

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAR 08 2018

Carlsbad Field Office
RECEIVED
OCD A10521FORM APPROVED
OMB No. 1004-0137
Expires 09/01/2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other			6. If Indian, Allottee or Tribe Name		
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____			7. Unit or CA Agreement Name and No. NMNM137569		
2. Name of Operator OXY USA INC			8. Lease Name and Well No. CEDAR CANYON 23 FEDERAL COM 33H		
3. Address MIDLAND, TX 79710			9. API Well No. 30-015-44074-00-S1		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 22 T24S R29E Mer NMP At surface NESE 2344FSL 1199FEL 32.202094 N Lat, 103.967632 W Lon Sec 23 T24S R29E Mer NMP At top prod interval reported below NWSW 2256FSL 346FWL 32.201883 N Lat, 103.962656 W Lon Sec 24 T24S R29E Mer NMP At total depth NESW 2299FSL 2460FWL 32.201906 N Lat, 103.938679 W Lon			10. Field and Pool, or Exploratory PIERCE CROSSING-WOLFCAMP, NW UNKNOWN		
14. Date Spudded 04/29/2017			15. Date T.D. Reached 06/14/2017		
16. Date Completed ☐ D & A ☒ Ready to Prod. 08/03/2017			17. Elevations (DF, KB, RT, GL)* 2948 GL		
18. Total Depth: MD 17935 TVD 10329			19. Plug Back T.D.: MD 17864 TVD 10327		
20. Depth Bridge Plug Set: MD TVD			21. Type Electric & Other Mechanical Logs Run (Submit copy of each) MUDLOG		
22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☐ No ☒ Yes (Submit analysis)					

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
14.750	10.750 J55	45.5	0	420		350	83	0	
9.875	7.625 L80	29.7	0	9737	2987	1370	709	0	
6.750	4.500 P110	13.5	9468	17915		765	228	9468	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	10521	17749	10521 TO 17749	0.420	1240	ACTIVE
B)						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
10521 TO 17749	7436310G SLICK WATER + 47880G 15% HCL ACID + 2303994G BXL + 2732436G LINEAR GEL W/ 10586410# SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
08/08/2017	08/27/2017	24	→	1982.0	5497.0	6598.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
64/64	SI	1869.0	→	1982	5497	6598	2773	PROD	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #388854 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

Reclamation Due by Feb 3rd, 2018ACCEPTED FOR RECORD
MAR 5 2018
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
BELL CANYON	3254	3897	OIL, GAS, WATER	RUSTLER	301
CHERRY CANYON	3898	4961	OIL, GAS, WATER	SALADO	919
BRUSHY CANYON	4962	6794	OIL, GAS, WATER	CASTILE	1466
BONE SPRING	6795	7803	OIL, GAS, WATER	DELAWARE	3040
BONE SPRING 1ST	7804	8670	OIL, GAS, WATER	BELL CANYON	3254
BONE SPRING 2ND	8671	9514	OIL, GAS, WATER	CHERRY CANYON	3898
BONE SPRING 3RD	9515	10234	OIL, GAS, WATER	BRUSHY CANYON	4962
WOLFCAMP	10235	10327	OIL, GAS, WATER	BONE SPRING	6795

32. Additional remarks (include plugging procedure):

52. FORMATION (LOG) MARKERS CONTD.

1ST BONE SPRING 7804'M
2ND BONE SPRING 8671'M
3RD BONE SPRING 9515'M
WOLFCAMP 10235'M

Logs were mailed 9/19/17.

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7 Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #388854 Verified by the BLM Well Information System.

For OXY USA INC, sent to the Carlsbad

Committed to AFMSS for processing by DUNCAN WHITLOCK on 11/02/2017 (18DW0007SE)

Name (please print) DAVID STEWART

Title SR REGULATORY ADVISOR

Signature (Electronic Submission)

Date 09/18/2017

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.

** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED **

Additional data for transaction #388854 that would not fit on the form

32. Additional remarks, continued

Log Header, Directional Survey, As-Drilled Amended C-102 plat & WBD are attached.

District I
1623 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) 748-0720
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

NM OIL CONSERVATION
State of New Mexico ARTESIA DISTRICT
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

RECEIVED

☒ AMENDED REPORT
(As-Drilled)

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-44074	Pool Code 78220	Pool Name Purple Sage Wolfcamp
Property Code 317464	Property Name CEDAR CANYON "23" FEDERAL COM	
OGRID No. 16696	Operator Name OXY USA INC.	
		Well Number 33H
		Elevation 2947.9'

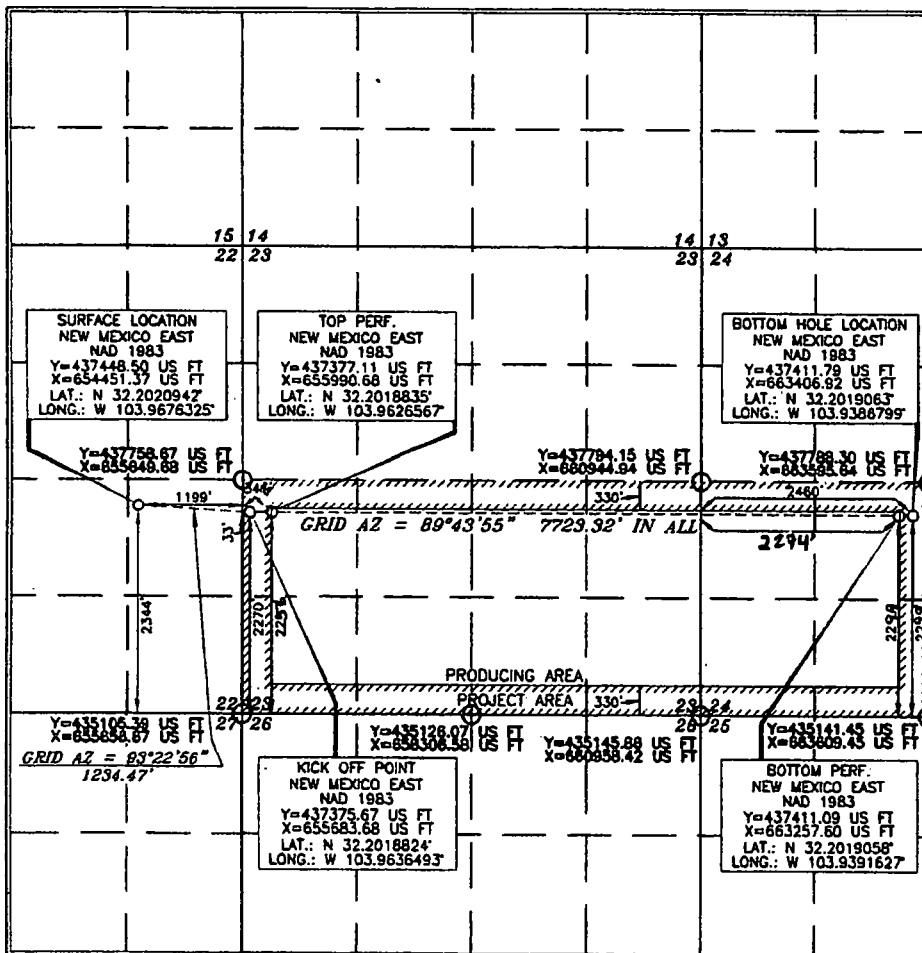
Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	22	24 SOUTH	29 EAST, N.M.P.M.		2344'	SOUTH	1199'	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
K	24	24 SOUTH	29 EAST, N.M.P.M.		2299'	SOUTH	2460'	WEST	EDDY
Dedicated Acres 480		Joint or Infill Y	Consolidation Code	Order No. NSP-2063	TD - 2299' FSL 2460 FWL BP - 2299' FSL 2274 FWL TP - 2256' FSL 346 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 unless mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *[Signature]* Date: **7/24/17**
Printed Name: **Jana Mendiola**
E-mail Address: **jana@oxy.com**

SURVEYOR CERTIFICATION

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

Date of Survey: **FEBRUARY 23, 2016**
Signature and Seal: *[Signature]*
Professional Surveyor: **15079**
Certificate Number: **15079**

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

September 13, 2017

OXY USA, Inc.

