

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.*5. Lease Serial No.
NMNM19199

6. If Indian Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

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

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

CAL MON 35 FEDERAL 173H

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

9. API Well No.

30-015-45522

3a. Address

P.O. BOX 4294
HOUSTON, TX 77210

3b. Phone No. (include area code)

Ph: 713-350-4997

10. Field and Pool or Exploratory Area
WILDCAT WOLFCAMP

40-015, G. DB 52331350

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 35 T23S R31E Mer NMP NWNE 240FNL 2458FEL
32.267522 N Lat, 103.748001 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
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

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 recompleat 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 recompleat 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.

OXY USA Inc wishes to make the following changes to the original APD submitted:\

1. Cal Mon 35 Federal 173H BHL is moving 430' east of initial permitted location.
2. TVD Change
3. Intermediate Casing Change
4. Cementing Program
5. Mud Program
6. Cuttings Volume

* New directional plan, drill plan (with highlighted changes noted), drill plot, C-102 and supplemental information is attached for your use.

- All previous COA still apply.

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

Electronic Submission #451201 verified by the BLM Well Information System
For OXY USA INC, sent to the Carlsbad
Committed to AFMSS for processing by MUSTAFA HAQUE on 01/23/2019 ()

Name (Printed/Typed) DAVID STEWART

Title SR REGULATORY ADVISOR

Signature (Electronic Submission)

Date 01/21/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Mustafa Haque

Title

Petroleum Engineer
Carlsbad Field Office

Date 01-24-2019

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

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

RUP 2-21-19

District I
1425 N. French Dr., Hobbs, NM 88240
Phone: (505) 393-6161 Fax: (505) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (505) 745-1283 Fax: (505) 745-9720
District III
1000 Rio Bravo Road, Artesia, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1230 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-5460 Fax: (505) 476-3462

State of New Mexico **NM OIL CONSERVATION**
Energy, Minerals & Natural Resources Department
ARTESIA DISTRICT
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

RECEIVED

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-45522	Pool Code 98236	Pool Name Wildcat Wolfcamp	Well Number 173H
Property Code 314855	Property Name CAL-MON "35" FEDERAL		Elevation 3462.5'
OGRID No. 14696	Operator Name OXY USA INC.		

Surface Location

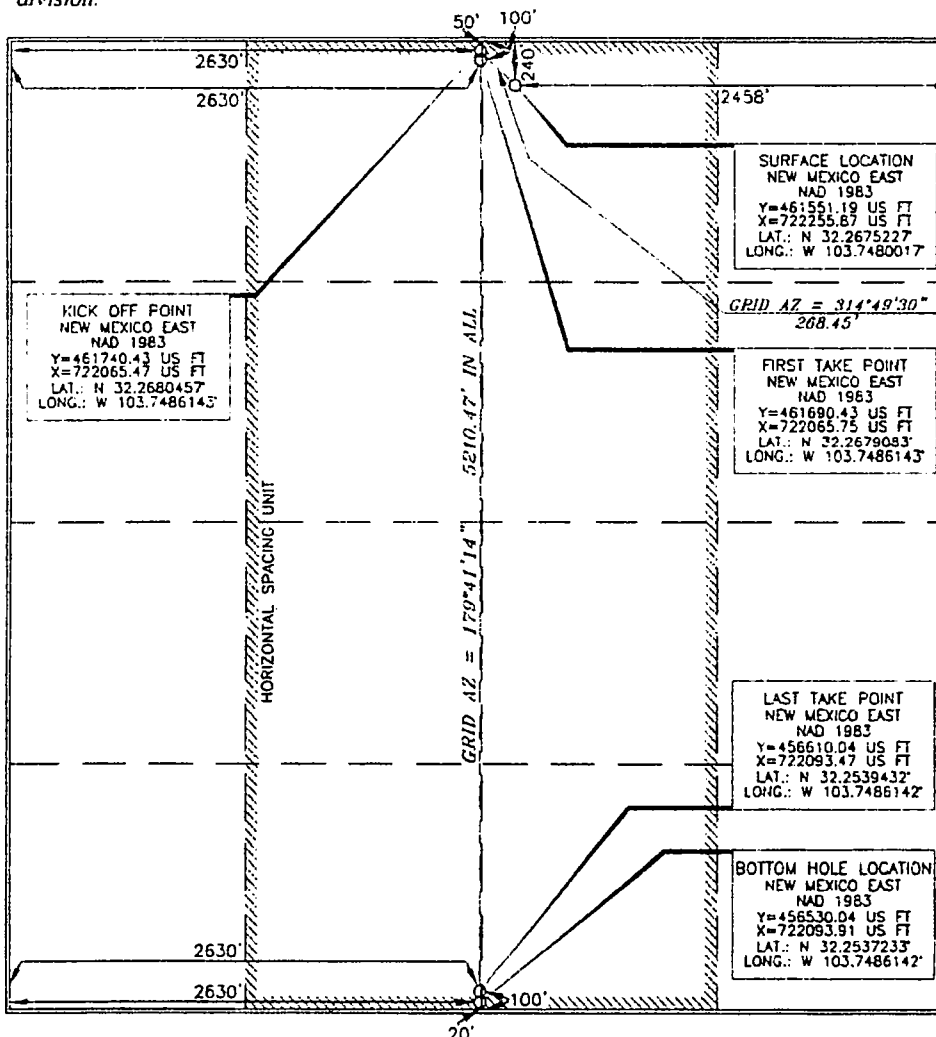
U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	35	23 SOUTH	31 EAST, N.M.P.M.		240'	NORTH	2458'	EAST	EDDY

