Form J160-3 (December 1990)	DEPARTMEN.	D STATES OF THE INTERIC ANDMANAGEMENT	SUBMIT IN TF ~ JCAT Cleve other instr. s on reverse side)	APTES,	Form approved	210 US 210 US REAL XO. (JOS)
	APPLICATION FOR PERI	MIT TO DRILL OR DEEPEN			N, ALLOTTEE OR T	
la TYPE OF WORK:	DRILL 🔀	DEEPEN		NA		
h TYPE OF WELL:	OAS Other	EINOLE 20NB	MULTIPLE	West Red	LEMENT NAME Lake LEASE NAME, WELL	NO.
2 NAME OF OPERA	ATOR DEVON ENERGY COR	DODATION (NEVADA)	6137	West Red	Lake Unit #46	
	ELEPHONE NO.	TE 1500, OKC, OK 73102 ( accordance with any State require	(405) 552-4511	10. FIELD J Red Lake;	Q-GB-SA 5	$(\frac{1}{2})^{\infty}$
At top proposed pro	i zone (SAME)	TANDARD	LIKE APPROVAL BY STATE		T18S-R27E	and survey or area
	AND DIRECTION FROM REAREST TOWN s southeast of Artesia, NM	OR POST OFFICE*	lico	12. COUNT Eddy Co	OR PARISH Unty	13. STATE New Mexico
15. DISTANCE FROM FRO LOCATION TO NEARES PROPERTY OR LEASE (Also to nearest drig, unit	IT LINE, FT. 1560'	16.NO. OF ACRES IN LEASE 80	IAN 6 '95	4	17.NO. OF ACRE TO THIS WEL 40	
18.DISTANCE FROM PRO	POSED LOCATION* DRILLING, COMPLETED,	19. PROPOSED DEPTH 3000'			20.ROTARY OR O	CABLE TOOLS*
21. ELEVATIONS (Show w) GR 3397'	bother DF, RT, GR, etc.)		ARTESIA, OFFICE		PROX. DATE WORK	WILL START*
23.	······································	PROPOSED CASING AND C	EMENTING PROGRAM			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY	OF CEMENT
17 1/2"	13 3/8"	Conductor, 0.30" wall	30'		Redimix	
12 1/4"	8 5/8"	24 ppf	1000'		300 sx Lite + 200 s	sx Class C
7 7/8"	5 1/2"	15.5 ppf	3000'		100 sx Lite + 200 :	IX Class C

\* Cement will be circulated to surface on all casing strings.

Devon Energy plans to drill to 2250' +/- to test the San Andres Formation for commercial quantities of oil. If the San Andres is deemed non-commercial, the wellbore will be plugged and abandoned per Federal regulations. Programs to adhere to onshore oil and gas regulations are outlined in the following exhibits and attachments.

Drilling Program Surface Use and Operating Plan Exhibit #1 - Blowout Prevention Equipment Exhibit #1-A - Choke Manifold Exhibit #2 - Location and Elevation Plat Exhibit #3 - Planned Access Roads Exhibit #4 - Wells Within a One Mile Radius Exhibit #4 - Wells Within a One Mile Radius Exhibit #5 - Production Facilities Plan Exhibit #6 - Rotary Rig Layout Exhibit #7 - Casing Design Parameters and Factors Exhibit #8 - H<sub>2</sub>S Operating Plan The undersigned accepts all applicable terms, conditions, stipulation, and restrictions concerning operations conducted on the leased land or portion thereof, as described above.

DATE

DATE

11 Mar 11 11 1 12 12

the state of the state of the state of

Bond Coverage: Nationwide BLM Bond File No.: CO-1104

> Post ID-1 1-20-95 Men box & API

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any. 24.

SIGNED

E. L. BUTTROSS, JR. TITLE <u>DISTRICT ENGINEER</u>

\*(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND

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 contract operation the regulation of APPROVAL, IF ANY:

APPROVED BY 15 Cot	1 Gowers



See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes 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

Exhibit #2

DISTRICT 1 P.O. Box 1980, Hobbs, NM 88240

,

DISTRICT III

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

1000 Rio Branes Rd., Astec, NM 87410

State of New Mexico

Energy, Minerals and Natural Resources Department.