Re:

22, 24S, 29E, Eddy New Mexico
-32.20209 -103.96763

CLIENT: OXY USA, Inc.
WELL: Cedar Canyon 23 Federal Com 33H
FIELD: Pierce Crossing (Wolfcamp)

RIG: H&P 617
COUNTY: Eddy
API NO: 30-015-44074
JOB NO: 17MLD1270

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>
Nicholas Araujo FE	Cedar Canyon 23 Federal Com 33H Original Hole	609.00 Ft to 9784.00 Ft	May 29, 2017 to June 5, 2017	TelePacer

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Azamat Akkuzhin
Field Service Manager

Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

Well Reference:
22, 24S, 29E, Eddy New Mexico
-32.20209 -103.96763

I, Nicholas Araujo certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of May 29, 2017 through June 05, 2017, conduct or supervise the taking of the TelePacer surveys from a depth of 609.00 feet to a depth of 9784.00 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, Inc. for the Cedar Canyon 23 Federal Com 33H Well (Original Hole) API No. 30-015-44074 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 *Nicholas Araujo*
Nicholas Araujo
FE

Subscribed and Sworn to before me this 13th day of September (month) 2017 (yr)

My Commission expires:

12-20-2020

J. Allemand
Notary Public

Adams County Colorado
(County State)

(signature) JENNIFER ALLEMAND
Notary Public
State of Colorado
Notary ID # 20164047962
My Commission Expires 12-20-2020

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

June 22, 2017

OXY USA INC
5 Greenway Plaza, Suite 110
Houston, TX 77046

Re:

22, 24S, 29E, Eddy NM
N 32.20209 W -103.96763

CLIENT: OXY USA INC
WELL: Cedar Canyon 23 Federal Com 33H
FIELD: Pierce Crossing (Wolfcamp)

RIG: HP 617
COUNTY: Eddy
API NO: 30-015-44074
JOB NO: 17MLD1720

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>
Chris Heimann FE	Cedar Canyon 23 Federal Com 33H Original Hole	9784.00 Ft to 17892.00 Ft	June 6, 2017 to June 14, 2017	SlimPulse

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Les Foster
Field Service Manager

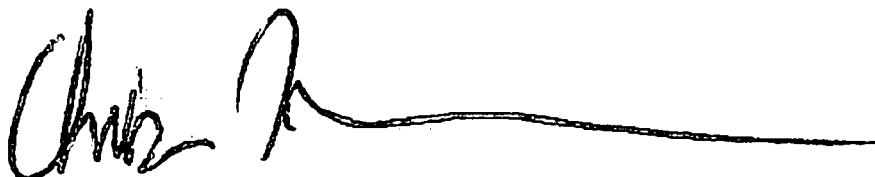
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

Well Reference:
22, 24S, 29E, Eddy NM
N 32.20209 W -103.96763

I, Chris Heimann certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of June 06, 2017 through June 14, 2017. conduct or supervise the taking of the SlimPulse surveys from a depth of 9784.00 feet to a depth of 17892.00 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 INC for the Cedar Canyon 23 Federal Com 33H Well (Original Hole) API No. 30-015-44074 in New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedurcs as set forth by Drilling & Measurements. a division of Schlumberger Technology Corporation.

