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

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

NM OIL CONSERVATION
ARTESIA DISTRICT
SEP 10 2019
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Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

[1] Operator name and Address	[2] OGRID Number
OXY USA INC. P.O. BOX 4294 HOUSTON, TX 77210	16696
	[3] Reason for Filing Code/ Effective Date - RT

[4] API Number	[5] Pool Name	[6] Pool Code
30-015-45153	PURPLE SAGE WOLFCAMP	98220
[7] Property Code: 318942	[8] Property Name: SUNRISE MDP1 8-5 FEDERAL COM	[9] Well Number: 176H

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
A	17	24S	31E		592	NORTH	1299	EAST	EDDY

[11] Bottom Hole Location FTP – 122' FSL 450' FEL LTP – 126' FNL 493' FEL

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	5	24S	31E		17	NORTH	492	EAST	EDDY

[12] Lse Code	[13] Producing Method Code :	[14] Gas Connection Date:	[15] C-129 Permit Number	[16] C-129 Effective Date	[17] C-129 Expiration Date
F	F	TBD			

III. Oil and Gas Transporters

[18] Transporter OGRID	[19] Transporter Name and Address	[20] O/G/W
237722	CENTURION PIPELINE L.P.	O
151618	ENTERPRISE FIELD SERVICES LLC	G

IV. Well Completion Data

[21] Spud Date	[22] Ready Date	[23] TD	[24] PBTD	[25] Perforations	[26] DHC, MC
02/02/19	09/09/19	11751'V/22501'M	11751'V/22488'/M	12079'-22411'	

[27] Hole Size	[28] Casing & Tubing Size	[29] Depth Set	[30] Sacks Cement
14-3/4"	10-3/4"	730'	845
9-7/8"	7/5/8"	11225'	2065
6-3/4"	5-1/2"	22452'	820

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: Sarah Chapman

Printed name: SARAH CHAPMAN

Title: REGULATORY SPECIALIST

E-mail Address: sarah_chapman@oxy.com

Date: 09/09/2019

Phone: 713-350-4997

OIL CONSERVATION DIVISION

Approved by: Raymond W. Podany

Title: Geologist

Approval Date: 10-10-19

Pending BLM approvals will subsequently be reviewed and scanned.

✓

NM OIL CONSERVATION
ARTESIA DISTRICT
SEP 10 2019
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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	Pool Code	Pool Name
30-015-45153	98220	Purple Sage Wolfcamp

Property Code	Property Name	Well Number
318942	SUNRISE MDP1 "8-5" FEDERAL COM	176H

OGRID No.	Operator Name	Elevation
16696	OXY USA INC.	3547.8'

Surface Location

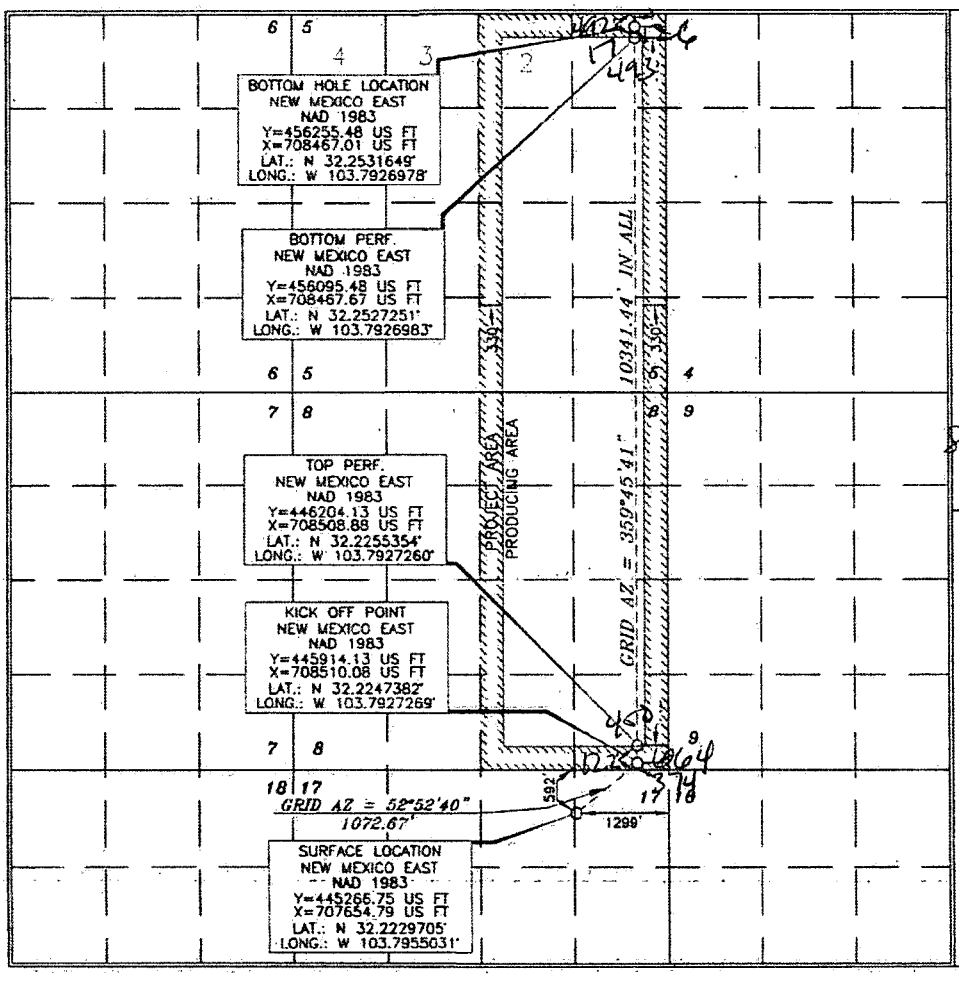
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	17	24 SOUTH	31 EAST, N.M.P.M.		592'	NORTH	1299'	EAST	EDDY

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
1	5	24 SOUTH	31 EAST, N.M.P.M.		17	NORTH	492	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
640			NSL Approval # 7816

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.

Sarah Chapman 9/9/19
Signature Date

Sarah Chapman
Printed Name

Sarah_Chapman@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 or under my supervision, and that the same is true and correct to the best of my belief.

15079
NOVEMBER 7, 2017
Date of Survey

Signature and Seal of Professional Surveyor:
JERRY J. ASEL — NEW MEXICO — 15079 — REGISTERED PROFESSIONAL LAND SURVEYOR

Jerry Asel 2/6/2018
Certificate Number 15079

WO# 171107WL-c (KA)

Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

5. Lease Serial No.
NMNM89172

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
SUNRISE MDP1 8-5 FEDERAL COM 176H

2. Name of Operator
OXY USA INCORPORATED
Contact: SARAH E CHAPMAN
E-Mail: SARAH_CHAPMAN@OXY.COM

9. API Well No.
30-015-45153-00-X1

3a. Address
5 GREENWAY PLAZA SUITE 110
HOUSTON, TX 77046-0521

3b. Phone No. (include area code)
Ph: 713-350-4997

10. Field and Pool or Exploratory Area
PURPLE SAGE-WOLFCAMP (GAS)

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 17 T24S R31E NENE 592FNL 1299FEL
32.222969 N Lat, 103.795502 W Lon

11. County or Parish, State
EDDY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Drilling Operations
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

5/22/19 RU BOP, test to 5000# high 250# low, good test. Test 10-3/4" csg to 1500# for 30 minutes, good test. RIH & drill new formation to 770', perform FIT test to EMW=17.8ppg 380#, good test. Drill 9-7/8" hole to 11235'. RIH & set 7-5/8" 26.4# L-80 BTC csg @ 11225', pump 40bbl spacer then cmt w/ 540sxs (263bbl) class C w/ additives 11.0ppg 2.73 yield followed by 670sxs (172bbl) class C w/ additives 13.2ppg 1.44 yield. Full returns throughout job, pump 2nd stage w/ 855sxs (260bbl) class H w/ additives 12.9ppg 1.87 yield. Ran echometer, TOC @ 357'. Pump 60bbl cmt, received 10bbl cmt to surface. RD and rig release to Sunrise 175H.

