# New Mexico Off Conservation Official, District I

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1625 N. Freuch Drive Hobbs, NM 68249

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							PROVED	
Form 3160-3 (August 1999)							004-0136	<u></u>
(August 1999)							nber 30, 2	000
UNITED STATES				5. Lease Se				
DEPARTMENT OF THE INTE	ERIOR					6079		
BUREAU OF LAND MANGE				6. If Indian,	Allotte	e or Tri	be Name	
APPLICATION FOR PERMIT TO DR		NTER		7. If Unit or			t. Name a	nd No.
1a. Type of Work: X DRILL	TER							
	Single Zor	ne Multipl	e Zone	8. Lease Na Ochoa		id Well I Federal N		
1b. Type of Well: Oil Well X Gas Well Other	Single 20	le Landrup	<u>c 20110</u>	9. API Well				
2. Name of Operator				30-	-	5_	34	75/
Enron Oil & Gas Company	3b. Phone No.	(include area	code)	10. Field ar	nd Pool	, or Exp	loratory	/
3a. Address	(915)686-3714	(		Drap	er Mill (	Wolfcan	יש <u>ו</u>	
P.O. Box 2267, Midland, TX 79702 4. Location of Well ( <i>Report location clearly and in accordar</i>		ate requireme	nts.*)	11. Sec., T.	, R., M.	, or Blk.	And Surv	ey or Area
4. Location of Well (Report location clearly and in according		•						
At surface 1700' FNL & 1760' FWL				Sec 15, T25	IS, R33	E		
At proposed prod. Zone 1700' FNL & 1760' FWL						<u> </u>		
14. Distance in miles and direction from nearest town or pos	st office*			12. County	or Par	ish  1	3. State	
29 miles SW of Jal, NM				Lea			NM	
15. Distance from proposed*	16. No. of Ac	res in lease	17. Spacir	ng Unit dedica	ated to	this we	1	
location to nearest				N/2 - 320 ad	-			
property or lease line, ft. 1700'	6	40		N/2 - 320 au	6169			
(Also to nearest drig. Unit line, if any) 1700'				IA Bond No.	on file			
18. Distance from proposed location*	19. Proposed	Depth	20. BLW/E	NA DOILU NO. Y				
to nearest well <del>, drilling, c</del> ompleted		4 500		MT 0748				
applied for, on this lease, ft. 1,600'		4,500' ate date work	will start*	23. Estima	ated du	ration		
21. Elevations (Show whether DF, KDB, RT, GL, etc)	22. Approxim	11/15/99		1	30 days			
GL-3372	24 4	ttachmonte						
The following completed in accordance with the requirements of O	Inshore Oil an G	as Order No. 1.	shall be atta	-	D'WI	ATER	BASH	
The following completed in accordance and		CARLSU	AD COM	11000	- · · ·		10013848 •• Fond on	rijo (see
<ol> <li>Well plat certified by a registered surveyor.</li> </ol>	4	. Bond to cover	the operation	ns unless cove	ered by a	an existir	ig bond on	The (See
2. A Drilling Plan.		Item 20 above						
3. A Surface Use Plan (if the location is on National Forest Sytem	n Lands, 5	5. Operator cert	ification.				he requir	d by the
the SUPO shall be filed with the appropriate Forest Service Off	fice) f	5. Such other si		formation and/	or plans	s as may	be require	su by the
		authorized of	ficer.					
25. Signature	Name (Printe	d/Typed)			Date			
make Canto		Mike Francis			9/	/30/99		
Title								
Agent								
Approved by Righture BHAY	Name (Printe	ed/Typed)			Date		281	
Title	Office					Â	PHOVE	DFORIYEAR
	ROS	WELL FIELD	OFFICE		111- Ale a 1	applicant	to conduct	
Assistant Field Office Manager. Lapichiomed Portifices Not warrant or certify the applicant holds legal or operations theron.	r equitable title to t	hose rightes in the	e subject lease	which would en		аррисани		
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 pers	on knowingly and	willfully to mak	e to any departm	nent or a	igency of t	he United	action
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it of States any false, fictitious or fraudulent statements or representations as to	o any matter within	its jurisidiction.						10/19/19
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UPER OGRID NO.			Apph	OVAL SU	BJE(	ot to		
PROPERTY NO 35			144	FAL REC	MIR	FMFN	TS AN	
POOL CODE <u>76//</u>	5							1
EFF. DATE //-/-	79			IAL STIP	ULAI	IONO	P	$\sim$
APINO. 30-025	- 3475	51		CHED				$\mathcal{O}$

