

RECEIVED

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

MAR 03 2020

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

☒ AMENDED REPORT
(As-Drilled)

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-45083	Pool Code 98220	Pool Name Purple Sage Wolfcamp
Property Code 321633	Property Name OXBOW CC "17-8" FEDERAL COM	Well Number 31H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 2938.7'

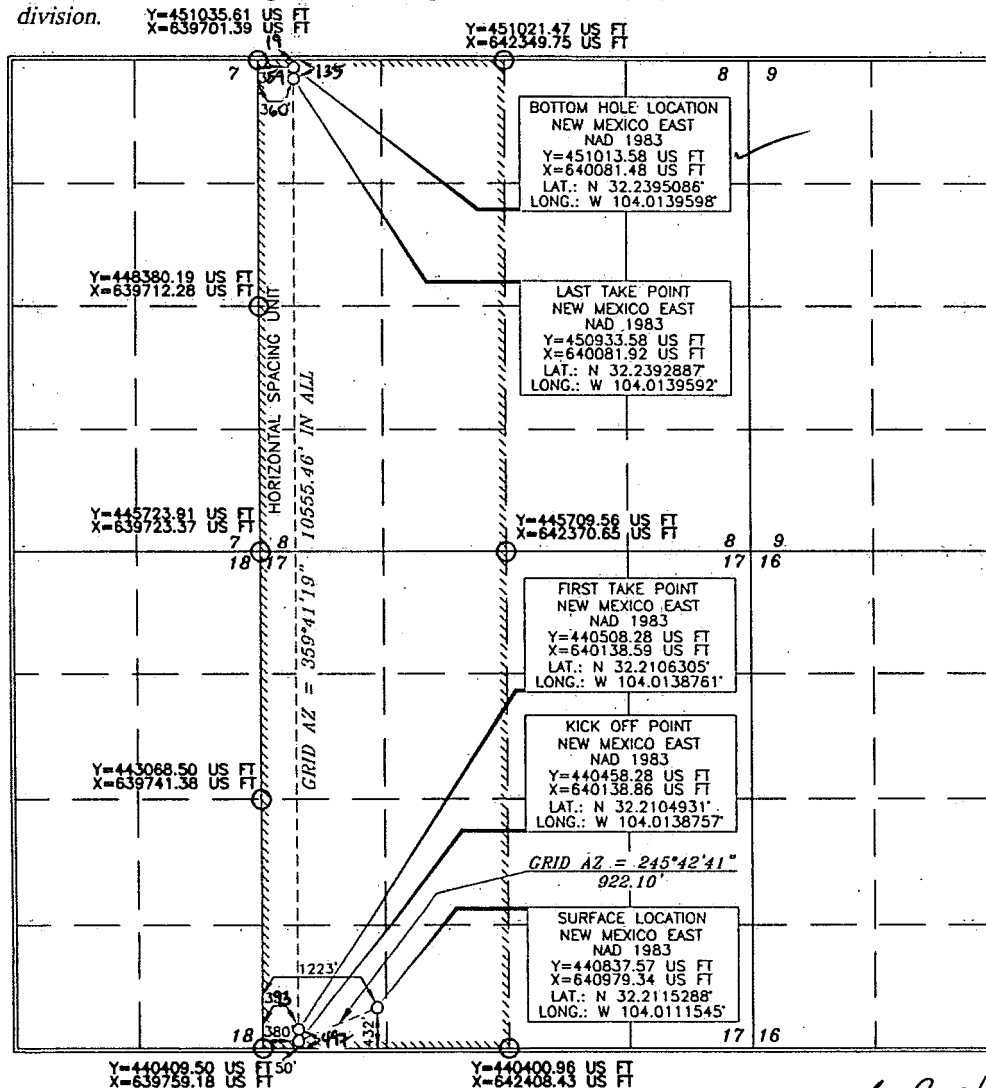
Surface Location

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.		432'	SOUTH	1223'	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
D	8	24 SOUTH	29 EAST, N.M.P.M.		20' 19	NORTH	580' 359	WEST	EDDY
Dedicated Acres 640		Joint or Infill	Consolidation Code	Order No. NSL-7940	FTP-497 FSL 393 FWL LTP-135 FNL 360 FWL				

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 into by this division.

Signature: *[Signature]* Date: **3/2/20**
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: **OCTOBER 19, 2013**
Signature and Seal of Professional Surveyor: *[Signature]*
Certificate Number: **15079**

WP 4-28/20

Intent ☐ As Drilled ☒

API #
30-015-45083

Operator Name: OXY USA INC.	Property Name: OXBOW CC 17-8 FEDERAL COM	Well Number 31H
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Kick Off Point (KOP)

UL M	Section 17	Township 24S	Range 29E	Lot	Feet 32	From N/S S	Feet 612	From E/W W	County EDDY
Latitude 32.21026					Longitude -104.01313			NAD NAD83	

First Take Point (FTP)

UL M	Section 17	Township 24S	Range 29E	Lot	Feet 497	From N/S S	Feet 393	From E/W W	County EDDY
Latitude 32.21171					Longitude -104.01384			NAD NAD83	

Last Take Point (LTP)

UL D	Section 8	Township 24S	Range 29E	Lot	Feet 135	From N/S N	Feet 360	From E/W W	County EDDY
Latitude 32.23918					Longitude -104.01385			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)

Schlumberger

RECEIVED

MAR 03 2020

EMNRD-OCDARTESIA

January 12, 2020

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

Re:

S17, T24S, R29E EDDY, NM
N 32.21153 W -104.01115

CLIENT: OXY USA Incorporated
WELL: OXBOW CC 17-8 FEDERAL COM 31H
FIELD: PURPLE-SAGE WOLFCAMP (GAS)

RIG: Pioneer 82
COUNTY: EDDY
API NO: 30-015-45083
JOB NO: 19MLH0386

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>
Katherine Ramirez Gomez FET	OXBOW CC 17-8 FEDERAL COM 31H Original Hole	534.00 Ft to 20276.00 Ft	December 20, 2019 to December 30, 2019	SlimPulse Third Party Corrected

