

NSL-7706

Revised March 23, 2017

RECEIVED:

4/9/2018

REVIEWER:

LRL

TYPE:

NSL

APP NO:

PMAM1809960363

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & 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

Applicant: OXY USA INC. **OGRID Number:** 16696
Well Name: SALT RIDGE CC 20-17 FEDERAL COM 22H **API:** 30-015-PENDING
Pool: CORRAL DRAW; BONE SPRING **Pool Code:** 96238

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

APR 09 2018 PM02:37

1) TYPE OF APPLICATION: Check those which apply for [A]

A. Location - Spacing Unit - Simultaneous Dedication

☒ NSL☐ NSP (PROJECT AREA)☐ NSP (PRORATION UNIT)☐ SD

B. Check one only for [I] or [II]

[I] Commingling - Storage - Measurement

☐ DHC☐ CTB☐ PLC☐ PC☐ OLS☐ OLM

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

☐ WFX☐ PMX☐ SWD☐ IPI☐ EOR☐ PPR

2) NOTIFICATION REQUIRED TO: Check those which apply.

A. ☒ Offset operators or lease holders

B. ☐ Royalty, overriding royalty owners, revenue owners

C. ☐ Application requires published notice

D. ☐ Notification and/or concurrent approval by SLO

E. ☒ Notification and/or concurrent approval by BLM

F. ☐ Surface owner

G. ☐ For all of the above, proof of notification or publication is attached, and/or,

H. ☐ No notice required

FOR OCD ONLY

☒ Notice Complete

☒ Application
Content
Complete

3) **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.

Sarah Mitchell

Print or Type Name

Sarah Mitchell

Signature

4/4/2018

Date

432-699-4318

Phone Number

Sarah_mitchell@oxy.com

e-mail Address



OXY USA Inc

**PO Box 50250
Midland, TX 79710-0250**

April 4, 2017

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 –
Salt Ridge CC 20-17 Federal Com #22H – Corral Draw; Bone Spring
Surface – 2384 FNL 1327 FWL Unit F Sec 17 T24S R29E
Top Perforation – 2316 FSL 1258 FWL Unit L Sec 17 T24S R29E
Bottom Perforation – 340 FSL 1260 FWL Unit M Sec 20 T24S R29E
Bottom Hole – 180 FSL 1260 FWL Unit M Sec 20 T24S R29E
Eddy County, New Mexico*

Dear Mr. Lowe:

OXY USA Inc. respectfully requests administrative approval of a non-standard location on the Salt Ridge CC 20-17 Federal Com #22H well, API Number-30-015-pending, Property Code pending. The #22H well is proposed to be completed in the Corral Draw; Bone Spring pool, 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 – 2384 FNL 1327 FWL Unit F Sec 17 T24S R29E
Top Perforation – 2316 FSL 1258 FWL Unit L Sec 17 T24S R29E
Bottom Perforation – 340 FSL 1260 FWL Unit M Sec 20 T24S R29E
Bottom Hole – 180 FSL 1260 FWL Unit M Sec 20 T24S R29E

The adjoining spacing units towards which the unorthodox location encroaches are located in T24S R29E, Section 17- Units F, K, N Section 20–Units C, F, K, N, Section 29- Unit C.

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.
2. 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, copies of the signed certified return receipts will be furnished upon request.
4. Proposed Directional Survey
5. Statement from Oxy Production Engineer

If you need any additional information, please call me at 432-699-4318.

Sincerely,

Sarah Mitchell
Regulatory Specialist
OXY USA Inc.

Attachments

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



OXY USA Inc.

PO Box 50250
Midland, TX 79710-0250

April 4, 2017

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Re: *Application for Administrative Approval of Non-Standard Location –
Salt Ridge CC 20-17 Federal Com #22H – Corral Draw; Bone Spring
Surface – 2384 FNL 1327 FWL Unit F Sec 17 T24S R29E
Top Perforation – 2316 FSL 1258 FWL Unit L Sec 17 T24S R29E
Bottom Perforation – 340 FSL 1260 FWL Unit M Sec 20 T24S R29E
Bottom Hole –180 FSL 1260 FWL Unit M Sec 20 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 – 2384 FNL 1327 FWL Unit F Sec 17 T24S R29E
Top Perforation – 2316 FSL 1258 FWL Unit L Sec 17 T24S R29E
Bottom Perforation – 340 FSL 1260 FWL Unit M Sec 20 T24S R29E
Bottom Hole –180 FSL 1260 FWL Unit M Sec 20 T24S R29E
Eddy County, New Mexico

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 John Schneider, CPL at 713-366-5330 or myself at 432-699-4318.

Sincerely,

A handwritten signature in cursive script that reads "Sarah Mitchell".

Sarah Mitchell
Regulatory Specialist
OXY USA Inc.

Attachments

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

5. Lease Serial No.
NMNM94651

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No.
SALT RIDGE CC 20-17 FED C 22H

9. API Well No.

1a. Type of work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator
OXY USA INCORPORATED

3a. Address
5 Greenway Plaza, Suite 110 Houston TX 770

3b. Phone No. (include area code)
(713)366-5716

10. Field and Pool, or Exploratory
CORRAL DRAW BONE SPRING / BONE

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface SENW / 2384 FNL / 1327 FWL / LAT 32.2183866 / LONG -104.0108481

At proposed prod. zone SWSW / 180 FSL / 1260 FWL / LAT 32.1962406 / LONG -104.0111162

11. Sec., T. R. M. or Blk. and Survey or Area
SEC 17 / T24S / R29E / NMP

14. Distance in miles and direction from nearest town or post office*
8 miles

12. County or Parish
EDDY

13. State
NM

15. Distance from proposed*
location to nearest 50 feet
property or lease line, ft.
(Also to nearest drg. unit line, if any)

16. No. of acres in lease
1400

17. Spacing Unit dedicated to this well
240

18. Distance from proposed location*
to nearest well, drilling, completed, 35 feet
applied for, on this lease, ft.

19. Proposed Depth
8541 feet / 16070 feet

20. BLM/BIA Bond No. on file
FED: ESB000226

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
2934 feet

22. Approximate date work will start*
07/19/2018

23. Estimated duration
20 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

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).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).