6/23/19 NU BOP, test to 5000# high 250# low, good test. Test 7-5/8" csg to 1500# for 30 minutes, good test. RIH & drill new formation to 11245', perform FIT test to EMW=12.0ppg 1750#, good test. Drill 6-3/4" hole to 11751'V/22501'M. Notify BLM, RIH & set 20# P-110 DQX/DQW TORQ csg @ 22452', pump 180bbl tuned spacer then cmt w/ 820sxs (210bbl) class H w/ additives 13.2ppg 1.65 yield. Full

NM OIL CONSERVATION
ARTESIA DISTRICT
SEP 10 2019
RECEIVED

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #473913 verified by the BLM Well Information System
For OXY USA INCORPORATED, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 07/17/2019 (19PP2840SE)

Name *(Printed/Typed)* SARAH E CHAPMAN — Title REGULATORY SPECIALIST

Signature (Electronic Submission) — Date 07/17/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED — ONATHON SHEPARD, ETROLEUM ENGINEER — Date 07/25/2019

Conditions of approval, if any, are atta
certify that the applicant holds legal or
which would entitle the applicant to co — arlsbad

Pending BLM approvals will subsequently be reviewed and scanned.

Title 18 U.S.C. Section 1001 and Title 4
States any false, fictitious or fraudulen — gly and willfully to make to any department or agency of the United diction.

(Instructions on page 2)

** BLM REV ... REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

Additional data for EC transaction #473913 that would not fit on the form

32. Additional remarks, continued

returns throughout job, TOC @ 10725' 7/11/19 RD and rig release to Sunrise 174H.

Revisions to Operator-Submitted EC Data for Sundry Notice #473913

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	DRG SR	DRG SR
Lease:	NMNM89172	NMNM89172
Agreement:		
Operator:	OXY USA INC. P.O. BOX 4294 HOUSTON, TX 77210 Ph: 713-350-4997	OXY USA INCORPORATED 5 GREENWAY PLAZA SUITE 110 HOUSTON, TX 77046-0521 Ph: 713.350.4816
Admin Contact:	SARAH E CHAPMAN REGULATORY SPECIALIST E-Mail: SARAH_CHAPMAN@OXY.COM Cell: 281-642-5503 Ph: 713-350-4997	SARAH E CHAPMAN REGULATORY SPECIALIST E-Mail: SARAH_CHAPMAN@OXY.COM Cell: 281-642-5503 Ph: 713-350-4997
Tech Contact:	SARAH E CHAPMAN REGULATORY SPECIALIST E-Mail: SARAH_CHAPMAN@OXY.COM Cell: 281-642-5503 Ph: 713-350-4997	SARAH E CHAPMAN REGULATORY SPECIALIST E-Mail: SARAH_CHAPMAN@OXY.COM Cell: 281-642-5503 Ph: 713-350-4997
Location: State: County:	NM EDDY COUNTY	NM EDDY
Field/Pool:	PURPLE SAGE-WOLFCAMP (GAS	PURPLE SAGE-WOLFCAMP (GAS)
Well/Facility:	SUNRISE MDP1 8-5 FEDERAL COM 176H Sec 17 T24S R31E NENE 592FNL 1299FEL 32.222969 N Lat, 103.795502 W Lon	SUNRISE MDP1 8-5 FEDERAL COM 176H Sec 17 T24S R31E NENE 592FNL 1299FEL 32.222969 N Lat, 103.795502 W Lon

Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

5. Lease Serial No.
NMNM89172

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
SUNIRSE MDP1 8-5 FEDERAL COM 176H

2. Name of Operator
OXY USA INC.
Contact: SARAH CHAPMAN
E-Mail: SARAH_CHAPMAN@OXY.COM

9. API Well No.
30-015-45153

3a. Address
P.O. BOX 50250
MIDLAND, TX 79710

3b. Phone No. (include area code)
Ph: 713-350-4997

10. Field and Pool or Exploratory Area
PURPLE SAGE WOLFCAMP

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 17 T24S R31E Mer NMP NENE 592FNL 1299FEL
32.222969 N Lat, 103.795500 W Lon

11. County or Parish, State
EDDY COUNTY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Hydraulic Fracture
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

RUPU 8/11/19, RIH & clean out to PBTD @ 22488', pressure test csg to 9800# for 30 minutes, good test. RIH & perf from 22411-22222, 22204-22015, 21997-21808, 21813-21624, 21606-21396, 21376-21187, 21169-20980, 20962-20773, 20755-20566, 20548-20359, 20341-20152, 20134-19945, 19927-19738, 19720-19531, 19513-19324, 19306-19117, 19099-18910, 18892-18703, 18685-18496, 18478-18289, 18271-18082, 18061-17895, 17858-17670, 17650-17461, 17441-17254, 17236-17047, 17029-16840, 16822-16635, 16615-16426, 16426-16219, 16219-16012, 15994-15805, 15805-, 15580-15391, 15373-15181, 15166-14977, 15202-15011, 14752-14563, 14545-14356, 14356-14149, 14149-13942, 13924-13735, 13717-13528, 13510-13321, 13303-13114, 13096-12907, 12889-12700, 12682-12493, 12493-12286, 12286-12079. Total 1200 holes. Frac in 50 stages w/ 15419880gal slickwater and 21065985# sand. 9/1/19 RD Schlumberger, RIH & clean out, turn to flowback and test well for potential.

NM OIL CONSERVATION
ARTESIA DISTRICT
SEP 10 2019

RECEIVED

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #482486 verified by the BLM Well Information System
For OXY USA INC., sent to the Carlsbad

Name *(Printed/Typed)* SARAH CHAPMAN — Title REGULATORY SPECIALIST

Signature (Electronic Submission) — Date 09/09/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ Date

Conditions of approval, if any, are attached. Approval of this notice doe
certify that the applicant holds legal or equitable title to those rights in th
which would entitle the applicant to conduct operations thereon.

Pending BLM approvals will subsequently be reviewed and scanned.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a
States any false, fictitious or fraudulent statements or representations as

department or agency of the United

(Instructions on page 2)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Schlumberger

Oxy Sunrise MDP1 8-5 Federal Com 176H Gyro + MWD 0-22,520' Survey Geodetic Report

(Def Survey)