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

Schlumberger

Well Reference:
S17, T24S, R29E EDDY NM
N 32.21153 W -104.01115

I, Katherine Ramirez Gomez certify that I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of December 20, 2019 through December 30, 2019 conduct or supervise the taking of the SlimPulse & Third Party Corrected surveys from a depth of 534.00 feet to a depth of 20276.00 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 OXBOW CC 17-8 FEDERAL COM 31H Well (Original Hole) API No. 30-015-45083 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 Katherine Ramirez Gomez
Katherine Ramirez Gomez
FET

Subscribed and Sworn to before me this 12 day of January (month) 2020 (yr)

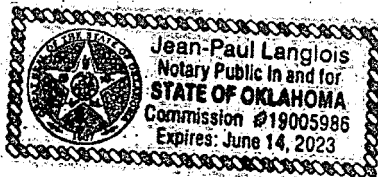
My Commission expires:

6/14/23

Jean-Paul Langlois
Notary Public

(signature)

Comanche, Oklahoma
(County State)





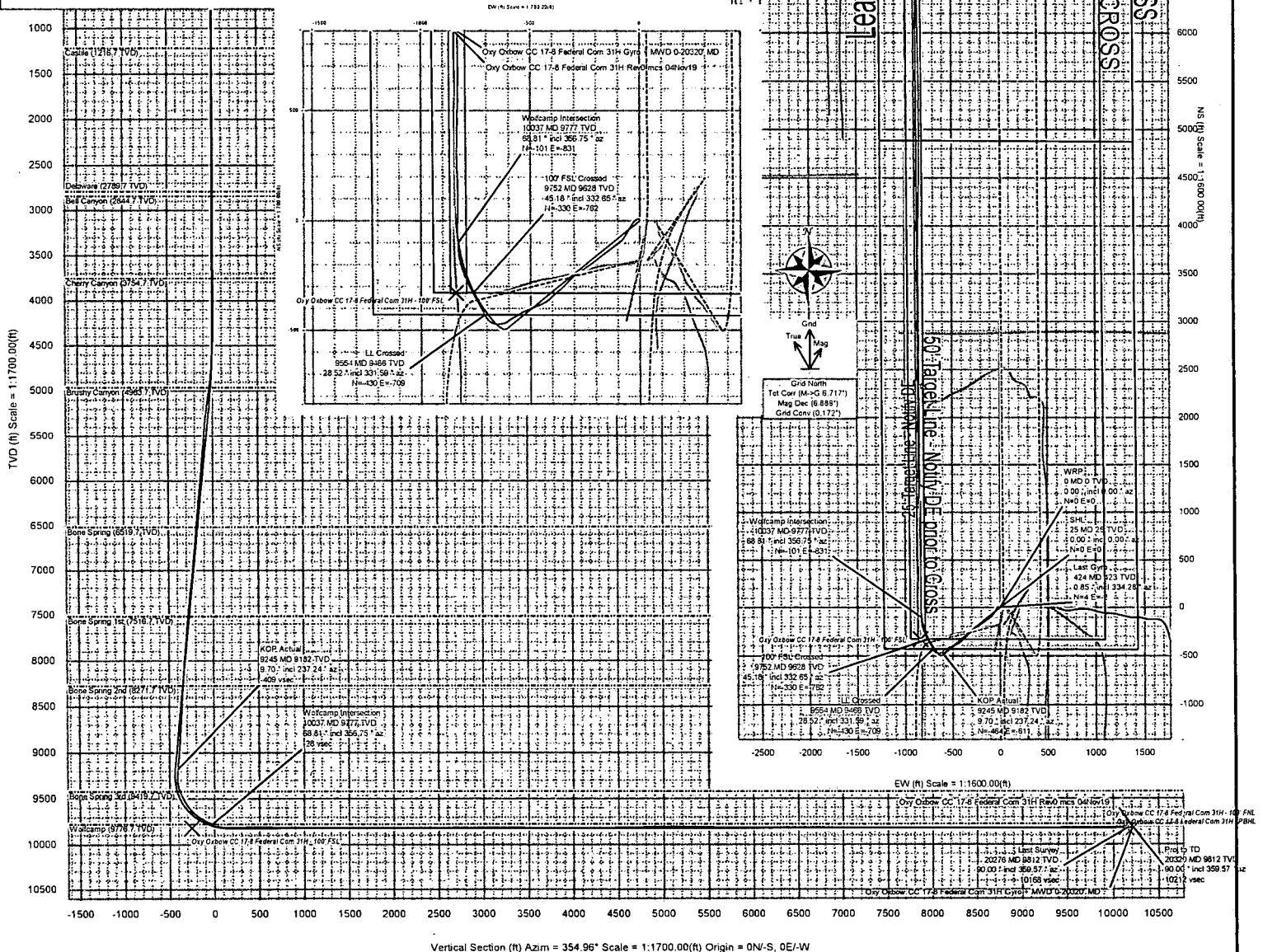
OXY



Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Oxbow CC 17-8 Federal Com 31H	NM Eddy County (NAD 83)	Oxy Oxbow CC 17-8 Federal Com 31H

Gravity & Magnetic Parameters				Surface Location NAD83 New Mexico State Plane, Eastern Zone, US Feet			Miscellaneous
Model:	IFR1	Dip: 59.92°	Date: 17-Dec-2019	Lat: N 32 12 41.50	Northing: 440337.57ftUS	Grid Conv: 0.1717*	Oxy Oxbow CC Slot: 17-F Federal TVD Ref: RKB = 25ft (2963.7ft above MSL) Com 31H
MagDec:	6.889°	FS: 47845.5nT	Gravity FS: 998.468mgal (9.80665 Based)	Lon: W 104 0 40.16	Eastng: 540979.34ftUS	Scale Fact: 0.93992046	Plan: Com C1H CXC 17-F Federal Com 31H Gyro + MWD 0-20320MO

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	25.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00
Last Gyro	423.50	0.85	334.28	423.47	3.93	3.81	-1.58	3.76
KOP Actual	9245.00	9.70	237.24	9182.18	-408.88	-464.36	-610.97	1.76
LL Crossed	9554.00	28.52	331.59	9466.43	-365.61	-429.56	-708.88	3.94
100' FSL Crossed	9752.00	45.18	332.65	9627.87	-261.32	-329.58	-762.25	13.03
Wolfcamp Intersection	10036.54	68.81	356.75	9776.70	-28.02	-101.39	-830.62	9.48
100' FNL Crossed	20241.00	89.93	359.65	9812.16	10132.84	10096.03	-863.41	0.30
Last Survey	20276.00	90.00	359.57	9812.18	10167.73	10131.03	-863.65	0.30
Proj to TD	20320.00	90.00	359.57	9812.18	10211.59	10175.03	-863.98	0.00