5. Operator certification

6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature
(Electronic Submission)

Name (Printed/Typed)
David Stewart / Ph: (713)366-5716

Date
02/27/2018

Title
Sr. Regulatory Advisor

Approved by (Signature)

Name (Printed/Typed)

Date

Title

Office
CARLSBAD

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.

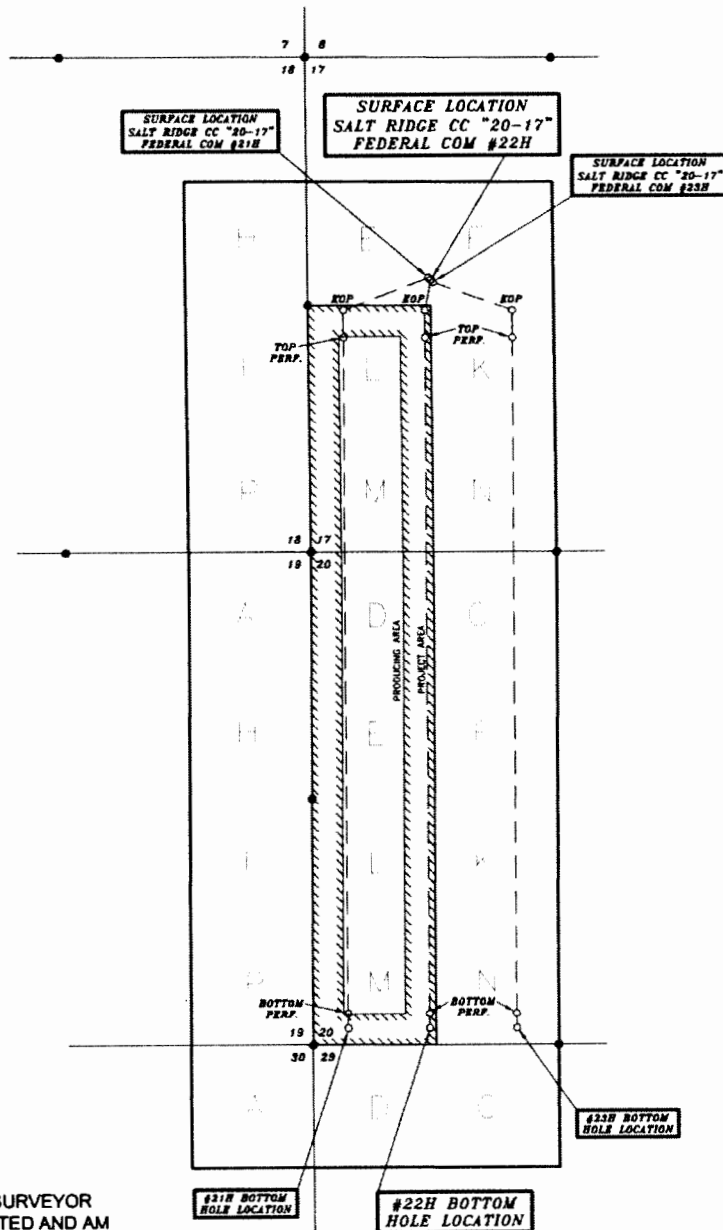
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

OXY USA INC.

SALT RIDGE CC "20-17" FEDERAL COM #22H
SECTIONS 17, 18, 19, 20, 29 & 30, TOWNSHIP 24 SOUTH,
RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO



SURVEYORS CERTIFICATE

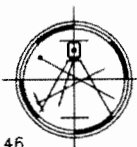
I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS.

Terry J. Asel N.M.P.L.S. No. 15079



Asel Surveying

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



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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Grande Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-	Pool Code 96238	Pool Name Cornal Draw Bone Spring
Property Code	Property Name SALT RIDGE CC "20-17" FEDERAL COM	Well Number 22H
OGRID No 16696	Operator Name OXY USA INC.	Elevation 2933.9'

Surface Location

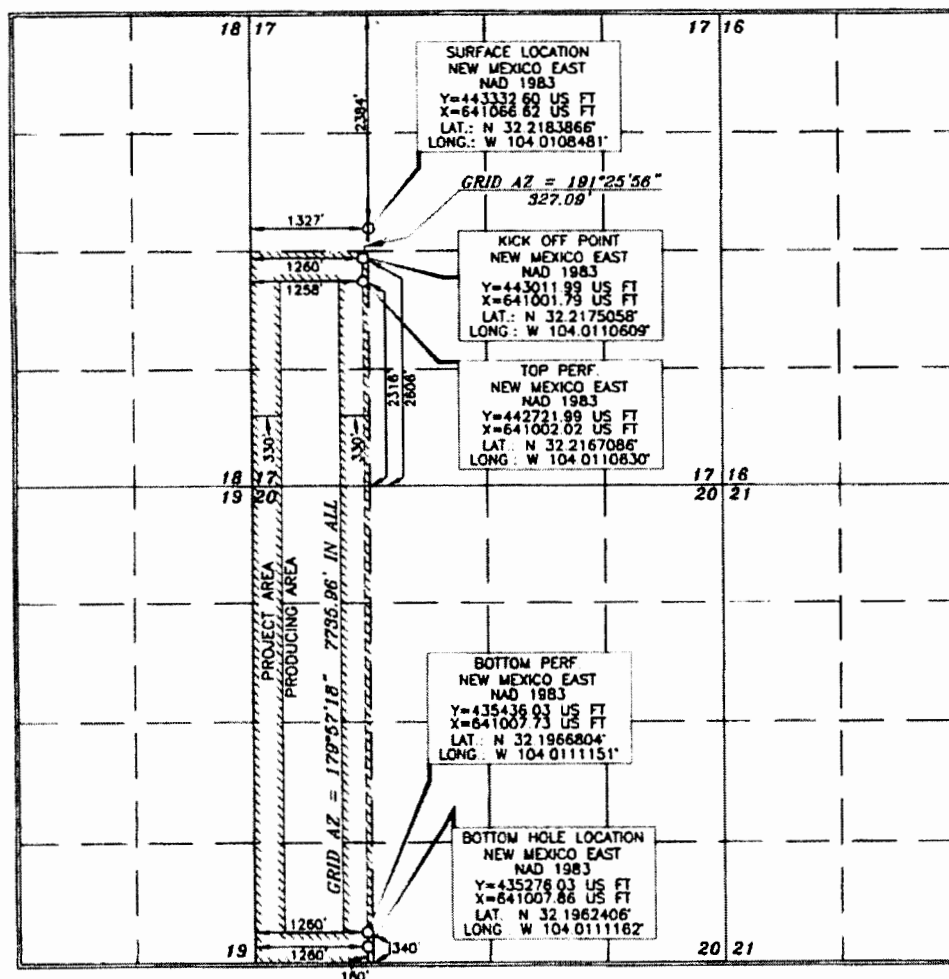
UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County
F	17	24 SOUTH	29 EAST, N.M.P.M.		2384'	NORTH	1327'	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County
M	20	24 SOUTH	29 EAST, N.M.P.M.		180'	SOUTH	1260'	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
240	Y		

