

DATE IN 9/26/16	SUSPENSE	ENGINEER LEL	LOGGED IN 9/26/16	TYPE NSL	APP NO PKSC1627055601
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication

☒ NSL ☐ NSP ☐ SD

Oxy USA Inc (16696)

Cedar Canyon 27-28 Federal #5H

30-015-43252 Pierce Crossing; Bone

Spring, East (96473)

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

[A] ☒ Working, Royalty or Overriding Royalty-Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☒ Notification and/or Concurrent Approval by BLM or SLO
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

David Stewart

Print or Type Name

Signature

SE. Regulatory Advisor

Title

9/23/16

Date

david_stewart@oxy.com

e-mail Address

Oxy USA Inc.

Cedar Canyon 28-27 Federal Com. #5H



OXY USA Inc.

PO Box 50250
Midland, TX 79710-0250

September 23, 2016

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

Attention: Leonard Lowe

Re: *Application for Administrative Approval of Non-Standard Location –
Cedar Canyon 28-27 Federal Com. #5H - Pierce Crossing Bone Spring, East
Surface – 1990 FNL 180 FEL Ut H Sec 29 T24S R29E
Top Perforation – 2579 FSL 340 FWL Ut L Sec 28 T24S R29E
Bottom Perforation – 2579 FSL 340 FEL Ut I Sec 27 T24S R29E
Bottom Hole – 2580 FSL 160 FEL Ut I Sec 27 T24S R29E
Eddy County, New Mexico*

Dear Mr. Lowe:

OXY USA Inc. respectfully requests administrative approval of a non-standard location on the Cedar Canyon 28-27 Federal Com. #5H well, API Number 30-015-43645 Property Code 304790. The #5H well is proposed to be completed in the Pierce Crossing Bone Spring, East, Pool Code 96473. This will be a horizontal well in a pool with no special rules for setback, so the setback requirements under Rule 19.15.15.9 (A) and 19.15.16.15 (B) would apply. The proposed producing interval is outside of the proposed Producing Area but within the proposed Project Area and will be drilled as follows:

Surface – 1990 FNL 180 FEL Ut H Sec 29 T24S R29E
Top Perforation – 2579 FSL 340 FWL Ut L Sec 28 T24S R29E
Bottom Perforation – 2579 FSL 340 FEL Ut I Sec 27 T24S R29E
Bottom Hole – 2580 FNL 160 FEL Ut I Sec 27 T24S R29E

The adjoining spacing units are located in Section 26 – Units E, L, M; Section 27 - Units E, F, G, H, I, J, K, L, M, N, O, P; Section 28 – Units E, F, G, H, I, J, K, L, M, N, O, P; Section 29 – Units H, I, P.

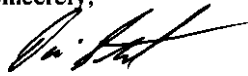
Approval of the unorthodox producing interval will allow for efficient spacing of horizontal wells and thereby prevent waste.

To support this request, the following information has been submitted for your review:

1. Application for Permit to Drill and Sundry Notice amending drilling plan.
2. Amended C-102 Plat for the proposed well and additional plats with offsetting well and affected spacing units.
3. List of affected offset parties that adjoin the non-standard well, copies of the signed certified receipts will be furnished upon request.
4. Proposed Directional Survey

If you need any additional information, you can contact Jeremy Murphrey, CPL at 713-350-4816 or myself at 432-685-5717.

Sincerely,


David Stewart
Sr. Regulatory Advisor
OXY USA Inc.

Attachments

CC: NMOCD-Artesia, BLM-Carlsbad, Service List



OXY USA Inc.

PO Box 50250
Midland, TX 79710-0250

September 23, 2016

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Re: ***Application for Administrative Approval of Non-Standard Location –
Cedar Canyon 28-27 Federal Com. #5H - Pierce Crossing Bone Spring, East
Surface – 1990 FNL 180 FEL Ut H Sec 29 T24S R29E
Top Perforation – 2579 FSL 340 FWL Ut L Sec 28 T24S R29E
Bottom Perforation – 2579 FSL 340 FEL Ut I Sec 27 T24S R29E
Bottom Hole – 2580 FSL 160 FEL Ut I Sec 27 T24S R29E
Eddy County, New Mexico***

Ladies and Gentlemen:

Enclosed is a copy of an application, filed with the New Mexico Oil Conservation Division by OXY USA Inc., requesting administrative approval for a non-standard location. As an affected party, notice is being provided to you pursuant to Rule 19.15.15.9 (A) and 19.15.16.15 (B). The well is located as follows:

Surface – 1990 FNL 180 FEL Ut H Sec 29 T24S R29E
Top Perforation – 2579 FSL 340 FWL Ut L Sec 28 T24S R29E
Bottom Perforation – 2579 FSL 340 FEL Ut I Sec 27 T24S R29E
Bottom Hole – 2580 FNL 160 FEL Ut I Sec 27 T24S R29E

↳

If you object to the well's location, you must notify the Division in writing no later than 20 days from the date the application is received by the NMOCD (1220 South St. Francis Drive, Santa Fe, NM 87505; Attention: Leonard Lowe).

If you need any additional information, you can contact Jeremy Murphrey, CPL at 713-350-4816 or myself at 432-685-5717.

Sincerely,

David Stewart
Sr. Regulatory Advisor
OXY USA Inc.

Attachments

NM OIL CONSERVATION
ARTESIAN DISTRICT
CARLSBAD

ATS 10-535

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

FEB 08 2016

RECEIVED

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM94651
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☒ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator OXY USA Inc.		8. Lease Name and Well No. Cedar Canyon 28 Federal #5H
3a. Address P.O. Box 50250 Midland, TX 79710		9. API Well No. 30-015- 43645
3b. Phone No. (include area code) 432-685-5717		10. Field and Pool, or Exploratory Pierce Crossing Bone Springs, East
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 1990 FNL180 FEL SENE Sec 29 T24S R29E At proposed prod. zone 2219 FNL 160 FEL SENE Sec 28 T24S R29E		11. Sec., T. R. M. or Blk. and Survey or Area Sec 22 T24S R29E
14. Distance in miles and direction from nearest town or post office* 6 miles northeast from Loving, NM		12. County or Parish Eddy
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 650		13. State NM
16. No of acres in lease 1400		17. Spacing Unit dedicated to this well 160
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30		20. BLM/BIA Bond No. in file ESB00226
19. Proposed Depth 13481'M 8745'V		21. Elevations (Show whether DF, KDB, RT, GL, etc.) 2948' GL
22. Approximate date work will start* 01/20/2016		23. Estimated duration 35

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

25. Signature 	Name (Printed/Typed) David Stewart	Date 12/15/2015
Title Sr. Regulatory Advisor david_stewart@oxy.com		
Approved by (Signature) Steve Caffey	Name (Printed/Typed)	Date FEB - 1 2016
Title Sr. Regulatory Advisor FIELD MANAGER		
Office CARLSBAD FIELD OFFICE		

Application approval 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.
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

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.

