NS1-7770

,	/	/	1472		
RECEIVED: 9/	25//	8	REVIEWER: LRL	TYPE: NSL	PLEL 1826837779
			AE	BOVE THIS TABLE FOR OCD DIVISION USE O	Ули



NEW MEXICO OIL CONSERV	VATION DIVISION
- Geological & Engineerir	ng Bureau – (﴿ ﴿ ﴿ ﴾)
1220 South St. Francis Drive, San	ata Fe, NM 87505
ADMINISTRATIVE APPLICATION ADMINISTRATIVE ADMINISTRATI	TION CHECKLIST
THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLIC REGULATIONS WHICH REQUIRE PROCESSING AT TH	
Applicant: OXY USA INC.	OGRID Number: 16696
Well Name: WHOMPING WILLOW CC 15-16 STATE COM 44H	API: 30-015-45218
Pool: PURPLE SAGE WOLFCAMP	Pool Code: 98220
SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED BEL	
1) TYPE OF APPLICATION: Check those which apply for [A. Location – Spacing Unit – Simultaneous Dedication — NSL	
[11] Injection – Disposal – Pressure Increase – Enh WFX PMX SWD IPI 2) NOTIFICATION REQUIRED TO: Check those which app A. Offset operators or lease holders B. Royalty, overriding royalty owners, revenue of C. Application requires published notice D. Notification and/or concurrent approval by S	Iy. When the second shape of the second shape
 E. Notification and/or concurrent approval by E. F. Surface owner G. For all of the above, proof of notification or p. H. No notice required 3) CERTIFICATION: I hereby certify that the information so	publication is attached, and/or,
administrative approval is accurate and complete to understand that no action will be taken on this applic notifications are submitted to the Division.	the best of my knowledge. I also
Note: Statement must be completed by an individual wi	th managerial and/or supervisory capacity.
	08/21/2018
SARAH CHAPMAN	Date
Print or Type Name	
Thin or type realite	713-350-4997
	Phone Number
Sarah Chapman	SARAH_CHAPMAN@OXY.COM
Signature	e-mail Address



OXY USA Inc

5 Greenway Plaza, Suite 110 Houston, TX 77046-0521

September 21, 2018

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 Whomping Willow CC 15-16 State Com 44H – Purple Sage Wolfcamp Surface – 1365 FSL 420 FEL Unit I Sec 15 T24S R29E First Take Point – 940 FSL 100 FEL Unit I Sec 15 T24S R29E Last Take Point – 940 FSL 100 FWL Unit M Sec 16 T24S R29E Bottom Hole –940 FSL 20 FWL Unit M Sec 16 T25S R29E Eddy County, New Mexico

Dear Mr. Lowe:

OXY USA Inc. respectfully requests administrative approval of a non-standard location on the Whomping Willow CC 15-16 State Com #44H well, API Number-30-015-45218, Property Code 322294. The #44H well is proposed to be completed in the Purple Sage Wolfcamp pool, Pool Code 98220 which has special pool rules specifying the completed interval must be located 330 feet from the exterior boundary of the applicable spacing unit. The proposed completed interval is projected to be as follows:

Surface – 1365 FSL 420 FEL Unit I Sec 15 T24S R29E First Take Point – 940 FSL 100 FEL Unit I Sec 15 T24S R29E Last Take Point – 940 FSL 100 FWL Unit M Sec 16 T24S R29E Bottom Hole –940 FSL 20 FWL Unit M Sec 16 T25S R29E

The adjoining units towards which the unorthodox location encroaches are located in T24S R29E, Section 14 – Unit M and T24S-R30E Section 17 – Unit P.

Approval of the unorthodox completed 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 in each adjoining spacing unit in the same pool or formation located closer to the unorthodox well location than the minimum distance prescribed by applicable rule or order, 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 713-350-4997.

Sincerely,

Sarah Chapman Regulatory Specialist

Attachments

CC: NMOCD-Artesia, SLO-Santa Fe, Service List



OXY USA Inc

September 21, 2018

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Re:

Application for Administrative Approval of Non-Standard Location Whomping Willow CC 15-16 State Com 44H – Purple Sage Wolfcamp Surface – 1365 FSL 420 FEL Unit I Sec 15 T24S R29E First Take Point – 940 FSL 100 FEL Unit I Sec 15 T24S R29E Last Take Point – 940 FSL 100 FWL Unit M Sec 16 T24S R29E Bottom Hole –940 FSL 20 FWL Unit M Sec 16 T25S 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 19.15.4.12 (A)(2)(a), 19.15.15.9 (A) and 19.15.16.15 (B). The well is located as follows:

Surface – 1365 FSL 420 FEL Unit I Sec 15 T24S R29E First Take Point – 940 FSL 100 FEL Unit I Sec 15 T24S R29E Last Take Point – 940 FSL 100 FWL Unit M Sec 16 T24S R29E Bottom Hole –940 FSL 20 FWL Unit M Sec 16 T25S 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 at 713-350-4816 or myself at 713-350-4997.

Sincerely,

Sarah Chapman Regulatory Specialist OXY USA Inc.

Swah Chapnan

Attachments

Signature:

Title:

Date:

Printed Name:

Email Address:

Electronically filed by KELLEY MONTGOMERY

Phone: 713-366-5716

Manager Regulatory

8/24/2018

kelley_montgomery@oxy.com

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 Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe NM 87505