Bottom Hole Location If Different From Surface

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	35	23 SOUTH	31 EAST, N.M.P.M.		20'	SOUTH	2630'	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

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 a 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 is a voluntary pooling agreement or a compulsory pooling order.

Signature: **Sarah Chapman** 1/17/19
Printed Name: **Sarah Chapman**
E-mail Address: **Sarah.Chapman@oxy.com**

SURVEYOR CERTIFICATION

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

Signature: **ERRY J. ASH**
Printed Name: **ERRY J. ASH**
Date of Survey: **FEBRUARY 13, 2018**
Professional Land Surveyor
Certificate Number: **15079**

WO# 170922WL-b (Rev. B) (KA)

RWP 2-21-19

NM OIL CONSERVATION
ARTESIA DISTRICT

Intent ☒ As Drilled ☐

JAN 31 2019

API # 30-015-45522		RECEIVED	
Operator Name: Oxy USA Inc.		Property Name: Cal Mm 35 Federal	Well Number 173H

Kick Off Point (KOP)

UL C	Section 35	Township 23S	Range 31E	Lot	Feet 50	From N/S NORTH	Feet 2630	From E/W WEST	County EDDY
Latitude 32.2680457					Longitude -103.7486143			NAD NAD83	

First Take Point (FTP)

UL C	Section 35	Township 23S	Range 31E	Lot	Feet 100	From N/S NORTH	Feet 2630	From E/W WEST	County EDDY
Latitude 32.2679083					Longitude -103.7486143			NAD NAD83	

Last Take Point (LTP)

UL H	Section 35	Township 23S	Range 31E	Lot	Feet 100	From N/S SOUTH	Feet 2630	From E/W WEST	County EDDY
Latitude 32.2639432					Longitude -103.7486142			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

Oxy USA Inc. - Cal-Mon35 Fed 173H - Sundry

Changes are highlighted in yellow. There were no changes to the BOPE.

1. Geologic Formations

TVD of target	11734'	Pilot Hole Depth	N/A
MD at TD:	16689'	Deepest Expected fresh water:	736'

2. Casing Program

Hole Size (in)	Casing Interval		Csg. Size (in)	Weight (lbs)	Grade	Conn.	SF	SF Burst	Buoyant Body SF	Buoyant Joint SF
	From (ft)	To (ft)					Collapse		Tension	Tension
14.75	0	786	10.75	40.5	J-55	BTC	1.125	1.2	1.4	1.4
9.875	0	11329	7.625	26.4	L-80 HC	BTC	1.125	1.2	1.4	1.4
6.75	0	11779	5.5	20	P-110	DQX	1.125	1.2	1.4	1.4
6.75	11779	16689	4.5	13.5	P-110	DQX	1.125	1.2	1.4	1.4
SF Values will meet or Exceed										