Carlsbad Controlled Water Basin

RDJ
2/19/16

Approval Subject to General Requirements
& Special Stipulations Attached

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

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 reverse side.

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM94651
2. Name of Operator OXY USA INC. Contact: DAVID STEWART E-Mail: david_stewart@oxy.com		6. If Indian, Allottee or Tribe Name
3a. Address P.O. BOX 50250 MIDLAND, TX 79710	3b. Phone No. (include area code) Ph: 432-685-5717	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 29 T24S R29E SENE 1990FNL 180FEL 32.190207 N Lat, 103.998657 W Lon		8. Well Name and No. CEDAR CANYON 28 FEDERAL 5H
		9. API Well No. 30-015-43645
		10. Field and Pool, or Exploratory PIERCE CROSSING BN SPRG E
		11. County or Parish, and State EDDY COUNTY, NM

12. CHECK 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	☐ Fracture Treat	☐ 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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall 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 approval for the following changes to the approved APD:

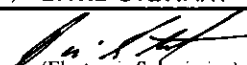
1. Change the well name and number

New Cedar Canyon 28-27 Federal Com. #5H
Old - Cedar Canyon 28 Federal #5H

2. Amend the proposed TD.

New TD - 18855'M 8820'V

3. Amend the horizontal lateral, this proposed horizontal lateral will be outside the Producing Area and an NSL application will be filed. The Cedar Canyon 28 Federal #9H was first proposed as a NSL location in the S/2 of the N/2 of Sec 28. The BLM would only approve a proposed lateral in the

14. I hereby certify that the foregoing is true and correct. Electronic Submission #352321 verified by the BLM Well Information System For OXY USA INC., sent to the Carlsbad	
Name (Printed/Typed) DAVID STEWART	Title SR. REGULATORY ADVISOR
Signature  (Electronic Submission)	Date 09/23/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date _____
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 _____

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.

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

Additional data for EC transaction #352321 that would not fit on the form

32. Additional remarks, continued

N/2 of the S/2 and agreed to a two mile lateral including Sec 27.

The surface location will remain the same at 1990 FNL 180 FEL SENE Sec 29

New KOP - 2580 FSL 50 FWL NWSW Sec 28

New Top Perf - 2579 FSL 340 FWL NWSW Sec 28

New Bottom Perf - 2579 FSL 340 FEL NESE Sec 27

New BHL - 2580 FSL 160 FEL NESE Sec 27

4. Amend casing/cementing program - Amend hole size, casing size, setting depth and cement, see attached.

5. Amend BOP Program, see attached.

6. Amend the Mud Program, see attached.

7. Amend the Logging Procedure, start mudlogging from the intermediate casing shoe to TD.

District I
 1835 N. French Dr., Suite, NM 87501
 Phone: (505) 253-4141 Fax: (505) 253-6720
 District II
 111 S. First St., Suite, NM 87501
 Phone: (505) 748-1281 Fax: (505) 748-0720
 District III
 1000 Rio Bonito Road, Suite, NM 87410
 Phone: (505) 334-6170 Fax: (505) 334-6170
 District IV
 1250 E. St. Francis Dr., Suite, NM 87501
 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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-43645	Pool Code 96473	Pool Name Pierce Crossing Bone Springs, East
Property Code 364790	Property Name CEDAR CANYON "28-27" FEDERAL COM	Well Number 5H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 2948.0'

Surface Location

UL or lot no.	Section	Township	Range	Lot	Feet from the	North/South line	Feet from the	East/West line	County
H	29	24 SOUTH	29 EAST, N.M.P.M.		1990'	NORTH	180'	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot	Feet from the	North/South line	Feet from the	East/West line	County
I	27	24 SOUTH	29 EAST, N.M.P.M.		2580'	SOUTH	160'	EAST	EDDY
Dedicated Acres 320	Joint or Infill Y	Consolidation Code	Order No.						

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 undivided 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 an interest or working interest, or to a voluntary pooling agreement or a compulsory pooling order, hereby approved by the division.

[Signature]
 Date: **9/22/16**
 David Stewart Sr. Reg. Adv.
 Email Address: **david.stewart@oxy.com**