August 1, 2011

Permit 255684

	ncis Dr., Santa Fe, NM '6-3470 Fax:(505) 476					, ai iu	. 0, 1411	,, 0						
		APPLICA	ATION	FOR PERM	IIT TO DI	RILL, RE	E-ENTER, DEE	PEN	I, PLUGBACI	K, OR AD	D A ZC	NE		
	me and Address Y USA INC										2. OG	RID Number 16696		
	. Box 4294 uston , TX 77210-4	294									3. AP	Number 30-015-452	18	
4. Property Cod 322	de 294		5. Prop	erty Name WHOMPING	3 WILLOW	'CC 15 16	STATE COM				6. We	II No. 044H		
						7. Su	rface Location							
UL - Lot	Section 15	Township 24	s	Range 29E	Lot I	dn 	Feet From 1365		N/S Line S	Feet Fron	n 420	E/W Line E	County	Eddy
					8. P	roposed	Bottom Hole Loc	cation	1					
UL - Lot	Section 16	Township 2	:48	Range 298	Lo	t Idn M	Feet From 94		N/S Line S	Feet Fro	om 20	E/W Line W	County	Eddy
				•	•	9 Po	ol Information			•		•		
PURPLE SAC	SE;WOLFCAMP (G	AS)				0.10	or mormation					98220		
						Additions	al Well Information	าก						
11. Work Type		12. Well Ty			13. Cable/				ease Type	15.		evel Elevation		
	New Well OIL 16. Multiple 17. Proposed Depth				18. Formation 19. Cont			State		29 Spud Dat	943			
16. Multiple N			ea Depth 21302	1		tion Wolfcamp	D	19.0	ontractor	20.		e 0/24/2018		
Depth to Groun	id water				Distance fr	om nearest	fresh water well			Dis	tance to ne	earest surface water	•	
X We will be u	using a closed-loo	p system in li	eu of lir	ned pits										
Туре	Hole Size	Casin	g Size	····	21. Prop Casing Weig		sing and Cemen	t Proç ng Dep		Sacks	of Cement		Estimated	TOC
Surf	14.75		.75		40.5	311011		400	7.11		26		0	,,,,
Int1	9.875		325		26.4		_	0360			118		0	
Prod	6.75	5	.5		20		2	1302		8	139		9860	
					Casing/Ce	ment Pro	gram: Additiona	Com	nments					
will be run ar	ising/Cementing Pr nd 2nd stage cance ogram: 13-5/8" 5M	elled. Propose	d Mud F	Program: 0-400	o' Water-B	ased Mud	l - 400-10360' Sa	aturate	ed Brine-Based	or Oil-Bas	ed Mud -	10360'-TD Wate	er-Based or	
					22. Prop	osed Blo	wout Prevention	n Prog	gram					
	Туре			V	Vorking Press	sure			Test Pressu	re		Ma	nufacturer	
	Annular		↓		5000				5000					
	Double Ram				5000				5000					
knowledgé a	ify I have complied	Ū		•			ĺ		0	IL CONSE	RVATION	DIVISION		

Approved By:

Approved Date:

Title:

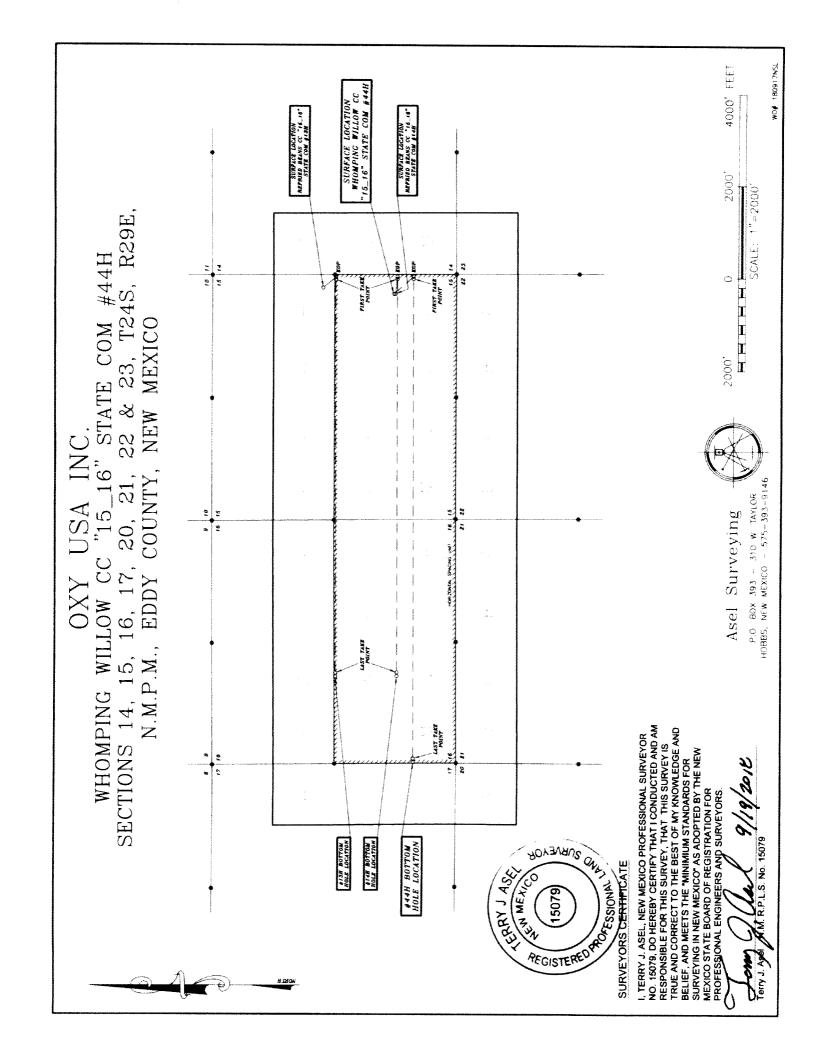
Raymond Podany

Expiration Date: 8/28/2020

Geologist

8/28/2018

Conditions of Approval Attached



Zintick L.
SACH K Franch Dr., Mabba, Niel 82248
Prams (279) 393-4141 Fas. (379) 393-4278
Dentet B.
11 E Fran St., Actonia, Niel 85218
Proces (275) 784-1201 Fas. (277) 788-4728
Zintick B.
Mill Sach Stanes Band, Anim, Niel 87219
Prace (259) 384-137 Fas. (269) 384-4178
Dintet IV.
1208 E B. Pramsis Dr., Sace Ps., Niel 87205

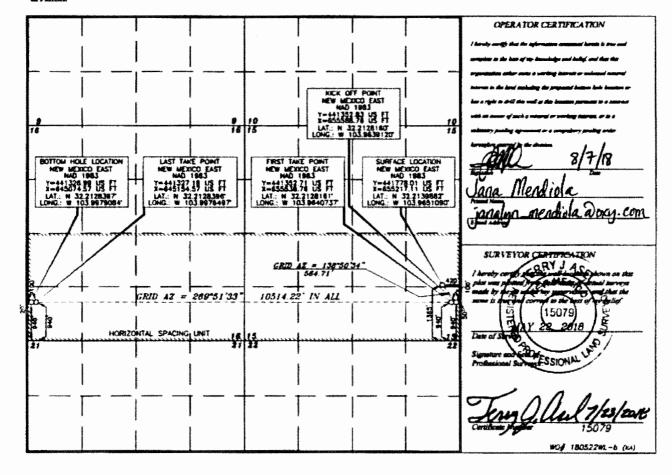
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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

