1010330 SUSPENSE

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



		ABMINICTO ATIVE ADDI	ICATION CHECKI IST	198 216 7
		ADMINISTRATIVE APPL		-19
	HIS CHECKLIST IS Cation Acronyi	MANDATORY FOR ALL ADMINISTRATIVE APPLICA WHICH REQUIRE PROCESSING AT T ns:	TIONS FOR EXCEPTIONS TO DIVISION RULES HE DIVISION LEVEL IN SANTA FE	AND REGISTATIONS
	_	andard Location] [NSP-Non-Standard P	- -	- 1 I
	_	wnhole Commingling] [CTB-Lease Co Pool Commingling] [OLS - Off-Lease S	-	
	-	[WFX-Waterflood Expansion] [PMX-	Pressure Maintenance Expansion]	E CO
	fEOR-Qu	[SWD-Salt Water Disposal] [IPI alified Enhanced Oil Recovery Certifica	-	esponsel
	-	-		No.
[1]	TYPE OF A	.PPLICATION - Check Those Which A Location - Spacing Unit - Simultaneo		U
	[A]	NSL NSP SD	us Dedication	
	Cha	ck One Only for [B] or [C]		
	[B]	Commingling - Storage - Measureme	nt	[125]
		☐ DHC ☐ CTB ☐ PLC [PC OLS OLM	Sar 235/3
	[C]	Injection - Disposal - Pressure Increas	se - Enhanced Oil Recovery	Jer 19
		☐ WFX ☐ PMX ☐ SWD	☐ IPI ☐ EOR ☐ PPR	1. Gar
	[D]	Other: Specify		1 Proven
		• • •		
[2]	NOTIFICATION [A]	TION REQUIRED TO: - Check Those Working, Royalty or Overriding	Which Apply, or Does Not Apply	
	[A]	working, Loyardy or Gwerndin g	Royans y interest Owners	Hor
	[B]	Offset Operators, Leaseholders	r Surface Owne r	70
	[C]	Application is One Which Requi	ires Published Legal Notice	
	[D]	Notification and/or Concurrent A U.S. Bureau of Land Management - Commissione	Approval by BLM or SLO	
	[E]		stification or Publication is Attached, a	and/or
			integration of Fubication is 7 mached,	ard, or,
	[F]	Waivers are Attached		
[3]		CCURATE AND COMPLETE INFOR	RMATION REQUIRED TO PROC	ESS THE TYPE
	OF APPLIC	CATION INDICATED ABOVE.		
[4]		ATION: I hereby certify that the information		
		and complete to the best of my knowled required information and notifications are		vill be taken on this
пррпо		se: Statement-must-be completed by an individu		aider
3 .	1	1 Lel		
-	<u>& Stewart</u> or Type Name	Signature	Se. Rey. Analyst Title dawid_stemant@	- <u>Alglio</u>
1 init (7 Type Panie	Signature	1 . 1 _ 1	Date.
			e-mail Address	UF7 .COM

OXY USA Inc. Federal 29 #11

OXY USA Inc.

PO Box 50250 Midland, TX 79710-0250

April 8, 2010

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

Attention: Richard Ezeanyim

Re: Application for Administrative Approval of Non-Standard Location –

Sand Dunes Delaware, West

Federal 29 #11

Surface/Penetration Point - 1930 FNL 1650 FEL Ut G

Bottom Hole - 1849 FNL 713 FWL Ut E

Section 29 T23S R31E Eddy County, New Mexico

Dear Mr. Ezeanyim:

OXY USA Inc. respectfully requests administrative approval under Rule 104 (F) of this application for the subject non-standard well location on the Federal 29 #11. The #11 well is proposed in the Delaware with a TVD of 8000'. The kickoff point for the well is at approximately 4200' and the top of the Delaware formation is expected at 4035', which is above the kickoff point. The wellbore will be at an orthodox location when it penetrates the Delaware Brushy Canyon reservoir, but will not be orthodox at the top of the Delaware. The non-standard location is necessary for reasons of potash surface restrictions and topography, as required by the BLM.

The #11 encroaches on the 40-acre spacing unit of E, F, G of 29-23S-31E. All of the interest owners have joined in the drilling of the #9 and waivers have been attached.