3. Cementing Program

Casing String	# Sks	Wt. (lb/gal)	Yld (ft3/sack)	H2O (gal/sk)	500# Comp. Strength (hours)	Slurry Description
Surface (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Surface (Tail)	644	14.8	1.33	6.365	5:26	Class C Cement, Accelerator
Intermediate 1st Stage (Lead)	587	10.2	2.58	11.568	6:59	Pozzolan Cement, Retarder
Intermediate 1st Stage (Tail)	167	13.2	1.61	7.804	7:11	Class H Cement, Retarder, Dispersant, Salt
DV/ECP Tool @ 4455 (We request the option to cancel the second stage if cement is circulated to surface during the first stage of cement)						
Intermediate 2nd Stage (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Intermediate 2nd Stage (Tail)	1054	13.6	1.67	8.765	7:32	Class C Cement, Accelerator, Retarder
Production (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Production (Tail)	671	13.2	1.38	6.686	3:39	Class H Cement, Retarder, Dispersant, Salt

Casing String	Top (ft)	Bottom (ft)	% Excess
Surface (Lead)	N/A	N/A	N/A
Surface (Tail)	0	786	100%
Intermediate 1st Stage (Lead)	4355	10229	20%
Intermediate 1st Stage (Tail)	10229	11229	20%
Intermediate 2nd Stage (Lead)	N/A	N/A	N/A
Intermediate 2nd Stage (Tail)	0	4455	100%
Production (Lead)	N/A	N/A	N/A
Production (Tail)	10729	16689	20%

Oxy USA Inc. - Cal-Mon35 Fed 173H - Sundry

4. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From (ft)	To (ft)				
0	786 215	Water-Based Mud	8.6-8.8	40-60	N/C
786		Saturated Brine-Based or Oil-Based Mud	8.0-10.0	35-45	N/C
		Water-Based or Oil-Based Mud	9.5-12.0	38-50	N/C

Total estimated cuttings volume: 227.1 bbls.

Attachments

 x Directional Plan

5. Company Personnel

<u>Name</u>	<u>Title</u>	<u>Office Phone</u>	<u>Mobile Phone</u>
Price Maxwell	Drilling Engineer	713-552-8744	830-370-6326
Diego Tellez	Drilling Engineer Supervisor	713-350-4602	713-303-4932
Simon Benavides	Drilling Superintendent	713-522-8652	281-684-6897
John Willis	Drilling Manager	713-366-5556	713-259-1417

Schlumberger

OXY



Borehole:

Well:

Field:

Structure:

Original Borehole

Oxy Cal-mon 35 Fed. #173H XY

NM Eddy County (NAD 83)