☐ AMENDED REPORT

		V	VELL LOCATION	ON AND	ACE	REAGE D.	EDICATIO	N PLAT			
30-01	5-17	l Number	9822	Code D		Purple	Sage L	Volfcany	ρ		
Property Code Property Name Well Number WHOMPING WILLOW CC "15_16" STATE COM 44H											
16G	RID Na.				Operator USA	r Name A. INC.					Elevation 942.8'
				Surfa	ice Lo	ocation					
UL or lot sea	Sections	Township	Kange		Let lide	Feet from the	North/South line	Feet from the	East Wes	# line	County
I	15	24 SOUTH	29 EAST, N.	u.p.u		1365	SOUTH	420'	EAS	T	EDDY
			Bottom Hol	e Locatio	n If I	Different F	rom Surfac	c			
UL or lot no.	Section	Township	Range		Lot Ide	Foot from the	North South line	Fact from the	East Wes	et line	County
¥	16	24 SOUTH	29 EAST, N.	M.P.M		940'	SOUTH	20'	VEST	<i>T</i>	EDDY
Dedicated 640		Joint or Infili	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.



Intent Y As Drilled							
API#							
30 · 015 - 45218 Operator Name:	Pro	perty Name	:				Well Number
Dyy USA Inc.	M	nomping w	illow CC	15-14	State	com	44H
•		.]					
W. L. Offin, L. J. (WOD)							
Kick Off Point (KOP)							
UL Section Township Range Lot 16 245 246	Feet 940	From N/S SOUTH	Feet 50	From	se/w	County EDD	N
132.2/160	Longitude	143912	2			NAD	
J P. 1/12/140	-103.	1439112				PAU	· <i>V</i> 3
First Take Point (FTP)							
UL Section Township Range Lot 245 245	Feet 940	From N/S SOUTH	Feet 106		E/W	County	7
Latitude	Longitude	100111	100	EF	+57	NAD	
32.2128161	-103.	964073	7			NAI	8J
Last Take Point (LTP)							
UL Section Township Range Lot H 16 245 29E	- 1	om N/S Feet		I E/W	Count	EDDY	
Latitude	Longitude	427 / 12	7		NAD		
32.2128394	- [03.	997649	1			1A183)
Is this well the defining well for the Horiz	ontal Spacir	ng Unit? [
Is this well an infill well?							
If infill is yes please provide API if availab Spacing Unit.	le, Operatoi	Name and v	vell numbe	er for C	efinin	g well fo	r Horizontal
API#							
Operator Name:	Pro	perty Name	:				Well Number

KZ 06/29/2018

Application Non-Standard Location - Service List OXY USA Inc.

Whomping Willow CC 15-16 State Com #44H

New Mexico Oil Conservation Division 811 S. First St. Artesia, NM 88210 7018 0360 0000 0626 7503

New Mexico Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 7018 0680 0000 1684 5075

New Mexico State Land Office P. O. Box 1148 Santa Fe, NM 87504 7018 0680 0000 1684 5082

T24S-R29E 1. Section 14 - Unit M

Devon Energy Production Company, LP 20 N Broadway Oklahoma City, OK 73102 7018 0680 0000 1684 5099

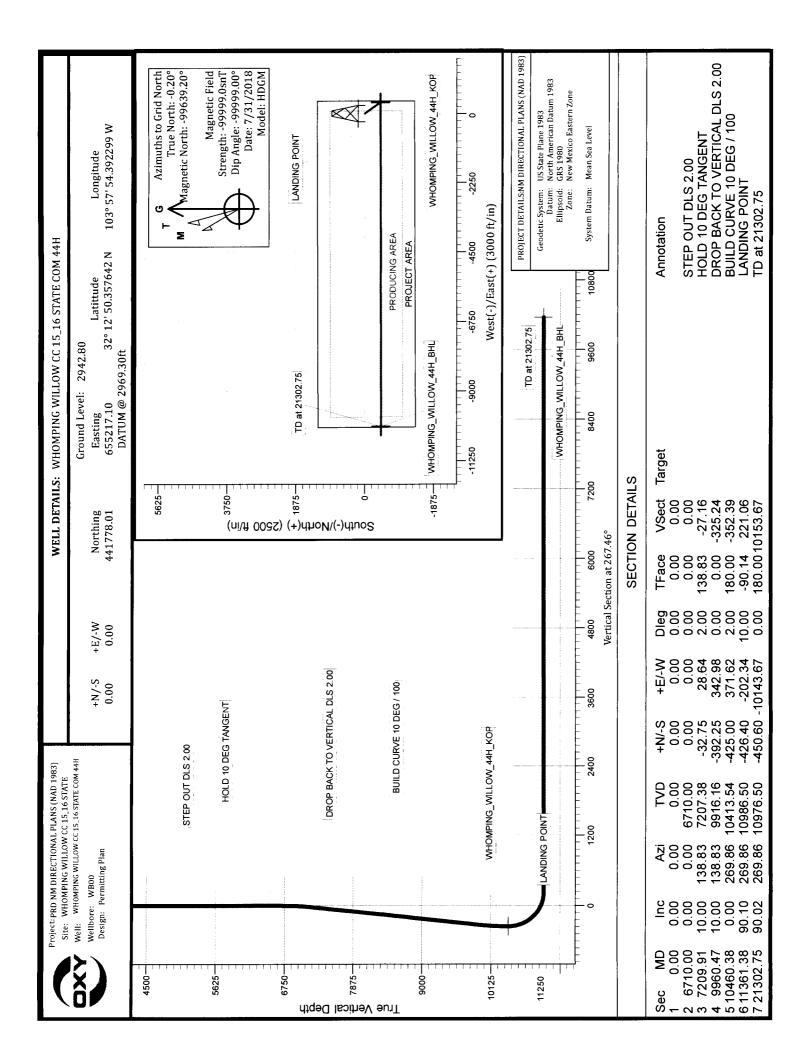
T24S-R29E // Section 16 - Unit P

Oxy USA Inc. P.O. Box 4294 Houston, TX 77210

Scrah

Copies of this application were mailed to the following individuals, companies and organizations on or before September 21, 2018.

> Sarah Chapman OXY USA Inc.