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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order.

hereby entered by the division.

Signature: **David Stewart** Date: **2/26/18**

Printed Name: **David Stewart**

E-mail Address: **david.stewart@oxy.com**

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from the 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: **SEPTEMBER 8, 2017**

Signature and Seal: **Professional Land Surveyor**

Signature: **Jeffrey A. ...** Certificate Number: **15079**

WO# 170908WL-b (KA)

District I
 1625 N French Dr., Hobbs, NM 88240
 Phone: (575) 393-6161 Fax: (575) 393-0720
 District II
 811 S. First St., Artesia, NM 88210
 Phone: (575) 748-1283 Fax: (575) 748-9720
 District III
 1000 Rio Brazos Road, Aztec, NM 87410
 Phone: (505) 334-6178 Fax: (505) 334-6170
 District IV
 1230 S. St. Francis Dr., Santa Fe, NM 87505
 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
 Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

Form C-102
 Revised August 1, 2011
 Submit one copy to appropriate
 District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-	Pool Code 96233	Pool Name Cornal Draw Bone Springs
Property Code	Property Name SALT RIDGE CC "20-17" FEDERAL COM	Well Number 21H
OGRID No 16696	Operator Name OXY USA INC.	Elevation 2933.9'

Surface Location

UL or lot no	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
E	17	24 SOUTH	29 EAST, N.M.P.M		2359'	NORTH	1302'	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
M	20	24 SOUTH	29 EAST, N.M.P.M		180'	SOUTH	380'	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No
240	Y		

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.

SURFACE LOCATION NEW MEXICO EAST NAD 1983 Y=443357.32 US FT X=641041.83 US FT LAT.: N 32.2184547 LONG.: W 104.0109280 GRID AZ = 249°40'36" 881.18' KICK OFF POINT NEW MEXICO EAST NAD 1983 Y=443016.53 US FT X=640121.74 US FT LAT.: N 32.2175255 LONG.: W 104.0139065 TOP PERF. NEW MEXICO EAST NAD 1983 Y=442726.53 US FT X=640121.97 US FT LAT.: N 32.2167283 LONG.: W 104.0139086 BOTTOM PERF NEW MEXICO EAST NAD 1983 Y=435438.97 US FT X=640127.73 US FT LAT.: N 32.1966957 LONG.: W 104.0139599 BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1983 Y=435278.96 US FT X=640127.86 US FT LAT.: N 32.1962559 LONG.: W 104.0139611 GRID AZ = 170°57'17" 7737.57' IN ALL PRODUCING AREA PROJECT AREA	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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>David Stewart</i> Signature 2/26/18 Date David Stewart Printed Name david_stewart@oxy.com E-mail Address SURVEYOR CERTIFICATION I hereby certify that the information shown on this plat was plotted from actual surveys made by me or my assistants and that the same is true and correct to the best of my belief. JERRY J. ASH 15079 Date of Survey: SEPTEMBER 9, 2017 Signature and Seal of Professional Surveyor <i>Jerry J. Ash</i> Certificate Number: 15079 WO# 170908WL-a (KA)
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District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (505) 393-6161 Fax: (505) 393-0721
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811 S. First St., Artesia, NM 87010
Phone: (505) 748-1283 Fax: (505) 748-9720
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State of New Mexico
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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-	Pool Code 96238	Pool Name Connal Draw Bone Springs
Property Code	Property Name SALT RIDGE CC "20-17" FEDERAL COM	Well Number 23H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 2933.9'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	17	24 SOUTH	29 EAST, N.M.P.M.		2409'	NORTH	1352'	WEST	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
N	20	24 SOUTH	29 EAST, N.M.P.M.		180'	SOUTH	2200'	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
240	Y		

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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <u>David Stewart</u> Date: <u>2/26/10</u> Printed Name: <u>David Stewart</u> E-mail Address: <u>dauid_stewart@oxy.com</u>
	SURVEYOR CERTIFICATION I hereby certify that the survey shown on this plat was plotted from the original surveys made by me or my predecessor, and that the same is true and correct to the best of my belief. Date of Survey: <u>SEPTEMBER 8, 2010</u> Signature and Seal: <u>Terry J. Asch</u> Professional Surveyor: <u>15079</u> Certificate Number: <u>15079</u>

WO# 170908WL-C (KA)

Application Non-Standard Location - Service List
OXY USA Inc.
Salt Ridge CC 20-17 Federal Com #22H

1

New Mexico Oil Conservation Division
811 S. First St.
Artesia, NM 88210
7017-0190-0000-4588-2198