NM OIL CONSERVATION
ARTESIA DISTRICT
SEP 10 2019
RECEIVED

Report Date:	July 09, 2019 - 12:28 PM	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	OXY	**Vertical Section Azimuth:**	4.167 ° (Grid North)
Field:	NM Eddy County (NAD 83)	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	Oxy Sunrise MDP1 8-5 Federal Com 176H / Oxy Sunrise MDP1 8-5 Federal Com 176H	**TVD Reference Datum:**	RKB=26.5'
Well:	Oxy Sunrise MDP1 8-5 Federal Com 176H	**TVD Reference Elevation:**	3574.300 ft above MSL
Borehole:	Original Borehole	**Seabed / Ground Elevation:**	3547.800 ft above MSL
UWI / API#:	Unknown / 30-015-45153	**Magnetic Declination:**	6.761 °
Survey Name:	Oxy Sunrise MDP1 8-5 Federal Com 176H Gyro + MWD 0-22,520'	**Total Gravity Field Strength:**	998.4270mgn (9.80665 Based)
Survey Date:	May 10, 2019	**Gravity Model:**	GARM
Tort / AHD / DDI / ERD Ratio:	262.579 ° / 11778.571 ft / 6.769 / 0.994	**Total Magnetic Field Strength:**	47918.900 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Dip Angle:**	59.910 °
Location Lat / Long:	N 32° 13' 22.69385", W 103° 47' 43.81116"	**Declination Date:**	June 19, 2019
Location Grid N/E Y/X:	N 445266.750 ftUS, E 707654.790 ftUS	**Magnetic Declination Model:**	IFR1
CRS Grid Convergence Angle:	0.2868 °	**North Reference:**	Grid North
Grid Scale Factor:	0.99994077	**Grid Convergence Used:**	0.2868 °
Version / Patch:	2.10.760.0	**Total Corr Mag North->Grid North:**	6.4742 °
		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 ° ' ")
RKB	0.00	0.00	4.23	0.00	0.00	0.00	0.00	N/A	445266.75	707654.79	N 32 13 22.69	W 103 47 43.81
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	445266.75	707654.79	N 32 13 22.69	W 103 47 43.81
	92.40	1.32	196.44	92.39	-0.74	-0.73	-0.21	2.00	445266.02	707654.58	N 32 13 22.69	W 103 47 43.81
	179.80	1.29	192.93	179.77	-2.70	-2.65	-0.72	0.10	445264.10	707654.07	N 32 13 22.67	W 103 47 43.82
	268.80	1.20	193.60	268.75	-4.61	-4.53	-1.16	0.10	445262.22	707653.63	N 32 13 22.65	W 103 47 43.82
	363.59	1.00	197.43	363.52	-6.39	-6.29	-1.64	0.22	445260.46	707653.15	N 32 13 22.63	W 103 47 43.83
	502.56	1.11	198.91	502.47	-8.87	-8.72	-2.44	0.08	445258.03	707652.35	N 32 13 22.61	W 103 47 43.84
	553.49	0.88	190.33	553.39	-9.74	-9.57	-2.67	0.54	445257.18	707652.12	N 32 13 22.60	W 103 47 43.84
	648.20	1.14	184.55	648.09	-11.40	-11.23	-2.88	0.29	445255.53	707651.91	N 32 13 22.58	W 103 47 43.85
Last Gyro	718.50	1.19	185.89	718.37	-12.83	-12.65	-3.01	0.08	445254.10	707651.78	N 32 13 22.57	W 103 47 43.85
	800.00	1.46	187.87	799.85	-14.72	-14.52	-3.24	0.34	445252.23	707651.55	N 32 13 22.55	W 103 47 43.85
	831.00	1.12	196.68	830.84	-15.41	-15.20	-3.38	1.27	445251.55	707651.41	N 32 13 22.54	W 103 47 43.85
	922.00	0.07	68.68	921.84	-16.25	-16.03	-3.58	1.28	445250.72	707651.21	N 32 13 22.54	W 103 47 43.85
	1103.00	0.20	145.47	1102.84	-16.45	-16.25	-3.30	0.11	445250.50	707651.49	N 32 13 22.53	W 103 47 43.85
	1194.00	0.14	209.97	1193.84	-16.67	-16.48	-3.27	0.21	445250.27	707651.52	N 32 13 22.53	W 103 47 43.85
	1377.00	0.18	297.20	1376.84	-16.76	-16.54	-3.63	0.12	445250.21	707651.16	N 32 13 22.53	W 103 47 43.85
	1559.00	0.22	5.51	1558.83	-16.30	-16.06	-3.85	0.12	445250.69	707650.94	N 32 13 22.54	W 103 47 43.86
	1741.00	0.23	266.28	1740.83	-16.00	-15.74	-4.19	0.19	445251.01	707650.60	N 32 13 22.54	W 103 47 43.86
	1922.00	0.20	342.27	1921.83	-15.76	-15.46	-4.64	0.15	445251.29	707650.15	N 32 13 22.54	W 103 47 43.87
	2106.00	0.17	258.99	2105.83	-15.53	-15.21	-5.01	0.13	445251.54	707649.78	N 32 13 22.54	W 103 47 43.87
	2201.00	0.15	94.01	2200.83	-15.57	-15.24	-5.02	0.33	445251.51	707649.77	N 32 13 22.54	W 103 47 43.87
	2296.00	0.25	61.87	2295.83	-15.46	-15.15	-4.72	0.15	445251.60	707650.07	N 32 13 22.54	W 103 47 43.87
	2390.00	0.11	136.59	2389.83	-15.41	-15.12	-4.47	0.26	445251.63	707650.32	N 32 13 22.54	W 103 47 43.86
	2485.00	0.19	313.43	2484.83	-15.37	-15.08	-4.53	0.32	445251.67	707650.26	N 32 13 22.54	W 103 47 43.86
	2675.00	0.11	246.01	2674.83	-15.26	-14.94	-4.92	0.09	445251.81	707649.87	N 32 13 22.55	W 103 47 43.87
	2769.00	0.20	33.85	2768.83	-15.16	-14.84	-4.91	0.32	445251.91	707649.88	N 32 13 22.55	W 103 47 43.87
	2864.00	0.19	35.24	2863.83	-14.88	-14.57	-4.73	0.01	445252.18	707650.06	N 32 13 22.55	W 103 47 43.87
	2958.00	0.15	48.70	2957.83	-14.66	-14.36	-4.55	0.06	445252.39	707650.24	N 32 13 22.55	W 103 47 43.86
	3148.00	0.21	19.69	3147.83	-14.14	-13.87	-4.24	0.06	445252.88	707650.55	N 32 13 22.56	W 103 47 43.86
	3243.00	0.23	336.21	3242.83	-13.81	-13.53	-4.26	0.17	445253.22	707650.53	N 32 13 22.56	W 103 47 43.86
	3337.00	0.22	180.75	3336.83	-13.82	-13.54	-4.34	0.47	445253.21	707650.45	N 32 13 22.56	W 103 47 43.86
	3432.00	0.12	335.05	3431.83	-13.92	-13.63	-4.38	0.35	445253.12	707650.41	N 32 13 22.56	W 103 47 43.86
	3527.00	0.22	158.61	3526.83	-13.99	-13.71	-4.36	0.36	445253.04	707650.43	N 32 13 22.56	W 103 47 43.86
	3622.00	0.10	348.36	3621.83	-14.08	-13.80	-4.31	0.34	445252.95	707650.48	N 32 13 22.56	W 103 47 43.86
	3716.00	0.08	35.04	3715.83	-13.94	-13.67	-4.29	0.08	445253.08	707650.50	N 32 13 22.56	W 103 47 43.86
	3810.00	0.12	189.51	3809.83	-13.99	-13.71	-4.27	0.21	445253.04	707650.52	N 32 13 22.56	W 103 47 43.86
	3905.00	0.96	183.77	3904.82	-14.88	-14.60	-4.34	0.88	445252.15	707650.45	N 32 13 22.55	W 103 47 43.86
	3999.00	1.04	277.50	3998.81	-15.62	-15.28	-5.23	1.55	445251.47	707649.56	N 32 13 22.54	W 103 47 43.87
	4094.00	0.57	135.26	4093.81	-15.88	-15.50	-5.76	1.61	445251.25	707649.03	N 32 13 22.54	W 103 47 43.88
	4188.00	2.55	99.40	4187.77	-16.38	-16.17	-3.36	2.25	445250.58	707651.43	N 32 13 22.53	W 103 47 43.85
	4282.00	4.75	82.23	4281.58	-15.76	-15.99	2.56	2.59	445250.76	707657.35	N 32 13 22.54	W 103 47 43.78
	4377.00	6.26	77.17	4376.14	-13.43	-14.31	11.50	1.67	445252.44	707666.29	N 32 13 22.55	W 103 47 43.68
	4471.00	7.62	72.93	4469.45	-9.68	-11.34	22.46	1.55	445255.41	707677.25	N 32 13 22.58	W 103 47 43.55
	4566.00	7.68	67.16	4563.60	-4.51	-7.03	34.33	0.81	445259.72	707689.12	N 32 13 22.62	W 103 47 43.41
	4660.00	7.50	60.15	4656.78	1.77	-1.54	45.44	1.00	445265.21	707700.23	N 32 13 22.68	W 103 47 43.28
	4755.00	7.54	60.82	4750.96	8.66	4.59	56.26	0.10	445271.34	707711.05	N 32 13 22.74	W 103 47 43.16
	4850.00	7.67	57.52	4845.13	15.88	11.03	67.05	0.48	445277.78	707721.84	N 32 13 22.80	W 103 47 43.03
	4945.00	7.49	53.53	4939.30	23.69	18.12	77.38	0.59	445284.87	707732.16	N 32 13 22.87	W 103 47 42.91
	5038.00	7.63	54.71	5031.49	31.56	25.29	87.29	0.22	445292.04	707742.08	N 32 13 22.94	W 103 47 42.79
	5132.00	7.73	53.88	5124.65	39.62	32.62	97.49	0.16	445299.37	707752.28	N 32 13 23.01	W 103 47 42.67
	5227.00	7.40	55.43	5218.82	47.58	39.86	107.69	0.41	445306.60	707762.47	N 32 13 23.08	W 103 47 42.56
	5321.00	7.37	56.55	5312.04	55.04	46.61	117.71	0.16	445313.36	707772.49	N 32 13 23.15	W 103 47 42.44
	5416.00	7.68	58.35	5406.22	62.48	53.30	128.19	0.41	445320.05	707782.98	N 32 13 23.21	W 103 47 42.32
	5511.00	7.32	61.94	5500.41	69.42	59.48	138.94	0.62	445326.23	707793.72	N 32 13 23.28	W 103 47 42.19
	5605.00	7.71	68.32	5593.60	75.36	64.63	150.08	0.98	445331.37	707804.86	N 32 13 23.33	W 103 47 42.06
	5700.00	7.69	74.11	5687.75	80.32	68.72	162.12	0.82	445335.47	707816.90	N 32 13 23.37	W 103 47 41.92
	5889.00	7.51	72.17	5875.09	89.28	75.97	186.04	0.17	445342.71	707840.82	N 32 13 23.44	W 103 47 41.64
	5983.00	7.28	70.00	5968.31	94.02	79.88	197.48	0.38	445346.63	707852.26	N 32 13 23.47	W 103 47 41.51
	6078.00	7.64	69.44	6062.50	99.13	84.16	209.05	0.39	445350.91	707863.83	N 32 13 23.52	W 103 47 41.37
	6173.00	7.73	70.86	6156.65	104.30	88.47	221.00	0.22	445355.22	707875.78	N 32 13 23.56	W 103 47 41.23
	6267.00	7.55	76.28	6249.82	108.70	92.01	232.97	0.79	445358.76	707887.75	N 32 13 23.59	W 103 47 41.09
	6457.00	7.46	84.21	6438.19	114.66	96.22	257.37	0.55	445362.96	707912.14	N 32 13 23.63	W 103 47 40.81
	6551.00	7.44	86.21	6531.40	116.56	97.23	269.51	0.28	445363.98	707924.29	N 32 13 23.64	W 103 47 40.67
	6646.00	7.51	86.27	6625.59	118.26	98.04	281.85	0.07	445364.79	707936.62	N 32 13 23.65	W 103 47 40.52
	6740.00	7.44	81.17	6718.79	120.48	99.38	293.99	0.71	445366.12	707948.76	N 32 13 23.66	W 103 47 40.38
	6835.00	7.75	74.26	6812.96	124.04	102.06	306.23	1.01	445368.80	707961.00	N 32 13 23.69	W 103 47 40.24
	6929.00	7.67	67.21	6906.12	129.04	106.21	318.12	1.01	445372.95	707972.89	N 32 13 23.73	W 103 47 40.10
	7118.00	7.74	60.89	7093.41	141.74	117.29	340.86	0.45	445384.03	707995.63	N 32 13 23.84	W 103 47 39.84
	7213.00	7.45	62.72	7187.58	148.47	123.22	351.93	0.40	445389.96	708006.70	N 32 13 23.90	W 103 47 39.71
	7307.00	7.30	68.01	7280.80	154.28	128.25	362.88	0.74	445394.99	708017.65	N 32 13 23.94	W 103 47 39.58
	7402.00	7.45	72.53	7375.02	159.21	132.36	374.35	0.63	445399.10	708029.12	N 32 13 23.98	W 103 47 39.45
	7496.00	7.48	79.24	7468.22	163.03	135.33	386.18	0.93	445402.07	708040.94	N 32 13 24.01	W 103 47 39.31
	7591.00	7.43	81.26	7562.42	166.00	137.42	398.32	0.28	445404.16	708053.09	N 32 13 24.03	W 103 47 39.17
	7686.00	7.24	79.18	7656.64	168.92	139.48	410.27	0.34	445406.22	708065.04	N 32 13 24.05	W 103 47 39.03
	7780.00	6.77	78.83	7749.94	171.92	141.66	421.53	0.50	445408.40	708076.29	N 32 13 24.07	W 103 47 38.90
	7875.00	7.06	73.42	7844.25	175.47	144.41	432.62	0.75	445411.15	708087.38	N 32 13 24.10	W 103 47 38.77
	7970.00	6.22	73.88	7938.61	179.32	147.51	443.16	0.89	445414.25	708097.92	N 32 13 24.13	W 103 47 38.64
	8065.00	6.35	79.93	8033.04	182.40	149.85	453.27	0.71	445416.60	708108.03	N 32 13 24.15	W 103 47 38.53