Oxy Cal-mon 35 Federal 173H

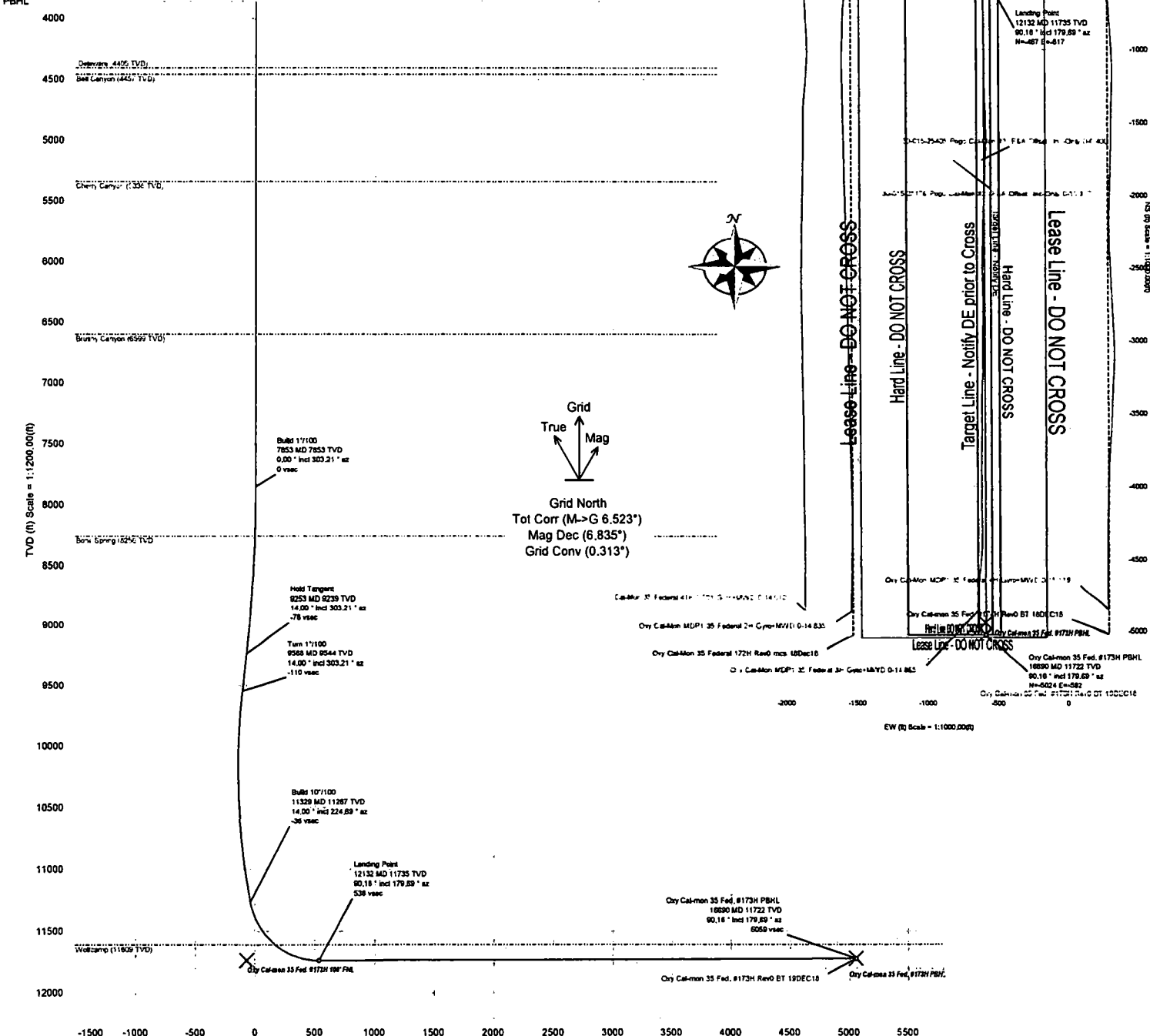
Gravity & Magnetic Parameters

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

Miscellaneous

Model: HDGM 2018 Dip: 58.89° Date: 18-Dec-2018 Lat: N 32 18 3.08 Northing: 461661.19RU5 Grid Conv: 0.3125°
 MagDec: 6.835° FB: 47983.83mT Gravity FB: 928.446mgn (0.80465 Based) Lon: W 103 44 62.81 Easting: 722255.87RU5 Scale Fact: 0.87994858
 Slot: Oxy Cal-mon 35 Federal #173H XY TVD Ref: RKB(4888 above MSL)
 Plan: Oxy Cal-mon 35 Fed. #173H Rev0 BT 18DEC18

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler	736.00	0.00	303.21	736.00	0.00	0.00	0.00	0.00
Salado	1048.00	0.00	303.21	1048.00	0.00	0.00	0.00	0.00
Castle	2820.00	0.00	303.21	2820.00	0.00	0.00	0.00	0.00
Delaware	4405.00	0.00	303.21	4405.00	0.00	0.00	0.00	0.00
Bell Canyon	4457.00	0.00	303.21	4457.00	0.00	0.00	0.00	0.00
Cherry Canyon	5338.00	0.00	303.21	5338.00	0.00	0.00	0.00	0.00
Brushy Canyon	6599.00	0.00	303.21	6599.00	0.00	0.00	0.00	0.00
Build 17100	7852.50	0.00	303.21	7852.50	0.00	0.00	0.00	0.00
Bone Spring	8256.33	4.04	303.21	8256.00	-6.35	7.79	-11.90	1.00
Hold Tangent	8252.95	14.00	303.21	8239.04	-75.97	93.29	-142.48	1.00
Turn 17100	8567.65	14.00	303.21	8544.39	-109.95	135.00	-206.19	0.00
Build 107100	11329.32	14.00	224.69	11267.31	-36.47	100.00	-537.00	1.00
Wellcamp	11740.36	51.68	187.73	11809.00	172.97	-103.91	-598.21	10.00
Landing Point	12132.43	90.18	179.69	11735.00	535.52	-488.56	-616.63	10.00
Oxy Cal-mon 35 Fed. #173H PBHL	18689.73	80.18	179.69	11722.00	5058.53	-5023.78	-591.98	0.00