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

- 1. Application for Permit to Drill.
- 2. NMOCD C-102 Plat for the proposed well with offsetting well and affected spacing units.
- 3. List of affected offset parties that adjoin the non-standard well and the spacing unit being encroached upon, along with a copy of the certified returned receipts and signed waivers. Copies of the signed certified receipts will be furnished upon request.
- 4. Proposed Directional Survey

If you need any additional information, please call me at 432-685-5717.

Sincerely,

David Stewart Sr. Regulatory Analyst

OXY USA Inc.

Attachments

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

LM.

Form 3160-3 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Operator Copy

1 My 8 . .

FORM APPROVED OMB NO. 1004-0136 Expires: November 30, 200

BUREAU OF LAND MANA	GEMEN	T	·	Expires: No	vember 30, 2000
APPLICATION FOR PERMIT TO DR	RILL OI	R REENTER		5. Lease Serial No. NMNM0545035	
la. Type of Work X DRILL RE	ENTER			6. If Indian, Allotee or	Tribe Name
Ib. Type of Well	X	Single Zone Multiple Zon	ie	7. Unit or CA Agreem	ent Name and No.
2. Name of Operator				8. Lease Name and We	il No.
OXY USA Inc. 3a. Address		16696 3b. Phone No. (include area co	vde)	Federal 29 #	U
P.O. Box 50250 Midland, TX 79710-0250		432-685-5717		9. API Well No. 30-015- 37	1098
4. Location of Well (Report location clearly and in accordance with a	ny State e	equirements)*	1	0. Field and Pool, or E	xploratory
At surface 1930 FWL 1450 FEL Su			}	Sand Dunes De	elaware, West
At proposed prod. zone 1949 FWL 713 FWL	SWA	u(E)		Sec 2 3 11 123 1235	R31E
14. Distance in miles and direction from nearest town or post office*		<u>, , , , , , , , , , , , , , , , , , , </u>	i	2. County or Parish	13. State
20 miles northeast fr	rom Lov	/ing, NM		Eddy	NM
5. Distance from proposed* location to nearest	1	6. No. of Acres in lease	17.Spa	cing Unit dedicated to	this well
property or lease line, ft. (Also to nearest drg. unit line, if any)		320		320	`
8. Distance from proposed location* to nearest well, drilling, completed,	6	9. Proposed Depth RGH 1081' F180' DINIV	4	M/BIA Bond No. on i	île
applied for, on this lease, ft.		3100 m 3000 V		ES013	16
21. Elevations (Show whether DF, KDB, RT, GL, etc.	:	22. Approximate date work will sta	irl*	23. Estimated dura	ation
3344.3' GL				<u> </u>	_45
	24.	Attachments			
The following, completed in accordance with the requirements of Onsho	ore Oil an	d Gas Order No. 1, shall be attache	ed to this	form:	
 Well plat certified by a registered surveyor. A Drilling Plan A Surface Use Plan (if the location is on National Forest System La SUPO shall be filed with the appropriate Forest Service Office). 	ands, the	4. Bond to cover the operation ltem 20 above). 5. Operator certification. 6. Such other site specific in authorized officer.		•	
25. Signuature	Nan	ne (Printed/Typed)	,	Date	1.2
Vi Sty	Da	vid Stewart			9/9/09
Title					•
Sr. Regulatory Analyst					
Approved by (Signahire), Mas Schundlik	Nar	nc (Printed/Typed) Indu S. C. Ri	ind	ell Date	5/10
STATE DIRECTOR	Off	NM STATE O)FFIC	E	/ -
Application approval does not warrant or certify that the applicant hole conduct operations thereon.	ds legal o	or equitable title to those rights in	the subj		d entitle the applicant

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 knowlingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on Reverse)

CARLSBAD CONTROLLED WATER BASIN

SEE ATTACHED FUR CONDITIONS OF APPROVAL

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED District 1 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

Form C-102 Revised October 12, 2005 Submit to Appropriate District Office State Lease- 4 Copies Fee Lease-3 Copies

