.00	994.97	-4.46	4.53	2.61	0.12	456210.20	635859.38	N 32 15 13.78 W 104	1 39 24
	1176.00	0.03	44.29	1175.97	-4.47	4.54	2.52	0.06	456210.21	635859.29	N 32 15 13.78 W 104	1 39 24
	1267.00	0.05	38.70	1266.97	-4.52	4.59	2.56	0.02	456210.26	635859.33	N 32 15 13.78 W 104	1 39 24
	1357.00	0.14	234.55	1356.97	-4.49	4.56	2.49	0.21	456210.23	635859.26	N 32 15 13.78 W 104	1 39 24
	1448.00	0.05	95.10	1447.97	-4.42	4.49	2.44	0.20	456210.16	635859.21	N 32 15 13.78 W 104	1 39 25
	1538.00	0.12	101.11	1537.97	-4.40	4.47	2.57	0.08	456210.14	635859.34	N 32 15 13.78 W 104	1 39 24
	1629.00	0.03	226.07	1628.97	-4.36	4.43	2.65	0.15	456210.10	635859.42	N 32 15 13.78 W 104	1 39 24
	1727.00	0.08	315.45	1726.97	-4.39	4.46	2.58	0.09	456210.13	635859.35	N 32 15 13.78 W 104	1 39 24
	1822.00	0.07	347.34	1821.97	-4.50	4.57	2.52	0.04	456210.24	635859.29	N 32 15 13.78 W 104	1 39 24
	1917.00	0.08	219.39	1916.97	-4.51	4.57	2.47	0.14	456210.24	635859.24	N 32 15 13.78 W 104	1 39 24
	2012.00	0.12	274.50	2011.97	-4.47	4.53	2.33	0.10	456210.20	635859.10	N 32 15 13.78 W 104	1 39 25
	2107.00	0.14	186.30	2106.97	-4.36	4.42	2.22	0.19	456210.09	635858.99	N 32 15 13.78 W 104	1 39 25
	2202.00	0.14	119.25	2201.97	-4.19	4.25	2.30	0.16	456209.92	635859.07	N 32 15 13.78 W 104	1 39 25
	2297.00	0.14	132.12	2296.97	-4.05	4.12	2.49	0.03	456209.78	635859.26	N 32 15 13.77 W 104	1 39 24
	2391.00	0.17	233.93	2390.97	-3.89	3.96	2.46	0.26	456209.63	635859.23	N 32 15 13.77 W 104	1 39 25
	2486.00	0.39	148.78	2485.97	-3.53	3.60	2.52	0.43	456209.27	635859.29	N 32 15 13.77 W 104	1 39 24
	2581.00	0.22	303.39	2580.97	-3.35	3.42	2.53	0.63	456209.09	635859.30	N 32 15 13.77 W 104	1 39 24
	2676.00	0.37	234.98	2675.97	-3.29	3.34	2.13	0.37	456209.01	635858.90	N 32 15 13.77 W 104	1 39 25
	2771.00	0.31	125.93	2770.96	-2.96	3.02	2.09	0.58	456208.69	635858.86	N 32 15 13.76 W 104	1 39 25
	2866.00	0.08	83.49	2865.96	-2.81	2.87	2.36	0.27	456208.54	635859.13	N 32 15 13.76 W 104	1 39 25
	3056.00	0.08	27.42	3055.96	-2.94	3.01	2.55	0.04	456208.68	635859.32	N 32 15 13.76 W 104	1 39 24
	3151.00	0.10	19.39	3150.96	-3.07	3.14	2.61	0.02	456208.81	635859.38	N 32 15 13.76 W 104	1 39 24
	3246.00	0.03	142.85	3245.96	-3.13	3.20	2.65	0.13	456208.87	635859.42	N 32 15 13.76 W 104	1 39 24
	3341.00	0.08	166.74	3340.96	-3.05	3.12	2.68	0.06	456208.79	635859.45	N 32 15 13.76 W 104	1 39 24
	3436.00	0.12	259.57	3435.96	-2.97	3.04	2.60	0.16	456208.71	635859.37	N 32 15 13.76 W 104	1 39 24
	3531.00	0.03	276.97	3530.96	-2.95	3.02	2.48	0.10	456208.69	635859.25	N 32 15 13.76 W 104	1 39 24
	3626.00	0.05	55.46	3625.96	-2.98	3.05	2.49	0.08	456208.72	635859.26	N 32 15 13.76 W 104	1 39 24