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 ° ' ")
	8160.00	6.55	82.91	8127.44	184.74	151.44	463.82	0.41	445418.18	708118.58	N 32 13 24.17	W 103 47 38.40
	8254.00	7.21	74.33	8220.77	187.79	153.70	474.82	1.30	445420.44	708129.58	N 32 13 24.19	W 103 47 38.28
	8349.00	6.81	67.25	8315.06	192.37	157.49	485.76	1.00	445424.23	708140.52	N 32 13 24.23	W 103 47 38.15
	8443.00	6.73	65.91	8408.40	197.50	161.89	495.92	0.19	445428.63	708150.68	N 32 13 24.27	W 103 47 38.03
	8538.00	6.59	65.21	8502.76	202.77	166.45	505.96	0.17	445433.19	708160.71	N 32 13 24.32	W 103 47 37.91
	8632.00	6.70	63.15	8596.13	208.21	171.19	515.74	0.28	445437.92	708170.50	N 32 13 24.36	W 103 47 37.80
	8727.00	6.47	62.31	8690.50	213.89	176.18	525.43	0.26	445442.91	708180.19	N 32 13 24.41	W 103 47 37.68
	8821.00	6.55	61.47	8783.90	219.58	181.20	534.83	0.13	445447.94	708189.59	N 32 13 24.46	W 103 47 37.57
	8916.00	6.67	62.99	8878.27	225.36	186.29	544.50	0.22	445453.03	708199.26	N 32 13 24.51	W 103 47 37.46
	9010.00	6.65	61.66	8971.63	231.11	191.35	554.16	0.17	445458.09	708208.91	N 32 13 24.56	W 103 47 37.35
	9104.00	6.71	59.23	9064.99	237.18	196.75	563.67	0.31	445463.48	708218.42	N 32 13 24.61	W 103 47 37.24
	9200.00	6.26	60.88	9160.38	243.27	202.16	573.06	0.51	445468.90	708227.81	N 32 13 24.67	W 103 47 37.13
	9294.00	6.43	66.18	9253.80	248.55	206.78	582.35	0.65	445473.52	708237.11	N 32 13 24.71	W 103 47 37.02
	9389.00	6.46	75.41	9348.21	252.77	210.28	592.39	1.09	445477.01	708247.14	N 32 13 24.75	W 103 47 36.90
	9484.00	6.31	78.76	9442.62	255.87	212.64	602.68	0.42	445479.38	708257.43	N 32 13 24.77	W 103 47 36.78
	9578.00	6.48	80.38	9536.03	258.51	214.53	612.98	0.26	445481.27	708267.73	N 32 13 24.79	W 103 47 36.66
	9673.00	6.68	79.92	9630.41	261.15	216.40	623.70	0.22	445483.13	708278.46	N 32 13 24.80	W 103 47 36.54
KOP Actual	9775.00	6.53	79.61	9731.73	264.06	218.48	635.25	0.15	445485.22	708290.00	N 32 13 24.82	W 103 47 36.40
	9870.00	6.72	81.53	9826.10	266.64	220.27	646.06	0.31	445487.01	708300.81	N 32 13 24.84	W 103 47 36.28
	9964.00	6.73	80.59	9919.45	269.13	221.99	656.93	0.12	445488.72	708311.68	N 32 13 24.86	W 103 47 36.15
	10059.00	7.13	75.11	10013.76	272.37	224.41	668.12	0.81	445491.15	708322.87	N 32 13 24.88	W 103 47 36.02
	10154.00	6.90	63.00	10108.05	277.24	228.52	678.91	1.57	445495.25	708333.65	N 32 13 24.92	W 103 47 35.90
	10248.00	6.89	53.46	10201.37	283.84	234.44	688.47	1.22	445501.17	708343.22	N 32 13 24.98	W 103 47 35.78
	10343.00	6.95	56.91	10295.68	291.04	240.97	697.86	0.44	445507.70	708352.61	N 32 13 25.04	W 103 47 35.67
	10437.00	6.85	62.65	10389.00	297.41	246.65	707.61	0.74	445513.38	708362.35	N 32 13 25.10	W 103 47 35.56
	10532.00	6.78	71.43	10483.33	302.54	251.04	717.95	1.10	445517.77	708372.70	N 32 13 25.14	W 103 47 35.44
	10626.00	6.99	83.34	10576.66	305.76	253.47	728.90	1.53	445520.20	708383.64	N 32 13 25.17	W 103 47 35.31
	10721.00	7.01	88.67	10670.95	307.40	254.27	740.43	0.68	445521.01	708395.18	N 32 13 25.17	W 103 47 35.18
	10910.00	6.92	74.13	10858.57	312.41	257.65	762.92	0.93	445524.39	708417.66	N 32 13 25.21	W 103 47 34.92
	11004.00	6.96	72.19	10951.88	316.48	260.94	773.78	0.25	445527.68	708428.53	N 32 13 25.24	W 103 47 34.79
	11098.00	7.02	64.24	11045.19	321.48	265.18	784.38	1.03	445531.92	708439.12	N 32 13 25.28	W 103 47 34.67
	11193.00	7.18	62.87	11139.46	327.46	270.41	794.89	0.25	445537.15	708449.63	N 32 13 25.33	W 103 47 34.54
	11337.00	7.94	32.39	11282.26	340.90	282.92	808.24	2.80	445549.65	708462.98	N 32 13 25.45	W 103 47 34.39
	11432.00	17.64	12.52	11374.83	360.98	302.57	814.89	11.07	445569.30	708469.63	N 32 13 25.65	W 103 47 34.31
	11527.00	25.52	6.38	11463.12	395.73	337.02	820.29	8.62	445603.75	708475.03	N 32 13 25.99	W 103 47 34.24
	11621.00	31.31	3.51	11545.76	440.43	381.56	824.04	6.33	445648.28	708478.78	N 32 13 26.43	W 103 47 34.20
Wolfcamp Intersection	*11677.32*	*34.66*	*5.46*	*11593.00*	*471.08*	*412.12*	*826.46*	*6.24*	*445678.84*	*708481.20*	*N 32 13 26.73*	*W 103 47 34.17*
	11701.00	36.08	6.18	11612.31	484.78	425.75	827.85	6.24	445692.48	708482.59	N 32 13 26.87	W 103 47 34.15
	11716.00	36.86	6.68	11624.37	493.69	434.61	828.85	5.56	445701.34	708483.59	N 32 13 26.95	W 103 47 34.14
	11781.00	37.34	6.07	11676.21	532.87	473.58	833.20	0.93	445740.30	708487.94	N 32 13 27.34	W 103 47 34.08
	11810.00	38.63	5.69	11699.07	550.71	491.33	835.03	4.52	445758.05	708489.77	N 32 13 27.51	W 103 47 34.06
	11905.00	50.08	6.97	11766.88	616.96	557.22	842.42	12.09	445823.94	708497.15	N 32 13 28.17	W 103 47 33.97
LL Crossing	*11951.70*	*59.69*	*4.48*	*11793.72*	*655.10*	*595.19*	*846.17*	*21.04*	*445861.90*	*708500.91*	*N 32 13 28.54*	*W 103 47 33.93*
	11999.00	69.47	2.41	11813.99	697.76	637.78	848.70	21.04	445904.49	708503.44	N 32 13 28.96	W 103 47 33.89
100' FSL Crossing	*12058.66*	*81.23*	*359.69*	*11829.06*	*755.29*	*695.38*	*849.72*	*20.20*	*445962.09*	*708504.46*	*N 32 13 29.53*	*W 103 47 33.88*
	12062.00	81.89	359.54	11829.55	758.58	698.69	849.70	20.20	445965.39	708504.44	N 32 13 29.57	W 103 47 33.88
	12197.00	88.23	359.21	11841.17	892.54	833.11	848.23	4.70	446099.81	708502.97	N 32 13 30.90	W 103 47 33.89
	12291.00	88.30	359.32	11844.02	986.16	927.06	847.02	0.14	446193.75	708501.76	N 32 13 31.83	W 103 47 33.90
	12386.00	89.91	359.23	11845.50	1080.79	1022.04	845.82	1.70	446288.72	708500.56	N 32 13 32.76	W 103 47 33.91
	12480.00	92.90	359.17	11843.19	1174.40	1115.99	844.51	3.18	446382.67	708499.25	N 32 13 33.69	W 103 47 33.92
	12575.00	93.46	358.16	11837.92	1268.82	1210.81	842.30	1.21	446477.49	708497.04	N 32 13 34.63	W 103 47 33.94
	12669.00	93.56	358.51	11832.17	1362.16	1304.60	839.58	0.39	446571.27	708494.31	N 32 13 35.56	W 103 47 33.96
	12764.00	93.70	357.88	11826.15	1456.45	1399.36	836.59	0.68	446666.02	708491.33	N 32 13 36.50	W 103 47 33.99