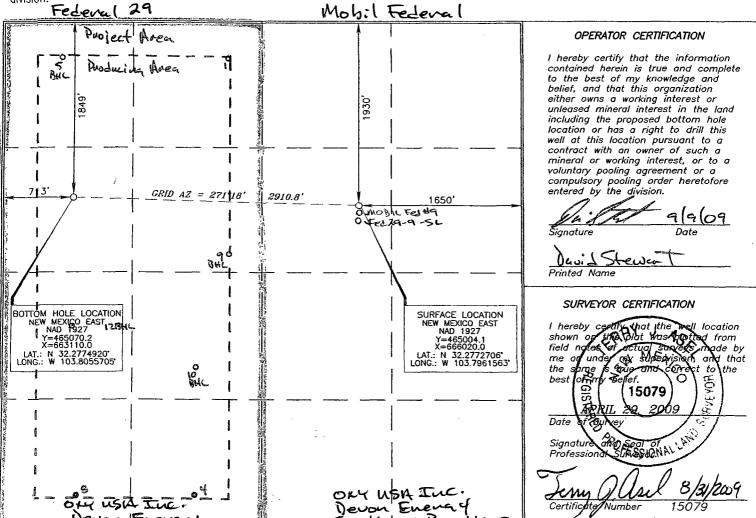
AMENDED REPORT

WO# 080828WL-i (Rev. A) (KA)

	WELL LOCATION AND AC	CREAGE DEDICATION PLAT	
API Number	Pool Code	Poo	Name
30-015-	53815	Sand Dunes	Delaware, West
Property Code	Prope	erty Name	Well Number
304 820	$FEDE_{A}$	RAL 29	11
OGRID No.	Opero	itor Name	Elevation
16696	OXY U	SA INC.	3344.3'
	Surfa	ce Location	

UL or lot no.	Section	Township	Range)	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
\boldsymbol{G}	29	23 SOUTH	31 EAST, N.	М.Р.М.		1930'	NORTH	1650'	EAST	EDDY
			Bottom	Hole Loca	ition	lf Differen	t From Sur	face		
UL or lot no.	Section	Township	Range	:	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
\boldsymbol{E}	29	23 SOUTH	31 EAST, N.	М.Р.М.		1849'	NORTH	713'	WEST	EDDY
Dedicated	Acres	Joint or Infill	Consolidation Code	Order No.						
320	>	۲								

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.



Service List – NSL OXY USA Inc. Federal 29 #11 Sec 29 T23S R31E

United States Dept of Interior Bureau of Land Management 620 E. Greene Street Carlsbad, NM 88220-6292

New Mexico Oil Conservation Division 1301 W. Grand Ave. Artesia, NM 88210

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

Affected Offset Parties:

Devon Energy Production Co., LP Attn: Mr. Ken Gray 20 N. Broadway Oklahoma City, OK 73102

Southwest Royalties Inc. Attn: Mr. Randy Howard 6 Desta Drive, Suite 2100 Midland, TX 79705



April 8, 2010

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Devon Energy Production Co., LP Attn: Ken Gray 20 N. Broadway Oklahoma City, OK 73102

Re: Application for Administrative Approval of Non-Standard Location –

Sand Dunes Delaware, West

Federal 29 #11

Surface/Penetration Point - 1930 FNL 1650 FEL Ut G

Bottom Hole -1849 FNL 713 FWL Ut E

Section 29 T23S R31E 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 under Rule 104 (F) of an unorthodox well location. As an affected party, notice is being provided to you pursuant to Rule 104 (F). The well is located in the SWNE/4 of Section 29 T23S R31E, Eddy County, NM. 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: Richard Ezeanyim).

If you need any additional information, please call me at 432-685-5717.

Sincerely,

David Stewart

Sr. Regulatory Analyst OXY USA WTP LP

OXI OSI WII EI

Attachments



February 24, 2010

Ken Gray Devon Energy Production Company, LP 20 North Broadway Oklahoma City, OK 73102

RE:

Federal 29 #11 Well

Surface Location 1,930' FNL & 1,650' FEL (SWNE) Bottom Hole Location 1,849' FNL & 713' FWL (SWNW) Section 29-23S-31E Eddy County, New Mexico

Gentlemen:

The surface location for the Federal 29 #11 well is located 1,930' FNL & 1,650' FEL in the SW/4 NE/4 and the bottom hole location is 1,849' FNL & 713' FWL in the SW/4 NW/4 of Section 29-23S-31E, Eddy County, NM. This location is an unorthodox location for the objective Delaware formation.