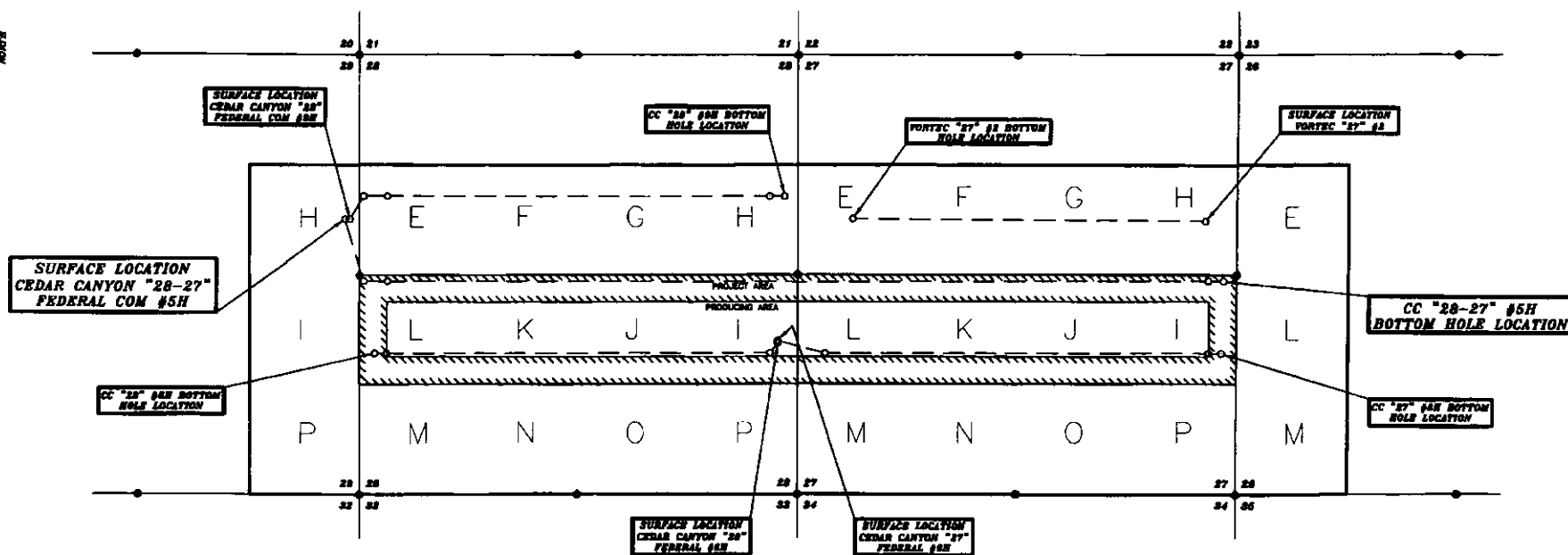
SURVEYOR CERTIFICATION

I hereby certify that the survey shown on this plat was done in accordance with the laws and regulations made by the state of New Mexico, and that the same is true and correct to the best of my belief.

[Signature]
 Date of Survey: **MAY 29, 2016**
 Signature and Seal of Professional Land Surveyor
15079
 Certified plat

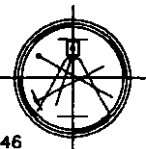
OXY USA INC.

CEDAR CANYON "28-27" FEDERAL COM #5H
SECTIONS 26, 27, 28 & 29, TOWNSHIP 24 SOUTH,
RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO



Asel Surveying

P.O. BOX 393 - 310 W. TAYLOR
HOBBS, NEW MEXICO - 575-393-9146



2000' 0 2000' 4000' FEET
SCALE: 1"=2000'

WO# 160831NSL

Application Non-Standard Location - Service List
OXY USA Inc
Cedar Canyon 28-27 Federal Com. #5H

New Mexico Oil Conservation Division
811 S. First St.
Artesia, NM 88210
7013-1710-0001-7912-6396

New Mexico Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505
7013-1710-0001-7912-6402

United States Dept of Interior
Bureau of Land Management
620 E. Greene Street
Carlsbad, NM 88220
7013-1710-0001-7912-6419

Section 26 - Unit E, L, M

Linn Operating Inc.
600 Travis, Suite 5100
Houston, TX 77002
7013-1710-0001-7912-6426

Section 27 - Unit E, F, G, I, J, K, L, M, N, O, P

OXY USA Inc.
P.O. Box 50250
Midland, TX 79710

Section 27 - Unit H

OXY USA Inc.
P.O. Box 50250
Midland, TX 79710

Micaella Gaines Klapuch
P.O. Box 227
Wimberley, TX 78676
7013-1710-0001-7912-6471

Raymond H. McDonald, Jr. & Margaret McDonald
1379 County Road 3566
Dike, TX 75437
7013-1710-0001-7912-6525

Twin Oaks Petroleum, LLC
313 Sunset Dr.
Columbus, GA 31907
7013-1710-0001-7912-6433

Robert E. Gaines Jr.
P. O. Box 105
Waring, TX 78074
7013-1710-0001-7912-6488

Glen E. McDonald & Barbara McDonald
P. O. Box 367
Loving, New Mexico 88256
7013-1710-0001-7912-6532

Jane Alice Herrstrom
810 Forest Oaks Circle
Woodway, TX 76712
7013-1710-0001-7912-6440

Rebecca Gaines Hooks
P.O. Box 111
Waring, TX 78074
7013-1710-0001-7912-6495

Robert Patton & Brenda K. Patton
1007 Hidalgo Rd.
Carlsbad, New Mexico 88220
7013-1710-0001-7912-6549

George Scott Cranford
2009 Hubbard Court
Villa Rica, GA 30180
7013-1710-0001-7912-6457

Mary Martha Gaines England
P.O. Box 541661
Grand Prairie, TX 75054
7013-1710-0001-7912-6501

David H. McDonald & Vicki McDonald
P.O. Box 308
Loving New Mexico 88256
7013-1710-0001-7912-6556

Britt P & Cydney Medford
2111 Paisano Road
Austin, TX 78746
7013-1710-0001-7912-6464

Jack Scott McDonald & Sandra McDonald
1110 College Ave
Snyder, TX 79549
7013-1710-0001-7912-6518

Section 28 - Unit E, F, G, H, I, J, K, L, M, N, O, P

OXY USA Inc
P.O. Box 50250
Midland, TX 79710

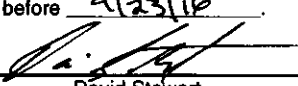
Section 29 - Units H

OXY USA Inc
P.O. Box 50250
Midland, TX 79710

Section 29 - Units I, P

XTO Energy Inc.
810 Houston St.
Fort Worth, TX 76102
7013-1710-0001-7912-6563

Copies of this application were mailed to the following individuals, companies and organizations
on or before 9/23/10