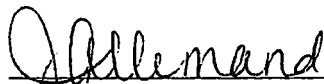
By
Chris Heimann
FE



Subscribed and Sworn to before me this 22nd day of June (month) 2017 (yr)

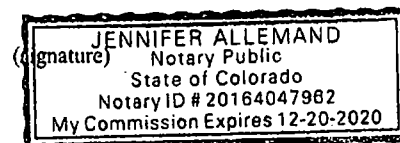
My Commission expires:

12 20 2020



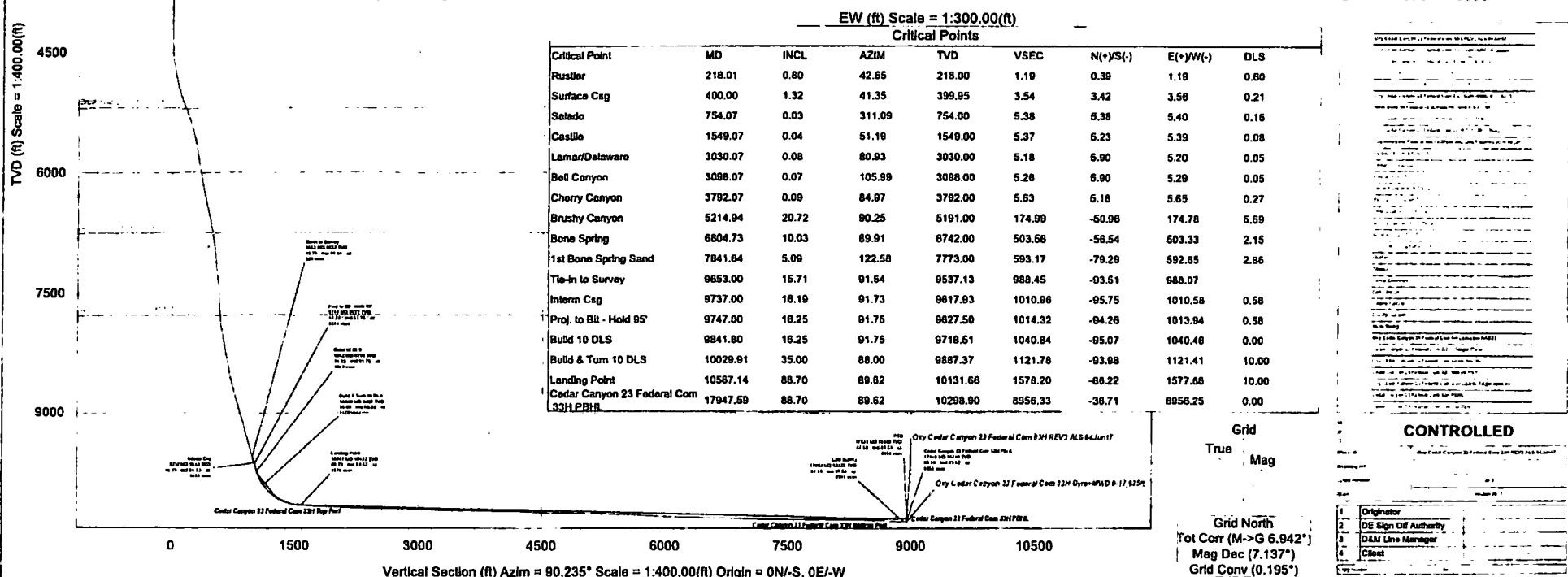
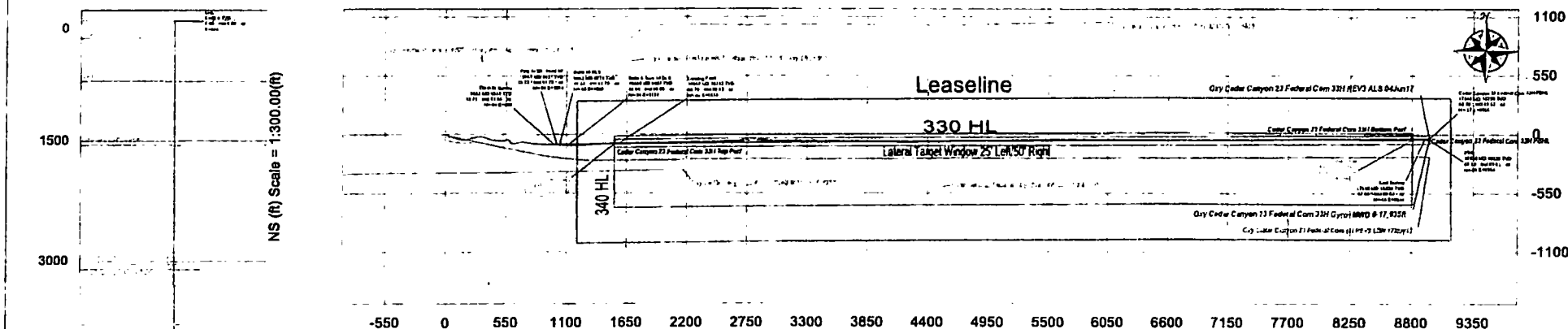
Notary Public