Oxy Cal-mon 35 Fed. #173H Rev0 BT 19DEC18 Proposal Geodetic Report

(Def Plan)

Report Date:	December 19, 2018 - 04:23 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	OXY	Vertical Section Azimuth:	188.720 ° (Grid North)
Field:	NM Eddy County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Oxy Cal-mon 35 Federal 173H / Oxy Cal-mon 35 Federal #173H XY	TVD Reference Datum:	RKB
Well:	Oxy Cal-mon 35 Fed. #173H XY	TVD Reference Elevation:	3489.000 ft above MSL
Borehole:	Original Borehole	Seabed / Ground Elevation:	3462.500 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	6.835 °
Survey Name:	Oxy Cal-mon 35 Fed. #173H Rev0 BT 19DEC18	Total Gravity Field Strength:	988.4459mgn (9.80685 Based)
Survey Date:	December 19, 2018	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	111.932 ° / 5748.159 ft / 5.981 / 0.490	Total Magnetic Field Strength:	47983.930 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.990 °
Location Lat / Long:	N 32° 16' 3.08180", W 103° 44' 52.80815"	Declination Date:	December 19, 2018
Location Grid N/E Y/X:	N 481551.190 ftUS, E 722255.870 ftUS	Magnetic Declination Model:	HDGM 2018
CRS Grid Convergence Angle:	0.3125 °	North Reference:	Grid North
Grid Scale Factor:	0.99994658	Grid Convergence Used:	0.3125 °
Version / Patch:	2.10.753.0	Total Corr Mag North->Grid North:	6.5225 °
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azlm Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	100.00	0.00	303.21	100.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	200.00	0.00	303.21	200.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	300.00	0.00	303.21	300.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	400.00	0.00	303.21	400.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	500.00	0.00	303.21	500.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	600.00	0.00	303.21	600.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	700.00	0.00	303.21	700.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	800.00	0.00	303.21	800.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	900.00	0.00	303.21	900.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	1000.00	0.00	303.21	1000.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	1100.00	0.00	303.21	1100.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	1200.00	0.00	303.21	1200.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	1300.00	0.00	303.21	1300.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	1400.00	0.00	303.21	1400.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	1500.00	0.00	303.21	1500.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	1600.00	0.00	303.21	1600.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	1700.00	0.00	303.21	1700.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	1800.00	0.00	303.21	1800.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	1900.00	0.00	303.21	1900.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	2000.00	0.00	303.21	2000.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	2100.00	0.00	303.21	2100.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	2200.00	0.00	303.21	2200.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	2300.00	0.00	303.21	2300.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	2400.00	0.00	303.21	2400.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	2500.00	0.00	303.21	2500.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	2600.00	0.00	303.21	2600.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	2700.00	0.00	303.21	2700.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	2800.00	0.00	303.21	2800.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	2900.00	0.00	303.21	2900.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	3000.00	0.00	303.21	3000.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	3100.00	0.00	303.21	3100.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	3200.00	0.00	303.21	3200.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	3300.00	0.00	303.21	3300.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	3400.00	0.00	303.21	3400.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	3500.00	0.00	303.21	3500.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	3600.00	0.00	303.21	3600.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	3700.00	0.00	303.21	3700.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	3800.00	0.00	303.21	3800.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	3900.00	0.00	303.21	3900.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	4000.00	0.00	303.21	4000.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	4100.00	0.00	303.21	4100.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	4200.00	0.00	303.21	4200.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	4300.00	0.00	303.21	4300.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	4400.00	0.00	303.21	4400.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	4500.00	0.00	303.21	4500.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	4600.00	0.00	303.21	4600.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	4700.00	0.00	303.21	4700.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	4800.00	0.00	303.21	4800.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	4900.00	0.00	303.21	4900.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	5000.00	0.00	303.21	5000.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	5100.00	0.00	303.21	5100.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	5200.00	0.00	303.21	5200.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	5300.00	0.00	303.21	5300.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	5400.00	0.00	303.21	5400.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	5500.00	0.00	303.21	5500.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	5600.00	0.00	303.21	5600.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	5700.00	0.00	303.21	5700.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	5800.00	0.00	303.21	5800.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	5900.00	0.00	303.21	5900.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	6000.00	0.00	303.21	6000.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	6100.00	0.00	303.21	6100.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	6200.00	0.00	303.21	6200.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	6300.00	0.00	303.21	6300.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	6400.00	0.00	303.21	6400.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	6500.00	0.00	303.21	6500.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	6600.00	0.00	303.21	6600.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	6700.00	0.00	303.21	6700.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	6800.00	0.00	303.21	6800.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	6900.00	0.00	303.21	6900.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	7000.00	0.00	303.21	7000.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	7100.00	0.00	303.21	7100.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	7200.00	0.00	303.21	7200.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	7300.00	0.00	303.21	7300.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	7400.00	0.00	303.21	7400.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	7500.00	0.00	303.21	7500.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	7600.00	0.00	303.21	7600.00	0.00	0.00	0.00	0.00	481551.19	722255.87	N 32 16 3.08	W 103 44 52.81
	7700.00											