OXY is filing an application with the New Mexico Oil Conservation Division (OCD) for administrative approval of this non-standard location (NSL). The owners of the Mobil Federal lease covering the E/2 of Section 29-23S-31E are the only affected parties entitled to notice. Your execution of this walver will facilitate administrative approval of OXY's NSL application. OXY requests that you waive any protest or objection to the NSL for the referenced well.

Your favorable consideration and early reply will be appreciated. Please return a signed copy of this waiver letter to me at the address shown above.

Very truly yours,

OXY USA Inc.

Donna G Havins Land Negotiator Dir: (713) 215-7232 Cell: (713) 202-7559 Fax: (713) 985-1818

email: donna_havins@oxy.com

Devon Energy Production Company, LP hereby waives any protest or objection to the non-standard location of the Federal 29 #11 well.

Devon Energy Production Company. LP

Dated

OXY USA Inc.

PO Box 50250 Midland, TX 79710-0250

April 8, 2010

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Southwest Royalties Inc. Attn: Mr. Randy Howard 6 Desta Drive, Suite 2100 Midland, TX 79705

Re: Application for Administrative Approval of Non-Standard Location –

Sand Dunes Delaware, West

Federal 29 #11

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Bottom Hole -1849 FNL 713 FWL Ut E

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If you need any additional information, please call me at 432-685-5717.

Sincerely,

David Stewart

Sr. Regulatory Analyst OXY USA WTP LP

Attachments

5 Greenway Plaza, Suite 110, Houston, Texas 77046-0521 P.O. Box 27570, Houston, Texas 77227-7570 Phone 713.215.7000

February 24, 2010

Randy Howard Southwest Royalties Inc. #6 Desta Drive, Suite 2100 Midland, TX 79705

RE:

Federal 29 #11 Well

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email: donna_havins@oxy.com

Southwest Royalties Inc hereby waives any protest or objection to the non-standard location of the Federal 29 #11 well.

Southwest Royalties Inc.

Dated



Project: Eddy County, NM Site: Sand Dune Fed 29 #11

Well: Well #11 Wellbore: OH

Plan: Plan #1 (Well #11/OH)

TVD

4000.00

CASING DETAILS

Name

8 5/8"

Size

MD

Azimuths to Grid North True North: -0.29° Magnetic North: 7.61°

Magnetic Field Strength: 48832.6snT Dip Angle: 60.26° Date: 2009/08/27 Model: IGRF200510



WELL DETAILS: Well #11

Ground Elevation: 3344.30 RKB Elevation: RKB to MSL @ 3360.80ft Rig Name:

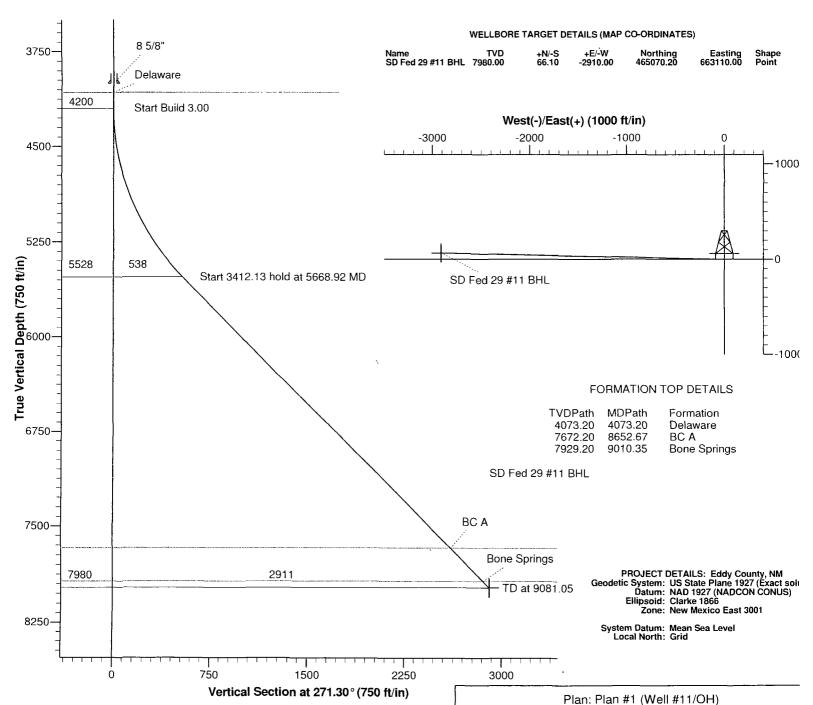
+N/-S 0.00 +E/-W 0.00 Northing 465004.10 Latittude Longitude 103°47'46.16305 W Easting 666020.00 Slot 32°16' 38.17389 N