	12859.00	92.22	358.22	11821.25	1550.78	1494.18	833.36	1.60	446760.83	708488.10	N 32 13 37.44	W 103 47 34.02
	12953.00	92.60	358.60	11817.30	1644.22	1588.06	830.76	0.57	446854.71	708485.49	N 32 13 38.37	W 103 47 34.05
	13048.00	93.59	358.48	11812.17	1738.63	1682.88	828.34	1.05	446949.53	708483.08	N 32 13 39.30	W 103 47 34.07
	13142.00	93.87	358.06	11806.05	1831.93	1776.64	825.51	0.54	447043.28	708480.25	N 32 13 40.23	W 103 47 34.10
	13237.00	94.90	357.74	11798.79	1926.08	1871.30	822.04	1.14	447137.93	708476.78	N 32 13 41.17	W 103 47 34.13
	13331.00	94.18	357.82	11791.35	2019.21	1964.93	818.41	0.77	447231.56	708473.15	N 32 13 42.10	W 103 47 34.17
	13426.00	93.25	357.84	11785.19	2113.43	2059.67	814.82	0.98	447326.29	708469.56	N 32 13 43.03	W 103 47 34.21
	13520.00	92.46	359.40	11780.51	2206.87	2153.52	812.56	1.86	447420.14	708467.30	N 32 13 43.96	W 103 47 34.23
	13614.00	91.25	0.06	11777.47	2300.53	2247.46	812.11	1.47	447514.08	708466.85	N 32 13 44.89	W 103 47 34.23
	13709.00	90.60	1.33	11775.93	2395.35	2342.44	813.27	1.50	447609.05	708468.01	N 32 13 45.83	W 103 47 34.21
	13804.00	89.26	1.75	11776.05	2490.24	2437.41	815.82	1.48	447704.01	708470.56	N 32 13 46.77	W 103 47 34.17
	13898.00	88.02	2.33	11778.28	2584.15	2531.32	819.16	1.46	447797.91	708473.90	N 32 13 47.70	W 103 47 34.13
	13992.00	86.54	2.19	11782.74	2677.99	2625.14	822.87	1.58	447891.73	708477.61	N 32 13 48.63	W 103 47 34.08
	14087.00	87.37	1.49	11787.79	2772.78	2719.95	825.91	1.14	447986.54	708480.65	N 32 13 49.57	W 103 47 34.04
	14182.00	88.98	0.76	11790.81	2867.59	2814.88	827.78	1.86	448081.46	708482.52	N 32 13 50.51	W 103 47 34.01
	14276.00	90.26	359.65	11791.44	2961.36	2908.88	828.11	1.80	448175.45	708482.85	N 32 13 51.44	W 103 47 34.00
	14371.00	90.36	358.97	11790.92	3056.02	3003.87	826.97	0.72	448270.43	708481.71	N 32 13 52.38	W 103 47 34.01
	14466.00	90.56	358.75	11790.16	3150.61	3098.84	825.08	0.31	448365.41	708479.82	N 32 13 53.32	W 103 47 34.03
	14560.00	91.42	358.98	11788.54	3244.19	3192.81	823.22	0.95	448459.37	708477.96	N 32 13 54.25	W 103 47 34.04
	14655.00	93.28	358.77	11784.64	3338.70	3287.71	821.35	1.97	448554.26	708476.09	N 32 13 55.18	W 103 47 34.06
	14750.00	93.08	358.93	11779.37	3433.15	3382.54	819.45	0.27	448649.09	708474.19	N 32 13 56.12	W 103 47 34.07
	14845.00	90.15	358.51	11776.69	3527.67	3477.47	817.33	3.12	448744.01	708472.07	N 32 13 57.06	W 103 47 34.09
	14940.00	87.85	358.24	11778.35	3622.16	3572.41	814.63	2.44	448838.94	708469.37	N 32 13 58.00	W 103 47 34.12
	15129.00	89.50	359.53	11782.72	3810.30	3761.32	810.96	1.11	449027.84	708465.70	N 32 13 59.87	W 103 47 34.15
	15224.00	85.16	358.11	11787.15	3904.76	3856.17	809.01	4.81	449122.68	708463.75	N 32 14 0.81	W 103 47 34.17
	15318.00	86.27	358.72	11794.17	3998.02	3949.87	806.41	1.35	449216.37	708461.16	N 32 14 1.74	W 103 47 34.19
	15413.00	89.60	1.12	11797.59	4092.68	4044.78	806.28	4.32	449311.29	708461.02	N 32 14 2.68	W 103 47 34.19
	15507.00	90.46	0.53	11797.54	4186.52	4138.77	807.64	1.11	449405.27	708462.38	N 32 14 3.61	W 103 47 34.17
	15697.00	94.01	1.43	11790.14	4376.05	4328.57	810.88	1.93	449595.05	708465.62	N 32 14 5.48	W 103 47 34.12
	15791.00	95.32	1.69	11782.49	4469.64	4422.22	813.43	1.42	449688.70	708468.17	N 32 14 6.41	W 103 47 34.08
	15886.00	91.91	1.32	11776.50	4564.33	4516.98	815.92	3.61	449783.46	708470.66	N 32 14 7.35	W 103 47 34.05
	16075.00	87.33	359.02	11777.75	4752.81	4705.92	816.48	2.71	449972.38	708471.22	N 32 14 9.22	W 103 47 34.03
	16163.00	88.49	1.20	11780.96	4840.52	4793.85	816.65	2.80	450060.31	708471.39	N 32 14 10.09	W 103 47 34.02
	16258.00	89.90	359.60	11782.30	4935.30	4888.83	817.32	2.24	450155.28	708472.06	N 32 14 11.03	W 103 47 34.01
	16353.00	90.52	359.66	11781.95	5030.00	4983.83	816.70	0.66	450250.28	708471.44	N 32 14 11.97	W 103 47 34.01
	16541.00	90.42	0.79	11780.41	5217.55	5171.82	817.44	0.60	450438.25	708472.18	N 32 14 13.83	W 103 47 33.99
	16636.00	89.59	359.68	11780.40	5312.32	5266.82	817.83	1.46	450533.24	708472.57	N 32 14 14.77	W 103 47 33.98
	16731.00	89.87	359.81	11780.85	5407.04	5361.82	817.41	0.32	450628.24	708472.15	N 32 14 15.71	W 103 47 33.98
	16825.00	89.35	359.40	11781.49	5500.74	5455.81	816.76	0.70	450722.23	708471.50	N 32 14 16.64	W 103 47 33.98
	16920.00	89.42	0.31	11782.51	5595.46	5550.80	816.52	0.96	450817.21	708471.26	N 32 14 17.58	W 103 47 33.98
	17109.00	89.32	359.23	11784.59	5783.89	5739.79	815.76	0.57	451006.19	708470.50	N 32 14 19.45	W 103 47 33.98
	17204.00	88.84	359.83	11786.11	5878.57	5834.77	814.98	0.81	451101.16	708469.72	N 32 14 20.39	W 103 47 33.98
	17393.00	89.22	359.51	11789.31	6066.96	6023.74	813.89	0.26	451290.12	708468.63	N 32 14 22.26	W 103 47 33.98
	17548.00	88.73	0.47	11792.08	6221.52	6178.71	813.87	0.70	451445.09	708468.61	N 32 14 23.79	W 103 47 33.98
	17737.00	90.14	359.85	11793.95	6410.04	6367.70	814.39	0.81	451634.06	708469.13	N 32 14 25.66	W 103 47 33.96
	17832.00	90.24	359.80	11793.63	6504.77	6462.70	814.10	0.12	451729.05	708468.84	N 32 14 26.60	W 103 47 33.96
	17926.00	90.10	359.63	11793.35	6598.48	6556.70	813.64	0.23	451823.04	708468.38	N 32 14 27.53	W 103 47 33.96
	18021.00	90.65	359.69	11792.73	6693.19	6651.69	813.07	0.58	451918.03	708467.81	N 32 14 28.47	W 103 47 33.96
	18210.00	90.62	0.71	11790.64	6881.72	6840.68	813.73	0.54	452107.01	708468.47	N 32 14 30.34	W 103 47 33.94
	18305.00	89.73	358.33	11790.35	6976.40	6935.66	812.94	2.67	452201.99	708467.68	N 32 14 31.28	W 103 47 33.94
	18400.00	90.21	359.22	11790.40	7070.98	7030.64	810.90	1.06	452296.96	708465.65	N 32 14 32.22	W 103 47 33.96
	18494.00	90.86	359.13	11789.52	7164.62	7124.63	809.55	0.70	452390.94	708464.29	N 32 14 33.15	W 103 47 33.97
	18589.00	90.41	358.94	11788.47	7259.23	7219.61	807.95	0.51	452485.92	708462.69	N 32 14 34.09	W 103 47 33.98
	18684.00	90.41	359.28	11787.79	7353.86	7314.59	806.48	0.36	452580.90	708461.22	N 32 14 35.03	W 103 47 34.00