OXY

PRD NM DIRECTIONAL PLANS (NAD 1983) WHOMPING WILLOW CC 15_16 STATE WHOMPING WILLOW CC 15_16 STATE COM 44H

WB00

Plan: Permitting Plan

Standard Planning Report

31 July, 2018

Oxy

Planning Report

Database:

HOPSPP

Local Co-ordinate Reference:

Well WHOMPING WILLOW CC 15_16 STATE

COM 44H

Company: Project: Site:

Well:

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983) WHOMPING WILLOW CC 15_16 STATE

WHOMPING WILLOW CC 15_16 STATE COM

44H **WB00**

Wellbore: Permitting Plan Design:

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:**

DATUM @ 2969.30ft Minimum Curvature

DATUM @ 2969.30ft

Project

Site

Well

PRD NM DIRECTIONAL PLANS (NAD 1983)

Map System:

US State Plane 1983 North American Datum 1983 System Datum:

Mean Sea Level

Using geodetic scale factor

Geo Datum: Map Zone:

New Mexico Eastern Zone

WHOMPING WILLOW CC 15, 16 STATE

Site Position: From:

Мар

Northing: Easting:

441,778.01 usft 655,217.10 usft

Latitude: Longitude:

32° 12' 50.357642 N 103° 57' 54.392299 W

Position Uncertainty:

0.00 ft Slot Radius:

13.200 in

Grid Convergence:

0.20°

Well Position

+N/-S +E/-W

WHOMPING WILLOW CC 15 16 STATE COM 44H 0.00 ft 0.00 ft

Northing: Easting:

441,778.01 usft 655,217.10 usft

Latitude: Longitude:

32° 12' 50.357642 N 103° 57' 54.392299 W

-99,999

Position Uncertainty

0.00 ft

HDGM

Wellhead Elevation:

7/31/2018

0.00 ft

Ground Level:

-99,999.00

2,942.80 ft

Wellbore

WB00

Model Name Magnetics

Sample Date

Declination (°)

-99,639.00

Dip Angle

Field Strength (nT)

Permitting Plan

Design **Audit Notes:**

Version:

Phase:

PROTOTYPE

Tie On Depth:

0.00

Vertical Section:

Depth From (TVD) (ft)

0.00

+N/-S (ft) 0.00

+E/-W (ft) 0.00

Direction 267.46

Measured Depth (ft)	Inclination (")	Azimuth	Vertical Depth (ft)	+N/-S (II)	+E/-W (ft)	Dogleg Rate (°/100ft)	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	
6,710.00	0.00	0.00	6,710.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,209.91	10.00	138.83	7,207.38	-32.75	28.64	2.00	2.00	0.00	138.83	
9,960.47	10.00	138.83	9,916.16	-392.25	342.98	0.00	0.00	0.00	0.00	
10,460.38	0.00	269.86	10,413.54	-425.00	371.62	2.00	-2.00	0.00	180.00	WHOMPING_WIL
11,361.38	90.10	269.86	10,986.50	-426.40	-202.34	10.00	10.00	0.00	-90.14	
21,302.75	90.02	269.86	10,976.50	-450.60	-10,143.67	0.00	0.00	0.00	180.00	WHOMPING WII

Оху Planning Report

Database: Company:

Project:

Site:

HOPSPP

ENGINEERING DESIGNS PRD NM DIRECTIONAL PLANS (NAD 1983) WHOMPING WILLOW CC 15_16 STATE

WHOMPING WILLOW CC 15_16 STATE COM 44H Well:

Wellbore: WB00

Permitting Plan Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well WHOMPING WILLOW CC 15_16 STATE COM 44H

DATUM @ 2969.30ft DATUM @ 2969.30ft

Grid

Minimum Curvature

			100						
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
	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00									
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
	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00									
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
	0.00	0.00	2.800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00									
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
	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00									
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

Oxy **Planning Report**

Database:

Well:

HOPSPP

ENGINEERING DESIGNS

Company: Project: PRD NM DIRECTIONAL PLANS (NAD 1983) WHOMPING WILLOW CC 15_16 STATE Site:

WHOMPING WILLOW CC 15_16 STATE COM

44H **WB00** Wellbore: Design: Permitting Plan Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well WHOMPING WILLOW CC 15_16 STATE COM 44H

DATUM @ 2969.30ft DATUM @ 2969.30ft

Grid

Minimum Curvature

ned 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)
5,200.00	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
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
	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00 5,700.00						0.00	0.00	0.00	0.00
	0.00	0.00	5,700.00	0.00	0.00			0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00		
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,710.00	0.00	0.00	6,710.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	1.80	138.83	6,799.99	-1.06	0.93	-0.88	2.00	2.00	0.00
							2.00	2.00	0.00
6,900.00	3.80	138.83	6,899.86	-4.74	4.15	-3.93		2.00	0.00
7,000.00	5.80	138.83	6,999.51	-11.04	9.65	-9.15	2.00 2.00		
7,100.00	7.80	138.83	7,098.80	-19.95	17.45	-16.54	2.00	2.00 2.00	0.00
7,200.00 7,209.91	9.80 10.00	138.83 138.83	7,197.61 7,207.38	-31.47 -32.75	27.52 28.64	-26.09 -27.16	2.00	2.00	0.00
7,300.00	10.00	138.83	7,296.10	-44.53	38.93	-36.92	0.00	0.00	0.00
7,400.00	10.00	138.83	7,394.58	-57.60	50.36	-47.76	0.00	0.00	0.00
7,500.00	10.00	138.83	7,493.06	-70.67	61.79	-58.59	0.00	0.00	0.00
7,600.00	10.00	138.83	7,591.54	-83.74	73.22	-69.43	0.00	0.00	0.00
7,700.00	10.00	138.83	7,690.02	-96.81	84.65	-80.27	0.00	0.00	0.00
7,800.00	10.00	138.83	7,788.51	-109.88	96.08	-91.10	0.00	0.00	0.00
7,900.00	10.00	138.83	7,886.99	-122.95	107.50	-101.94	0.00	0.00	0.00
8,000.00	10.00	138.83	7,985.47	-136.02	118.93	-112.78	0.00	0.00	0.00
8,100.00	10.00	138.83	8,083.95	-149.09	130.36	-123.62	0.00	0.00	0.00
8,200.00	10.00	138.83	8,182.43	-162.16	141.79	-134.45	0.00	0.00	0.00
8,300.00	10.00	138.83	8,280.91	-175.23	153.22	-145.29	0.00	0.00	0.00
8,400.00	10.00	138.83	8,379.39	-188.30	164.65	-156.13	0.00	0.00	0.00
8,500.00	10.00	138.83	8,477.87	-201.37	176.07	-166.96	0.00	0.00	0.00
8,600.00	10.00	138.83	8,576.36	-214.44	187.50	-177.80	0.00	0.00	0.00
8,700.00	10.00	138.83	8,674.84	-227.51	198.93	-188.64	0.00	0.00	0.00
8,800.00	10.00	138.83	8,773.32	-240.58	210.36	-199.48	0.00	0.00	0.00
8,900.00	10.00	138.83	8,871.80	-253.65	221.79	-210.31	0.00	0.00	0.00
9,000.00	10.00	138.83	8,970.28	-266.72	233.22	-221.15	0.00	0.00	0.00
9,100.00	10.00	138.83	9,068.76	-279.79	244.64	-231.99	0.00	0.00	0.00
9,200.00	10.00	138.83	9,167.24	-292.86	256.07	-242.82	0.00	0.00	0.00
9,300.00	10.00	138.83	9,265.72	-305.93	267.50	-253.66	0.00	0.00	0.00
9,400.00	10.00	138.83	9,364.21	-319.00	278.93	-264.50	0.00	0.00	0.00
9,500.00	10.00	138.83	9,462.69	-332.07	290.36	-275.33	0.00	0.00	0.00
9,600.00	10.00	138.83	9,561.17	-345.14	301.79	-275.33	0.00	0.00	0.00
9,700.00	10.00	138.83	9,659.65	-358.21	313.21	-297.01	0.00	0.00	0.00
9,800.00	10.00	138.83	9,758.13	-371.28	324.64	-307.85	0.00	0.00	0.00
9,900.00	10.00	138.83	9,856.61	-384.35	336.07	-318.68	0.00	0.00	0.00