New Mexico State Land Office
P. O. Box 1148
Santa Fe, NM 87504
7017-0190-0000-4588-2204

New Mexico Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505
7017-0190-0000-4588-2211

United States Dept of Interior
Bureau of Land Management
620 E. Greene Street
Carlsbad, NM 88220
7017-0190-0000-4588-2228

T24S-R29E

Section 17: Units E, F, K, L

B. Jack Reed
506 Charismatic
Midland, TX 79705
7017-0190-0000-4588-2235

Beryl Oil and Gas, LP
6707 Pebble Court
Midland, TX 79707
7017-0190-0000-4588-2242

DRW Energy, LLC
4107 Tanforan
Midland, TX 79707
7017-0190-0000-4588-2259

GD McKinney Investments LP
300 N. Marienfed, Ste 1100
Midland, TX 79701
7017-0190-0000-4588-2266

Leopard Petroleum LP
4200 Fairwood
Midland, TX 79707
Attention: Gerald A. Hancock
7017-0190-0000-4588-2273

M'lissa L. McKinney Schoening
301 Sir Barton Parkway
Midland, TX 79705
7017-0190-0000-4588-2280

T24S-R29E

Section 17: Units M and N

Conoco Phillips Company
600 N. Dairy Ashford
PH10-025-5034
Houston, TX 77079
7017-0190-0000-4588-2297

T24S-R29E

Section 20: Units C, D, E, F, K, L, M, N

Jack V. Walker Rev. Trust
Trustee Valerie F. Walker
P. O. Box 102256
Anchorage, AK 99510
7017-0190-0000-4588-2303

Strata Production Company
P. O. Box 1030
Roswell, NM 88202
7017-0190-0000-4588-2310

Murphy Petroleum Corp.
P. O. Box 2545
Roswell, NM 88202
7017-0190-0000-4588-2327

Chevron USA Inc.
1400 Smith Street
Houston, TX 77002
7017-0190-0000-4588-2303

T24S-R29E

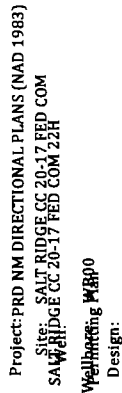
Section 29: Unit C

OXY USA Inc.
P.O. Box 50250
Midland, Texas 79710
7017-0190-0000-4588-2334

Copies of this application were mailed to the following individuals, companies and organizations on or before
04-Apr-2018

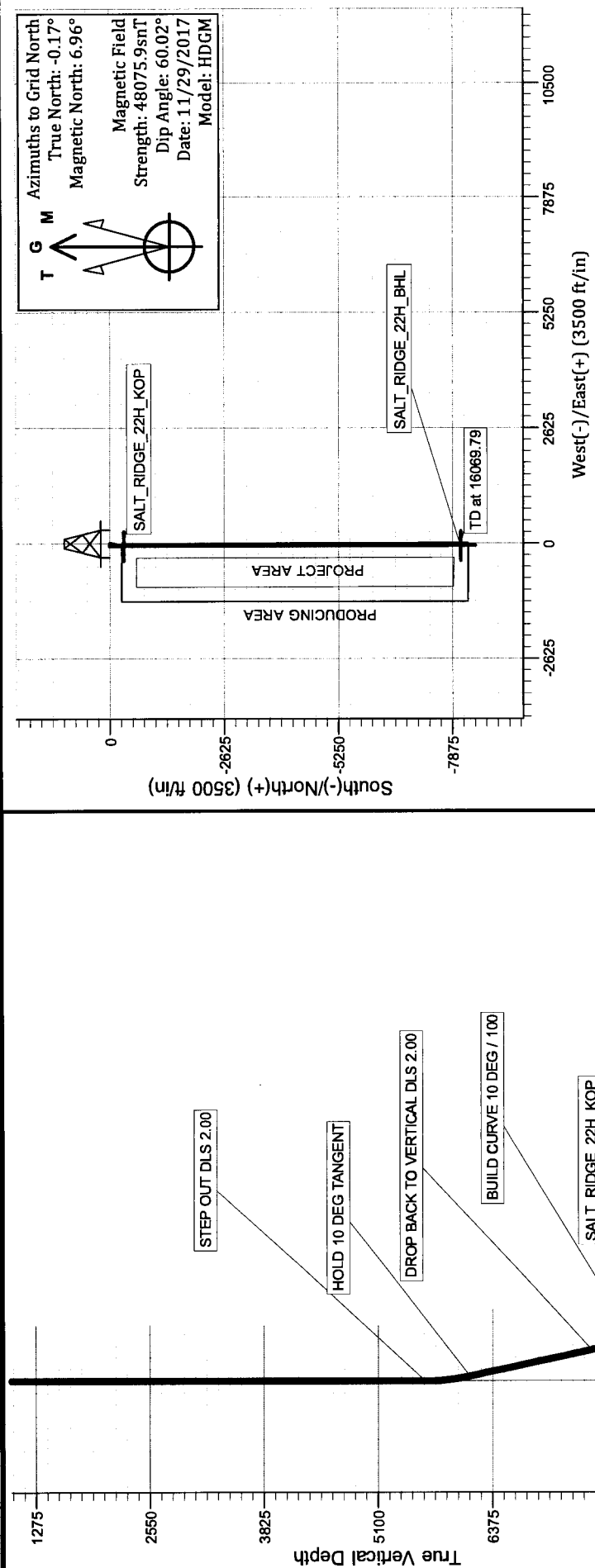


Sarah Mitchell
OXY USA Inc.



Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

+N/-S	+E/-W	Northing	Easting	Ground Level: 2933.90	Latitude	Longitude
0.00	0.00	44332.60	641066.62		32° 13' 6.191687 N	104° 0' 39.053297 W
					DATUM @ 2960.40ft	



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

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	5625.00	0.00	0.00	5625.00	0.00	0.00	0.00	0.00	0.00		STEP OUT DLS 2.00
3	6125.52	10.01	191.43	6122.98	-42.75	-8.64	2.00	191.43	42.81		HOLD 10 DEG TANGENT
4	7505.61	10.01	191.43	7482.06	-277.89	-56.19	0.00	0.00	278.29		DROP BACK TO VERTICAL DLS 2.00
5	8006.14	0.00	179.96	7980.04	-320.64	-64.84	2.00	180.00	321.10		BUILD CURVE 10 DEG / 100
6	8906.14	90.00	179.96	8553.00	-893.59	-64.39	10.00	179.96	894.04		LANDING POINT
7	16069.79	90.19	179.96	8541.00	-8057.23	-58.76	0.00	0.00	8057.44		TD at 16069.79

Oxy Planning Report

Database: HOPSPP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: SALT RIDGE CC 20-17 FED COM
Well: SALT RIDGE CC 20-17 FED COM 22H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well SALT RIDGE CC 20-17 FED COM 22H
TVD Reference: DATUM @ 2960.40ft
MD Reference: DATUM @ 2960.40ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	PRD NM DIRECTIONAL PLANS (NAD 1983)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone	Using geodetic scale factor	

Site	SALT RIDGE CC 20-17 FED COM				
Site Position:		Northing:	443,357.32 usft	Latitude:	32° 13' 6.437049 N
From:	Map	Easting:	641,041.85 usft	Longitude:	104° 0' 39.340777 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.17 °

Well	SALT RIDGE CC 20-17 FED COM 22H				
Well Position	+N/-S	-24.72 ft	Northing:	443,332.60 usft	Latitude: 32° 13' 6.191687 N
	+E/-W	24.77 ft	Easting:	641,066.62 usft	Longitude: 104° 0' 39.053297 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	2,933.90 ft

Wellbore	WB00				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	11/29/2017	7.13	60.02	48,076

Design	Permitting Plan				
Audit Notes:					
Version:	Phase:	PROTOTYPE		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	180.42	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,625.00	0.00	0.00	5,625.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,125.52	10.01	191.43	6,122.98	-42.75	-8.64	2.00	2.00	0.00	191.43	
7,505.61	10.01	191.43	7,482.06	-277.89	-56.19	0.00	0.00	0.00	0.00	
8,006.14	0.00	179.96	7,980.04	-320.64	-64.84	2.00	-2.00	0.00	180.00	SALT_RIDGE_22H
8,906.14	90.00	179.96	8,553.00	-893.59	-64.39	10.00	10.00	0.00	179.96	
16,069.79	90.19	179.96	8,541.00	-8,057.23	-58.76	0.00	0.00	0.00	0.00	SALT_RIDGE_22H

Oxy Planning Report

Database: HOPSPP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: SALT RIDGE CC 20-17 FED COM
Well: SALT RIDGE CC 20-17 FED COM 22H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well SALT RIDGE CC 20-17 FED COM 22H
TVD Reference: DATUM @ 2960.40ft
MD Reference: DATUM @ 2960.40ft
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
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