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 ° ' ")
	18778.00	90.35	359.30	11787.16	7447.52	7408.58	805.31	0.07	452674.88	708460.05	N 32 14 35.96	W 103 47 34.00
	18873.00	90.59	359.64	11786.38	7542.19	7503.58	804.43	0.44	452769.87	708459.17	N 32 14 36.90	W 103 47 34.01
	18968.00	90.76	358.70	11785.26	7636.83	7598.56	803.06	1.01	452864.84	708457.80	N 32 14 37.84	W 103 47 34.02
	19156.00	90.31	359.17	11783.51	7824.03	7786.52	799.56	0.35	453052.79	708454.30	N 32 14 39.70	W 103 47 34.05
	19345.00	90.38	0.12	11782.37	8012.44	7975.51	798.39	0.50	453241.77	708453.13	N 32 14 41.57	W 103 47 34.05
	19535.00	90.62	359.77	11780.71	8201.92	8165.50	798.21	0.22	453431.75	708452.95	N 32 14 43.45	W 103 47 34.04
	19629.00	90.17	359.34	11780.06	8295.61	8259.49	797.48	0.66	453525.74	708452.22	N 32 14 44.38	W 103 47 34.04
	19724.00	90.55	359.45	11779.47	8390.28	8354.49	796.48	0.42	453620.73	708451.22	N 32 14 45.32	W 103 47 34.05
	19818.00	90.52	359.48	11778.59	8483.96	8448.48	795.60	0.05	453714.71	708450.34	N 32 14 46.25	W 103 47 34.06
	19913.00	90.45	358.82	11777.79	8578.59	8543.46	794.19	0.70	453809.69	708448.93	N 32 14 47.19	W 103 47 34.07
	20007.00	90.62	359.90	11776.91	8672.25	8637.45	793.14	1.16	453903.67	708447.88	N 32 14 48.12	W 103 47 34.07
	20101.00	90.21	0.74	11776.23	8766.04	8731.45	793.66	0.99	453997.66	708448.41	N 32 14 49.05	W 103 47 34.06
	20196.00	90.76	359.29	11775.42	8860.78	8826.44	793.69	1.63	454092.65	708448.43	N 32 14 49.99	W 103 47 34.06
	20290.00	90.96	358.85	11774.01	8954.40	8920.42	792.16	0.51	454186.62	708446.90	N 32 14 50.92	W 103 47 34.07
	20385.00	90.79	359.35	11772.56	9049.02	9015.40	790.67	0.56	454281.59	708445.41	N 32 14 51.86	W 103 47 34.08
	20479.00	90.31	359.37	11771.66	9142.68	9109.39	789.62	0.51	454375.58	708444.36	N 32 14 52.79	W 103 47 34.09
	20574.00	90.59	359.55	11770.91	9237.36	9204.38	788.73	0.35	454470.56	708443.47	N 32 14 53.73	W 103 47 34.09
	20669.00	90.59	1.82	11769.93	9332.17	9299.36	789.86	2.39	454565.54	708444.60	N 32 14 54.67	W 103 47 34.07
	20763.00	90.65	1.75	11768.92	9426.08	9393.31	792.79	0.10	454659.48	708447.53	N 32 14 55.60	W 103 47 34.03
	20858.00	90.45	2.98	11768.01	9521.03	9488.22	796.71	1.31	454754.39	708451.45	N 32 14 56.54	W 103 47 33.98
	20953.00	90.52	3.58	11767.20	9616.02	9583.06	802.14	0.64	454849.23	708456.89	N 32 14 57.48	W 103 47 33.91
	21047.00	90.76	2.02	11766.15	9709.98	9676.94	806.74	1.68	454943.10	708461.48	N 32 14 58.41	W 103 47 33.85
	21142.00	90.65	2.87	11764.98	9804.93	9771.85	810.79	0.90	455038.00	708465.53	N 32 14 59.35	W 103 47 33.80
	21237.00	90.21	2.22	11764.27	9899.89	9866.75	815.01	0.83	455132.90	708469.75	N 32 15 0.28	W 103 47 33.75
	21331.00	90.52	0.63	11763.67	9993.78	9960.72	817.34	1.72	455226.86	708472.08	N 32 15 1.21	W 103 47 33.71
	21521.00	90.72	358.79	11761.61	10183.18	10150.69	816.38	0.97	455416.82	708471.12	N 32 15 3.09	W 103 47 33.71
	21709.00	90.04	358.07	11760.37	10370.23	10338.62	811.23	0.53	455604.73	708465.97	N 32 15 4.95	W 103 47 33.76
	21898.00	89.76	359.34	11760.70	10558.37	10527.56	806.96	0.69	455793.67	708461.70	N 32 15 6.82	W 103 47 33.80
	21992.00	88.73	359.35	11761.94	10652.03	10621.55	805.89	1.10	455887.65	708460.63	N 32 15 7.75	W 103 47 33.81
	22087.00	90.31	0.21	11762.73	10746.74	10716.54	805.52	1.89	455982.63	708460.26	N 32 15 8.69	W 103 47 33.81
	22181.00	88.73	359.26	11763.52	10840.46	10810.53	805.09	1.96	456076.62	708459.83	N 32 15 9.62	W 103 47 33.81
	22275.00	89.52	0.31	11764.95	10934.17	10904.52	804.73	1.40	456170.60	708459.48	N 32 15 10.55	W 103 47 33.80
	22370.00	89.86	0.99	11765.47	11028.99	10999.51	805.81	0.80	456265.59	708460.55	N 32 15 11.49	W 103 47 33.79
100' FNL Crossing	*22438.19*	*91.84*	*0.69*	*11764.46*	*11097.05*	*11067.68*	*806.81*	*2.94*	*456333.75*	*708461.55*	*N 32 15 12.17*	*W 103 47 33.77*
Final Survey	22465.00	92.62	0.57	11763.41	11123.79	11094.47	807.11	2.94	456360.54	708461.85	N 32 15 12.43	W 103 47 33.77
Proj. to TD	22520.00	92.62	0.57	11760.90	11178.62	11149.41	807.65	0.00	456415.48	708462.39	N 32 15 12.98	W 103 47 33.76