9,960.47 10,000.00

10.00

9.21

138.83 138.83

9,916.16 9,955.14

-392.25

-397.22

342.98

347.32

-325.24

-329.35

0.00

0.00

0.00

-2.00

0.00

2.00

Оху Planning Report

Database:

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Local Co-ordinate Reference:

Well WHOMPING WILLOW CC 15_16 STATE COM 44H

Company: **ENGINEERING DESIGNS** PRD NM DIRECTIONAL PLANS (NAD 1983) Project: WHOMPING WILLOW CC 15_16 STATE Site:

TVD Reference: MD Reference: North Reference: DATUM @ 2969.30ft DATUM @ 2969.30ft

WHOMPING WILLOW CC 15_16 STATE COM 44H Well:

Grid Survey Calculation Method:

Minimum Curvature

WB00 Wellbore:

Permitting Plan Design:

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)
10,100.00	7.21	138.83	10,054.11	-407.96	356.72	-338.26	2.00	-2.00	0.00
10,200.00	5.21	138.83	10,153.52	-416.10	363.84	-345.01	2.00	-2.00	0.00
10,300.00	3.21	138.83	10,253.24	-421.62	368.66	-349.59	2.00	-2.00	0.00
10,400.00	1.21	138.83	10,353.17	-424.52	371.20	-352.00	2.00	-2.00	0.00
,					371.62	-352.39	2.00	-2.00	0.00
10,460.38	0.00	269.86	10,413.54	-425.00					
10,500.00	3.96	269.86	10,453.13	-425.01	370.25	-351.02	10.00	10.00	0.00
10,600.00	13.96	269.86	10,551.78	-425.04	354.69	-335.48	10.00	10.00	0.00
10,700.00	23.96	269.86	10,646.24	-425.12	322.24	-303.06	10.00	10.00	0.00
10,800.00	33.96	269.86	10.733.62	-425.24	273.88	-254.74	10.00	10.00	0.00
10,900.00	43.96	269.86	10,811.28	-425.39	211.08	-191.99	10.00	10.00	0.00
11,000.00	53.96	269.86	10,876.85	-425.58	135.74	-116.72	10.00	10.00	0.00
11,100.00	63.96	269.86	10,928.35	-425.79	50.17	-31.23	10.00	10.00	0.00
11,200.00	73.96	269.86	10,964.20	-426.01	-43.04	61.91	10.00	10.00	0.00
11,300.00	83.96	269.86	10,983.32	-426.25	-141.07	159.85	10.00	10.00	0.00
11,361.38	90.10	269.86	10,986.50	-426.40	-202.34	221.06	10.00	10.00	0.00
11,400.00	90.10	269.86	10,986.43	-426.49	-240.96	259.65	0.00	0.00	0.00
11,500.00	90.10	269.86	10,986.26	-426.74	-340.96	359.56	0.00	0.00	0.00
11,600.00	90.10	269.86	10,986.08	-426.98	-440.96	459.47	0.00	0.00	0.00
	90.10	269.86	10,985.91	-427.22	-540.96	559.38	0.00	0.00	0.00
11,700.00									
11,800.00	90.10	269.86	10,985.75	-427.47	-640.96	659.29	0.00	0.00	0.00
11,900.00	90.10	269.86	10,985.58	-427.71	-740.96	759.21	0.00	0.00	0.00
12.000.00	90.09	269.86	10,985.41	-427.95	-840.96	859.12	0.00	0.00	0.00
12,100.00	90.09	269.86	10.985.25	-428.20	-940.95	959.03	0.00	0.00	0.00
12,200.00	90.09	269.86	10,985.09	-428.44	-1,040.95	1,058.94	0.00	0.00	0.00
12,300.00	90.09	269.86	10,984.92	-428.68	-1,140.95	1.158.85	0.00	0.00	0.00
12,400.00	90.09	269.86	10,984.76	-428.93	-1,240.95	1,258.77	0.00	0.00	0.00
							0.00	0.00	0.00
12,500.00	90.09	269.86	10,984.61	-429.17	-1,340.95	1,358.68			
12,600.00	90.09	269.86	10,984.45	-429.41	-1,440.95	1,458.59	0.00	0.00	0.00
12,700.00	90.09	269.86	10,984.29	-429.66	-1,540.95	1,558.50	0.00	0.00	0.00
12,800.00	90.09	269.86	10,984.14	-429.90	-1,640.95	1,658.41	0.00	0.00	0.00
12,900.00	90.09	269.86	10,983.99	-430.14	-1,740.95	1,758.33	0.00	0.00	0.00
13,000.00	90.09	269.86	10,983.84	-430.39	-1,840.95	1,858.24	0.00	0.00	0.00
13,100.00	90.09	269.86	10,983.69	-430.63	-1,940.95	1,958.15	0.00	0.00	0.00
13,200.00	90.08	269.86	10,983.54	-430.87	-2,040.95	2,058.06	0.00	0.00	0.00
13,300.00	90.08	269.86	10,983.39	-431.12	-2,140.95	2,157.97	0.00	0.00	0.00
13,400.00	90.08	269.86	10,983.25	-431.36	-2,240.95	2,257.88	0.00	0.00	0.00
13,500.00	90.08	269.86	10,983.10	-431.61 431.65	-2,340.95	2,357.80	0.00	0.00	0.00
13,600.00	90.08	269.86	10,982.96	-431.85	-2,440.95	2,457.71	0.00	0.00	0.00
13,700.00	90.08	269.86	10,982.82	-432.09	-2,540.95	2,557.62	0.00	0.00	0.00
13,800.00	90.08	269.86	10,982.68	-432.34	-2,640.95	2,657.53	0.00	0.00	0.00
13,900.00	90.08	269.86	10,982.55	-432.58	-2,740.95	2,757.44	0.00	0.00	0.00
14,000.00	90.08	269.86	10,982.41	-432.82	-2,840.95	2,857.36	0.00	0.00	0.00
14,100.00	90.08	269.86	10,982.28	-433.07	-2,940.95	2,957.27	0.00	0.00	0.00
14,200.00	90.08	269.86	10,982.14	-433.31	-3,040.95	3,057.18	0.00	0.00	0.00
14,300.00	90.07	269.86	10,982.01	-433.55	-3,140.95	3,157.09	0.00	0.00	0.00
14,400.00	90.07	269.86	10,981.88	-433.80	-3,240.95	3,257.00	0.00	0.00	0.00
14,500.00	90.07	269.86	10,981.75	-434.04	-3,340.95	3,356.92	0.00	0.00	0.00
14,600.00	90.07	269.86	10,981.63	-434.28	-3,440.94	3,456.83	0.00	0.00	0.00
14,700.00	90.07	269.86	10,981.50	-434.53	-3,540.94	3,556.74	0.00	0.00	0.00
14,800.00	90.07	269.86	10,981.38	-434.77	-3,640.94	3,656.65	0.00	0.00	0.00
14,900.00	90.07	269.86	10,981.25	-435.01	-3,740.94	3,756.56	0.00	0.00	0.00
15,000.00	90.07	269.86	10,981.13	-435.26	-3,840.94	3,856.47	0.00	0.00	0.00