Oxy Oxbow CC 17-8 Federal Com 31H Gyro + MWD 0-20320' MD Survey

Geodetic Report

(Def Survey)



Report Date: January 02, 2020 - 10:54 AM Client: OXY Field: NM Eddy County (NAD 83) Structure / Slot: Oxy Oxbow CC 17-8 Federal Com 31H / Oxy Oxbow CC 17-8 Federal Com 31H Well: Oxy Oxbow CC 17-8 Federal Com 31H Borehole: Original Borehole UW / API#: Unknown / 30-015-45083 Survey Name: Oxy Oxbow CC 17-8 Federal Com 31H Gyro + MWD 0-20320' MD Survey Date: November 27, 2019 Tort / AHD / DDI / ERD Ratio: 271.285' / 11543.773 ft / 6.812 / 1.176 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet Location Lat / Long: N 32° 12' 41.50365" W 104° 0' 40.15637" Location Grid N/E Y/X: N 440837.570 RUS, E 640979.340 RUS CRS Grid Convergence Angle: 0.1717° Grid Scale Factor: 0.99992046 Version / Patch: 2.10.782.0	Survey / DLS Computation: Minimum Curvature / Lubinski Vertical Section Azimuth: 354.959° (Grid North) Vertical Section Origin: 0.000 ft, 0.000 ft TVD Reference Datum: RKB = 25N TVD Reference Elevation: 2963.700 ft above MSL Seabed / Ground Elevation: 2938.700 ft above MSL Magnetic Declination: 6.889° Total Gravity Field Strength: 998.4677mgn (9.80665 Based) Gravity Model: GARM Total Magnetic Field Strength: 47845.500 nT Magnetic Dip Angle: 59.920° Declination Date: December 17, 2019 Magnetic Declination Model: IFR1 North Reference: Grid North Grid Convergence Used: 0.1717° Total Corr Mag North->Grid North: 6.7173° Local Coord Referenced To: 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 SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	440837.57	640979.34	N 32 12 41.50 W 104	0 40 16
	25.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00	440837.57	640979.34	N 32 12 41.50 W 104	0 40 16
	36.10	0.21	322.57	36.10	0.02	0.02	-0.01	1.89	440837.59	640979.33	N 32 12 41.50 W 104	0 40 16
	65.90	0.25	325.61	65.90	0.12	0.11	-0.08	0.14	440837.68	640979.26	N 32 12 41.50 W 104	0 40 16
	94.90	0.26	335.72	94.90	0.24	0.23	-0.15	0.16	440837.80	640979.19	N 32 12 41.51 W 104	0 40 16
	125.10	0.32	328.34	125.10	0.38	0.36	-0.22	0.23	440837.93	640979.12	N 32 12 41.51 W 104	0 40 16
	152.20	0.41	334.89	152.20	0.54	0.51	-0.30	0.37	440838.08	640979.04	N 32 12 41.51 W 104	0 40 16
	179.50	0.50	350.76	179.50	0.75	0.72	-0.36	0.56	440838.29	640978.98	N 32 12 41.51 W 104	0 40 16
	204.60	0.52	348.11	204.60	0.97	0.94	-0.40	0.12	440838.51	640978.94	N 32 12 41.51 W 104	0 40 16
	231.00	0.63	344.47	231.00	1.23	1.19	-0.46	0.44	440838.76	640978.88	N 32 12 41.52 W 104	0 40 16
Last Gyro	260.50	0.66	343.75	260.49	1.56	1.51	-0.55	0.11	440839.08	640978.79	N 32 12 41.52 W 104	0 40 16
	292.00	0.84	339.13	291.99	1.96	1.90	-0.69	0.60	440839.47	640978.65	N 32 12 41.52 W 104	0 40 16
	323.50	0.88	338.94	323.49	2.41	2.35	-0.86	0.13	440839.92	640978.48	N 32 12 41.53 W 104	0 40 17
	355.10	0.88	335.19	355.08	2.87	2.79	-1.05	0.18	440840.36	640978.29	N 32 12 41.53 W 104	0 40 17
	386.60	1.00	334.24	386.58	3.36	3.26	-1.27	0.38	440840.83	640978.07	N 32 12 41.54 W 104	0 40 17
	418.10	1.00	325.79	418.07	3.85	3.73	-1.54	0.47	440841.30	640977.80	N 32 12 41.54 W 104	0 40 17
	423.50	0.85	334.28	423.47	3.93	3.81	-1.58	0.36	440841.38	640977.76	N 32 12 41.54 W 104	0 40 17
	534.00	0.15	52.36	533.97	4.78	4.64	-1.83	0.75	440842.21	640977.51	N 32 12 41.55 W 104	0 40 18
	625.00	0.05	147.47	624.97	4.81	4.68	-1.71	0.18	440842.24	640977.63	N 32 12 41.55 W 104	0 40 18
	717.00	0.11	62.56	716.97	4.81	4.68	-1.61	0.13	440842.25	640977.73	N 32 12 41.55 W 104	0 40 17
KOP Actual	793.00	0.11	248.08	792.97	4.81	4.69	-1.61	0.29	440842.26	640977.73	N 32 12 41.55 W 104	0 40 17
	884.00	0.08	195.31	883.97	4.73	4.59	-1.71	0.10	440842.16	640977.63	N 32 12 41.55 W 104	0 40 18
	975.00	0.20	22.52	974.97	4.81	4.68	-1.67	0.31	440842.25	640977.67	N 32 12 41.55 W 104	0 40 18
	1065.00	0.11	87.04	1064.97	4.94	4.83	-1.52	0.20	440842.40	640977.82	N 32 12 41.55 W 104	0 40 17
	1157.00	0.56	43.32	1156.97	5.24	5.16	-1.12	0.53	440842.73	640978.22	N 32 12 41.55 W 104	0 40 17
	1248.00	0.15	268.89	1247.97	5.54	5.48	-0.94	0.74	440843.05	640978.40	N 32 12 41.56 W 104	0 40 17
	1338.00	0.15	230.73	1337.97	5.49	5.41	-1.15	0.11	440842.97	640978.19	N 32 12 41.56 W 104	0 40 17
	1431.00	0.39	255.53	1430.96	5.36	5.25	-1.55	0.28	440842.82	640977.79	N 32 12 41.56 W 104	0 40 17
	1522.00	0.33	261.27	1521.96	5.30	5.13	-2.11	0.08	440842.70	640977.23	N 32 12 41.55 W 104	0 40 18
	1615.00	0.45	284.30	1614.96	5.40	5.18	-2.72	0.21	440842.75	640976.62	N 32 12 41.56 W 104	0 40 19
	1710.00	0.30	254.51	1709.96	5.48	5.21	-3.33	0.25	440842.78	640976.01	N 32 12 41.56 W 104	0 40 19
	1806.00	0.33	246.98	1805.96	5.35	5.03	-3.82	0.05	440842.60	640975.52	N 32 12 41.55 W 104	0 40 20