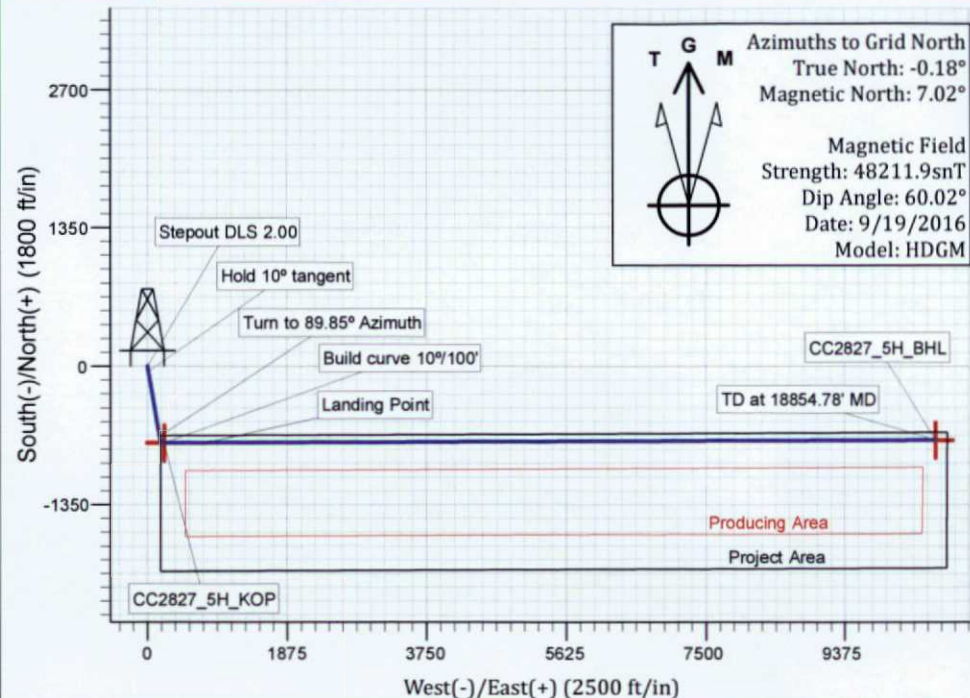
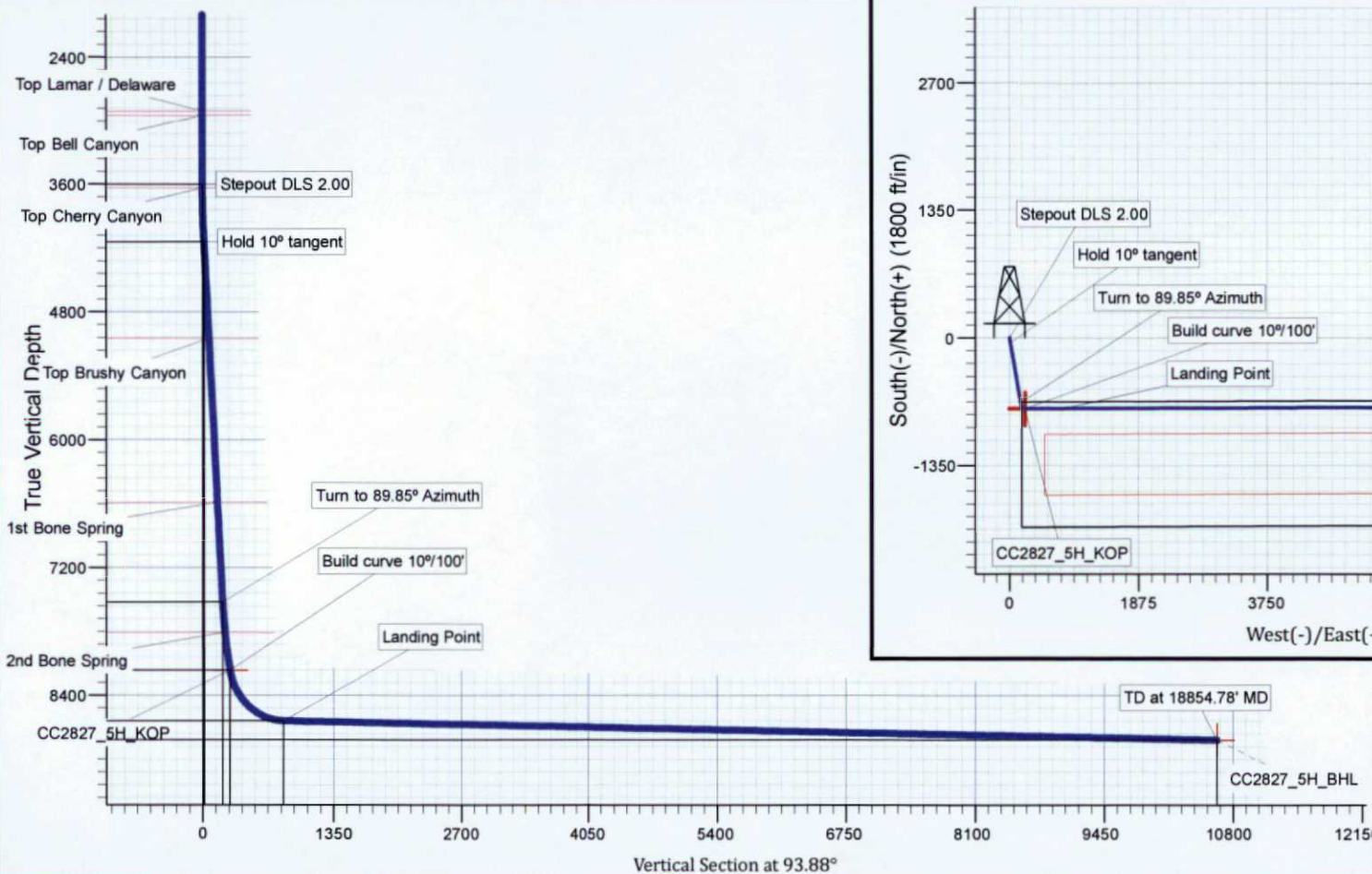

David Stewart
OXY USA Inc.



Project: NM DIRECTIONAL PLANS (NAD 1983)
 Site: Cedar Canyon 28-27 Fed Com
 Well: Cedar Canyon 28-27 Federal Com 5H
 Wellbore: WB00
 Design: Permitting Plan

WELL DETAILS: Cedar Canyon 28-27 Federal Com 5H

Ground Level: 2948.00 WELL @ 2974.50ft (Original Well Elev)
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 433092.83 644868.56 32° 11' 24.744621 N 103° 59' 55.166622 W



Azimuths to Grid North
 True North: -0.18°
 Magnetic North: 7.02°
 Magnetic Field
 Strength: 48211.9snT
 Dip Angle: 60.02°
 Date: 9/19/2016
 Model: HDGM

PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level

ANNOTATIONS

MD	TVD	Inc	Azi	+N/-S	+E/-W	VSect	Departure	Annotation
3600.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	Stepout DLS 2.00
4146.58	4143.27	10.93	166.81	-50.61	11.86	15.26	51.98	Hold 10° tangent
7590.84	7525.03	10.93	166.81	-686.54	160.92	206.96	705.14	Turn to 89.85° Azimuth
8240.89	8167.00	10.00	89.85	-746.65	231.73	281.67	807.30	Build curve 10°/100'
9030.43	8640.37	88.95	89.85	-745.16	785.52	834.10	1361.10	Landing Point
18854.78	8820.00	88.95	89.85	-718.77	10608.20	10632.52	11183.81	TD at 18854.78' MD