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DATUM @ 2969.30ft DATUM @ 2969.30ft

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Minimum Curvature

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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)
15,100.00	90.07	269.86	10,981.01	-435.50	-3,940.94	3,956.39	0.00	0.00	0.00
15,200.00	90.07	269.86	10,980.89	-435.74	-4,040.94	4,056.30	0.00	0.00	0.00
15,300.00	90.07	269.86	10,980.78	-435.99	-4,140.94	4,156.21	0.00	0.00	0.00
15,400.00	90.07	269.86	10,980.66	-436.23	-4,240.94	4,256.12	0.00	0.00	0.00
15,500.00	90.06	269.86	10,980.55	-436.47	-4,340.94	4,356.03	0.00	0.00	0.00
15,600.00	90.06	269.86	10,980.44	-436.72	-4,440.94	4,455.95	0.00	0.00	0.00
15,700.00	90.06	269.86	10,980.33	-436.96	-4,540.94	4,555.86	0.00	0.00	0.00
15,800.00	90.06	269.86	10,980.22	-437.20	-4,640.94	4,655.77	0.00	0.00	0.00
15,900.00	90.06	269.86	10,980.11	-437.45	-4,740.94	4,755.68	0.00	0.00	0.00
16,000.00	90.06	269.86	10,980.00	-437.69	-4,840.94	4,855.59	0.00	0.00	0.00
16,100.00	90.06	269.86	10,979.90	-437.93	-4,940.94	4,955.51	0.00	0.00	0.00
16,200.00	90.06	269.86	10,979.79	-438.18	-5,040.94	5,055.42	0.00	0.00	0.00
				-438.42		5,155.33	0.00	0.00	0.00
16,300.00	90.06	269.86	10,979.69		-5,140.94				
16,400.00	90.06	269.86	10,979.59	-438.66	-5,240.94	5,255.24	0.00	0.00	0.00
16,500.00	90.06	269.86	10,979.49	-438.91	-5,340.94	5,355.15	0.00	0.00	0.00
16,600.00	90.06	269.86	10,979.40	-439.15	-5,440.94	5,455.07	0.00	0.00	0.00
16,700.00	90.05	269.86	10,979.30	-439.39	-5,540.94	5,554.98	0.00	0.00	0.00
16,800.00	90.05	269.86	10,979.21	-439.64	-5,640.94	5,654.89	0.00	0.00	0.00
16,900.00	90.05	269.86	10,979.11	-439.88	-5,740.94	5,754.80	0.00	0.00	0.00
17,000.00	90.05	269.86	10,979.02	-440.12	-5.840.94	5,854.71	0.00	0.00	0.00
17,100.00	90.05	269.86	10,978.93	-440.37	-5,940.94	5,954.63	0.00	0.00	0.00
17,200.00	90.05	269.86	10,978.84	-440.61	-6,040.94	6,054.54	0.00	0.00	0.00
17,300.00	90.05	269.86	10,978.76	-440.85	-6,140.94	6,154.45	0.00	0.00	0.00
17,400.00	90.05	269.86	10,978.67	-441.10	-6,240.94	6,254.36	0.00	0.00	0.00
	90.05	269.86	10,978.59	-441.34	-6,340.93	6,354.27	0.00	0.00	0.00
17,500.00			,				0.00	0.00	0.00
17,600.00	90.05	269.86	10,978.50	-441.58	-6,440.93	6,454.19			
17,700.00	90.05	269.86	10,978.42	-441.83	-6,540.93	6,554.10	0.00	0.00	0.00
17,800.00	90.05	269.86	10,978.34	-442.07	-6,640.93	6,654.01	0.00	0.00	0.00
17,900.00	90.04	269.86	10,978.27	-442.31	-6,740.93	6,753.92	0.00	0.00	0.00
18,000.00	90.04	269.86	10,978.19	-442.56	-6,840.93	6,853.83	0.00	0.00	0.00
18,100.00	90.04	269.86	10,978.11	-442.80	-6,940.93	6,953.75	0.00	0.00	0.00
18,200.00	90.04	269.86	10,978.04	-443.04	-7,040.93	7,053.66	0.00	0.00	0.00
18,300.00	90.04	269.86	10,977.97	-443.29	-7,140.93	7,153.57	0.00	0.00	0.00
18,400.00	90.04	269.86	10,977.90	-443.53	-7,240.93	7,253.48	0.00	0.00	0.00
18,500.00	90.04	269.86	10,977.83	-443.77	-7,340.93	7,353.39	0.00	0.00	0.00
18,600.00	90.04	269.86	10,977.76	-444.02	-7,440.93	7,453.30	0.00	0.00	0.00
18,700.00	90.04	269.86	10,977.70	-444.26	-7,540.93	7,553.22	0.00	0.00	0.00
18,800.00	90.04	269.86	10,977.63	-444.50	-7,640.93	7,653.13	0.00	0.00	0.00
18,900.00	90.04	269.86	10,977.57	-444.75	-7,740.93	7,753.04	0.00	0.00	0.00
19,000.00	90.03	269.86	10,977.51	-444.99	-7,840.93	7,852.95	0.00	0.00	0.00
19,100.00	90.03	269.86	10,977.45	-445.23	-7,940.93	7,952.86	0.00	0.00	0.00
19,200.00	90.03	269.86	10,977.39	-445.48	-8,040.93	8,052.78	0.00	0.00	0.00
19,300.00	90.03	269.86	10,977.33	-445.72	-8,140.93	8,152.69	0.00	0.00	0.00
19,400.00	90.03	269.86	10,977.28	-445.96	-8,240.93	8,252.60	0.00	0.00	0.00
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19,500.00	90.03	269.86	10,977.22	-446.21	-8,340.93	8,352.51	0.00	0.00	0.00
19,600.00	90.03	269.86	10,977.17	-446.45	-8,440.93	8,452.42	0.00	0.00	0.00
19,700.00	90.03	269.86	10,977.12	-446.69	-8,540.93	8,552.34	0.00	0.00	0.00
19,800.00	90.03	269.86	10,977.07	-446.94	-8,640.93	8,652.25	0.00	0.00	0.00
19,900.00	90.03	269.86	10,977.02	-447.18	-8,740.93	8,752.16	0.00	0.00	0.00
20,000.00	90.03	269.86	10,976.97	-447.42	-8,840.93	8,852.07	0.00	0.00	0.00
20,100.00	90.03	269.86	10,976.93	-447.67	-8,940.93	8,951.98	0.00	0.00	0.00
20,200.00	90.02	269.86	10,976.88	-447.91	-9,040.93	9,051.90	0.00	0.00	0.00