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

District IV PO Box 2088, Santa Fe, NM 87504-2088

# OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

		WE	LL LO	CATIO	N AND ACF	REAGE DEDIC				
1AP	PI Number Pool Code 'Pool Name									
30-0	25.	3475	7	611-	5	Dr	aper <u>Mill (</u> W	olfcamp)	)	ell Number
'Property					Property				are and	2
250			<u> </u>		*Operator				•1	levation
'ogrid 7377	NO.				NRON OIL &	GAS COMPANY				3372
				10	°Surface I					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West		County
F	15	25-S	33-E		1700'	NORTH	1760'	WES		LEA
		11 H	Bottom	Hole	Location If	Different Fr	om Surfac			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County
"Dedicated Acr	es <sup>13</sup> Joint	or Infill <sup>14</sup> Ca	onsolidatio	n Code <sup>18</sup> (	Order No.		L,,,	L		
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NO ALLOW	ABLE W	TLL BE AS	SIGNEI	) TO TH	IIS COMPLETI	ON UNTIL ALL	INTERESTS	HAVE BE	EN CC	NSOLIDATED
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16 1			$\tau \sim \tau$				17 OPE	RATOR	CERT	IFICATION
P										contained herein is knowledge and belief.
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			ENRON O	IL & GAS	COMPANY			hi Th	6. MLCI	··
			, OCHOA "I	15 FEDERA	L No. 2 7'59.26"		Signature	Francis		
	1760'			NG.= 103°3 Y = 4129	3'47.17"		Printed Nam			
		_		X = 7385			Agent	• •		
-							<b>Title</b> 9-30-	00		
-							 Date	- 27	<u>-</u>	
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									02	_/

### ENRON OIL & GAS COMPANY OCHOA "15" FEDERAL NO. 2 1,700' FNL & 1,760' FWL SEC. 15, T25S, R33E LEA COUNTY, NM

# 1. GEOLOGIC NAME OF SURFACE FORMATION: Permian

# 2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Delaware5050'Bone Spring9200'First Bone Spring Sd9850'3<sup>rd</sup> Bone Spring Sd11900'Wolfcamp Marker12400'Wolfcamp Pay13300'Wolfcamp Pay Lower13750'Bell Lake Pay13950'

# 3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	100'
Upper Penn	

Fresh Water Gas

### 4. CASING PROGRAM

Hole Size	Interval	OD Casing	Weight Grade Jt. Cond. Type
$14^{3/4}$	0-650'	11 3/4"	Weight Grade Jt. Cond. Type 42# H-40
11"	0-4000'	8 5/8"	32# <b>J-</b> 55 LT&C
11"	4000-5000'	8-5/8"	32# HCK LT&C
7 7/8"	0-12800'	5 1/2"	17# S95/P110 L&TC
4 3/4"	0-14300'	2 7/8"	6.5# N80
	• • • • • •		

### Cementing Program:

2 7/8" C

11 3/4" Surface Casing:

8 5/8" 1<sup>st</sup> Intermediate:

flocele, 250 sx Premium Plus, 2% Calcium Chloride 5 <sup>1</sup>/<sub>2</sub>" 2<sup>nd</sup> Intermediate: Cement w/930 sx Premium, 3% Econolite, 5#/sx

Salt (3%), 0.2% HR5, .25#/sk Flocele, 250 sx Prem 50/50 Poz mix 'A', 2% Halliburton-Gel First 2%, 0.5% Halad-322. This is designed to bring TOC to 4500'.