Oxy Planning Report

Database: HOPSPP
Company: OXY
Project: NM DIRECTIONAL PLANS (NAD 1983)
Site: Cedar Canyon 28-27 Fed Com
Well: Cedar Canyon 28-27 Federal Com 5H
Wellbore: WBOO
Design: Permitting Plan

Local Co-ordinate Reference: Site Cedar Canyon 28-27 Fed Com
TVD Reference: WELL @ 2974.50ft (Original Well Elev)
MD Reference: WELL @ 2974.50ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
329.17	0.00	0.00	329.17	0.00	0.00	0.00	0.00	0.00	0.00
Top Rustler									
773.78	0.00	0.00	773.78	0.00	0.00	0.00	0.00	0.00	0.00
Top Salado (salt)									
1,364.66	0.00	0.00	1,364.66	0.00	0.00	0.00	0.00	0.00	0.00
Top Castile (anhydrite)									
2,905.40	0.00	0.00	2,905.40	0.00	0.00	0.00	0.00	0.00	0.00
Top Lamar / Delaware									
2,947.19	0.00	0.00	2,947.19	0.00	0.00	0.00	0.00	0.00	0.00
Top Bell Canyon									
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
Stepout DLS 2.00									
3,637.21	0.74	166.81	3,637.21	-0.24	0.06	0.07	2.00	2.00	0.00
Top Cherry Canyon									
3,700.00	2.00	166.81	3,699.98	-1.70	0.40	0.51	2.00	2.00	0.00
3,800.00	4.00	166.81	3,799.84	-6.79	1.59	2.05	2.00	2.00	0.00
3,900.00	6.00	166.81	3,899.45	-15.28	3.58	4.61	2.00	2.00	0.00
4,000.00	8.00	166.81	3,998.70	-27.14	6.36	8.18	2.00	2.00	0.00
4,100.00	10.00	166.81	4,097.47	-42.37	9.93	12.77	2.00	2.00	0.00
4,146.58	10.93	166.81	4,143.27	-50.61	11.86	15.26	2.00	2.00	0.00
Hold 10° tangent									
4,200.00	10.93	166.81	4,195.72	-60.48	14.18	18.23	0.00	0.00	0.00
4,300.00	10.93	166.81	4,293.91	-78.94	18.50	23.80	0.00	0.00	0.00
4,400.00	10.93	166.81	4,392.09	-97.40	22.83	29.36	0.00	0.00	0.00
4,500.00	10.93	166.81	4,490.28	-115.86	27.16	34.93	0.00	0.00	0.00
4,600.00	10.93	166.81	4,588.46	-134.33	31.49	40.49	0.00	0.00	0.00
4,700.00	10.93	166.81	4,686.65	-152.79	35.81	46.06	0.00	0.00	0.00
4,800.00	10.93	166.81	4,784.83	-171.25	40.14	51.63	0.00	0.00	0.00
4,900.00	10.93	166.81	4,883.02	-189.72	44.47	57.19	0.00	0.00	0.00
5,000.00	10.93	166.81	4,981.20	-208.18	48.80	62.76	0.00	0.00	0.00
5,067.89	10.93	166.81	5,047.86	-220.72	51.73	66.54	0.00	0.00	0.00
Top Brushy Canyon									
5,100.00	10.93	166.81	5,079.39	-226.64	53.12	68.32	0.00	0.00	0.00
5,200.00	10.93	166.81	5,177.58	-245.11	57.45	73.89	0.00	0.00	0.00
5,300.00	10.93	166.81	5,275.76	-263.57	61.78	79.46	0.00	0.00	0.00
5,400.00	10.93	166.81	5,373.95	-282.03	66.11	85.02	0.00	0.00	0.00
5,500.00	10.93	166.81	5,472.13	-300.50	70.44	90.59	0.00	0.00	0.00
5,600.00	10.93	166.81	5,570.32	-318.96	74.76	96.15	0.00	0.00	0.00
5,700.00	10.93	166.81	5,668.50	-337.42	79.09	101.72	0.00	0.00	0.00
5,800.00	10.93	166.81	5,766.69	-355.89	83.42	107.29	0.00	0.00	0.00
5,900.00	10.93	166.81	5,864.87	-374.35	87.75	112.85	0.00	0.00	0.00
6,000.00	10.93	166.81	5,963.06	-392.81	92.07	118.42	0.00	0.00	0.00
6,100.00	10.93	166.81	6,061.24	-411.28	96.40	123.98	0.00	0.00	0.00
6,200.00	10.93	166.81	6,159.43	-429.74	100.73	129.55	0.00	0.00	0.00
6,300.00	10.93	166.81	6,257.61	-448.20	105.06	135.12	0.00	0.00	0.00
6,400.00	10.93	166.81	6,355.80	-466.67	109.38	140.68	0.00	0.00	0.00
6,500.00	10.93	166.81	6,453.99	-485.13	113.71	146.25	0.00	0.00	0.00
6,600.00	10.93	166.81	6,552.17	-503.59	118.04	151.81	0.00	0.00	0.00
6,636.10	10.93	166.81	6,587.62	-510.26	119.60	153.82	0.00	0.00	0.00
1st Bone Spring									
6,700.00	10.93	166.81	6,650.36	-522.06	122.37	157.38	0.00	0.00	0.00
6,800.00	10.93	166.81	6,748.54	-540.52	126.70	162.95	0.00	0.00	0.00