SECTION DETAILS

Sec 1 2	MD 0.00 4200.00	Inc 0.00 0.00	Azi 0.00 0.00	TVD 0.00 4200.00	+N/-S 0.00 0.00	+E/-W 0.00 0.00	DLeg 0.00 0.00	TFace 0.00 0.00	VSec 0.00 0.00	Target
3	5668.92	44.07	271.30	5528.32	12.21	-537.45	3.00	271.30	537.59	
4	9081.05	44.07	271.30	7980.00	66.10	-2910.00	0.00	0.00	2910.75	SD Fed 29 #11 BH

Created By: Kurt Otto

Date: 12:51, August 27 2009







Company:	OXY Permian		Local Co-ordinate Reference: Well Well #11	Well Well #11
Project:	Eddy County, NM		TVD Reference:	RKB to MSL @ 3360.80ft
Site:	Sand Dune Fed 29 #11		MD Reference:	RKB to MSL @ 3360.80ft
Well:	Well #11	2	North Reference:	Grid
Wellbore:	OH OH	9	Survey Calculation Method: Minimum Curvature	Minimum Curvature
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Mon Zono:	NAD 1927 (NADCON CONUS)		atabase:	Landilaik Nework Db Mean Sea Level

Position Uncertainty:	•	Cito Docition:	Site
0.00 ft	Map		Sand Dune Fed 29 #11
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	666,020.00 ft	465.004.10 ft	
Grid Convergence:	Longitude:	l atitude:	
0.29 °	103° 47' 46.16305 W	32° 16' 38 17389 N	

	Magnetics	Wellbore	Position Uncertainty		Well Position	Wéll
<u>ত</u>	Model	0	rtainty	+E/-W	+N/-S	, W
GRF200510	Name		0.00 ft	0.00 ft	0.00 ft	9 #11
2009/08/27	Sample Date					e de la companya de La companya de la co
7.90	Declination (°)		Wellhead Elevation:	Easting:	Northing:	And the second s
60.26	Dip Angle		ft	666,020.00 ft	465,004.10 ft	and the second section of the second
	Field Strength (nT)		Ground Level:	Longitude:	Latitude:	And the state of the case of the state of th
			3,344.30 ft	103° 47′ 46.16305 W	32° 16' 38.17389 N	A CONTRACT OF THE PROPERTY OF