Comments		MD	Incl	Azim Grid	TVD	VSEC	NS	EW	DLS	North	East	Latitude	Longitude
		(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(N 0.000)	(E 0.000)
Build 17100		7600.00	0.00	303.21	7600.00	0.00	0.00	0.00	0.00	461551.18	722555.87	N 32 16 3.08	W 103 44 52 61
		7632.50	0.00	303.21	7632.50	0.00	0.00	0.00	0.00	461551.19	722555.87	N 32 16 3.08	W 103 44 52 61
		7600.00	0.48	303.21	7600.00	-0.09	0.11	-0.16	1.00	461551.30	722555.28	N 32 16 3.08	W 103 44 52 61
		8000.00	1.48	303.21	7999.98	-0.95	1.04	-1.59	1.00	461552.23	722554.28	N 32 16 3.08	W 103 44 52 62
		8100.00	2.48	303.21	8099.92	-2.38	2.93	-4.47	1.00	461554.12	722551.06	N 32 16 3.14	W 103 44 52 66
		8200.00	3.48	303.21	8199.78	-4.70	5.77	-8.81	1.00	461556.96	722474.00	N 32 16 3.14	W 103 44 52 61
		8300.00	4.48	303.21	8299.55	-7.79	8.57	-14.61	1.00	461560.78	722421.26	N 32 16 3.18	W 103 44 52 68
		8400.00	5.48	303.21	8399.17	-11.66	14.32	-21.87	1.00	461565.51	722254.00	N 32 16 3.22	W 103 44 53 08
		8500.00	6.48	303.21	8498.82	-16.30	20.02	-30.58	1.00	461571.21	722225.29	N 32 16 3.28	W 103 44 53 16
		8600.00	7.48	303.21	8597.88	-21.72	26.67	-40.74	1.00	461577.88	722151.14	N 32 16 3.28	W 103 44 53 18
Hold Target		8700.00	8.48	303.21	8698.91	-27.81	34.27	-52.34	1.00	461585.48	722103.53	N 32 16 3.42	W 103 44 53 17
		8800.00	9.48	303.21	8795.69	-34.87	42.82	-65.40	1.00	461594.01	722100.48	N 32 16 3.54	W 103 44 53 17
		8900.00	10.48	303.21	8892.34	-42.80	52.31	-78.88	1.00	461603.49	722105.98	N 32 16 3.60	W 103 44 53 12
		9000.00	11.48	303.21	8989.17	-50.35	62.73	-96.81	1.00	461613.82	722142.70	N 32 16 3.84	W 103 44 54 12
		9100.00	12.48	303.21	9090.17	-60.35	74.10	-131.17	1.00	461625.29	722123.02	N 32 16 3.84	W 103 44 54 14
		9200.00	13.48	303.21	9187.61	-70.38	86.40	-164.48	1.00	461637.58	722113.40	N 32 16 4.07	W 103 44 54 14
		9252.86	14.00	303.21	9234.04	-75.07	93.29	-182.50	1.00	461644.47	722103.87	N 32 16 4.07	W 103 44 54 17
		9300.00	14.00	303.21	9284.70	-81.05	99.52	-192.25	0.00	461650.71	722083.93	N 32 16 4.21	W 103 44 54 01
		9400.00	14.00	303.21	9381.73	-91.65	112.78	-206.18	0.00	461663.96	722063.38	N 32 16 4.34	W 103 44 55 04
		9500.00	14.00	303.21	9478.75	-102.64	126.04	-212.74	0.00	461676.22	722049.69	N 32 16 4.47	W 103 44 55 20
Turn 17100		9567.65	14.00	302.15	9544.39	-109.65	138.20	-212.74	1.00	461686.19	722034.15	N 32 16 4.47	W 103 44 55 27
		9600.00	13.81	302.15	9575.80	-113.35	151.04	-232.87	1.00	461702.22	722003.02	N 32 16 4.69	W 103 44 55 14