Oxy Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Site Cedar Canyon 28-27 Fed Com
Company:	OXY	TVD Reference:	WELL @ 2974.50ft (Original Well Elev)
Project:	NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	WELL @ 2974.50ft (Original Well Elev)
Site:	Cedar Canyon 28-27 Fed Com	North Reference:	Grid
Well:	Cedar Canyon 28-27 Federal Com 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB00		
Design:	Permitting Plan		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,900.00	10.93	166.81	6,846.73	-558.98	131.02	168.51	0.00	0.00	0.00
7,000.00	10.93	166.81	6,944.91	-577.45	135.35	174.08	0.00	0.00	0.00
7,100.00	10.93	166.81	7,043.10	-595.91	139.68	179.64	0.00	0.00	0.00
7,200.00	10.93	166.81	7,141.28	-614.37	144.01	185.21	0.00	0.00	0.00
7,300.00	10.93	166.81	7,239.47	-632.84	148.33	190.78	0.00	0.00	0.00
7,400.00	10.93	166.81	7,337.65	-651.30	152.66	196.34	0.00	0.00	0.00
7,500.00	10.93	166.81	7,435.84	-669.76	156.99	201.91	0.00	0.00	0.00
7,590.84	10.93	166.81	7,525.03	-686.54	160.92	206.96	0.00	0.00	0.00
Turn to 89.85° Azimuth									
7,600.00	10.81	166.07	7,534.03	-688.21	161.33	207.48	2.00	-1.31	-8.02
7,700.00	9.63	156.95	7,632.44	-705.02	166.86	214.14	2.00	-1.18	-9.12
7,800.00	8.75	145.68	7,731.17	-719.00	174.43	222.63	2.00	-0.88	-11.27
7,878.41	8.33	135.48	7,808.71	-727.98	181.77	230.57	2.00	-0.53	-13.00
2nd Bone Spring									
7,900.00	8.27	132.53	7,830.08	-730.14	184.01	232.95	2.00	-0.31	-13.69
8,000.00	8.25	118.57	7,929.05	-738.44	195.62	245.09	2.00	-0.02	-13.96
8,100.00	8.70	105.32	8,027.97	-743.87	209.21	259.02	2.00	0.45	-13.25
8,200.00	9.56	93.89	8,126.71	-746.43	224.79	274.74	2.00	0.85	-11.43
8,240.89	10.00	89.85	8,167.00	-746.65	231.73	281.67	2.00	1.08	-9.90
Build curve 10°/100'									
8,300.00	15.91	89.85	8,224.58	-746.62	244.98	294.89	10.00	10.00	0.00
8,400.00	25.91	89.85	8,317.88	-746.52	280.62	330.45	10.00	10.00	0.00
8,500.00	35.91	89.85	8,403.56	-746.38	331.93	381.63	10.00	10.00	0.00
8,600.00	45.91	89.85	8,479.04	-746.21	397.34	446.87	10.00	10.00	0.00
8,700.00	55.91	89.85	8,542.01	-746.00	474.85	524.20	10.00	10.00	0.00
8,800.00	65.91	89.85	8,590.57	-745.76	562.13	611.26	10.00	10.00	0.00
8,900.00	75.91	89.85	8,623.23	-745.51	656.51	705.41	10.00	10.00	0.00
9,000.00	85.91	89.85	8,639.01	-745.25	755.13	803.78	10.00	10.00	0.00
9,030.43	88.95	89.85	8,640.37	-745.16	785.52	834.10	10.00	10.00	0.00
Landing Point									
9,100.00	88.95	89.85	8,641.64	-744.98	855.08	903.49	0.00	0.00	0.00
9,200.00	88.95	89.85	8,643.47	-744.71	955.07	1,003.22	0.00	0.00	0.00
9,300.00	88.95	89.85	8,645.29	-744.44	1,055.05	1,102.96	0.00	0.00	0.00
9,400.00	88.95	89.85	8,647.12	-744.17	1,155.03	1,202.70	0.00	0.00	0.00
9,500.00	88.95	89.85	8,648.94	-743.90	1,255.02	1,302.43	0.00	0.00	0.00
9,600.00	88.95	89.85	8,650.77	-743.63	1,355.00	1,402.17	0.00	0.00	0.00
9,700.00	88.95	89.85	8,652.59	-743.36	1,454.98	1,501.90	0.00	0.00	0.00
9,800.00	88.95	89.85	8,654.42	-743.10	1,554.96	1,601.64	0.00	0.00	0.00
9,900.00	88.95	89.85	8,656.25	-742.83	1,654.95	1,701.38	0.00	0.00	0.00
10,000.00	88.95	89.85	8,658.07	-742.56	1,754.93	1,801.11	0.00	0.00	0.00
10,100.00	88.95	89.85	8,659.90	-742.29	1,854.91	1,900.85	0.00	0.00	0.00
10,200.00	88.95	89.85	8,661.72	-742.02	1,954.90	2,000.59	0.00	0.00	0.00
10,300.00	88.95	89.85	8,663.55	-741.75	2,054.88	2,100.32	0.00	0.00	0.00
10,400.00	88.95	89.85	8,665.38	-741.48	2,154.86	2,200.06	0.00	0.00	0.00
10,500.00	88.95	89.85	8,667.20	-741.22	2,254.84	2,299.79	0.00	0.00	0.00
10,600.00	88.95	89.85	8,669.03	-740.95	2,354.83	2,399.53	0.00	0.00	0.00
10,700.00	88.95	89.85	8,670.86	-740.68	2,454.81	2,499.27	0.00	0.00	0.00
10,800.00	88.95	89.85	8,672.68	-740.41	2,554.79	2,599.00	0.00	0.00	0.00
10,900.00	88.95	89.85	8,674.51	-740.14	2,654.78	2,698.74	0.00	0.00	0.00
11,000.00	88.95	89.85	8,676.34	-739.87	2,754.76	2,798.47	0.00	0.00	0.00
11,100.00	88.95	89.85	8,678.16	-739.60	2,854.74	2,898.21	0.00	0.00	0.00
11,200.00	88.95	89.85	8,679.99	-739.34	2,954.73	2,997.95	0.00	0.00	0.00
11,300.00	88.95	89.85	8,681.82	-739.07	3,054.71	3,097.68	0.00	0.00	0.00