Oxy Planning Report

Database: HOPSPP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: SALT RIDGE CC 20-17 FED COM
Well: SALT RIDGE CC 20-17 FED COM 22H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well SALT RIDGE CC 20-17 FED COM 22H
TVD Reference: DATUM @ 2960.40ft
MD Reference: DATUM @ 2960.40ft
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)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,625.00	0.00	0.00	5,625.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	1.50	191.43	5,699.99	-0.96	-0.19	0.96	2.00	2.00	0.00
5,800.00	3.50	191.43	5,799.89	-5.24	-1.06	5.24	2.00	2.00	0.00
5,900.00	5.50	191.43	5,899.58	-12.93	-2.61	12.95	2.00	2.00	0.00
6,000.00	7.50	191.43	5,998.93	-24.02	-4.86	24.06	2.00	2.00	0.00
6,100.00	9.50	191.43	6,097.83	-38.51	-7.79	38.57	2.00	2.00	0.00
6,125.52	10.01	191.43	6,122.98	-42.75	-8.64	42.81	2.00	2.00	0.00
6,200.00	10.01	191.43	6,196.32	-55.44	-11.21	55.52	0.00	0.00	0.00
6,300.00	10.01	191.43	6,294.80	-72.48	-14.66	72.58	0.00	0.00	0.00
6,400.00	10.01	191.43	6,393.28	-89.51	-18.10	89.64	0.00	0.00	0.00
6,500.00	10.01	191.43	6,491.76	-106.55	-21.55	106.71	0.00	0.00	0.00
6,600.00	10.01	191.43	6,590.23	-123.59	-24.99	123.77	0.00	0.00	0.00
6,700.00	10.01	191.43	6,688.71	-140.63	-28.44	140.83	0.00	0.00	0.00
6,800.00	10.01	191.43	6,787.19	-157.67	-31.88	157.89	0.00	0.00	0.00
6,900.00	10.01	191.43	6,885.67	-174.70	-35.33	174.96	0.00	0.00	0.00
7,000.00	10.01	191.43	6,984.14	-191.74	-38.77	192.02	0.00	0.00	0.00
7,100.00	10.01	191.43	7,082.62	-208.78	-42.22	209.08	0.00	0.00	0.00
7,200.00	10.01	191.43	7,181.10	-225.82	-45.66	226.14	0.00	0.00	0.00
7,300.00	10.01	191.43	7,279.58	-242.86	-49.11	243.21	0.00	0.00	0.00
7,400.00	10.01	191.43	7,378.05	-259.89	-52.55	260.27	0.00	0.00	0.00
7,500.00	10.01	191.43	7,476.53	-276.93	-56.00	277.33	0.00	0.00	0.00
7,505.61	10.01	191.43	7,482.06	-277.89	-56.19	278.29	0.00	0.00	0.00
7,600.00	8.12	191.43	7,575.26	-292.47	-59.14	292.89	2.00	-2.00	0.00
7,700.00	6.12	191.43	7,674.49	-304.62	-61.60	305.06	2.00	-2.00	0.00
7,800.00	4.12	191.43	7,774.08	-313.37	-63.37	313.82	2.00	-2.00	0.00
7,900.00	2.12	191.43	7,873.93	-318.71	-64.45	319.17	2.00	-2.00	0.00
8,000.00	0.12	191.43	7,973.90	-320.63	-64.83	321.09	2.00	-2.00	0.00
8,006.14	0.00	179.96	7,980.04	-320.64	-64.84	321.10	2.00	-2.00	0.00
8,100.00	9.39	179.96	8,073.49	-328.31	-64.83	328.77	10.00	10.00	0.00
8,200.00	19.39	179.96	8,170.23	-353.12	-64.81	353.58	10.00	10.00	0.00
8,300.00	29.39	179.96	8,261.19	-394.36	-64.78	394.82	10.00	10.00	0.00
8,400.00	39.39	179.96	8,343.61	-450.76	-64.73	451.22	10.00	10.00	0.00
8,500.00	49.39	179.96	8,414.98	-520.62	-64.68	521.08	10.00	10.00	0.00
8,600.00	59.39	179.96	8,473.14	-601.82	-64.61	602.27	10.00	10.00	0.00
8,700.00	69.39	179.96	8,516.32	-691.87	-64.54	692.33	10.00	10.00	0.00
8,800.00	79.39	179.96	8,543.20	-788.06	-64.47	788.51	10.00	10.00	0.00
8,900.00	89.39	179.96	8,552.97	-887.46	-64.39	887.90	10.00	10.00	0.00
8,906.14	90.00	179.96	8,553.00	-893.59	-64.39	894.04	10.00	10.00	0.00
9,000.00	90.00	179.96	8,553.00	-987.46	-64.31	987.90	0.00	0.00	0.00
9,100.00	90.01	179.96	8,552.99	-1,087.46	-64.23	1,087.90	0.00	0.00	0.00
9,200.00	90.01	179.96	8,552.98	-1,187.46	-64.16	1,187.89	0.00	0.00	0.00
9,300.00	90.01	179.96	8,552.96	-1,287.46	-64.08	1,287.89	0.00	0.00	0.00
9,400.00	90.01	179.96	8,552.94	-1,387.46	-64.00	1,387.89	0.00	0.00	0.00
9,500.00	90.02	179.96	8,552.92	-1,487.46	-63.92	1,487.88	0.00	0.00	0.00
9,600.00	90.02	179.96	8,552.89	-1,587.46	-63.84	1,587.88	0.00	0.00	0.00
9,700.00	90.02	179.96	8,552.85	-1,687.46	-63.76	1,687.88	0.00	0.00	0.00
9,800.00	90.02	179.96	8,552.81	-1,787.46	-63.68	1,787.87	0.00	0.00	0.00
9,900.00	90.03	179.96	8,552.77	-1,887.46	-63.61	1,887.87	0.00	0.00	0.00
10,000.00	90.03	179.96	8,552.72	-1,987.46	-63.53	1,987.87	0.00	0.00	0.00
10,100.00	90.03	179.96	8,552.67	-2,087.46	-63.45	2,087.86	0.00	0.00	0.00
10,200.00	90.03	179.96	8,552.61	-2,187.46	-63.37	2,187.86	0.00	0.00	0.00

Oxy Planning Report

Database: HOPSPP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: SALT RIDGE CC 20-17 FED COM
Well: SALT RIDGE CC 20-17 FED COM 22H
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Design: Permitting Plan