		9700.00	13.22	298.68	9673.03	-122.75	161.15	-252.87	1.00	461712.33	721983.17	N 32 16 4.77	W 103 44 55 07
		9800.00	12.69	294.90	9770.48	-130.45	166.54	-272.72	1.00	461720.72	721963.47	N 32 16 4.84	W 103 44 56 20
		9900.00	12.21	290.82	9868.13	-140.78	176.19	-292.41	1.00	461727.37	721943.63	N 32 16 4.89	W 103 44 56 43
		10000.00	11.80	286.43	9965.95	-143.38	181.11	-311.65	1.00	461732.29	721943.63	N 32 16 4.89	W 103 44 56 45
		10100.00	11.48	281.77	10063.89	-144.26	184.30	-331.33	1.00	461735.48	721943.63	N 32 16 4.94	W 103 44 56 48
		10200.00	11.20	278.85	10161.95	-144.26	185.75	-350.54	1.00	461736.63	721943.63	N 32 16 4.94	W 103 44 56 48
		10300.00	11.03	271.75	10260.07	-143.45	185.46	-369.57	1.00	461738.84	721943.63	N 32 16 4.94	W 103 44 56 48
		10400.00	10.94	266.52	10358.24	-140.94	185.46	-389.42	1.00	461739.88	721943.63	N 32 16 4.88	W 103 44 57 12
Build 107100		10500.00	10.64	261.24	10456.43	-138.73	183.44	-407.08	1.00	461740.88	721943.63	N 32 16 4.82	W 103 44 57 12
		10600.00	10.34	256.02	10554.80	-133.20	174.19	-425.55	1.00	461752.37	721930.35	N 32 16 4.78	W 103 44 57 75
		10700.00	11.21	250.81	10652.72	-123.20	161.15	-443.82	1.00	461761.15	721914.01	N 32 16 4.78	W 103 44 58 18
		10800.00	11.47	246.00	10750.77	-113.89	149.87	-461.88	1.00	461769.20	721904.01	N 32 16 4.57	W 103 44 58 38
		10900.00	12.22	238.98	10848.72	-102.88	158.02	-487.36	1.00	461786.52	721776.15	N 32 16 4.57	W 103 44 58 38
		11000.00	12.82	232.89	11044.17	-75.80	134.63	-514.81	1.00	461788.12	721758.51	N 32 16 4.44	W 103 44 58 38
		11100.00	13.23	229.12	11141.62	-59.73	120.81	-537.00	1.00	461811.99	721723.90	N 32 16 4.15	W 103 44 59 05
		11200.00	13.82	225.65	11238.65	-41.98	104.67	-552.00	1.00	461858.15	721718.90	N 32 16 4.15	W 103 44 59 05
		11232.32	14.00	224.69	11282.81	-38.47	100.00	-564.74	1.00	461864.77	721718.90	N 32 16 3.94	W 103 44 59 38
		11400.00	18.56	209.42	11324.68	-18.78	83.59	-584.84	1.00	461874.54	721691.18	N 32 16 3.94	W 103 44 59 38
Landing Point		11500.00	18.56	198.59	11426.58	-20.18	83.59	-594.74	1.00	461874.54	721691.18	N 32 16 3.94	W 103 44 59 38
		11600.00	18.27	192.72	11508.71	-21.54	74.40	-602.06	1.00	461879.73	721683.94	N 32 16 3.74	W 103 44 59 38
		11700.00	18.84	188.94	11582.89	-22.18	66.66	-611.76	1.00	461884.14	721676.71	N 32 16 3.59	W 103 44 59 38
		11800.00	18.84	186.17	11643.55	-22.18	58.12	-620.06	1.00	461894.54	721664.12	N 32 16 3.59	W 103 44 59 38
		11900.00	18.35	183.95	11689.85	-22.18	49.84	-627.36	1.00	461904.94	721654.54	N 32 16 3.59	W 103 44 59 38