Cement to surface with 200 sx Prem Plus, 3%

150 sx Prem Plus, 2% Calcium Chloride

Econolite, 25 Calcium Chloride, 0.25#/sx Flocele,

Cement to surface with 800 sx Interfill C, .25#/sx

Casing	135 sx Prem, 0.3% Halad-344, 0.3% Halad-413, 0.3% Super CBL, 0.2% SCR-100
	This designed to bring TOC to 12300 +/

### ENRON OIL & GAS COMPANY OCHOA "15" FEDERAL NO. 2 1,700' FNL & 1,760' FWL SEC. 15, T25S, R33E LEA COUNTY, NM

# 5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

# (SEE EXHIBIT #1 and #2)

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram-type (5000 psi WP) preventer and an annular preventer (5000-psi WP). Units will be hydraulically operated and the ram-type will be equipped with blind rams on top and drill pipe rams on bottom. All BOP's and accessory equipment will be tested to 600 psi before drilling out of surface casing. Before drilling out of 1st intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000/1000 psi and the annular to 3500/5000-psig pressure. The blowout preventer equipment (BOP) shown in Exhibit 2 will consist of a double ram-type (10,000 psi) preventer and an annular preventer (5,000 psi). Before drilling below  $2^{nd}$  Intermediate ram type BOP and accessory equipment will be installed and tested to 10,000/1,000 psi and the annulus to 3500/1000. This equipment will be used from  $\pm 12,800$ ' to TD.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

# 6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

The well will be drilled to TD with a combination of brine, cut brine, and polymer/KCL mud system. The applicable depths and properties of this system are as follows:

Wt	VISCOSITY	waterioss	
(PPG)	<u>(sec)</u>	<u>(cc)</u>	
8.5	40-45	N.C.	
10.0	30	N.C.	
8.4	28	N.C.	
10-14.0	28/45	0/<1 CC	
	(PPG) 8.5 10.0 8.4	(PPG)         (sec)           8.5         40-45           10.0         30           8.4         28	(PPG)         (sec)         (cc)           8.5         40-45         N.C.           10.0         30         N.C.           8.4         28         N.C.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

# 7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

(A) A kelly cock will be kept in the frill string at all times.

(B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.

### ENRON OIL & GAS COMPANY OCHOA "15" FEDERAL NO. 2 1,700' FNL & 1,760' FWL SEC. 15, T25S, R33E LEA COUNTY, NM

(C) A mud logging unit complete with H2S detector will be continuously monitoring drilling perpetration rate and hydrocarbon shows from 5000' to TD.

# 8. LOGGING, TESTING AND CORING PROGRAM:

1<sup>st</sup> Log run @ +/- 12,800' will consist of GR-Dual Induction Focused and GR-Compensated Density-Neutron from TD to intermediate casing with a GR-Compensated Neutron run from intermediate casing to surface and optional Sonic from TD to Intermediate casing.

 $2^{nd} \log run @ +/-14,300' will consist of GR-Compensated Density-Neutron caliper from TD to bottom of <math>2^{nd}$  Intermediate

Possible sidewall cores based on shows.

# 9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:

The estimated bottom hole temperature (BHT) at TD is 175 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 9000 psig. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation zones have been reported in offsetting wells.

# 10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

The drilling operation should be finished in approximately one month. If the well is productive, an additional 30-60 days will be required for completion and testing before a decision is made to install permanent facilities.

### ENRON OIL & GAS COMPANY OCHOA "15" FEDERAL NO. 2 1,700' FNL & 1,760' FWL SEC. 15, T25S, R33E LEA COUNTY, NM

# SURFACE USE AND OPERATIONS PLAN

#### 1. EXISTING ROADS:

Access to location will be made as shown on Exhibit #3

Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on this lease.

# 2. PROPOSED ACCESS ROAD:

1,224.1' of new road is required. Exhibit #3A

No turnouts necessary.