Form C-102 Revised February 10, 1994 Instruction on back Submit to Appropriate District Office State Lease - 4 Copies Foe Lease - 3 Copies

# OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

CI AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

Red Lake: Q-CB-SA 51300         Property Name         OGED No.         OGED No.         OGED No.         OF or bit No.         B       18 S         D       8         Bottom Hole       Jone State         D       8         Bottom Hole       Jone State         D       8         Bottom Hole       Location         Bottom Hole       Location If Different From Surface         Bottom Hole       Location If Different From Surface         VI. or lat No.       Section         Tornship       Range         Lot Ha       Peet From the Rest/West Hase         Ooking       Feet Down the Rest/Secth Hase         D       Bottom Hole         Down Hole       Location If Different From Surface         VI. or lat No.       Section Tornship         Red Area       Anon-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION         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         SUBJECT       SUBVECO CERTIFICATION / Method is domain above of the commutent of the solid complete is the fill be of the commutent of the solid complete is the fill be of the commutent of the solid complete is the fill be of the	API	Number			Pool (	Code			D. 1 7 1		Pool Name		
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OCEED No. 6137     Device Faces DEVON ENERGY     Energian 3397'       Surface Location       If or ist No. 0     8     Sordan     Termakip 18 S     Energian       Bottom Hole Location If Different From Use NORTH     NoRTH     280     WEST     EDDY       Bottom Hole Location If Different From Surface       Ut or ist No. 0     Termakip 8     Bage     Let Man     Feet from Use North/Seath Line     Feet from Use North/Seath Line     Feet from Use North/Seath Line     County WEST     County EDDY       Bedicated arrew     John er Istill     Constitution of Colspan="2">County North No.       NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OS A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION       NO     Allow arrey origin to the distribution original manual table.     OPERATOR CERTIFICATION I Arrey origin table for and counties is in the Statistic Engineer Tite       NO     Allow arrey origin table will be information original manual table.     I arrey origin table will be information in the original manual table.       NO     Allow arrey origin table will be information original manual table.     I arrey origin table will be information in the origin arrey origin table will be information in the origin array or in the origin array or in the second manual table.       NO     I arrey origin table will be information in the origin array or in the origin array or in the second manual table.       NO							-	•		r		1	
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## MINIMUM BLOWOUT PREVENTER REQU

#### **ÆNTS**

## 3,000 psi Working Pressure

### 3 MWP

West Red Lake Unit #46 Eddy County, New Mexico Exhibit #1





	OPTIO	NAL
16	Flanged valve	1-13/16*

## CONTRACTOR'S OPTION TO FURNISH:

- 1.All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 3,000 psl, minimum.
- 2. Automatic accumulator (80 gallon, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
- 3.80P controls, to be located near drillers position.
- 4.Kelly equipped with Kelly cock.
- 5. Inside blowout provventer or its equivalent on derrick lloor at all times
- with proper threads to it pipe being used. S.Kelly saver-sub equipped with rubber
- casing protector at all times.
- 7.Plug type blowout preventer tester.
- 8.Extra set pipe rams to fit drill pipe in use on location at all times.
- 9. Type RX ring gaskets in place of Type R.

#### MEC TO FURNISH:

•.

- 1.Bradenhead or casinghead and side valves.
- 2.Wear bushing, Il required.

#### GENERAL NOTES:

- 1.Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- 2. All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through chore. Valves must be full opening and suitable for high pressure mud service.
- 3. Controls to be of standard design and each marked, showing opening and closing position.
- 4. Choices will be positioned as as not to hamper or delay changing of choke beens. Replaceable parts for adjustable choke, other been eizes, retainers, and choke wrenches to be conveniently tocated for immediate use.
- S.All values to be equipped with handwheels or handles ready for immediate use.
- 6.Choke lines must be suitably anchored.

- 7. Handwheels and extensions to be connected and ready for use.
- 8. Valves adjacent to drilling speel to be kept open. Use outside valves except for emergency.
- 8. All seemless sizel control piping (3000 pel working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
- 10.Casinghead connections shall not be used except in case of emergency.
- 11.Do not use kill line for routine Ill-up operations.

