

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.
NMNM137569

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 27. If Unit or CA/Agreement, Name and/or No.
NMNM1375698. Well Name and No.
CEDAR CANYON 23 FEDERAL COM 33H9. API Well No.
30-015-44074-00-S110. Field and Pool or Exploratory Area
PIERCE CROSSING-WOLFCAMP, NW
UNKNOWN11. County or Parish, State
EDDY COUNTY, NM

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
OXY USA INCContact: DAVID STEWART
E-Mail: david_stewart@oxy.com

3a. Address

MIDLAND, TX 79710

3b. Phone No. (include area code)
Ph: 432.685.5717

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

Sec 22 T24S R29E NESE 2344FSL 1199FEL
32.202094 N Lat, 103.967632 W Lon

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Workover Operations
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 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. respectfully requests to pull the frac string on this SL2 style well with the intent of running a larger ESP to improve production.

1. POOH w/ existing gas lift system
2. RIH w/ HEAL portion of system
3. RIH w/ ESP portion of system
4. Place well on production

GC 6-14-18
Accepted for record - NMOC

Chris Walls-BLM verbally approved this proposed work per phone call discussion 5/16/18.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #420938 verified by the BLM Well Information System For OXY USA INC, sent to the Carlsbad Committed to AFMSS for processing by PRISCILLA PEREZ on 05/25/2018 (18PP1806SE)	
Name (Printed/Typed) DAVID STEWART	Title SR REGULATORY ADVISOR
Signature (Electronic Submission)	Date 05/22/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>/s/ Jonathon Shepard</u>	Title <u>PE</u>	Date <u>6/6/18</u>
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.	Office <u>CFO</u>	

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)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

OXY USA Inc. - Current
Cedar Canyon 23 Federal Com 33H
API No. 30-015-44074

14-3/4" hole @ 420'
10-3/4" csg @ 420'
w/ 350sx-TOC-Surf Circ.

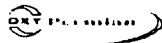
9-7/8" hole @ 9747'
7-5/8" csg @ 9737'
w/ 1370sx-TOC-Surf Circ.

6-3/4" hole @ 17935'
4-1/2" liner @ 9468-17915'
w/ 765sx-TOC- 9468' Circ.

5-1/2" 20# P110 USF Csg @ 0-9468'
Tie Back Frac Strg & Seal Assembly

Perfs @ 17749-10521'

TD- 17935'M 10329'V



Existing Wellbore Diagram CEDAR CANYON 23 FED COM 33H (Wolfcamp XY)

OPERATOR: OXY USA
API NUMBER: 30-015-44074
COUNTY: Eddy
LATITUDE: N 32.2020942°
FIELD: Cedar Canyon
LONGITUDE: W 103.9876325°
MD / TVD: 17,915' MD / 10,329' TVD
Ground Elevation (ft-ASL): 2,949.9'
RKB: 2,974.4' (Rig Floor = 26.5')

10-3/4"; 45.5#; J-55; BTC; casing shoe at 420' (Cement to surface)