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 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 Tool Type	Borehole / Survey
	1	0.000	26.500	1/98.425	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Sunrise MDP1 8-5 Federal Com 176H Gyro + MWD 0-22,520'
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Sunrise MDP1 8-5 Federal Com 176H Gyro + MWD 0-22,520'
	1	26.500	718.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Sunrise MDP1 8-5 Federal Com 176H
	1	718.500	9104.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Sunrise MDP1 8-5 Federal Com 176H
	1	9104.000	9673.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Sunrise MDP1 8-5 Federal Com 176H
	1	9673.000	9775.000	Act Stns	30.000	30.000	NAL_MWD_1.0_DEG	Original Borehole / Oxy Sunrise MDP1 8-5 Federal Com 176H
	1	9775.000	10154.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Sunrise MDP1 8-5 Federal Com 176H
	1	10154.000	10248.000	Act Stns	30.000	30.000	NAL_MWD_1.0_DEG	Original Borehole / Oxy Sunrise MDP1 8-5 Federal Com 176H
	1	10248.000	10532.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Sunrise MDP1 8-5 Federal Com 176H
	1	10532.000	10626.000	Act Stns	30.000	30.000	NAL_MWD_1.0_DEG	Original Borehole / Oxy Sunrise MDP1 8-5 Federal Com 176H
	1	10626.000	10910.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Sunrise MDP1 8-5 Federal Com 176H
	1	10910.000	11004.000	Act Stns	30.000	30.000	NAL_MWD_1.0_DEG	Original Borehole / Oxy Sunrise MDP1 8-5 Federal Com 176H
	1	11004.000	11193.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Sunrise MDP1 8-5 Federal Com 176H
	1	11193.000	11701.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Sunrise MDP1 8-5 Federal Com 176H
	1	11701.000	11781.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Sunrise MDP1 8-5 Federal Com 176H
	1	11781.000	22520.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Sunrise MDP1 8-5 Federal Com 176H