	1901.00	0.61	306.23	1900.95	5.60	5.22	-4.48	0.55	440842.79	640974.86	N 32 12 41.56 W 104	0 40 21
	1996.00	0.65	324.90	1995.95	6.40	5.96	-5.20	0.22	440843.53	640974.14	N 32 12 41.56 W 104	0 40 22
	2187.00	0.13	271.34	2186.94	7.36	6.86	-6.04	0.30	440844.42	640973.30	N 32 12 41.57 W 104	0 40 23
	2281.00	0.25	13.42	2280.94	7.57	7.06	-6.10	0.32	440844.63	640973.24	N 32 12 41.57 W 104	0 40 23
	2377.00	0.16	200.93	2376.94	7.64	7.14	-6.10	0.43	440844.71	640973.24	N 32 12 41.57 W 104	0 40 23
	2471.00	0.10	44.10	2470.94	7.58	7.07	-6.09	0.27	440844.64	640973.25	N 32 12 41.57 W 104	0 40 23
	2661.00	0.36	263.59	2660.94	7.67	7.12	-6.57	0.23	440844.69	640972.77	N 32 12 41.57 W 104	0 40 23
	2756.00	0.35	282.88	2755.94	7.76	7.16	-7.15	0.13	440844.73	640972.20	N 32 12 41.57 W 104	0 40 24
	2851.00	0.11	304.38	2850.94	7.90	7.27	-7.50	0.26	440844.84	640971.84	N 32 12 41.58 W 104	0 40 24
	2946.00	0.08	107.22	2945.94	7.94	7.30	-7.52	0.20	440844.87	640971.83	N 32 12 41.58 W 104	0 40 24
	3042.00	0.10	210.61	3041.94	7.84	7.21	-7.49	0.15	440844.78	640971.85	N 32 12 41.58 W 104	0 40 24
	3233.00	0.14	282.37	3232.94	7.78	7.12	-7.81	0.08	440844.69	640971.53	N 32 12 41.57 W 104	0 40 25
	3328.00	0.04	135.33	3327.94	7.79	7.12	-7.90	0.18	440844.69	640971.44	N 32 12 41.57 W 104	0 40 25
	3424.00	0.04	45.86	3423.94	7.78	7.12	-7.85	0.06	440844.69	640971.49	N 32 12 41.57 W 104	0 40 25
	3614.00	0.21	305.42	3613.94	8.05	7.37	-8.09	0.12	440844.94	640971.26	N 32 12 41.58 W 104	0 40 25
	3709.00	0.21	333.55	3708.94	8.32	7.62	-8.30	0.11	440845.19	640971.04	N 32 12 41.58 W 104	0 40 25
	3805.00	0.10	42.22	3804.94	8.54	7.84	-8.33	0.21	440845.41	640971.01	N 32 12 41.58 W 104	0 40 25
	3899.00	0.08	127.36	3898.94	8.56	7.86	-8.22	0.13	440845.43	640971.12	N 32 12 41.58 W 104	0 40 25
3995.00	0.10	4.80	3994.94	8.59	7.91	-8.16	0.16	440845.48	640971.18	N 32 12 41.58 W 104	0 40 25	
4090.00	0.32	250.75	4089.94	8.61	7.90	-8.40	0.39	440845.47	640970.94	N 32 12 41.58 W 104	0 40 25	
4185.00	1.38	247.64	4184.93	8.20	7.38	-9.71	1.12	440844.95	640969.63	N 32 12 41.58 W 104	0 40 27	
4281.00	2.63	252.11	4280.86	7.37	6.26	-12.88	1.31	440843.83	640966.46	N 32 12 41.57 W 104	0 40 31	
4376.00	3.07	238.90	4375.75	5.77	4.28	-17.13	0.83	440841.85	640962.21	N 32 12 41.55 W 104	0 40 36	
4471.00	3.71	227.60	4470.58	2.79	0.89	-21.58	0.97	440838.46	640957.76	N 32 12 41.51 W 104	0 40 41	
4566.00	4.87	219.69	4565.32	-1.94	-4.28	-26.42	1.37	440833.29	640952.92	N 32 12 41.46 W 104	0 40 46	
4662.00	6.04	216.79	4660.88	-8.60	-11.46	-32.05	1.25	440826.11	640947.29	N 32 12 41.39 W 104	0 40 53	
4758.00	6.99	214.22	4756.26	-16.89	-20.34	-38.36	1.03	440817.23	640940.98	N 32 12 41.30 W 104	0 40 60	
4853.00	7.74	211.34	4850.47	-26.52	-30.58	-44.94	0.88	440806.99	640934.41	N 32 12 41.20 W 104	0 40 68	
4949.00	8.35	208.90	4945.53	-37.50	-42.21	-51.67	0.73	440795.37	640927.68	N 32 12 41.09 W 104	0 40 76	
5044.00	8.80	209.37	5039.47	-49.22	-54.58	-58.57	0.48	440783.00	640920.78	N 32 12 40.97 W 104	0 40 84	
5140.00	9.06	211.49	5134.30	-61.35	-67.42	-66.12	0.44	440770.15	640913.23	N 32 12 40.84 W 104	0 40 93	
5235.00	8.97	216.82	5228.13	-72.88	-79.73	-74.46	0.88	440757.85	640904.88	N 32 12 40.72 W 104	0 41 03	
5329.00	8.71	224.97	5321.02	-82.91	-90.63	-83.88	1.36	440746.95	640895.46	N 32 12 40.61 W 104	0 41 14	
5424.00	8.86	233.08	5414.91	-91.40	-100.12	-94.82	1.31	440737.46	640884.53	N 32 12 40.52 W 104	0 41 26	
5614.00	8.91	233.00	5602.63	-106.91	-117.76	-118.27	0.03	440719.82	640861.08	N 32 12 40.34 W 104	0 41 54	
5710.00	8.99	231.91	5697.46	-114.94	-126.86	-130.11	0.20	440710.72	640849.24	N 32 12 40.25 W 104	0 41 68	
5805.00	9.49	234.06	5791.23	-123.01	-136.04	-142.29	0.64	440701.54	640837.06	N 32 12 40.16 W 104	0 41 82	
5900.00	9.93	233.61	5884.86	-131.29	-145.49	-155.22	0.47	440692.09	640824.13	N 32 12 40.07 W 104	0 41 97	
6090.00	9.88	231.53	6072.03	-148.79	-165.35	-181.17	0.19	440672.23	640798.18	N 32 12 39.87 W 104	0 42 27	
6184.00	9.93	232.75	6164.63	-157.56	-175.28	-193.94	0.23	440662.31	640785.42	N 32 12 39.78 W 104	0 42 42	
6280.00	9.81	231.54	6259.21	-166.47	-185.37	-206.93	0.25	440652.21	640772.42	N 32 12 39.68 W 104	0 42 57	
6374.00	9.98	233.59	6351.81	-175.12	-195.19	-219.76	0.42	440642.40	640758.60	N 32 12 39.58 W 104	0 42 72	
6469.00	9.97	234.21	6445.38	-183.61	-204.88	-233.05	0.11	440632.70	640746.30	N 32 12 39.48 W 104	0 42 88	
6564.00	9.80	234.81	6538.97	-191.88	-214.35	-246.33	0.21	440623.23	640733.03	N 32 12 39.39 W 104	0 43 03	
6659.00	10.44	234.60	6632.49	-200.29	-224.00	-259.96	0.67	440613.99	640719.41	N 32 12 39.29 W 104	0 43 19	
6755.00	9.77	237.52	6727.00	-208.49	-233.41	-273.92	0.88	440604.18	640705.4			