Local Co-ordinate Reference: Well SALT RIDGE CC 20-17 FED COM 22H
TVD Reference: DATUM @ 2960.40ft
MD Reference: DATUM @ 2960.40ft
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)
10,300.00	90.04	179.96	8,552.55	-2,287.46	-63.29	2,287.86	0.00	0.00	0.00
10,400.00	90.04	179.96	8,552.48	-2,387.46	-63.21	2,387.85	0.00	0.00	0.00
10,500.00	90.04	179.96	8,552.41	-2,487.46	-63.14	2,487.85	0.00	0.00	0.00
10,600.00	90.05	179.96	8,552.33	-2,587.46	-63.06	2,587.85	0.00	0.00	0.00
10,700.00	90.05	179.96	8,552.25	-2,687.46	-62.98	2,687.84	0.00	0.00	0.00
10,800.00	90.05	179.96	8,552.16	-2,787.46	-62.90	2,787.84	0.00	0.00	0.00
10,900.00	90.05	179.96	8,552.07	-2,887.46	-62.82	2,887.84	0.00	0.00	0.00
11,000.00	90.06	179.96	8,551.97	-2,987.46	-62.74	2,987.83	0.00	0.00	0.00
11,100.00	90.06	179.96	8,551.87	-3,087.46	-62.66	3,087.83	0.00	0.00	0.00
11,200.00	90.06	179.96	8,551.77	-3,187.46	-62.59	3,187.83	0.00	0.00	0.00
11,300.00	90.06	179.96	8,551.66	-3,287.45	-62.51	3,287.82	0.00	0.00	0.00
11,400.00	90.07	179.96	8,551.55	-3,387.45	-62.43	3,387.82	0.00	0.00	0.00
11,500.00	90.07	179.96	8,551.43	-3,487.45	-62.35	3,487.82	0.00	0.00	0.00
11,600.00	90.07	179.96	8,551.30	-3,587.45	-62.27	3,587.81	0.00	0.00	0.00
11,700.00	90.07	179.96	8,551.17	-3,687.45	-62.19	3,687.81	0.00	0.00	0.00
11,800.00	90.08	179.96	8,551.04	-3,787.45	-62.12	3,787.81	0.00	0.00	0.00
11,900.00	90.08	179.96	8,550.90	-3,887.45	-62.04	3,887.80	0.00	0.00	0.00
12,000.00	90.08	179.96	8,550.76	-3,987.45	-61.96	3,987.80	0.00	0.00	0.00
12,100.00	90.09	179.96	8,550.61	-4,087.45	-61.88	4,087.80	0.00	0.00	0.00
12,200.00	90.09	179.96	8,550.46	-4,187.45	-61.80	4,187.79	0.00	0.00	0.00
12,300.00	90.09	179.96	8,550.31	-4,287.45	-61.72	4,287.79	0.00	0.00	0.00
12,400.00	90.09	179.96	8,550.15	-4,387.45	-61.64	4,387.79	0.00	0.00	0.00
12,500.00	90.10	179.96	8,549.98	-4,487.45	-61.57	4,487.78	0.00	0.00	0.00
12,600.00	90.10	179.96	8,549.81	-4,587.45	-61.49	4,587.78	0.00	0.00	0.00
12,700.00	90.10	179.96	8,549.63	-4,687.45	-61.41	4,687.78	0.00	0.00	0.00
12,800.00	90.10	179.96	8,549.45	-4,787.45	-61.33	4,787.77	0.00	0.00	0.00
12,900.00	90.11	179.96	8,549.27	-4,887.45	-61.25	4,887.77	0.00	0.00	0.00
13,000.00	90.11	179.96	8,549.08	-4,987.45	-61.17	4,987.77	0.00	0.00	0.00
13,100.00	90.11	179.96	8,548.89	-5,087.45	-61.10	5,087.76	0.00	0.00	0.00
13,200.00	90.12	179.96	8,548.69	-5,187.45	-61.02	5,187.76	0.00	0.00	0.00
13,300.00	90.12	179.96	8,548.49	-5,287.45	-60.94	5,287.76	0.00	0.00	0.00
13,400.00	90.12	179.96	8,548.28	-5,387.45	-60.86	5,387.75	0.00	0.00	0.00
13,500.00	90.12	179.96	8,548.07	-5,487.45	-60.78	5,487.75	0.00	0.00	0.00
13,600.00	90.13	179.96	8,547.85	-5,587.45	-60.70	5,587.75	0.00	0.00	0.00
13,700.00	90.13	179.96	8,547.63	-5,687.45	-60.62	5,687.74	0.00	0.00	0.00
13,800.00	90.13	179.96	8,547.40	-5,787.45	-60.55	5,787.74	0.00	0.00	0.00
13,900.00	90.13	179.96	8,547.17	-5,887.45	-60.47	5,887.73	0.00	0.00	0.00
14,000.00	90.14	179.96	8,546.93	-5,987.45	-60.39	5,987.73	0.00	0.00	0.00
14,100.00	90.14	179.96	8,546.69	-6,087.45	-60.31	6,087.73	0.00	0.00	0.00
14,200.00	90.14	179.96	8,546.45	-6,187.45	-60.23	6,187.72	0.00	0.00	0.00
14,300.00	90.14	179.96	8,546.20	-6,287.45	-60.15	6,287.72	0.00	0.00	0.00
14,400.00	90.15	179.96	8,545.94	-6,387.45	-60.07	6,387.72	0.00	0.00	0.00
14,500.00	90.15	179.96	8,545.68	-6,487.45	-60.00	6,487.71	0.00	0.00	0.00
14,600.00	90.15	179.96	8,545.42	-6,587.45	-59.92	6,587.71	0.00	0.00	0.00
14,700.00	90.16	179.96	8,545.15	-6,687.45	-59.84	6,687.71	0.00	0.00	0.00
14,800.00	90.16	179.96	8,544.88	-6,787.45	-59.76	6,787.70	0.00	0.00	0.00
14,900.00	90.16	179.96	8,544.60	-6,887.45	-59.68	6,887.70	0.00	0.00	0.00
15,000.00	90.16	179.96	8,544.32	-6,987.45	-59.60	6,987.69	0.00	0.00	0.00
15,100.00	90.17	179.96	8,544.03	-7,087.45	-59.53	7,087.69	0.00	0.00	0.00
15,200.00	90.17	179.96	8,543.74	-7,187.45	-59.45	7,187.69	0.00	0.00	0.00
15,300.00	90.17	179.96	8,543.44	-7,287.44	-59.37	7,287.68	0.00	0.00	0.00
15,400.00	90.17	179.96	8,543.14	-7,387.44	-59.29	7,387.68	0.00	0.00	0.00
15,500.00	90.18	179.96	8,542.83	-7,487.44	-59.21	7,487.68	0.00	0.00	0.00
15,600.00	90.18	179.96	8,542.52	-7,587.44	-59.13	7,587.67	0.00	0.00	0.00

Oxy

Planning Report

Database: HOPSPP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: SALT RIDGE CC 20-17 FED COM
Well: SALT RIDGE CC 20-17 FED COM 22H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well SALT RIDGE CC 20-17 FED COM 22H
TVD Reference: DATUM @ 2960.40ft
MD Reference: DATUM @ 2960.40ft
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)
15,700.00	90.18	179.96	8,542.21	-7,687.44	-59.05	7,687.67	0.00	0.00	0.00
15,800.00	90.18	179.96	8,541.89	-7,787.44	-58.98	7,787.67	0.00	0.00	0.00
15,900.00	90.19	179.96	8,541.56	-7,887.44	-58.90	7,887.66	0.00	0.00	0.00
16,000.00	90.19	179.96	8,541.23	-7,987.44	-58.82	7,987.66	0.00	0.00	0.00
16,069.79	90.19	179.96	8,541.00	-8,057.23	-58.76	8,057.44	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SALT_RIDGE_22H_K - plan hits target center - Point	0.00	0.00	7,980.04	-320.64	-64.84	443,011.99	641,001.79	32° 13' 3.020881 N	104° 0' 39.819165
SALT_RIDGE_22H_B - plan hits target center - Point	0.00	0.00	8,541.00	-8,057.23	-58.76	435,276.03	641,007.86	32° 11' 46.466144 N	104° 0' 40.018425