No culverts, cattleguards, gates, low-water crossings are necessary.

Surfacing material consists of native caliche to be obtained from the nearest BLMapproved caliche pit. Any additional materials required will be purchased from the dirt contractor.

# 3. LOCATION OF EXISTING WELLS:

Exhibit #4 shows all existing wells within a one-mile radius of this well.

# 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

There are no existing production facilities. If production is encountered, a temporary facility will be established on the drill pad, and if warranted, a production facility would be built at a later date in the immediate area of the drill pad location. If the well is productive, the flowline would also be located on the drill-pad site and no additional disturbance will occur.

# 5. LOCATION AND TYPE OF WATER SUPPLY:

Fresh water for drilling will come from water well C-2373 in section 13,25S,33E, in addition brine water will be purchased from commercial sources and transported to the well site over the roads as shown on Exhibit #3.

### ENRON OIL & GAS COMPANY OCHOA "15" FEDERAL NO. 2 1,700' FNL & 1,760' FWL SEC. 15, T25S, R33E LEA COUNTY, NM

# 6. PLANS FOR RESTORATION OF THE SURFACE:

After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Location will be cleaned of all trash and junk to leave the well in an aesthetically pleasing condition as possible.

Any unguarded pits containing fluid will be fenced until they are dry and back filled.

After abandonment of the well, surface restoration will be in accordance with current federal laws and regulations. Location will be cleaned, and The wellpad removed to promote vegetation and disposal of human waste will be complied with. Trash, waste paper, garbage and junk will be hauled to an approved disposal site in an enclosed trash trailer.

All trash and debris will be removed from the well site within 30 days after finishing drilling and/or completion operations.

### **ANCILLARY FACILITIES:**

No airstrip, campsite, or other facilities will be built.

### WELL SITE LAYOUT:

Exhibit #5 shows the relative location and dimensions of the well pad.

### ENRON OIL & GAS COMPANY OCHOA "15" FEDERAL NO. 2 1,700' FNL & 1,760' FWL SEC. 15, T25S, R33E LEA COUNTY, NM

#### **OTHER INFORMATION:**

The area around the well site is grassland and the topsoil is duned and sandy. The vegetation is native scrub grasses with abundant oakbrush, sagebrush, yucca, and prickly pear.

#### **CERTIFICATION:**

I HEREBY CERTIFY that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Enron Oil & Gas Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

W. D. Smeltzer Drilling Manager

will Amapa

Date: 10-1 - 99

# ENRON OIL & GAS COMPANY OCHOA "15" FEDERAL NO. 2 1,700' FNL & 1,760' FWL SEC. 15, T25S, R33E LEA COUNTY, NM

### ATTACHMENT TO EXHIBIT #1 & 2

- 1. Wear ring to be properly installed in head.
- 2. Blow out preventer and all fittings must be in good condition, 5000 psi W.P. minimum. Exhibit #1 and 10,000 psi W.P. minimum, Exhibit #2.
- 3. All fittings to be flanged
- 4. Safety valve must be available on rig floor at all times with proper connections, valve to be full bore 5000 psi W.P. minimum.
- 5. All choke and fill lines to be securely anchored especially ends of choke lines.
- 6. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
- 7. Kelly cock on kelly.
- 8. Extension wrenches and hand wheels to be properly installed.
- 9. Blow out preventer control to be located as close to driller's position as feasible.
- 10. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation, and meet all API specifications.