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 ° ' '')
	6850.00	9.62	236.48	6820.64	-215.94	-242.12	-287.33	0.24	440595.47	640692.03	N 32 12 39.12 W 104	0 43 51
	6945.00	9.20	228.47	6914.37	-224.24	-251.54	-299.64	1.45	440586.05	640679.73	N 32 12 39.02 W 104	0 43 65
	7041.00	9.02	225.37	7009.16	-233.60	-261.92	-310.74	0.54	440575.67	640668.63	N 32 12 38.92 W 104	0 43 78
	7136.00	9.70	225.66	7102.89	-243.42	-272.74	-321.76	0.72	440564.85	640657.60	N 32 12 38.81 W 104	0 43 91
	7231.00	9.88	223.79	7196.51	-253.85	-284.22	-333.13	0.38	440553.37	640646.24	N 32 12 38.70 W 104	0 44 04
	7326.00	10.00	225.53	7290.08	-264.45	-295.88	-344.65	0.34	440541.71	640634.72	N 32 12 38.59 W 104	0 44 18
	7422.00	9.90	228.63	7384.64	-274.64	-307.18	-356.79	0.57	440530.42	640622.57	N 32 12 38.47 W 104	0 44 32
	7517.00	9.03	227.90	7478.35	-283.97	-317.57	-368.45	0.92	440520.02	640610.92	N 32 12 38.37 W 104	0 44 46
	7614.00	8.60	230.11	7574.20	-292.70	-327.33	-379.67	0.56	440510.27	640599.38	N 32 12 38.28 W 104	0 44 59
	7709.00	8.00	227.47	7668.21	-300.78	-336.35	-389.99	0.75	440501.25	640589.38	N 32 12 38.19 W 104	0 44 71
	7899.00	7.29	225.25	7855.52	-316.53	-353.77	-408.29	0.40	440483.82	640571.08	N 32 12 38.02 W 104	0 44 92
	7994.00	8.11	231.81	7950.66	-324.05	-362.16	-417.84	1.26	440475.44	640561.53	N 32 12 37.93 W 104	0 45 03
	8089.00	9.05	240.42	8044.60	-330.81	-369.99	-429.61	1.67	440467.61	640549.77	N 32 12 37.77 W 104	0 45 17
	8185.00	9.08	241.62	8139.40	-336.95	-377.32	-442.84	0.20	440460.28	640536.54	N 32 12 37.66 W 104	0 45 32
	8288.00	8.90	246.00	8241.14	-342.76	-384.42	-457.27	0.69	440453.18	640522.11	N 32 12 37.51 W 104	0 45 49
	8375.00	9.98	246.91	8326.96	-347.28	-390.12	-470.35	1.25	440447.48	640509.03	N 32 12 37.46 W 104	0 45 64
	8467.00	10.99	246.21	8417.42	-352.57	-396.78	-485.71	1.11	440440.82	640493.67	N 32 12 37.39 W 104	0 45 82
	8562.00	11.12	248.91	8510.66	-358.01	-403.73	-502.54	0.56	440433.87	640476.84	N 32 12 37.32 W 104	0 46 02
	8657.00	11.04	248.26	8603.89	-363.16	-410.40	-519.54	0.16	440427.21	640459.84	N 32 12 37.46 W 104	0 46 22
	8752.00	11.07	242.02	8697.13	-369.33	-418.05	-536.04	1.26	440419.56	640443.34	N 32 12 37.38 W 104	0 46 41
	8847.00	10.09	236.45	8790.51	-376.85	-426.92	-551.03	1.49	440410.68	640428.35	N 32 12 37.30 W 104	0 46 58
	8943.00	10.11	240.55	8885.03	-384.35	-435.71	-565.39	0.75	440401.89	640414.01	N 32 12 37.21 W 104	0 46 75
	9133.00	10.51	237.51	9071.96	-399.23	-453.22	-594.52	0.36	440384.39	640384.87	N 32 12 37.04 W 104	0 47 09
	9204.00	10.23	234.41	9141.80	-405.42	-460.37	-605.11	0.88	440377.24	640374.28	N 32 12 36.97 W 104	0 47 22
	9245.00	9.70	237.24	9182.18	-408.88	-464.36	-610.97	1.76	440373.25	640369.42	N 32 12 36.93 W 104	0 47 28
	9339.00	23.01	257.90	9272.24	-414.85	-472.54	-635.72	15.24	440365.07	640343.67	N 32 12 36.85 W 104	0 47 57
	9434.00	26.30	293.77	9359.05	-406.94	-467.92	-673.36	15.89	440369.69	640306.04	N 32 12 36.89 W 104	0 48 01
	9528.00	27.50	331.32	9443.48	-376.81	-440.29	-703.04	17.86	440397.32	640276.35	N 32 12 37.17 W 104	0 48 35
	9554.00	28.52	331.59	9466.43	-365.61	-429.56	-708.88	3.94	440408.04	640270.52	N 32 12 37.27 W 104	0 48 42
	9623.00	31.22	332.23	9526.26	-333.99	-399.25	-725.05	3.94	440438.36	640254.35	N 32 12 37.57 W 104	0 48 61
	9718.00	40.82	331.49	9603.01	-282.68	-350.06	-751.40	10.12	440487.54	640228.00	N 32 12 38.06 W 104	0 48 91
	9752.00	45.18	332.65	9627.87	-261.32	-329.58	-762.25	13.03	440508.02	640217.15	N 32 12 38.26 W 104	0 49 04
	9812.00	52.89	334.33	9667.18	-219.18	-289.05	-782.42	13.03	440548.54	640196.98	N 32 12 38.67 W 104	0 49 27
	9906.00	59.35	342.08	9719.61	-144.53	-216.64	-811.16	9.69	440620.95	640168.25	N 32 12 39.38 W 104	0 49 60
	10001.00	66.27	354.36	9763.12	-60.86	-134.14	-828.08	13.60	440703.44	640151.33	N 32 12 40.20 W 104	0 49 80
	10036.54	68.81	358.75	9776.70	-28.02	-101.39	-830.62	9.48	440736.19	640148.79	N 32 12 40.52 W 104	0 49 83
	10095.00	73.06	0.52	9795.80	27.09	-46.18	-831.91	9.48	440791.39	640147.50	N 32 12 41.07 W 104	0 49 84
	10190.00	88.01	1.22	9811.37	120.04	47.25	-830.47	15.75	440884.81	640148.93	N 32 12 42.00 W 104	0 49 82