# Attachment to Exhibit #1 NOTES REGARDING BLOWOUT PREVENTORS West Red Lake Unit #46 Eddy County, New Mexico

- 1. Drilling nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
- 2. Wear ring will be properly installed in head.
- 3. Blowout preventor and all associated fittings will be in operable condition to withstand a minimum 3000 psi working pressure.
- 4. All fittings will be flanged.
- 5. A full bore safety valve tested to a minimum 3000 psi WP with proper thread connections will be available on the rotary rig floor at all times.
- 6. All choke lines will be anchored to prevent movement.
- 7. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
- 8. Will maintain a kelly cock attached to the kelly.
- 9. Hand wheels and wrenches will be properly installed and tested for safe operation.
- 10. Hydraulic floor control for blowout preventor will be located as near in proximity to driller's controls as possible.
- 11. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.

## MINIMUM CHOKE MANIFOLL 3.000, 5,000 and 10,000 PSI Working Pre

3 MWP - 5 MWP - 10 MWP

West Red Lake Unit #46 Eddy County, New Mexico Exhibit #1-A



#### BETOND SUBSTRUCTURE

			Link	MUM RECI	IREMENT	\$					
•••		3.000 MMP 5.000 MMP 10.000 MMP									
No.		LD	NOMINAL	RATING	LD.	NOMINAL	RATING	LD.			
1	Line trem drilling speel		3.	3.800		3.	5.000		3.	_	
2	Cross 3"x3"x3"x2"			3,000			5.000	<u> </u>		10,000	
	Crees 3"13"13"13"										
3	Valves(1) Gate D Plag (3)	3-1/8-		3,800	3-14*		5,900	318"		10,000	
4	Valve Gene C Plug (32)	1-13/16*		3,800	1-13/16*		5,800	1-13/18*		10.000	
4	Valves(1)	5-1/16"		3,000	2-1/16*		5.000	3-1/8*		10,000	
5	Pressure Gauge			3,000			5,000				
•	Valves Gale (C Valves Plug ()(2)	3-1/8*		3,000	3-1/8*		5,000	3-1/6*		10,000	
7	Adjustable Chele(3)	2.		1.000	2.		1 000				
	Adjustable Cheile	1.		3.000	1.		\$.000	2		10,000	
	Line		3*	3.000			5,000	2		10,000	
10	Line		7	3,000	-	3.	8,800		37	10,800	
. 1	Gete D			3.000		2"	\$,800		3.	10.000	
11	Phy DR	3-1/8*		3,000	3-141*		5,000	3-148*		10,000	
	Lines		3	1,000		3.	1,000		3.		
-	Lines		3.	1,000		3-	1,000			2.000	
14	Remote reading compound standpice pressure gauge			3,000			5,000		- 2-	2,000	
15	Get Separatur		2'15'				6,000			10,800	
	Line	╈╼╼╾┥				8.42.			2'25'		
	Haters Gets D	╉╼╾╾╉		1,000		4.	1,000		e-	2.000	
17	Valves Plug ()(2)	3-118*		3.000	3-141	T	5.000	2-1/8*		10.000	

(1) Only one required in Class 31.

(2) Gate velope any shall be used for Class 1044

(3) Remote operated hydroulic shake required on \$,000 pel and 10,000 pel lor skilling.

# EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS

- 1. All connections in choice manifold shall be welded, studded, llanged or Cameron clamp of comparable rating. 2. All Ranges shall be API 6B or 6BX and ring gaskets shall be API RX or BX. Use only BX for 10 MWP.
- 3. All lines shall be securely anchored.

- In this shall be equipped with tungsten carbide seats and needles, and replacements shall be available.
   Chokes manifold pressure and standpipe pressure gauges shall be available at the choke manifold to assist in regulating chokes. As an alternate with automatic chokes, a choice manifold pressure gauge shall be located on the rig floor in con-
- 6. Line from drilling speci to choke manifold should be as straight as possible. Lines downstream from chokes shall make turns by large bends or 90° bends using bult plugged less. 7. Discharge lines from chokes, choke bypass and from top of gas separator should vent as far as practical from the well.