Ochoa "15" Federal No. 2



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Exhibit #1

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Ochoa "15" Federal No. 2

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LOCATION VERIFICATION MAP



SCALE: 1" = 2000' WTC 45690

SEC. <u>15</u> TWP. <u>25-S</u> RGE. <u>33-E</u>

SURVEY N.M.P.M

COUNTY LEA STATE NM

DESCRIPTION \_\_\_\_\_\_\_ 1700' FNL & 1760' FWL

ELEVATION 3372

OPERATOR \_\_\_\_\_ ENRON OIL & GAS COMPANY \_\_\_\_

LEASE OCHOA "15" FEDERAL No. 2

USGS TOPO MAP <u>BELL LAKE, NEW MEXICO AND</u> PADUCA BREAKS EAST, NEW MEXICO Exhibit 3

CONTOUR INTERVAL 10'

# WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

915-685-3800



BEGINNING at a point in the southwest corner of a well pad for Enron Oil & Gas Company, OCHOA "15" FEDERAL No. 1, from which point the northeast corner of Section 15, T-25-S, R-33-E, N.M.P.M., Lea County, New Mexico, bears N 00° 00' 50" E, 2106.0 feet and N 89° 55' 38" E, 2133.9 feet;

THENCE N 80° 16' 16" W, with the centerline of proposed road, 1224.1 feet to a point in the southeast corner of a well pad for Enron Oil & Gas Company, OCHOA "15" FEDERAL No. 2, for the end of this road, from which point the northwest corner of said Section 15 bears N 89° 52' 30" W, 1960.0 feet and N 00° 00' 50" E, 1900.0 feet.

Exhibit 3A

I hereby certify that this plat was prepared from an actual survey made on the ground and meets or exceeds all requirements for land surveys as specified by the state of New Mexico.

FC 'O REGISTERED SURVEYOR 8278 LAND PROFESSIONAL

Earl Foote Registered Professional Surveyor New Mexico Certificate No. 8278 PROPOSED ROAD TO SERVE OCHOA "15" FEDERAL No. 2

# ENRON OIL AND GAS COMPANY

1224.1 feet of proposed road in Section 15, T-25-S, R-33-E, N.M.P.M., Lea County, New Mexico

### WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS	MIDLAND, TEXAS				
Survey Date: 9-23-99	Date: 9-25-99	Scale: 1" = 1000'			
WTC No. 45690	Drawn By: JLE	Sheet 1 of 1			

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U.S.	U.S.	26394	Red Hills-F-			King Res. A Portage - Feed Fill S. Do Yott
E 3004 3 b - Tenn Gas Rich-Base 21 3483	300 <sup>20</sup> 31 + 700 <sup>20</sup> 31 + 700 <sup>20</sup> 300 <sup>20</sup> 31 + 700 <sup>20</sup> 300 <sup>20</sup>	K - 14 59 Union 32 N.H. Wills Cont/1.c1. [1 3385 10 5030 Outol Onc. DA 1 9 61 WCa. 18/1	GTAGE 1,700' U.S. Sec. 15 Union R Lea Co. Union R Well wi	ederal No. 2 Wel FNL & 1,760' FWL -T25S-R33E , NM thin one (1) mil		4 : 3
A Oil Vz ++sz	Kaiser-Francis Duel HBP 15321Jeff 1800 - U.S. Duel 1600 - U.S. 1800 - U.S. 1800 - U.S. Kaiser- Francis Kaiser- Francis HBP	Made Hills     1     Made Suit       Unit     State     0     Male Suit       Marco     Marco     Marco       Marco     Marco     Unit       Marco     Unit     Unit	lde i Union H H P s op 127 A Earl Gordeke Union H B P	DALEN PRS MALEN UNE NET 21 2004 Res 101 1300 111 21000 15 200 3 1 2005 15 94 670 9 44670 3 H 98 1600 U.S. MI 62 Hanne	H-C0 ⇒ ∞ Texaco D Fashen Sfele Texaco Sf E1 3374 TOB210 T05243 D/A11 6 62	Sta Yate: Pet et 12 i 2004 94102 75 20



RTH



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VICINITY MAP



SCALE: 1" = 4 MILES

WTC 45689

DESCRIPTION \_\_\_\_\_1650' FNL & 1650' FEL

ELEVATION 3419

OPERATOR \_\_\_\_\_ ENRON OIL & GAS COMPANY \_\_\_\_

LEASE VACA DRAW "20" FEDERAL No. 1

WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

915-685-3800