	10285.00	90.83	359.05	9812.33	214.63	142.23	-830.25	3.75	440979.78	640149.16	N 32 12 42.94 W 104	0 49 81
	10368.00	90.99	356.54	9811.02	297.51	225.15	-833.44	3.03	441062.70	640145.96	N 32 12 43.76 W 104	0 49 85
	10461.00	91.13	1.06	9809.30	390.26	318.09	-835.39	4.86	441155.63	640144.02	N 32 12 44.68 W 104	0 49 87
	10554.00	89.69	1.35	9808.63	482.70	411.06	-833.43	1.58	441248.60	640145.97	N 32 12 45.60 W 104	0 49 84
	10646.00	89.55	1.67	9809.24	574.10	503.03	-831.01	0.38	441340.56	640148.40	N 32 12 46.51 W 104	0 49 81
	10833.00	89.41	359.53	9810.94	760.18	690.00	-829.05	1.15	441527.51	640150.36	N 32 12 48.36 W 104	0 49 78
	11019.00	89.44	358.83	9812.80	945.66	875.97	-831.71	0.38	441713.47	640147.69	N 32 12 50.20 W 104	0 49 81
	11112.00	89.14	358.28	9813.96	1038.47	968.93	-834.06	0.67	441806.42	640145.35	N 32 12 51.12 W 104	0 49 83
	11298.00	90.30	359.26	9814.87	1224.05	1154.88	-838.05	0.82	441992.36	640141.36	N 32 12 52.96 W 104	0 49 87
	11389.00	90.00	358.91	9814.63	1314.82	1245.87	-839.50	0.51	442083.34	640139.90	N 32 12 53.86 W 104	0 49 88
	11576.00	90.03	358.99	9814.58	1501.36	1432.84	-842.93	0.05	442270.29	640136.48	N 32 12 55.71 W 104	0 49 92
	11669.00	90.34	359.54	9814.28	1594.10	1525.83	-844.12	0.68	442363.27	640135.28	N 32 12 56.63 W 104	0 49 93
	11762.00	89.86	0.01	9814.12	1686.77	1618.83	-844.49	0.72	442456.27	640134.92	N 32 12 57.55 W 104	0 49 93
	11856.00	89.41	359.48	9814.71	1780.44	1712.82	-844.91	0.74	442550.25	640134.50	N 32 12 58.48 W 104	0 49 93
	11949.00	90.13	0.10	9815.09	1873.11	1805.82	-845.25	1.02	442643.24	640134.16	N 32 12 59.40 W 104	0 49 93
	12042.00	89.86	0.12	9815.10	1965.73	1898.82	-845.07	0.29	442736.24	640134.34	N 32 13 0.32 W 104	0 49 93
	12135.00	90.13	359.72	9815.10	2058.38	1991.82	-845.20	0.52	442829.23	640134.21	N 32 13 1.24 W 104	0 49 92
	12228.00	90.34	359.46	9814.72	2151.08	2084.82	-845.87	0.36	442922.22	640133.54	N 32 13 2.16 W 104	0 49 93
	12321.00	90.30	358.98	9814.20	2243.82	2177.81	-847.13	0.52	443015.20	640132.28	N 32 13 3.08 W 104	0 49 94
	12414.00	90.30	359.96	9813.72	2336.53	2270.80	-847.99	1.05	443108.19	640131.42	N 32 13 4.00 W 104	0 49 95
	12508.00	90.10	359.85	9813.39	2430.18	2364.80	-848.15	0.24	443202.18	640131.26	N 32 13 4.93 W 104	0 49 95
	12601.00	89.51	359.40	9813.70	2522.87	2457.80	-848.76	0.80	443295.17	640130.65	N 32 13 5.85 W 104	0 49 95
	12695.00	90.06	359.97	9814.06	2616.55	2551.79	-849.27	0.84	443389.16	640130.14	N 32 13 6.78 W 104	0 49 95
	12787.00	89.96	359.89	9814.04	2708.20	2643.79	-849.39	0.14	443481.15	640130.02	N 32 13 7.69 W 104	0 49 95
	12880.00	90.34	0.24	9813.80	2800.83	2736.79	-849.28	0.56	443574.14	640130.13	N 32 13 8.61 W 104	0 49 95
	12973.00	90.30	359.99	9813.28	2893.46	2829.79	-849.09	0.27	443667.13	640130.32	N 32 13 9.53 W 104	0 49 94
	13067.00	89.96	359.51	9813.05	2987.13	2923.79	-849.50	0.63	443761.12	640129.91	N 32 13 10.46 W 104	0 49 94
	13159.00	89.93	0.33	9813.15	3078.78	3015.79	-849.63	0.89	443853.11	640129.78	N 32 13 11.37 W 104	0 49 94
	13253.00	90.24	0.04	9813.01	3172.39	3109.79	-849.33	0.45	443947.11	640130.08	N 32 13 12.30 W 104	0 49 93
	13347.00	89.34	359.64	9813.36	3266.05	3203.79	-849.59	1.05	444041.10	640129.82	N 32 13 13.23 W 104	0 49 93
	13442.00	89.17	357.68	9814.59	3360.84	3298.75	-851.81	2.07	444136.05	640127.60	N 32 13 14.17 W 104	0 49 96
	13630.00	90.13	0.47	9815.74	3548.33	3486.70	-854.85	1.57	444323.98	640124.56	N 32 13 16.03 W 104	0 49 99
	13725.00	88.45	357.54	9816.92	3643.07	3581.66	-856.50	3.55	444418.94	640122.91	N 32 13 16.97 W 104	0 50 00
	13820.00	90.17	359.52	9818.06	3737.87	3676.62	-858.93	2.76	444513.89	640120.48	N 32 13 17.91 W 104	0 50 03
	13914.00	89.96	1.69	9817.96	3831.41	3770.61	-857.94	2.32	444607.87	640121.47	N 32 13 18.84 W 104	0 50 01
	14103.00	89.41	1.07	9819.00	4019.22	3959.55	-853.39	0.44	444796.79	640126.02	N 32 13 20.71 W 104	0 49 95
	14198.00	89.82	1.22	9819.63	4113.66	4054.53	-851.49	0.46	444891.77	640127.92	N 32 13 21.65 W 104	0 49 93
	14292.00	89.58	1.00	9820.13	4207.12	4148.51	-849.67	0.35	444985.74	640129.74	N 32 13 22.58 W 104	0 49 90
	14387.00	91.10	0.88	9819.56	4301.60	4243.49	-848.11	1.80	445080.71	640131.30	N 32 13 23.52 W 104	0 49 8