Oxy Planning Report

Well WHOMPING WILLOW CC 15_16 STATE COM 44H Local Co-ordinate Reference: Database: HOPSPP **ENGINEERING DESIGNS** DATUM @ 2969.30ft DATUM @ 2969.30ft Company: TVD Reference: PRD NM DIRECTIONAL PLANS (NAD 1983) WHOMPING WILLOW CC 15_16 STATE Project: MD Reference: Site: North Reference: WHOMPING WILLOW CC 15_16 STATE COM Well: Survey Calculation Method: Minimum Curvature Wellbore: **WB00** Permitting Plan Design:

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)
20,300.00	90.02	269.86	10,976.84	-448.15	-9,140.93	9,151.81	0.00	0.00	0.00
20,400.00	90.02	269.86	10,976.80	-448.40	-9,240.93	9,251.72	0.00	0.00	0.00
20,500.00	90.02	269.86	10,976.76	-448.64	-9,340.93	9.351.63	0.00	0.00	0.00
20,600.00	90.02	269.86	10,976.72	-448.88	-9,440.93	9,451.54	0.00	0.00	0.00
20,700.00	90.02	269.86	10,976.69	-449.13	-9,540.92	9,551.46	0.00	0.00	0.00
20,800.00	90.02	269.86	10,976.65	-449.37	-9,640.92	9,651.37	0.00	0.00	0.00
20,900.00	90.02	269.86	10,976.62	-449.61	-9,740.92	9,751.28	0.00	0.00	0.00
21,000.00	90.02	269.86	10,976.59	-449.86	-9,840.92	9,851.19	0.00	0.00	0.00
21,100.00	90.02	269.86	10,976.56	-450.10	-9,940.92	9,951.10	0.00	0.00	0.00
21,200.00	90.02	269.86	10,976.53	-450.35	-10,040.92	10,051.02	0.00	0.00	0.00
21,300.00	90.02	269.86	10,976.50	-450.59	-10,140.92	10,150.93	0.00	0.00	0.00
21,302.75	90.02	269.86	10,976.50	-450.60	-10,143.67	10,153.68	0.03	-0.03	0.00

Design Targets												
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir.	TVD (ft)	+N/-S (II)	*E/-W (II)	Northing (usft)	Easting (usft)	Latitude	Longitude			
WHOMPING_WILLO - plan hits target ce - Point	0.00 nter	0.00	10,413.54	-425.00	371.62	441,353.04	655,588.69	32° 12′ 46.139573 N	103° 57' 50.083911			
WHOMPING_WILLO - plan hits target ce - Point	0.00 enter	0.00	10,976.50	-450.60	-10,143.67	441,327.45	645,074.22	32° 12′ 46.227507 N	103° 59' 52.474346			

Measured Depth (ft)	Vertical	Local Coordinates		
	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
6,710.00	6,710.00	0.00	0.00	STEP OUT DLS 2.00
7,209.91	7,207.38	-32.75	28.64	HOLD 10 DEG TANGENT
9,960.47	9,916.16	-392.25	342.98	DROP BACK TO VERTICAL DLS 2.00
10,460.38	10,413.54	-425.00	371.62	BUILD CURVE 10 DEG / 100
11,361.38	10,986.50	-426.40	-202.34	LANDING POINT
21,302.75	10,976.50	-450.60	-10,143.67	TD at 21302.75



Occidental Oil and Gas Corporation
ATTN: Jennifer James
5 Greenway Plaza, Suite 110
Houston, TX 77046
713-350-4889
jennifer james@oxy.com

September 21, 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.

Whomping Willow CC 15-16 State Com 44H

SWSW Section 14 and SESE Section 17, T24S-R29E, Eddy County

Dear Mr. Lowe:

Oxy USA Inc. respectfully seeks approval for a non-standard location, decreasing the first and last take point for Whomping Willow CC 15-16 State Com 44H in the Wolfcamp formation of the Purple Sage Pool from 330 feet to 100 feet. It is Oxy's responsibility as a prudent operator to maximize lateral length and minimize reserves left in the ground. Decreasing the first and last take point will increase this wells effective lateral length by 460 feet, and increase the estimated ultimate recovery of the well by approximately 5%. Any increase in first and last take point would result in untapped reserves left in the reservoir, and waste of a resource that would not be developed otherwise.