Oxy Planning Report

Database: HOPSPP
Company: OXY
Project: NM DIRECTIONAL PLANS (NAD 1983)
Site: Cedar Canyon 28-27 Fed Com
Well: Cedar Canyon 28-27 Federal Com 5H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Site Cedar Canyon 28-27 Fed Com
TVD Reference: WELL @ 2974.50ft (Original Well Elev)
MD Reference: WELL @ 2974.50ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
11,400.00	88.95	89.85	8,683.64	-738.80	3,154.69	3,197.42	0.00	0.00	0.00
11,500.00	88.95	89.85	8,685.47	-738.53	3,254.67	3,297.15	0.00	0.00	0.00
11,600.00	88.95	89.85	8,687.30	-738.26	3,354.66	3,396.89	0.00	0.00	0.00
11,700.00	88.95	89.85	8,689.12	-737.99	3,454.64	3,496.63	0.00	0.00	0.00
11,800.00	88.95	89.85	8,690.95	-737.72	3,554.62	3,596.36	0.00	0.00	0.00
11,900.00	88.95	89.85	8,692.78	-737.45	3,654.61	3,696.10	0.00	0.00	0.00
12,000.00	88.95	89.85	8,694.61	-737.19	3,754.59	3,795.83	0.00	0.00	0.00
12,100.00	88.95	89.85	8,696.43	-736.92	3,854.57	3,895.57	0.00	0.00	0.00
12,200.00	88.95	89.85	8,698.26	-736.65	3,954.55	3,995.31	0.00	0.00	0.00
12,300.00	88.95	89.85	8,700.09	-736.38	4,054.54	4,095.04	0.00	0.00	0.00
12,400.00	88.95	89.85	8,701.92	-736.11	4,154.52	4,194.78	0.00	0.00	0.00
12,500.00	88.95	89.85	8,703.74	-735.84	4,254.50	4,294.52	0.00	0.00	0.00
12,600.00	88.95	89.85	8,705.57	-735.57	4,354.49	4,394.25	0.00	0.00	0.00
12,700.00	88.95	89.85	8,707.40	-735.31	4,454.47	4,493.99	0.00	0.00	0.00
12,800.00	88.95	89.85	8,709.23	-735.04	4,554.45	4,593.72	0.00	0.00	0.00
12,900.00	88.95	89.85	8,711.05	-734.77	4,654.44	4,693.46	0.00	0.00	0.00
13,000.00	88.95	89.85	8,712.88	-734.50	4,754.42	4,793.20	0.00	0.00	0.00
13,100.00	88.95	89.85	8,714.71	-734.23	4,854.40	4,892.93	0.00	0.00	0.00
13,200.00	88.95	89.85	8,716.54	-733.96	4,954.38	4,992.67	0.00	0.00	0.00
13,300.00	88.95	89.85	8,718.37	-733.69	5,054.37	5,092.40	0.00	0.00	0.00
13,400.00	88.95	89.85	8,720.19	-733.43	5,154.35	5,192.14	0.00	0.00	0.00
13,500.00	88.95	89.85	8,722.02	-733.16	5,254.33	5,291.88	0.00	0.00	0.00
13,600.00	88.95	89.85	8,723.85	-732.89	5,354.32	5,391.61	0.00	0.00	0.00
13,700.00	88.95	89.85	8,725.68	-732.62	5,454.30	5,491.35	0.00	0.00	0.00
13,800.00	88.95	89.85	8,727.51	-732.35	5,554.28	5,591.08	0.00	0.00	0.00
13,900.00	88.95	89.85	8,729.33	-732.08	5,654.26	5,690.82	0.00	0.00	0.00
14,000.00	88.95	89.85	8,731.16	-731.81	5,754.25	5,790.56	0.00	0.00	0.00
14,100.00	88.95	89.85	8,732.99	-731.54	5,854.23	5,890.29	0.00	0.00	0.00
14,200.00	88.95	89.85	8,734.82	-731.28	5,954.21	5,990.03	0.00	0.00	0.00
14,300.00	88.95	89.85	8,736.65	-731.01	6,054.20	6,089.76	0.00	0.00	0.00
14,400.00	88.95	89.85	8,738.48	-730.74	6,154.18	6,189.50	0.00	0.00	0.00
14,500.00	88.95	89.85	8,740.31	-730.47	6,254.16	6,289.24	0.00	0.00	0.00
14,600.00	88.95	89.85	8,742.13	-730.20	6,354.15	6,388.97	0.00	0.00	0.00
14,700.00	88.95	89.85	8,743.96	-729.93	6,454.13	6,488.71	0.00	0.00	0.00
14,800.00	88.95	89.85	8,745.79	-729.66	6,554.11	6,588.44	0.00	0.00	0.00
14,900.00	88.95	89.85	8,747.62	-729.40	6,654.09	6,688.18	0.00	0.00	0.00
15,000.00	88.95	89.85	8,749.45	-729.13	6,754.08	6,787.92	0.00	0.00	0.00
15,100.00	88.95	89.85	8,751.28	-728.86	6,854.06	6,887.65	0.00	0.00	0.00
15,200.00	88.95	89.85	8,753.11	-728.59	6,954.04	6,987.39	0.00	0.00	0.00
15,300.00	88.95	89.85	8,754.94	-728.32	7,054.03	7,087.12	0.00	0.00	0.00
15,400.00	88.95	89.85	8,756.77	-728.05	7,154.01	7,186.86	0.00	0.00	0.00
15,500.00	88.95	89.85	8,758.60	-727.78	7,253.99	7,286.60	0.00	0.00	0.00
15,600.00	88.95	89.85	8,760.43	-727.52	7,353.97	7,386.33	0.00	0.00	0.00
15,700.00	88.95	89.85	8,762.26	-727.25	7,453.96	7,486.07	0.00	0.00	0.00
15,800.00	88.95	89.85	8,764.08	-726.98	7,553.94	7,585.80	0.00	0.00	0.00
15,900.00	88.95	89.85	8,765.91	-726.71	7,653.92	7,685.54	0.00	0.00	0.00
16,000.00	88.95	89.85	8,767.74	-726.44	7,753.91	7,785.28	0.00	0.00	0.00
16,100.00	88.95	89.85	8,769.57	-726.17	7,853.89	7,885.01	0.00	0.00	0.00
16,200.00	88.95	89.85	8,771.40	-725.90	7,953.87	7,984.75	0.00	0.00	0.00
16,300.00	88.95	89.85	8,773.23	-725.63	8,053.85	8,084.48	0.00	0.00	0.00
16,400.00	88.95	89.85	8,775.06	-725.37	8,153.84	8,184.22	0.00	0.00	0.00
16,500.00	88.95	89.85	8,776.89	-725.10	8,253.82	8,283.96	0.00	0.00	0.00
16,600.00	88.95	89.85	8,778.72	-724.83	8,353.80	8,383.69	0.00	0.00	0.00
16,700.00	88.95	89.85	8,780.55	-724.56	8,453.79	8,483.43	0.00	0.00	0.00