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 ° ' ")
	17501.00	89.79	1.08	9815.75	7404.71	7356.49	-872.54	0.79	448193.46	640106.87	N 32 13 54.32 W 104	0 50.06
	17596.00	89.75	1.09	9816.13	7499.16	7451.47	-870.74	0.04	448288.44	640108.67	N 32 13 55.26 W 104	0 50.03
	17690.00	89.55	1.80	9816.70	7592.56	7545.44	-868.37	0.78	448382.40	640111.04	N 32 13 56.19 W 104	0 50.00
	17785.00	89.52	1.74	9817.39	7686.89	7640.39	-865.44	0.10	448477.34	640113.98	N 32 13 57.13 W 104	0 49.96
	17879.00	89.75	1.44	9817.91	7780.26	7734.36	-862.83	0.35	448571.30	640116.58	N 32 13 58.06 W 104	0 49.93
	17973.00	89.48	1.64	9818.54	7873.63	7828.32	-860.30	0.36	448665.25	640119.11	N 32 13 58.99 W 104	0 49.90
	18067.00	89.59	1.51	9819.22	7967.01	7922.28	-857.72	0.26	448759.21	640121.69	N 32 13 59.92 W 104	0 49.87
	18162.00	90.06	1.29	9819.43	8061.41	8017.25	-855.40	0.45	448854.17	640124.01	N 32 14 0.86 W 104	0 49.83
	18257.00	90.06	1.72	9819.33	8155.79	8112.22	-852.90	0.45	448949.13	640126.51	N 32 14 1.80 W 104	0 49.80
	18351.00	90.31	359.80	9819.02	8249.30	8206.21	-851.65	2.06	449043.11	640127.76	N 32 14 2.73 W 104	0 49.78
	18446.00	90.44	359.17	9818.40	8344.00	8301.20	-852.51	0.68	449138.09	640126.90	N 32 14 3.67 W 104	0 49.79
	18540.00	90.55	359.65	9817.59	8437.71	8395.19	-853.48	0.52	449232.08	640125.93	N 32 14 4.60 W 104	0 49.80
	18634.00	89.66	356.59	9817.17	8531.56	8489.13	-856.56	3.32	449326.01	640122.85	N 32 14 5.53 W 104	0 49.83
	18729.00	90.92	0.46	9816.44	8626.35	8584.08	-859.00	4.20	449420.95	640120.41	N 32 14 6.47 W 104	0 49.86
	18824.00	89.69	359.79	9815.77	8720.95	8673.07	-858.80	1.29	449515.93	640120.61	N 32 14 7.41 W 104	0 49.85
	18918.00	89.75	359.81	9816.07	8814.63	8773.07	-859.13	0.15	449609.92	640120.28	N 32 14 8.34 W 104	0 49.85
	19012.00	89.86	359.86	9816.39	8908.29	8867.07	-859.40	0.13	449703.92	640120.01	N 32 14 9.27 W 104	0 49.85
	19106.00	90.10	359.34	9816.42	9001.98	8961.07	-860.05	0.51	449797.91	640119.36	N 32 14 10.20 W 104	0 49.86
	19201.00	90.37	359.69	9816.03	9096.68	9056.06	-860.86	0.47	449892.89	640117.58	N 32 14 11.14 W 104	0 49.86
	19295.00	89.89	359.12	9815.82	9190.39	9150.06	-861.83	0.79	449986.88	640116.75	N 32 14 12.07 W 104	0 49.87
	19484.00	90.13	0.38	9815.78	9284.73	9339.05	-862.66	0.68	450175.86	640116.58	N 32 14 13.94 W 104	0 49.87
	19579.00	90.37	0.40	9815.37	9373.30	9434.05	-862.01	0.25	450270.85	640117.40	N 32 14 14.88 W 104	0 49.86
	19673.00	90.55	359.33	9814.61	9566.95	9528.04	-862.23	1.15	450364.84	640117.18	N 32 14 15.81 W 104	0 49.86
	19767.00	90.00	0.08	9814.16	9660.63	9622.04	-862.72	0.99	450458.82	640116.69	N 32 14 16.74 W 104	0 49.86
	19862.00	90.20	0.15	9814.00	9755.24	9717.04	-862.53	0.22	450553.82	640116.89	N 32 14 17.68 W 104	0 49.86
	19955.00	90.68	359.95	9813.28	9847.87	9810.04	-862.44	0.56	450646.81	640116.97	N 32 14 18.60 W 104	0 49.85
	20050.00	89.96	359.42	9812.75	9942.55	9905.03	-862.97	0.94	450741.79	640116.44	N 32 14 19.54 W 104	0 49.86
	20145.00	90.41	0.20	9812.44	10037.21	10000.03	-863.28	0.95	450836.78	640116.13	N 32 14 20.48 W 104	0 49.86
	20240.00	89.93	359.65	9812.16	10131.85	10095.03	-863.41	0.77	450931.78	640116.00	N 32 14 21.42 W 104	0 49.86
100' FNL Crossed	20241.00	89.93	359.65	9812.16	10132.84	10096.03	-863.41	0.30	450932.77	640116.00	N 32 14 21.43 W 104	0 49.86
Last Survey	20276.00	90.00	359.57	9812.18	10167.73	10131.03	-863.65	0.30	450967.77	640115.76	N 32 14 21.78 W 104	0 49.86
Proj to TD	20320.00	90.00	359.57	9812.18	10211.59	10175.03	-863.98	0.00	451011.77	640115.43	N 32 14 22.21 W 104	0 49.86