Adams Co Colorado
(County State)





Borehole:				Well:				Field:				Structure:			
Original Borehole				Oxy Cedar Canyon 23 Federal Com 33H				NM Eddy County (NAD 83)				Oxy Cedar Canyon 23 Federal Com 33H			
Geology & Magnetics Parameters				Further Location				Notes/Status				TVD Ref:			
Model:	MODM 2017	Qty:	66.01Y	Date:	04-Jun-2017	Lat:	N 32 13 7.54	Northings:	437448.5013	Grid Conv:	0.1949°	Plan:	Oxy Cedar Canyon 23 Federal Com 33H	RWD=29.323744N above BSL)	
MagDec:	7.137°	PR:	48116.812mT	Gravity PR:	9.792m/s ²	Lon:	W 103 58 3.48	Easting:	654451.37518	Scale Pct:	0.9992324	Plan:	Oxy Cedar Canyon 23 Federal Com 33H REV3 ALS 04Jun17		



CONTROLLED

Grid
True
MagGrid North
Tot Corr (M->G 6.942°)
Mag Dec (7.137°)
Grid Conv (0.195°)

1	Originator
2	DE Sign Off Authority
3	D&M Line Manager
4	Client

Oxy Cedar Canyon 23 Federal Com 33H Gyro+MWD 0-17,935ft Survey



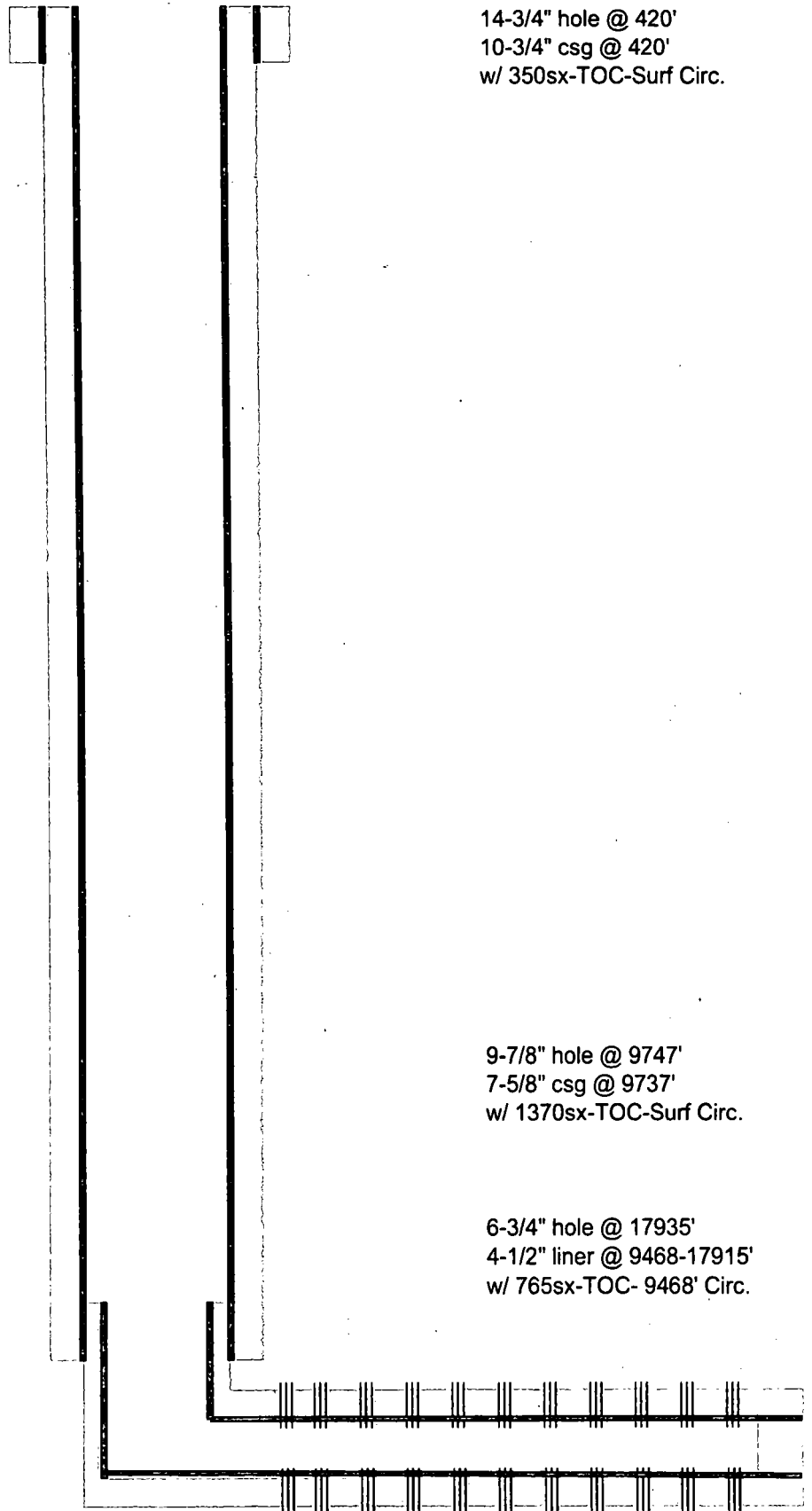
(Def Survey)

[illegible]

[illegible]

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ° '")	Longitude (E/W ° ° '")