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Company: Project: Site: Well: Wellbore: Design	OXY Permian Eddy County, NM Sand Dune Fed 29 #11 Well #11 OH OH Plan #1					Local Co-ordinate Reference TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	-ordinate Reference: yrence: ence: ference: alculation Method:	Well Well #11 RKB to MSL @ 3360.80ft RKB to MSL @ 3360.80ft Grid Minimum Curvature Landmark Network DB	
Planned Survey		A COLUMN TO THE			mangan kanangan mangan kanangan mangan mangan kanangan mangan mangan mangan mangan mangan mangan mangan mangan Mangan mangan mangan Mangan mangan	Andread and the state of the st			The second secon
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Delaware 4,100.00	0.00	0.00	4,100.00	-739.20	0.00	465,004.10	666,020.00	0.00	
4,200.00	0.00	0.00	4,200.00	-839.20	0.00	465,004.10	666,020.00	0.00	
4,300.00	3.00	271.30	4,299.95	-939.15	2.62	465,004.16	666,017.38	3.00	
4,400.00	00 6.00	271.30	4,399.63	-1,038.83	10.46	465,004.34	666,009.54	3.00	
4,500.00		271.30	4,498.77	-1,137.97	23.51	465,004.63	665,996.49	3.00	
4,700.00	00 15.00	271.30	4,694.31	-1,333.51	65.08	465,005.58	665,954.94	3.00	
4,800.00	00 18.00	271.30	4,790.18	-1,429.38	93.48	465,006.22	665,926.55	3.00	
4,900.00	21.00	271.30	4,884.43	-1,523.63	126.85	465,006.98	665,893.18	3.00	
5,000.00	24.00	271.30	4,976.81	-1,616.01	165.12	465,007.85	665,854.93	3.00	
5,100.00		271.30	5,067.06	-1,706.26	208.16	465,008.83	665,811.89	3.00	
5,200.00		271.30	5,154.93	-1,794.13	255.87	465,009.91	665,764.19	3.00	
5,300.00	33.00	271.30	5,240.18	-1,879.38	308.12	465,011.10	665,711.96	3.00	
5,400.00	36.00	271.30	5,322.59	-1,961.79	364.75	465,012.38	665,655.34	3.00	
5,500.00		271.30	5,401.91	-2,041.11	425.62	465,013.77	665,594.49	3.00	
5,600.00		271.30	5,477.94	-2,117.14	490.56	465,015.24	665,529.57	3.00	
5,668.92	92 44.07	271.30	5,528.32	-2,167.52	537.59	465,016.31	665,482.55	3.00	
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5,800.00	00 44.07	271.30	5,622.50	-2,261.70	628.76	465,018.38	665,391.41	0.00	
5,900.00		271.30	5,694.35	-2,333.55	698.31	465,019.96	665,321.87	0.00	
6,000.00		271.30	5,766.21	-2,405.41	767.86	465,021.54	665,252.34	0.00	
6,100.00	90 44.07	271.30	5,838.06	-2,477.26	837.41	465,023.12	665,182.81	0.00	
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6,300.00	00 44.07	271.30	5,981.76	-2,620.96	976.51	465,026.28	665,043.74	0.00	



Company: OXY Per Project: Eddy Co Site: Sand Du Well #11 Wellbore: OH Design: Plan #1	OXY Permian Eddy County, NM Sand Dune Fed 29 #11 Well #11 OH Plan #1					Local Co-ordinate Reference TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	Well Well #11 RKB to MSL @ 3360.80ft RKB to MSL @ 3360.80ft Grid Minimum Curvature Landmark Network DB	
Planned Survey		And the second s							
(a) MD	Inc (g)	, Az i:	(f)	TVDSS (ft)	V. Sec (ft)	Northing (ft)	Easting (ft)	DLeg.	
6,400.00	44.07	271.30	6,053.61	-2,692.81	1,046.06	465,027.85	664,974.21	termen en e	Salan Maria Salaman Sa
6,500.00	44.07	271.30	6,125.47	-2,764.67	1,115.61	465,029.43	664,904.68	0.00	
6,600.00	44.07	271.30	6,197.32	-2,836.52	1,185.16	465,031.01	664,835.14	0.00	
6,700.00	44.07	271.30	6,269.17	-2,908.37	1,254.71	465,032.59	664,765.61	0.00	
6,800.00	44.07	271.30	6,341.02	-2,980.22	1,324.26	465,034.17	664,696.08	0.00	
6,900.00	44.07	271.30	6,412.87	-3,052.07	1,393.81	465,035.75	664,626.55	0.00	
7,000.00	44.07	271.30	6,484.73	-3,123.93 3,125.78	1,463.36	465,037.33	664,557.01	0.00	
7,200.00	44.07	271.30	6,628.43	-3,267.63	1,602.47	465,040.49	664,417.95	0.00	
7,300.00	44.07	271.30	6,700.28	-3,339.48	1,672.02	465,042.07	664,348.41	0.00	
7,400.00	44.07	271.30	6,772.13	-3,411.33	1,741.57	465,043.65	664,278.88	0.00	
7,500.00	44.07	271.30	6,843.98	-3,483.18	1,811.12	465,045.23	664,209.35	0.00	
7,600.00	44.07	271.30	6,915.84	-3,555.04	1,880.67	465,046.81	664,139.82	0.00	
7,700.00	44.07	271.30	6,987.69	-3,626.89	1,950.22	465,048.39	664,070.28	0.00	
7,800.00	44.07	271.30	7,059.54	-3,698.74	2,019.77	465,049.97	664,000.75	0.00	
7,900.00	44.07	271.30	7,131.39	-3,770.59	2,089.32	465,051.55	663,931.22	0.00	
8,000.00	44.07	271.30	7,203.24	-3,842.44	2,158.87	465,053.13	663,861.68	0.00	
8,100.00	44.07	271.30	7,275.10	-3,914.30	2,228.42	465,054.71	663,792.15	0.00	
8,200.00	44.07	271.30	7,346.95	-3,986.15	2,297.97	465,056.28	663,722.62	0.00	
8,300.00	44.07	271.30	7,418.80	-4,058.00	2,367.52	465,057.86	663,653.09	0.00	
8,400.00	44.07	271.30	7,490.65	-4,129.85	2,437.07	465,059.44	663,583.55	0.00	
8,500.00	44.07	271.30	7,562.50	-4,201.70	2,506.63	465,061.02	663,514.02	0.00	
8,600.00	44.07	271.30	7,634.36	-4,273.56	2,576.18	465,062.60	663,444.49	0.00	
8,652.67	44.07	271.30	7,672.20	-4,311.40	2,612.81	465,063.43	663,407.87	0.00	
BC A									
8,700.00	44.07	271.30	7,706.21	-4,345.41	2,645.73	465,064.18	663,374.96	0.00	
8,800.00	44.07	271.30	7,778.06	-4,417.26	2,715.28	465,065.76	663,305.42	0.00	
					:				