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	25.000	1/98.425	26.400	26.400	GYD_GC+DROP+OH-Depth Only	Original Borehole / Oxy Oxbow CC 17-8 Federal Com 31H Gyro + MWD 0-20320' MD
	1	25.000	25.000	Act Stns	26.400	26.400	GYD_GC+DROP+OH-Depth Only	Original Borehole / Oxy Oxbow CC 17-8 Federal Com 31H Gyro + MWD 0-20320' MD
	1	25.000	423.500	Act Stns	26.400	26.400	GYD_GC+DROP+OH	Original Borehole / Oxy Oxbow CC 17-8 Federal Com 31H Gyro + Original Borehole / Oxy Oxbow
	1	423.500	20320.000	Act Stns	26.400	26.400	A010Mb_MWD+IFR1+SAG+MS	CC 17-8 Federal Com 31H Gyro + MWD 0-20320' MD

...Original Borehole\Oxy Oxbow CC 17-8 Federal Com 31H Gyro + MWD 0-20320' MD

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Cabinet Secretary

Adrienne E. Sandoval, Director
Oil Conservation Division



October 10, 2019

Ms. Jana Mendiola
janalyn_mendiola@oxy.com

NON-STANDARD LOCATION

Administrative Order NSL-7940

Oxy USA, Inc. [OGRID 16696]
Oxbow CC 17 8 Federal Com Well No. 031H
API No. 30-015-45083

Proposed Location

	Footages	Unit/Lot	Sec.	Twsp	Range	County
Surface	432 FSL & 1223 FWL	M	17	24S	29E	Eddy
First Take Point	100 FSL & 380 FWL	M	17	24S	29E	Eddy
Last Take Point	100 FNL & 380 FWL	D	8	24S	29E	Eddy
Terminus	20 FNL & 380 FWL	D	8	24S	29E	Eddy

Proposed Horizontal Gas Units

Description	Acres	Pool	Pool Code
W2 of Section 17	640	Purple Sage; Wolfcamp (GAS)	98220
W2 of Section 8			

Reference is made to your application received on September 18, 2019.

You have requested to complete this horizontal well as a gas well described above in the referenced pool or formation. This well is governed by special rules for the Purple Sage; Wolfcamp (Gas) Pool of and provides for 320-acre units, with wells located at least 330 feet from a unit outer boundary.

This well's completed interval is as close as 100 feet to the northern and southern edge of the horizontal spacing unit. Encroachment will impact the following tracts.

Section 20, encroachment to the NW/4
Section 5, encroachment to the SW/4

Administrative Order NSL-7940

Oxy USA, Inc.

October 10, 2019

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The Division understands you have given notice of this application to all operators or owners who are "affected persons," as defined in Paragraph (8) Subsection A of 19.15.2.7 NMAC, in all adjoining units towards which the proposed location encroaches.

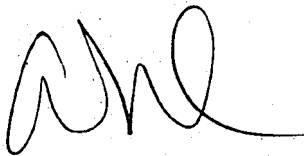
Division understands you seek this unorthodox location as an efficient spacing of your horizontal wells, thereby preventing waste within the Wolfcamp formation underlying the W2 of Section 17 and Section 8.

Your application has been filed under Subsection 6 of Paragraph of Section (C) of 19.15.16.15 NMAC, 19.15.15.13 NMAC and Paragraph (2) of Subsection A of 19.15.4.12 NMAC.

Per Subsection B of 19.15.15.13 NMAC, Division approves this unorthodox location.

The above approvals are subject to your following all other applicable Division rules.

Jurisdiction of this case is retained for the entry of further orders as Division deems necessary.



ADRIENNE E. SANDOVAL
Division Director

AES/lrl

cc: Oil Conservation Division – Artesia District Office
Bureau of Land Management – Carlsbad Field Office