		1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only			Original Borehole / Oxy Cedar Canyon 23 Federal Com 33H Gyro+MWD 0-17.935ft	
		1	26.500	421.700	Act Stns	30.000	30.000	NAL_NSG+MSHOT			Original Borehole / Oxy Cedar Canyon 23 Federal Com 33H	
		1	421.700	17935.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG			Original Borehole / Oxy Cedar Canyon 23 Federal Com 33H	

OXY USA Inc.
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.

Perfs @ 17749-10521'

TD- 17935'M 10329'V

COLUMBINE LOGGING

Scale: 5" / 100'
Measured Depth Log

Well Name 30015440740000_Ceder Canyon23 Federal Com33H_ML_5in Horz_R

Location 2344' FSL x 1199' FEL. Sec 22, T24-S, R-29E

State New Mexico

County Eddy

Country USA

Rig Number H & P 617

API Number 30015440740000

AFE # 1197179

Spud Date 5/22/2017

Field Cedar Canyon

Surface Coordinates N 32.2019712°
W103.9671449°

Hole Coordinates N32.2017831°
W103.9381931°

Ground Elevation 2,948'

K.B. Elevation 2,974'

Logged Interval 9750 To 17,935

Total Depth 17935'

Formation Wolfcamp Y Sand

Type of Drilling Fluid OBM