Oxy Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Site Cedar Canyon 28-27 Fed Com
Company:	OXY	TVD Reference:	WELL @ 2974.50ft (Original Well Elev)
Project:	NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	WELL @ 2974.50ft (Original Well Elev)
Site:	Cedar Canyon 28-27 Fed Com	North Reference:	Grid
Well:	Cedar Canyon 28-27 Federal Com 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB00		
Design:	Permitting Plan		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
16,800.00	88.95	89.85	8,782.38	-724.29	8,553.77	8,583.16	0.00	0.00	0.00
16,900.00	88.95	89.85	8,784.21	-724.02	8,653.75	8,682.90	0.00	0.00	0.00
17,000.00	88.95	89.85	8,786.04	-723.75	8,753.73	8,782.64	0.00	0.00	0.00
17,100.00	88.95	89.85	8,787.87	-723.49	8,853.72	8,882.37	0.00	0.00	0.00
17,200.00	88.95	89.85	8,789.70	-723.22	8,953.70	8,982.11	0.00	0.00	0.00
17,300.00	88.95	89.85	8,791.53	-722.95	9,053.68	9,081.84	0.00	0.00	0.00
17,400.00	88.95	89.85	8,793.36	-722.68	9,153.67	9,181.58	0.00	0.00	0.00
17,500.00	88.95	89.85	8,795.20	-722.41	9,253.65	9,281.32	0.00	0.00	0.00
17,600.00	88.95	89.85	8,797.03	-722.14	9,353.63	9,381.05	0.00	0.00	0.00
17,700.00	88.95	89.85	8,798.86	-721.87	9,453.62	9,480.79	0.00	0.00	0.00
17,800.00	88.95	89.85	8,800.69	-721.61	9,553.60	9,580.52	0.00	0.00	0.00
17,900.00	88.95	89.85	8,802.52	-721.34	9,653.58	9,680.26	0.00	0.00	0.00
18,000.00	88.95	89.85	8,804.35	-721.07	9,753.56	9,780.00	0.00	0.00	0.00
18,100.00	88.95	89.85	8,806.18	-720.80	9,853.55	9,879.73	0.00	0.00	0.00
18,200.00	88.95	89.85	8,808.01	-720.53	9,953.53	9,979.47	0.00	0.00	0.00
18,300.00	88.95	89.85	8,809.84	-720.26	10,053.51	10,079.20	0.00	0.00	0.00
18,400.00	88.95	89.85	8,811.67	-719.99	10,153.50	10,178.94	0.00	0.00	0.00
18,500.00	88.95	89.85	8,813.50	-719.72	10,253.48	10,278.68	0.00	0.00	0.00
18,600.00	88.95	89.85	8,815.33	-719.46	10,353.46	10,378.41	0.00	0.00	0.00
18,700.00	88.95	89.85	8,817.17	-719.19	10,453.44	10,478.15	0.00	0.00	0.00
18,800.00	88.95	89.85	8,819.00	-718.92	10,553.43	10,577.88	0.00	0.00	0.00
18,854.78	88.95	89.85	8,820.00	-718.77	10,608.20	10,632.52	0.00	0.00	0.00

TD at 18854.78' MD

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
329.17	329.17	Top Rustler			
773.78	773.78	Top Salado (salt)			
1,364.66	1,364.66	Top Castile (anhydrite)			
2,905.40	2,905.40	Top Lamar / Delaware			
2,947.19	2,947.19	Top Bell Canyon			
3,637.21	3,637.21	Top Cherry Canyon			
5,067.89	5,047.86	Top Brushy Canyon			
6,636.10	6,587.62	1st Bone Spring			
7,878.41	7,808.71	2nd Bone Spring			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N-S (ft)	+E-W (ft)	
3,600.00	3,600.00	0.00	0.00	Stepout DLS 2.00
4,146.58	4,143.27	-50.61	11.86	Hold 10° tangent
7,590.84	7,525.03	-686.54	160.92	Turn to 89.85° Azimuth
8,240.89	8,167.00	-746.65	231.73	Build curve 10°/100'
9,030.43	8,640.37	-745.16	785.52	Landing Point
18,854.78	8,820.00	-718.77	10,608.20	TD at 18854.78' MD

Lowe, Leonard, EMNRD

From: David_Stewart@oxy.com
Sent: Monday, October 24, 2016 12:02 PM
To: Lowe, Leonard, EMNRD
Subject: RE: NSL application, Cedar Canyon 28-27 Fed. Com. No. 5H

Yes sir, according to our land negotiator, the working interest is the same for all affected tracts that OXY operates with the exception of Unit H Section 27. We notified all the working interest owners in Unit H, Section 27.

Thanks,
David Stewart
Sr. Regulatory Advisor
OXY Permian
Wk-432-685-5717
Cell-432-634-5688
david_stewart@oxy.com

From: Lowe, Leonard, EMNRD [mailto:Leonard.Lowe@state.nm.us]
Sent: Monday, October 24, 2016 12:49 PM
To: Stewart, David R <David_Stewart@oxy.com>
Subject: NSL application, Cedar Canyon 28-27 Fed. Com. No. 5H

Mr. David,

Good morning,

In those affected offset tracts that OXY operates, is the working interest the same for affected tract & drilled tract area?

Leonard Lowe
Engineering Bureau
Oil Conservation Division
Energy Minerals and Natural Resources Department
1220 South St. Frances
Santa Fe, New Mexico 87004
Office: 505-476-3492
Cell: 505-930-6717
Fax: 505-476-3462
E-mail: leonard.lowe@state.nm.us
Website: <http://www.emnrd.state.nm.us/ocd/>

Lowe, Leonard, EMNRD

From: Lowe, Leonard, EMNRD
Sent: Monday, October 24, 2016 2:39 PM
To: 'David_Stewart@oxy.com'
Cc: Bayliss, Randolph, EMNRD; Sharp, Karen, EMNRD; McMillan, Michael, EMNRD; Goetze, Phillip, EMNRD; Jones, William V, EMNRD; 'lisa@rwbyram.com'; 'jglover@blm.gov'; 'scaffey@blm.gov'; 'jstovall@blm.gov'; 'rjsanche@blm.gov'
Subject: updated APPROVED NSL-7475_Cedar Canyon 28 Federal 5H, Eddy County_SEC 29 24S 29E

Importance: High

Mr. David Stewart,

The following permit has been issued and will soon be available on the Division's web site:
<http://ocdimage.emnrd.state.nm.us/Imaging/Default.aspx>.

NSL-7475

Oxy USA Inc.

API #: 30-015-43645

WELL: Cedar Canyon 28 Federal 5H, Eddy County

This e-mail supersedes the previous e-mail referencing NSL-7475.

Leonard Lowe

Engineering Bureau

Oil Conservation Division

Energy Minerals and Natural Resources Department

1220 South St. Frances

Santa Fe, New Mexico 87004

Office: 505-476-3492

Fax: 505-476-3462

E-mail: leonard.lowe@state.nm.us

Website: <http://www.emnrd.state.nm.us/ocd/>