	3721.00	0.14	171.19	3720.96	-2.89	2.96	2.54	0.18	456208.63	635859.31	N 32 15 13.76 W 104	1 39 24
	3816.00	0.15	218.25	3815.96	-2.68	2.74	2.48	0.12	456208.41	635859.25	N 32 15 13.76 W 104	1 39 24
	3911.00	0.08	358.86	3910.96	-2.65	2.71	2.40	0.23	456208.38	635859.17	N 32 15 13.76 W 104	1 39 25
	4006.00	0.00	6.79	4005.96	-2.71	2.78	2.40	0.08	456208.45	635859.17	N 32 15 13.76 W 104	1 39 25
	4101.00	0.10	273.11	4100.96	-2.72	2.78	2.32	0.11	456208.45	635859.09	N 32 15 13.76 W 104	1 39 25
4196.00	0.03	265.87	4195.96	-2.73	2.79	2.21	0.07	456208.46	635858.98	N 32 15 13.76 W 104	1 39 25	
4291.00	0.30	159.11	4290.96	-2.49	2.55	2.28	0.33	456208.22	635859.05	N 32 15 13.76 W 104	1 39 25	
4386.00	0.22	185.39	4385.96	-2.07	2.14	2.35	0.15	456207.81	635859.12	N 32 15 13.75 W 104	1 39 25	
4481.00	0.11	158.86	4480.96	-1.81	1.87	2.36	0.14	456207.54	635859.13	N 32 15 13.75 W 104	1 39 25	
4670.00	0.05	268.91	4669.96	-1.64	1.70	2.35	0.07	456207.37	635859.12	N 32 15 13.75 W 104	1 39 25	
4765.00	0.08	91.43	4764.96	-1.63	1.70	2.37	0.14	456207.37	635859.14	N 32 15 13.75 W 104	1 39 25	
4860.00	0.30	209.60	4859.96	-1.42	1.48	2.31	0.36	456207.15	635859.08	N 32 15 13.75 W 104	1 39 25	
4955.00	0.14	202.55	4954.96	-1.10	1.16	2.15	0.17	456206.83	635858.92	N 32 15 13.74 W 104	1 39 25	
5050.00	0.14	102.38	5049.96	-0.97	1.02	2.22	0.23	456206.69	635858.99	N 32 15 13.74 W 104	1 39 25	
5145.00	0.14	248.26	5144.96	-0.90	0.96	2.22	0.28	456206.63	635858.99	N 32 15 13.74 W 104	1 39 25	
5240.00	0.15	164.94	5239.96	-0.74	0.79	2.15	0.20	456206.46	635858.92	N 32 15 13.74 W 104	1 39 25	
5300.00	0.32	241.11	5300.05	-0.58	0.64	2.02	0.53	456206.31	635858.79	N 32 15 13.74 W 104	1 39 25	
5335.00	0.25	131.00	5334.96	-0.49	0.54	1.99	1.34	456206.21	635858.76	N 32 15 13.74 W 104	1 39 25	
5430.00	0.32	275.06	5429.96	-0.38	0.43	1.88	0.57	456206.10	635858.65	N 32 15 13.74 W 104	1 39 25	
5525.00	0.34	44.81	5524.96	-0.60	0.65	1.82	0.63	456206.32	635858.59	N 32 15 13.74 W 104	1 39 25	
5620.00	1.29	72.35	5619.95	-1.09	1.17	3.04	1.05	456206.84	635859.81	N 32 15 13.74 W 104	1 39 24	
5715.00	2.21	73.67	5714.90	-1.86	2.01	5.81	0.97	456207.68	635862.58	N 32 15 13.75 W 104	1 39 21	
5810.00	2.85	75.96	5809.81	-2.84	3.10	9.86	0.68	456207.75	635866.63	N 32 15 13.76 W 104	1 39 16	
5905.00	3.53	82.01	5904.66	-3.68	4.08	15.05	0.80	456209.75	635871.82	N 32 15 13.77 W 104	1 39 10	
6000.00	4.26	72.61	5999.44	-4.97	5.54	21.31	1.02	456211.21	635878.08	N 32 15 13.79 W 104	1 39 03	
6095.00	5.72	61.30	6094.08	-8.10	8.87	28.83	1.85	456214.54	635885.60	N 32 15 13.82 W 104	1 38 94	
6190.00	6.88	53.34	6188.51	-13.53	14.54	37.55	1.53	456220.21	635894.32	N 32 15 13.88 W 104	1 38 84	