SLIDING SLEEVE

X Nipple Profile

	Description	Length	Top	Bottom	ANGLE
	KB	28.5		26.5	
	Tubing hanger	0.5	26.5	27.0	
	2-3/8" tubing L-80 4 7# ft EUE B&P	2000.0	27.0	2027.0	
16	Weatherford SPM Mandrel #9 with 2-3/8" L-80 EUE B x P (R-1 GLV)	6.8	2027.0	2033.8	
	2-3/8" tubing L-80 4 7# ft EUE B&P	600.0	2033.8	2833.8	
15	Weatherford SPM Mandrel #8 with 2-3/8" L-80 EUE B x P (R-1 GLV)	6.8	2833.8	2840.6	
	2-3/8" tubing L-80 4 7# ft EUE B&P	777.1	2840.6	3617.8	
14	Weatherford SPM Mandrel #7 with 2-3/8" L-80 EUE B x P (R-1 GLV)	6.8	3617.8	3624.6	
	2-3/8" tubing L-80 4 7# ft EUE B&P	912.4	3624.6	4437.0	
13	Weatherford SPM Mandrel #6 with 2-3/8" L-80 EUE B x P (R-1 GLV)	6.8	4437.0	4443.8	
	2-3/8" tubing L-80 4 7# ft EUE B&P	812.5	4443.8	5256.3	
12	Weatherford SPM Mandrel #5 with 2-3/8" L-80 EUE B x P (R-1 GLV)	6.8	5256.3	5263.1	
	2-3/8" tubing L-80 4 7# ft EUE B&P	812.9	5263.1	6076.0	
11	Weatherford SPM Mandrel #4 with 2-3/8" L-80 EUE B x P (R-1 GLV)	6.8	6076.0	6082.8	
	2-3/8" tubing L-80 4 7# ft EUE B&P	780.6	6082.8	6863.4	
10	Weatherford SPM Mandrel #3 with 2-3/8" L-80 EUE B x P (R-1 GLV)	6.8	6863.4	6870.2	
	2-3/8" tubing L-80 4 7# ft EUE B&P	817.0	6870.2	7677.2	
9	Weatherford SPM Mandrel #2 with 2-3/8" L-80 EUE B x P (R-1 GLV)	6.8	7677.2	7684.0	
	2-3/8" tubing L-80 4 7# ft EUE B&P	1652.9	7684.0	9336.9	
8	Weatherford SPM #1 with 2-3/8" L-80 EUE B x P (RO-1 ORIFICE)	6.8	9336.9	9343.7	15.5°
	1 ft 2-3/8" tubing L-80 4 7# ft EUE B&P	31.5	9343.7	9375.2	
7	WATSON XO sliding sleeve 1.875" w/2-3/8" EUE B&P	2.9	9375.2	9378.1	15.8°
	1 ft 2-3/8" tubing L-80 4 7# ft EUE B&P	32.5	9378.1	9410.6	
6	Weatherford DOWNHOLE GAUGE CTS with 2-3/8" EUE B&P	0.5	9410.6	9412.1	
	1 ft 2-3/8" tubing L-80 4 7# ft EUE B&P	32.5	9412.1	9444.6	
5	WATSON Model T-2 on/off tool w/ 2-3/8" EUE x 1.875" X profile	1.4	9444.6	9446.0	
4	Watson AS1X packer 5-1/2" x 1.995"	9.0	9446.0	9455.0	15.9°
	Pup. joint 2-3/8" tubing L-80 4 7# ft EUE B&P	6.0	9455.0	9461.0	
3	Watson XN profile No Go 1.875" with 2-3/8" EUE BxP (3.063" OD)	1.0	9461.0	9462.0	15.5°
2	Watson Dual ceramic disc tool (3.063" OD)	0.5	9462.0	9462.5	15.5°
	2-3/8" tubing L-80 4 7# ft EUE B&P	69.0	9462.5	9550.5	
1	Wireline Entry Guide (3.063" OD)	0.5	9550.5	9551.0	

5.5"; 20#; P-110; ULTRA SF; FRAC STRING @ 9,468' MD

KOP -9,784' MD / 9,663' TVD

Marker joint top depths: #1 @ 17,714 ft MD, #2 @ 14,271 ft MD, #3 @ 9,776 ft MD, #4 @ 9,627 ft MD,

Liner Hanger Ext Depth (top) 9,468'
Slick stinger w/ ports (bottom) 9,501'

7-5/8"; 29.7#; HCL-80; BTC; 9,737' (MD)
(Circulated cement to surface)

Perfs 10,521' - 17,749' MD (31 stages)

Alpha Toe Initiator 4.5" (Sleeve) at #1 @ 17,815 ft MD, #2 @ 17,806 ft MD
CBP @ 17,781' (hardline plug)

Run 29 4.5" 13.5# Choice RzfRac composite plugs (stages 2-31) and 1 solid CBP set on hardline & before last stage

4.5" 13.5# P110 DQX liner from 9,517' MD to casing shoe at 17,915' MD / 10,329' TVD
Float collar at 17,871' MD / 10,326' TVD

OXY USA Inc. - Proposed
Cedar Canyon 23 Federal Com 33H
API No. 30-015-44074

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10-3/4" csg @ 420'
w/ 350sx-TOC-Surf Circ.

9-7/8" hole @ 9747'
7-5/8" csg @ 9737'
w/ 1370sx-TOC-Surf Circ.

6-3/4" hole @ 17935'
4-1/2" liner @ 9468-17915'
w/ 765sx-TOC- 9468' Circ.

Perfs @ 10521-17749'

TD- 17935'M 10329'V



HEAL SYSTEMS

PROPOSED HEAL SYSTEM INSTALL
UWI: Cedar Canyon 23-33H
Surface Location: 30-013-44074
Company: OXY

March 28 2018
Revision: 1
Quote # 00111

Program Type

Mid Liner Deep
Shrouded ESP

Well Data
TD (ft KB): 17935
TVD (ft KB): 10326
KOP (ft KB): 85up

Estimated Current Reservoir Pressure 3300 ps.
Estimated Static Fluid Level 2503 ft KB
Reservoir Temperature 150 °F