Sincerely,

Jennifer James

Development Engineer

1

Application Non-Standard Location - Service List OXY USA Inc.
Whomping Willow CC 15-16 State Com #44H

New Mexico Oil Conservation Division 811 S. First St. Artesia, NM 88210 7018 0360 0000 0626 7503 New Mexico Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 7018 0680 0000 1684 5075 New Mexico State Land Office P. O. Box 1148 Santa Fe, NM 87504 7018 0680 0000 1684 5082

T24S-R29E

No Existing Spacing Unit: Section 14 - Unit K, L, M and N

Devon Energy Production Company, LP 20 N Broadway Oklahoma City, OK 73102 7018 0680 0000 1684 5099

T24S-R29E

Exisitng Spacing Unit: Section 17 - Units A, B, G, H, I, J, O and P

T24S-R29E

Existing Spacing Unit: Section 8 - Units A, B, G, H, I, J, O and P

GD McKinney Investments LP Attn: Gary D. McKinney 300 N Marienfield, Ste 1100 Midland, TX 79701 7017 0530 0000 6129 0384 Leopard Petroleum LP P.O. Box 51440 Midland, TX 79710 7017 0530 0000 6129 0391 Beryl Oil and Gas, LP P.O. Box 51440 Midland, TX 79710 7017 0530 0000 6129 0407

B. Jack Reed 506 Charismatic Midland, TX 79705 7017 0530 0000 6129 0414 DRW Energy, LLC 400 W. Illinois, Suite 970 Midland, TX 79701 7017 0530 0000 6129 0421 M'lissa L. McKinney Schoening 301 Sir Barton Parkway Midland, TX 79705 7017 0530 0000 6129 0438

EOG Y Resources Inc. 5509 Champions Drive Midland, TX 79706 7017 0530 0000 6129 0445 EOG A Resources Inc. 5509 Champions Drive Midland, TX 79706 7017 0530 0000 6129 0452 EOG M Resourcse Inc. 5509 Champions Drive Midland, TX 79706 7017 0530 0000 6129 0469

Copies of this application were mailed to the following individuals, companies and organizations on or before October 9, 2018.

Sorah Chapman

Sarah Chapman OXY USA Inc.

Lowe, Leonard, EMNRD

From: Chapman, Sarah E <Sarah_Chapman@oxy.com>

Sent: Tuesday, October 9, 2018 3:13 PM

To: Lowe, Leonard, EMNRD

Cc: Morris, Justin C

Subject: [EXT] Whomping Willow CC 15-16 State Com 44H Updated Notice List

Attachments: Whomping Willow CC 15-16 State Com 44H NSL Notice List.pdf

Good afternoon Leonard,

Attached is the updated Notice List with the correct parties who have been sent notice per our conversation last week. Please let me know if you have any questions.

Have a great afternoon.

Sarah Chapman

Regulatory Specialist | Permian Resources – New Mexico Office: (713) 350-4997 | 29.097 | Cell: (281) 642-5503

Email: Sarah Chapman@oxy.com

Lowe, Leonard, EMNRD

From: McMillan, Michael, EMNRD

Sent: Wednesday, October 3, 2018 2:27 PM

To: Lowe, Leonard, EMNRD

Subject: RE: RE: [EXT] RE: FW: NSL Application: Whomping Willow CC 15-16 State Com Well No.

44H

yes 10/10/18 Confirmed W/N.M., Good to Go! Cont. Placess.

From: Lowe, Leonard, EMNRD

Sent: Wednesday, October 3, 2018 2:26 PM

To: McMillan, Michael, EMNRD < Michael. McMillan@state.nm.us>

Subject: RE: RE: [EXT] RE: FW: NSL Application: Whomping Willow CC 15-16 State Com Well No. 44H

So, shall I let it fester until you get a plan together?

From: McMillan, Michael, EMNRD

Sent: Wednesday, October 3, 2018 12:24 PM

To: Lowe, Leonard, EMNRD < Leonard.Lowe@state.nm.us >

Subject: RE: RE: [EXT] RE: FW: NSL Application: Whomping Willow CC 15-16 State Com Well No. 44H

Can we talk about this-OXY may not need an NSL

Mike

From: Lowe, Leonard, EMNRD

Sent: Wednesday, October 3, 2018 12:22 PM

To: Brooks, David K, EMNRD <DavidK.Brooks@state.nm.us>; Jones, William V, EMNRD <WilliamV.Jones@state.nm.us>;

McMillan, Michael, EMNRD < Michael. McMillan@state.nm.us>

Subject: FW: RE: [EXT] RE: FW: NSL Application: Whomping Willow CC 15-16 State Com Well No. 44H

The latest.....

From: Morris, Justin C < <u>Justin Morris@oxy.com</u>> Sent: Wednesday, October 3, 2018 11:11 AM

To: Lowe, Leonard, EMNRD < Leonard.Lowe@state.nm.us >

Cc: Chapman, Sarah E < Sarah Chapman@oxy.com >

Subject: RE: RE: [EXT] RE: FW: NSL Application: Whomping Willow CC 15-16 State Com Well No. 44H

Good afternoon Leonard,

In this case, there is an operator in the Purple Sage in section 17 so you are correct that we will have to notify the owners of that spacing unit (please see attached plat). Since it is operated by Oxy, we will notify all the working interest owners of that spacing unit (320 acres). There are no other existing spacing units so no other notification should be required in section 17.

In section 14, there are no existing spacing units in the Purple Sage. Therefore, according to the rule 19.15.4.12 that was copied below, notice should only be required to the quarter section (L-K-M-N) in section 14.

Lowe, Leonard, EMNRD

From:

Lowe, Leonard, EMNRD

Sent:

Tuesday, September 25, 2018 12:39 PM

То:

'Sarah Chapman@oxy.com'

Subject:

NSL Application: Whomping Willow CC 15-16 State Com Well No. 44H

Importance:

High

Ms. Sarah Chapman,

Good afternoon.

OCD's review of your submitted NSL application for the above subject well appears that you did not properly notice all affected tracts. You indicate only "M" in Section 14 and "P" in Section 17. Those are 40 acre tracts, you are affected 320 acre tracts.

From review, the following areas are affected, please verify.

SECTION 14, W2 & S2

SECTION 17, E2 & S2

If there are no affected parties in these tracts, then you need to state so.

Your application is currently on hold until proper public notice is completed.

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/