6285.00	8.76	51.26	6282.62	-21.18	22.47	47.76	2.00	456228.14	635904.52	N 32 15 13.95 W 104	1 38 72	
6380.00	9.55	45.68	6376.41	-30.91	32.50	59.04	1.25	456238.17	635915.80	N 32 15 14.05 W 104	1 38 59	
6475.00	10.43	44.59	6469.97	-42.23	44.13	70.71	0.95	456249.80	635927.48	N 32 15 14.17 W 104	1 38 45	
6570.00	10.77	45.22	6563.35	-54.27	56.51	83.05	0.38	456262.17	635939.82	N 32 15 14.29 W 104	1 38 30	

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	6665.00	10.85	43.47	6656.66	-66.67	69.25	95.50	0.36	456274.91	635952.27	N 32 15 14.42 W 104	1 38.16
	6760.00	10.36	44.12	6750.04	-78.97	81.87	107.60	0.53	456287.53	635964.36	N 32 15 14.54 W 104	1 38.02
	6806.00	10.34	49.80	6795.29	-84.44	87.50	113.63	2.22	456293.17	635970.40	N 32 15 14.60 W 104	1 37.95
	6949.00	6.28	78.25	6936.82	-93.85	97.39	131.11	3.96	456303.05	635987.87	N 32 15 14.69 W 104	1 37.74
	7044.00	13.06	115.08	7030.49	-89.96	93.89	145.95	9.32	456299.55	636002.70	N 32 15 14.66 W 104	1 37.57
	7139.00	20.65	142.44	7121.48	-71.55	76.01	165.94	11.36	456281.67	636022.70	N 32 15 14.48 W 104	1 37.34
100' FNL Crossed	7165.00	19.72	148.96	7145.89	-64.02	68.61	171.00	9.35	456274.28	636027.75	N 32 15 14.41 W 104	1 37.28
	7234.00	18.56	168.41	7211.14	-43.06	47.86	179.21	9.35	456253.53	636035.97	N 32 15 14.20 W 104	1 37.19
	7329.00	24.11	171.09	7299.59	-8.90	13.85	185.26	5.93	456219.52	636042.02	N 32 15 13.86 W 104	1 37.12
	7424.00	36.63	172.62	7381.40	38.72	-33.61	191.93	13.20	456172.06	636048.69	N 32 15 13.40 W 104	1 37.04
	7519.00	51.73	170.20	7449.33	104.21	-98.85	201.98	15.99	456106.83	636058.73	N 32 15 12.75 W 104	1 36.93
	1st Bone Spring Intersection	7528.31	53.30	170.41	7455.00	111.52	-106.13	203.22	16.99	456099.55	636059.98	N 32 15 12.68 W 104
	7614.00	67.79	172.06	7497.03	185.35	-179.69	214.49	16.99	456026.00	636071.24	N 32 15 11.95 W 104	1 36.78
	7708.00	88.18	177.34	7516.50	276.58	-270.73	222.77	22.37	455934.96	636079.52	N 32 15 11.05 W 104	1 36.69
	7779.00	89.69	176.91	7517.82	347.55	-341.63	226.33	2.21	455864.07	636083.08	N 32 15 10.35 W 104	1 36.65
	7821.00	88.49	176.00	7518.49	389.52	-383.54	228.93	3.59	455822.16	636085.68	N 32 15 9.93 W 104	1 36.62
	7916.00	89.07	175.89	7520.51	484.40	-478.28	235.64	0.62	455727.43	636092.39	N 32 15 8.99 W 104	1 36.55
	8106.00	90.00	178.44	7522.05	674.33	-668.02	245.04	1.43	455537.70	636101.79	N 32 15 7.12 W 104	1 36.44
	8266.00	89.97	180.32	7522.10	864.30	-858.00	247.10	0.99	455347.74	636103.84	N 32 15 5.24 W 104	1 36.43
	8485.00	89.93	179.82	7522.27	1053.22	-1047.00	246.86	0.27	455158.75	636103.61	N 32 15 3.37 W 104	1 36.43
	8578.00	89.66	179.58	7522.60	1146.20	-1140.00	247.35	0.39	455065.76	636104.10	N 32 15 2.45 W 104	1 36.43