Schlumberger

OXY

Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Sunrise MDP1 8-5 Federal Com 176H	NM Eddy County (NAD 83)	Oxy Sunrise MDP1 8-5 Federal Com 176H

Gravity & Magnetic Parameters

Model: IFR1 Dip: 59.91° Date: 19-Jun-2019
MagDec: 6.761° FS: 47918.9nT Gravity FS: 998.427mgn (9.80665 Based)

Surface Location NAD83 New Mexico State Plane, Eastern Zone, US Feet

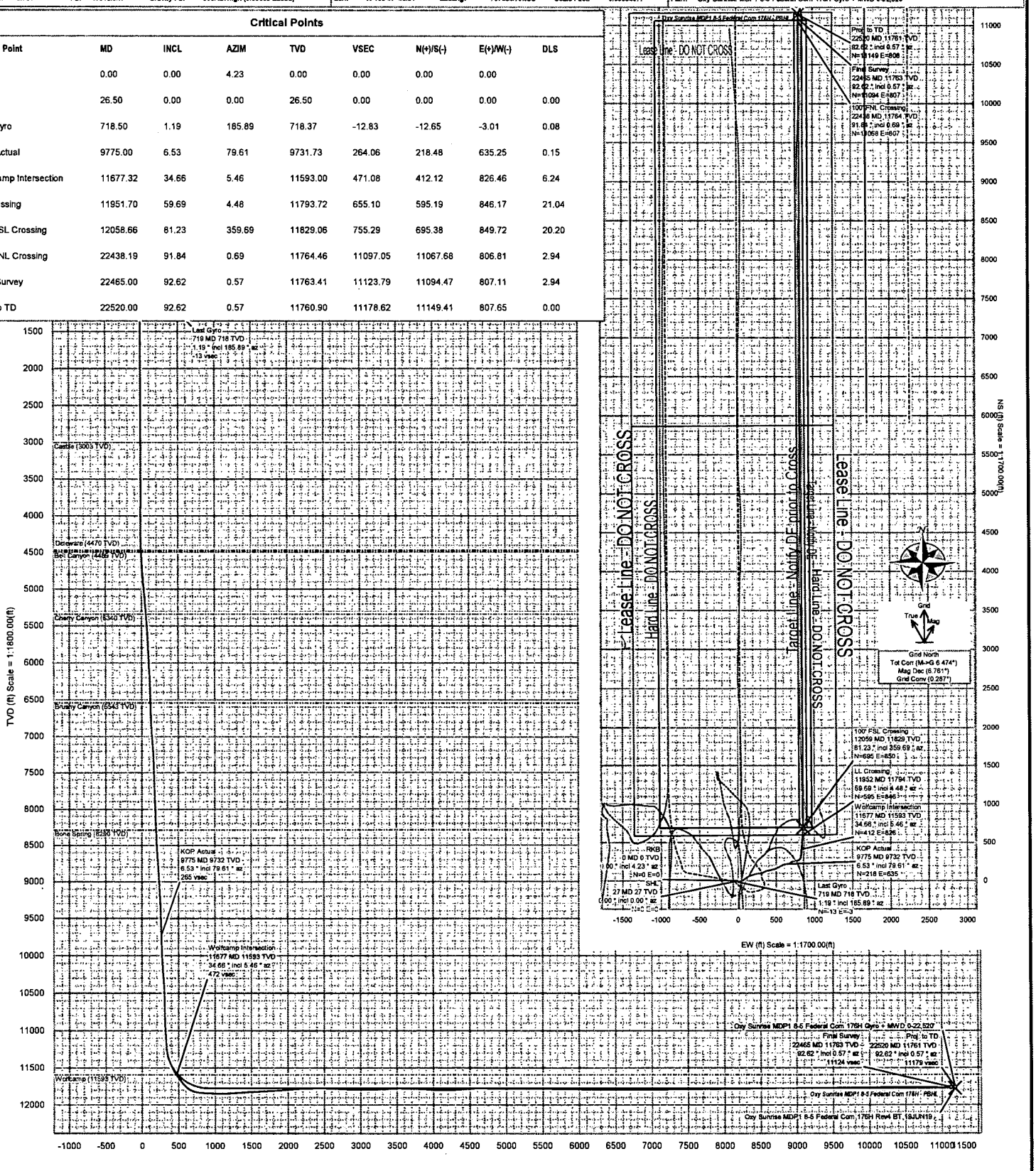
Lat: N 32 13 22.69 Northing: 445256.75ftUS Grid Conv: 0.2868°
Lon: W 103 47 43.81 Easting: 707654.79ftUS Scale Fact: 0.99994077

Miscellaneous

Slot: Oxy Sunrise MDP1 8-5 Federal Com 176H TVD Ref: RKB=26.5'(3574.3ft above MSL)
Plan: Oxy Sunrise MDP1 8-5 Federal Com 176H Gyro + MWD 0-22,520'

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
RKB	0.00	0.00	4.23	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	718.50	1.19	185.89	718.37	-12.83	-12.65	-3.01	0.08
KOP Actual	9775.00	6.53	79.61	9731.73	264.06	218.48	635.25	0.15
Wolfcamp Intersection	11677.32	34.66	5.46	11593.00	471.08	412.12	826.46	6.24
LL Crossing	11951.70	59.69	4.48	11793.72	655.10	595.19	846.17	21.04
100' FSL Crossing	12058.66	81.23	359.69	11829.06	755.29	695.38	849.72	20.20
100' FNL Crossing	22438.19	91.84	0.69	11764.46	11097.05	11067.68	806.81	2.94
Final Survey	22465.00	92.62	0.57	11763.41	11123.79	11094.47	807.11	2.94
Proj. to TD	22520.00	92.62	0.57	11760.90	11178.62	11149.41	807.65	0.00



NM OIL CONSERVATION
ARTESIA DISTRICT
SEP 10 2019
RECEIVED

Intent ☐ As Drilled ☒

API #
30-015-45153

Operator Name:	Property Name:	Well Number
OXY USA Inc	Sunrise MDP1 8-5 Federal Com	176H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
A	17	24S	31E		374	North	664	east	EDDY

Latitude	Longitude	NAD
32.22356	-103.79344	NAD83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	8	24S	31E		122	South	450	east	EDDY

Latitude	Longitude	NAD
32.22493	-103.77392	NAD83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
I	5	24S	31E		126	North	493	east	EDDY

Latitude	Longitude	NAD
32.25361	-103.79271	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