Formation
Sizemore Bone Spring

Basin
Permian

Tool Joint

Casing
Liner
Production Tubing

Size
in
7.025
4.5
2.378

Weight
lb/ft
20.7
13.5
4.7

Grade
ft KB
L-80
P-110
L-80

Top
ft KB
0
9517
0

Bottom
ft KB
15.8
1781
14.8

ID
in
6.86
3.92
2.00

Drift
in
6.75
3.80
1.90

HEAL System Details

Component Locations

Dog Leg Severity at PSN
(deg/100ft)
3.3
Max DLS above PSN
(deg/100ft)
-

Sized Regulating Spring (SRS)

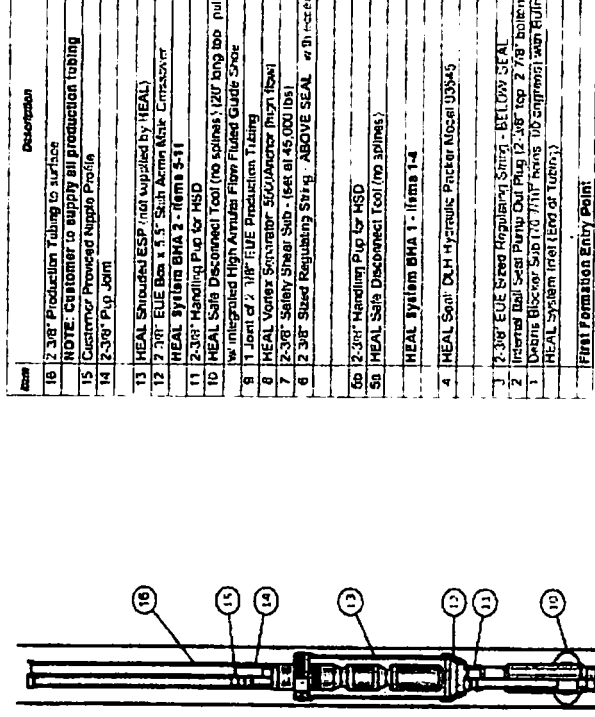
Type
Tubing
ID (in)
1.25
1.875
0.63132
71.700

Material Line
2.378 EUE
1.875
0.63132
71.700

SRS Above Seal (ft) 967.7
SRS Below Seal (ft) 0.0
Total SRS (ft) 967.7
Distance to First
Formation Entry 75.0

HEAL SRS Model DLH Hydraulic Packer Model 93545

*may substitute based on availability



Item	Description	ID (in)	Max OD (in)	Length (ft)	Total (ft)
16	2.378" Production Tubing to surface	2.00	3.08	9273.0	0.0
NOTE: Customer to supply all production tubing					
15	Customer Provided Nipple Profile	1.87	3.08	1.0	3274.0
14	2.378" PIP Joint	2.00	3.08	6.0	8274.0
13	HEAL Shrouded ESP (not supplied by HEAL)	N/A	5.50	50.0	9350.0
12	2.378" EUE Box x 3.5" Sub Arrows Max Encompasser	2.00	5.50	1.0	9350.0
11	HEAL Syllara BHA 2 - Items 5-11	2.00	5.50	1.0	9350.0
10	2.378" Handling Pup for MSD	2.00	3.08	0.0	9371.0
9	Integrated High Annular Flow Fluid Guide Shoe	1.75	3.63	21.0	9371.0
8	1 Joint of 2.378" EUE Production Tubing	2.00	3.08	10.0	9406.0
7	HEAL Vortex Separator 5000 (Anchor Pump Box)	N/A	6.00	16.0	9420.0
6	2.378" Safety Shear Sub (648 at 45,000 lbs)	2.00	3.08	1.1	9421.1
5	2.378" Sized Regulating Spring ABOVE SEAL - 2.378" EUE Box	1.25	2.91	957.7	9478.3
4	2.378" Handling Pup for MSD	2.00	3.08	1.0	10420.0
3	HEAL SRS Disconnect Tool (no splices)	1.75	3.63	4.0	10424.0
HEAL System BHA 1 - Items 1-4					
2	HEAL SRS DLH Hydraulic Packer Model 93545	1.75	3.63	3.3	10430.3
1	2.378" EUE Sized Regulating Spring - BFL (Dry SEAL)	N/A	2.91	0.0	10430.3
0	Internal BFL Seal Pump Out Plug (2.378" top 2.778" bottom)	N/A	3.67	0.7	10431.0
-1	Open End Blocker Sub (10.711 ft long - 10.711 ft long) with BFL	2.44	7.87	10.11	10441.1
-2	HEAL System Inlet (End of tubing)				10451.0
-3	First Formation Entry Point				10521.0