	8764.00	90.07	179.39	7523.04	1332.17	-1325.99	249.02	0.24	454879.79	636105.77	N 32 15 0.61 W 104	1 36.42
	8949.00	90.45	180.68	7522.20	1517.09	-1510.99	248.91	0.73	454694.81	636105.66	N 32 14 58.77 W 104	1 36.43
	9135.00	89.38	181.84	7522.48	1702.87	-1696.94	244.82	0.85	454508.87	636101.57	N 32 14 56.93 W 104	1 36.48
	9320.00	90.00	181.90	7523.48	1887.54	-1881.83	238.78	0.34	454323.99	636095.53	N 32 14 55.11 W 104	1 36.56
	9413.00	89.76	182.32	7523.67	1980.35	-1974.77	235.36	0.52	454231.06	636092.11	N 32 14 54.19 W 104	1 36.60
	9599.00	90.14	180.33	7523.83	2166.11	-2160.71	231.06	1.09	454045.14	636087.81	N 32 14 52.35 W 104	1 36.66
	9784.00	91.10	180.80	7521.83	2350.97	-2345.69	229.23	0.58	453860.18	636085.99	N 32 14 50.52 W 104	1 36.68
	9972.00	90.72	181.99	7518.85	2538.70	-2533.60	224.66	0.66	453672.27	636081.41	N 32 14 48.66 W 104	1 36.74
	10162.00	90.62	180.10	7516.62	2728.49	-2723.55	221.19	1.00	453482.34	636077.95	N 32 14 46.78 W 104	1 36.79
	10352.00	90.83	180.00	7514.22	2918.40	-2913.54	221.03	0.12	453292.37	636077.78	N 32 14 44.90 W 104	1 36.80
	10541.00	90.52	179.90	7511.99	3107.32	-3102.52	221.19	0.17	453103.40	636077.94	N 32 14 43.03 W 104	1 36.80
	10636.00	90.76	180.62	7510.93	3202.27	-3197.52	220.76	0.80	453008.42	636077.51	N 32 14 42.09 W 104	1 36.81
	10826.00	90.10	180.11	7509.51	3392.16	-3387.50	219.55	0.44	452818.45	636076.30	N 32 14 40.21 W 104	1 36.83
	11016.00	89.76	179.74	7509.74	3582.10	-3577.50	219.80	0.26	452628.46	636076.55	N 32 14 38.33 W 104	1 36.83
	11206.00	89.90	180.31	7510.30	3772.03	-3767.50	219.72	0.31	452438.48	636076.47	N 32 14 36.45 W 104	1 36.84
	11396.00	90.00	180.28	7510.47	3961.93	-3957.50	218.74	0.05	452248.50	636075.49	N 32 14 34.57 W 104	1 36.86
	11491.00	90.03	180.08	7510.44	4056.89	-4052.50	218.44	0.21	452153.51	636075.19	N 32 14 33.63 W 104	1 36.86
	11586.00	90.21	180.69	7510.25	4151.83	-4147.50	217.80	0.67	452058.52	636074.55	N 32 14 32.69 W 104	1 36.88
	11776.00	90.45	180.65	7509.15	4341.69	-4337.48	215.58	0.13	451868.55	636072.33	N 32 14 30.81 W 104	1 36.91
	11871.00	89.97	180.69	7508.80	4436.62	-4432.47	214.47	0.51	451773.56	636071.22	N 32 14 29.87 W 104	1 36.92
	12061.00	89.86	180.78	7509.08	4626.47	-4622.46	212.03	0.07	451583.60	636068.78	N 32 14 27.99 W 104	1 36.96
	12251.00	89.86	178.62	7509.55	4816.41	-4812.44	213.03	1.14	451393.63	636069.78	N 32 14 26.11 W 104	1 36.95
	12441.00	89.93	178.51	7509.90	5006.41	-5002.38	217.78	0.07	451203.70	636074.54	N 32 14 24.23 W 104	1 36.90
	12536.00	90.14	178.62	7509.84	5101.41	-5097.35	220.16	0.25	451108.74	636076.92	N 32 14 23.29 W 104	1 36.88
	12726.00	90.28	179.16	7509.14	5291.41	-5287.31	223.84	0.29	450918.79	636080.60	N 32 14 21.41 W 104	1 36.84