Bone Springs 9,081.05 SD Fed 29 #11 BHL	8,900.00 9,000.00 9,010.35	Planned Survey MD (ft)	Company: Project: Site: Well: Wellbore: Design:
ings 44.07	44.07 44.07 44.07	Inc (9)	OXY Permian Eddy County, NM Sand Dune Fed 29 #11 Well #11 OH Plan #1
271.30	271.30 271.30 274.30	Azi	To the state of th
7,980.00	7,849.91 7,921.76 7,929.20	(II)	
-4,619.20	-4,489.11 -4,560.96 -4,568.40	TVDSS	
2,910.75	2,784.83 2,854.38 2,861.58	V Sec	
465,070.20	465,067.34 465,068.92 465,069.08	Northing (ft)	Local Co-ordinate Referenc TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:
663,110.00	663,235.89 663,166.36 663,159.16	Easting	Local Co-ordinate Reference: Well Well #11 TVD Reference: RKB to MSL (MD.Reference: RKB to MSL (Grid North Reference: Grid Survey Calculation Method: Uandmark Ne
0.00	0.00 0.00 0.00	DLeg (%/100ft)	Well Well #11 RKB to MSL @ 3360.80ft RKB to MSL @ 3360.80ft Grid Minimum Curvature Landmark Network DB



PathFinder Energy Services

Global X&Y Report



SD Fed 29 #11 BHL - plan hits target center - Point	Targets Target Name hit/miss target - Shape	Company: OXY Permian Project: Eddy County, NM Site: Sand Dune Fed 2 Well: Well #11 Wellbore: OH Design: Plan #1
r 0.00	Dip Angle	OXY Permian Eddy County, NM Sand Dune Fed 29 #11 Well #11 OH Plan #1
0,00	Dip Dir.	
7,980.00	TVD.	
66.10	(ft)	
-2,910.00	+ E /- W	
465,070.20	Nörthing (ft)	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:
663,110.00	asting (ff)	eference: Well Well #11 RKB to MSL (RKB to MSL) RKB to MSL Grid Minimum Cur Landmark Ne
663,110.00 32° 16' 38.97093 N 03° 48' 20.05433 W	ng Easting	well Well #11 RKB to MSL @ 3360.80ft RKB to MSL @ 3360.80ft Grid Minimum Curvature Landmark Network DB
.8' 20.05433 W	ongitude	

		Formations	Casing Points
9,010.35 8,652.67 4,073.20	Measured Depth (ff)	4,000.00	Measured Depth
7,929.20 Bone Springs 7,672.20 BC A 4,073.20 Delaware	Vertical Depth (ft) Name	4,000.00 8 5/8"	Vertical Depth (ft)
0.00 0.00 0.00	Dip Dip Direction (°)	8-5/8 12-1/4	Casing Hole Diamete Diamete Name
		The second of th	Hole Jameter
Section of Auditorial			

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and the second of the second o

Checked By:	
Approved By:	
Date:	