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
5,625.00	5,625.00	0.00	0.00	STEP OUT DLS 2.00
6,125.52	6,122.98	-42.75	-8.64	HOLD 10 DEG TANGENT
7,505.61	7,482.06	-277.89	-56.19	DROP BACK TO VERTICAL DLS 2.00
8,006.14	7,980.04	-320.64	-64.84	BUILD CURVE 10 DEG / 100
8,906.14	8,553.00	-893.59	-64.39	LANDING POINT
16,069.79	8,541.00	-8,057.23	-58.76	TD at 16069.79



Occidental Oil and Gas Corporation
ATTN: Kacie Cruz
5 Greenway Plaza, Suite 110
Houston, TX 77046
713-350-4889
kacie_cruz@oxy.com

April 4, 2018

Mr. Leonard Lowe
New Mexico Oil Conservation Division
1220 South Francis Drive
Santa Fe, New Mexico 87505

RE: Application for Nonstandard Location—Engineering Justification
OXY USA Inc.
Salt Ridge CC 20-17 Federal Com #22H
W/2 SW/4 Section 17 and W/2 W/2 Section 20, T24S-R29E, Eddy County

Dear Mr. Lowe:

Oxy USA Inc. respectfully seeks approval for non-standard locations, increasing horizontal well spacing from 4 wells per section ("wps") to 6 wps to effectively develop the Bone Spring and Wolfcamp formations. It is Oxy's responsibility as a prudent operator to optimize well spacing for horizontal development and minimize reserves left in the ground. Increasing horizontal well spacing from 4 wps to 6 wps will optimize recoverable reserves. Any reduction in well spacing will result in untapped reserves being left in the reservoir resulting in waste of a resource that will not be developed otherwise.

Sincerely,

A handwritten signature in black ink, appearing to read "Kacie Cruz", written in a cursive style.

Kacie Cruz
Development Production Engineer

Lowe, Leonard, EMNRD

From: Sarah_Mitchell@oxy.com
Sent: Monday, April 30, 2018 9:55 AM
To: Lowe, Leonard, EMNRD
Subject: RE: NSL additional PN: Salt Ridge CC 20 - 17 Fed Com Well No. 22H
Attachments: SaltRidgeCC20-17FdCom22H-NSLPacket.pdf

Good morning Mr. Lowe,

Thank you for your email. Attached please find an electronic copy of the NSL for your reference.

I see that I accidentally omitted Section 17: Unit E from the legal description in my cover letter on Page 2 of the attached packet. I apologize for that error. However, please refer to the service list on Page 9 of the attached packet and you will see that Units E, F, K, L, M, and N in Section 17 have received notice of the application. Therefore, I believe notice has been properly served on the affected parties in accordance with NMAC 19.15.4.12 A. 2 (a)-(c).

Please review and advise if there is any additional information I can provide you. Please also advise when this NSL application is no longer on hold.

Thank you,
Sarah Mitchell

Sarah H. Mitchell | Regulatory Advisor
Occidental Oil & Gas Corp | 6001 Deauville Blvd. | Midland, Texas 79706
Office: (432)-699-4318 | Facsimile: (713)-985-8889

From: Lowe, Leonard, EMNRD <Leonard.Lowe@state.nm.us>
Sent: Friday, April 27, 2018 4:00 PM
To: Mitchell, Sarah H <Sarah_Mitchell@oxy.com>
Subject: [EXTERNAL] NSL additional PN: Salt Ridge CC 20 - 17 Fed Com Well No. 22H
Importance: High

Sarah Mitchell,

Your well stated above has a Top Perferation at 2316 FSL. That encroaches 324 feet to the north.

According to your submitted information pertaining to you NSL request. You did not notice "E" = SW4 NW4

Please provide all notice. Your application is pending full Public Notice.

Please advise. Your application is on hold, until all areas are properly noticed.

Leonard Lowe
Engineering Bureau
Oil Conservation Division
Energy Minerals and Natural Resources Department
1220 South St. Frances
Santa Fe, New Mexico 87004



Lowe, Leonard, EMNRD

From: Lowe, Leonard, EMNRD
Sent: Friday, April 27, 2018 3:00 PM
To: 'Sarah_Mitchell@oxy.com'
Subject: NSL additional PN: Salt Ridge CC 20 - 17 Fed Com Well No. 22H

Importance: High

Sarah Mitchell,

Your well stated above has a Top Perforation at 2316 FSL. That encroaches 324 feet to the north.

According to your submitted information pertaining to you NSL request. You did not notice "E" = SW4 NW4

Please provide all notice. Your application is pending full Public Notice.

Please advise. Your application is on hold, until all areas are properly noticed.

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/oed/>

From: [Lowe, Leonard, EMNRD](#)
To: ["Sarah_Mitchell@oxy.com"](#)
Cc: [Mike Bratcher \(mike.bratcher@state.nm.us\)](#); [Cordero, Gilbert, EMNRD](#); ["jglover@blm.gov"](#); ["scaffey@blm.gov"](#); ["rjsanche@blm.gov"](#); ["jstovall@blm.gov"](#); [Jones, William V, EMNRD](#); [McMillan, Michael, EMNRD](#); [Goetze, Phillip, EMNRD](#); [Dawson, Scott, EMNRD](#); ["lisa@rwbyram.com"](#)
Subject: APPROVED NSL-7706_OXY USA INC_Salt Ridge CC 20 17 Federal Com Well No. 22H_SEC 17 24S 29E
Date: Tuesday, May 15, 2018 9:41:00 AM
Importance: High

Ms. Sarah Mitchell,

The following administrative order has been issued and will soon be available on the Division's web site.

<http://ocdimage.emnrd.state.nm.us/Imaging/Default.aspx>

Applicant: OXY USA INC. [16696]

NSL-7706

WELL: Salt Ridge CC 20 17 Federal Com Well No. 22H [API #: 30-015-PENDING]

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/>