	12821.00	89.72	178.48	7509.14	5386.40	-5382.29	225.80	0.93	450823.82	636082.55	N 32 14 20.47 W 104	1 36.82
	13011.00	90.14	178.44	7509.37	5576.40	-5572.22	230.91	0.22	450633.91	636087.66	N 32 14 18.59 W 104	1 36.77
	13201.00	90.31	177.58	7508.63	5766.39	-5762.11	237.50	0.46	450444.04	636094.26	N 32 14 16.71 W 104	1 36.70
	13391.00	90.76	177.50	7506.85	5956.36	-5951.92	245.66	0.24	450254.24	636102.41	N 32 14 14.83 W 104	1 36.61
	13581.00	90.48	177.40	7504.80	6146.32	-6141.72	254.11	0.16	450064.46	636110.86	N 32 14 12.95 W 104	1 36.52
	13771.00	90.41	177.77	7503.32	6336.29	-6331.55	262.12	0.20	449874.65	636118.87	N 32 14 11.07 W 104	1 36.43
	13961.00	90.41	177.84	7501.96	6526.27	-6521.40	269.40	0.04	449684.81	636126.14	N 32 14 9.20 W 104	1 36.35
	14151.00	90.34	177.92	7500.72	6716.26	-6711.27	276.42	0.06	449494.96	636133.17	N 32 14 7.32 W 104	1 36.28
	14340.00	90.21	179.36	7499.81	6905.25	-6900.21	280.91	0.76	449306.03	636137.66	N 32 14 5.45 W 104	1 36.23
	14530.00	90.34	180.63	7498.90	7095.18	-7090.20	280.93	0.67	449116.05	636137.67	N 32 14 3.57 W 104	1 36.24
	14625.00	90.69	181.26	7498.05	7190.08	-7185.19	279.36	0.76	449021.08	636136.11	N 32 14 2.63 W 104	1 36.26
	14815.00	91.44	180.18	7494.52	7379.90	-7375.13	276.97	0.69	448831.15	636133.72	N 32 14 0.75 W 104	1 36.29
	15005.00	90.48	180.18	7491.33	7569.79	-7565.10	276.37	0.51	448641.19	636133.12	N 32 13 58.87 W 104	1 36.31
	15195.00	90.07	178.89	7490.42	7759.75	-7755.09	277.92	0.71	448451.22	636134.66	N 32 13 56.99 W 104	1 36.30
	15385.00	90.65	177.87	7489.23	7949.74	-7945.01	283.29	0.62	448261.32	636140.03	N 32 13 55.11 W 104	1 36.24
	15480.00	90.34	179.14	7488.41	8044.73	-8039.97	285.77	1.38	448166.36	636142.51	N 32 13 54.17 W 104	1 36.21
	15575.00	90.62	179.80	7487.61	8139.72	-8134.96	286.65	0.75	448071.38	636143.39	N 32 13 53.23 W 104	1 36.21
	15765.00	90.41	180.91	7485.90	8329.60	-8324.95	285.47	0.59	447881.41	636142.21	N 32 13 51.35 W 104	1 36.23
	15860.00	90.69	180.68	7484.99	8424.52	-8419.93	284.15	0.38	447786.43	636140.90	N 32 13 50.41 W 104	1 36.24
	16050.00	90.55	179.59	7482.93	8614.42	-8609.92	283.70	0.58	447596.46	636140.45	N 32 13 48.53 W 104	1 36.26
	16240.00	90.34	179.70	7481.46	8804.38	-8799.91	284.88	0.12	447406.49	636141.63	N 32 13 46.65 W 104	1 36.25
	16335.00	90.38	179.59	7480.86	8899.36	-8894.91	285.47	0.12	447311.50	636142.21	N 32 13 45.71 W 104	1 36.25
	16524.00	90.52	180.01	7479.38	9088.30	-9083.90	286.13	0.23	447			

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 ° ' ")
		1	7234.000	17901.000	Act Stns	26.400	26.400	A010Mb_MWD+IFR1+SAG+MS	Original Borehole / Oxy Width CC 6-7 Federal Com 16H Gyro + MWD 0-17901'MD			