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse 	A. Signature X
so that we can return the card to you. Attach this card to the back of the mailpiece,	B. Received by (Printed Name) C. Date of Deliver
or on the front if space permits. 1. Article Addressed to:	D. Is delivery address different from item 1? Yes If YES, enter delivery address below:
21.40	II res, enter delivery address below.
BLM	
620 E. Greene St.	3. Service Type
Carlsbad NM 88220	☐ Certified Mali ☐ Express Mali ☐ Registered ☐ Return Receipt for Merchandi
	☐ Insured Mall ☐ C.O.D. 4. Restricted Delivery? (Extra Fee) ☐ Yes
2. Article Number 7005 C	1390 0002 9920 7610
PS Form 3811, February 2004 Domestic Re	eturn Receipt 102595-02-M-1
SENDER COMPLETE THIS SECTION	COMPLETE THIS SECTION ON THE INCENT
Complete items 1, 2, and 3. Also complete	COMPLETE THIS SECTION ON DELIVERY A. Signature
item 4 If Restricted Delivery is desired. Print your name and address on the reverse	X
so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.	B. Received by (Printed Name) C. Date of Deliver
Article Addressed to:	D. Is delivery address different from item 1? Yes If YES, enter delivery address below: No
Number	
1301 W. Grand Ave.	
NMOCD 1301 W. Grand Ave. Artesia NM 88210	3. Service Type
W 1997-10	☐ Certified Mail ☐ Express Mail ☐ Registered ☐ Return Receipt for Merchandle ☐ Insured Mail ☐ C.O.D.
	4. Restricted Delivery? (Extra Fee) Yes
2. Article Number 7005 03	90 0002 9920 7627
PS Form 3811, February 2004 Domestic Re	turn Receipt 102595-02-M-18
SENDER: COMPLETE THIS SECTION	COMPLETE, THIS SECTION ON DELIVERY
■ Complete items 1, 2, and 3. Also complete	A Signature
item 4 if Restricted Delivery is desired. Print your name and address on the reverse	X Agent D Address
so that we can return the card to you. Attach this card to the back of the mailpiece,	B. Received by (Printed Name) C. Date of Delive
or on the front if space permits. 1. Article Addressed to:	D. Is delivery address different from Item 1? Yes If YES, enter delivery address below:
pmoco	in 150, ones delivery general politics
1220 S. St. Francis De.	
Santa Fe NM B7505	3. Service Type
maria (& (150)	☐ Certified Mail ☐ Express Mail ☐ Registered ☐ Return Receipt for Merchandi
	☐ Insured Mail ☐ C.O.D. 4. Restricted Delivery? (Extra Fee) ☐ Yes
2. Article Number 7005 0	390 0002 9920 7634
	aturn Receipt 102595-02-M-1
■ Complete items 1, 2, and 3. Also complete	A. Signature ☐ Agent
item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you.	X
 so that we can return the card to you. m Attach this card to the back of the mailpiece, or on the front if space permits. 	
1. Article Addressed to:	O. Is delivery address different from item 1? Yes If YES, enter delivery address below: No
D T D. (/-	
VENONTHANKY TWO .	
Deson Energy Prod Co. Attor: Kentoney 20 N. Broadway	3. Service Type Certified Mail Express Mail
Oklahama City, OK	☐ Registered ☐ Return Receipt for Merchand ☐ Insured Mail ☐ C.O.D.
73(02	4. Restricted Delivery? (Extra Fee)
2. Article Number 7005	0390 0002 9920 7641
10,0,	eturn Receipt 102595-02-M-1
SENDER: COMPLETE THIS SECTION	COMPLETE, THIS SECTION ON DELIVERY
 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. 	A Signature
 Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece. 	B. Received by (Printed Name) C. Date of Delive
or on the front if space permits.	D. Is delivery address different from item 1?
Article Addressed to: Article Addre	If YES, enter delivery address below:
. SouthwestRoyaltiesInc.	
Attal: Rendy Howard 6 Desta DR. Ste 2100	
6 Desta DR. Ste 2100	3. Service Type Certified Mail Express Mail .
Midland TY 79705	☐ Registered ☐ Return Receipt for Merchandis ☐ Insured Mail ☐ C.O.D.
O. Add at Musel	4. Restricted Delivery? (Extra Fee) ☐ Yes
Article Number 7 0 0 5 0 3 (Transfer from service label) 7 0 0 5 0 3	390 0002 9920 7658