		12000.00	18.23	182.03	11724.19	-22.18	41.54	-634.15	1.00	461914.94	721646.12	N 32 16 3.59	W 103 44 59 38
		12100.00	18.67	179.69	11754.81	-22.18	33.24	-641.88	1.00	461924.94	721636.54	N 32 16 3.59	W 103 44 59 38
		12200.00	19.16	176.69	11784.52	-22.18	24.94	-649.11	1.00	461934.94	721626.94	N 32 16 3.59	W 103 44 59 38
		12300.00	19.69	173.69	11814.23	-22.18	16.64	-656.34	1.00	461944.94	721617.34	N 32 16 3.59	W 103 44 59 38
		12400.00	20.16	170.69	11843.94	-22.18	8.34	-663.57	1.00	461954.94	721607.74	N 32 16 3.59	W 103 44 59 38
Oxy Calmon 35 Fed. #173H PBHL		12500.00	20.16	167.69	11873.65	-22.18	0.04	-670.81	1.00	461964.94	721598.14	N 32 16 3.59	W 103 44 59 38
		12600.00	20.16	164.69	11903.36	-22.18	-8.26	-678.04	1.00	461974.94	721588.54	N 32 16 3.59	W 103 44 59 38
		12700.00	20.16	161.69	11933.07	-22.18	-16.56	-685.27	1.00	461984.94	721578.94	N 32 16 3.59	W 103 44 59 38
		12800.00	20.16	158.69	11962.78	-22.18	-24.86	-692.50	1.00	461994.94	721569.34	N 32 16 3.59	W 103 44 59 38
		12900.00	20.16	155.69	11992.49	-22.18	-33.16	-700.00	1.00	462004.94	721559.74	N 32 16 3.59	W 103 44 59 38
		13000.00	20.16	152.69	12022.20	-22.18	-41.46	-707.50	1.00	462014.94	721550.14	N 32 16 3.59	W 103 44 59 38
		13100.00	20.16	149.69	12051.91	-22.18	-49.76	-715.00	1.00	462024.94	721540.54	N 32 16 3.59	W 103 44 59 38
		13200.00	20.16	146.69	12081.62	-22.18	-58.06	-722.50	1.00	462034.94	721530.94	N 32 16 3.59	W 103 44 59 38
		13300.00	20.16	143.69	12111.33	-22.18	-66.36	-730.00	1.00	462044.94	721521.34	N 32 16 3.59	W 103 44 59 38
		13400.00	20.16	140.69	12141.04	-22.18	-74.66	-737.50	1.00	462054.94	721511.74	N 32 16 3.59	W 103 44 59 38
Survey Type: Def Plan		13500.00	20.16	137.69	12170.75	-22.18	-82.96	-745.00	1.00	462064.94	721502.14	N 32 16 3.59	W 103 44 59 38
		13600.00	20.16	134.69	12200.46	-22.18	-91.26	-752.50	1.00	462074.94	721492.54	N 32 16 3.59	W 103 44 59 38
Survey Error Model: ISCWSA Rev 0 ~ 3-D 95 000% Confidence 2.7955 sigma		13700.00	20.16	131.69	12230.17	-22.18	-99.56	-760.00	1.00	462084.94	721482.94	N 32 16 3.59	W 103 44 59 38
		13800.00	20.16	128.69	12259.88	-22.18	-107.86	-767.50	1.00	462094.94	721473.34	N 32 16 3.59	

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (*100ft)	Northing (NUS)	Easting (EUS)	Latitude (N/S °'")	Longitude (E/W °'")
		1	0.000	26.500	1/100.000	30.000	30.000		NAL_MWD_PLUS_0.5_DEG- Depth Only		Original Borehole / Oxy Cal-mon 35 Fed. #173H Rev0 BT 19DEC18	
		1	26.500	16689.731	1/100.000	30.000	30.000		NAL_MWD_PLUS_0.5_DEG		Original Borehole / Oxy Cal-mon 35 Fed. #173H Rev0 BT	