District 1 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 PO Box 2088, Santa Fc, NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

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

Form C-101 Revised February 10, 1994 Instructions on back Submit to Appropriate District Office State Lease - 6 Copies Fee Lease - 5 Copies

AMENDED REPORT

	IIUN .	FOR	PERMIT	TO DRI	ILL, RE-EN	ITER, DEE	PEN, PLUG	BACK, (DR AI	DD A ZONE
			-		ame and Address.			1	_	RID Number
Enron Oil & Gas Company									73	
	P. O. Box 2267									PI Number
⁴ Prope	Mid rty Code	lland	<u>, TX 79</u>	702		Toperty Name			<u></u>	25-34357
231	•		Hı	int "23"		roperty Hame				• Well No. 1
					⁷ Surface	Location				•
UL or lot no.	Section	Town			st line	County				
N	23	235	37E		330	South	1950			
		8	Propose	i Bottom	Hole Loca	ion If Diffe	rent From Su	rface		L]
UL or lot no.	Section	Towns	bip Range	Lot Ida	Feet from the	North/South in		East/Wes	st line	County
		'P	roposed Pool 1	1	<u> </u>	<u> </u>	" Prot	posed Pool 2		
Teag	rue	\mathcal{E}^{\prime}	llenb	~ ~ 0.01	-					
~ 1				7	····					·
" Work T N	ype Code		¹² Well Ty O	pe Code	¹³ Cable R	Rotary	" Lease Type (S	Code		d Level Elevation 3261
"* Mu	ltiple		" Propose 11300	d Depth		Formation "Contractor 12.			" Spud Date 12/30/97	
				¹ Propos	ed Casing a	nd Cement	Program			
Hole Siz	le l		Casing Size		ng weight/foot	Setting Dep		of Cement		Estimated TOC
14 3/4		11 3/4		The second s	H-40 A ST	¥C 450	250		Surface	
11		8 5/8			J55 LT&C	4200	110	0	Su	face
7 7/8		5 1	/2	17#	S95 & N8) 11300	735		700	00
		<u> </u>		_ <u> </u>	LT&C				<u> </u>	
Describe the p	roposed pr	ogram.	If this applical	ion is to DEE	PEN or PLUG BA	CK give the data of	a the present produc	tive zone and		
11 3/4	" Surf	ace	Casing:	Cement	to surfac	e w/250 s	Class C+29	7 CaC124		flooolo
8 5/8"Intermediate: Cement to surface with 800 sx + ½#/sx flocele and 300 sx CL 5 ½" Production Casing: Cement w/735 sx 50/50 Cl .1% Diacel LWL. This cem						1+2% CaC12	L + .4%	CF-14		
BOP Dia	agram ;	atta	ched	TOC to	7000'		mit Expires D ate Unies s	i Year	² rom A	Approval
I hereby certify	that the inf			true and comp	lete to the best	OIL				
of my knowledge and belief. Signature:					Approved by: ORIGINAL SIGNED BY CHRIS WILLIAMS				8	
Printed name:	Linda	a (Joł	nyston		т	tle:	DISTRICT	BY CHRIS	WILLIA BOR	MS
Title: Agent					··					
					^	pproval Date	- 4 ⁶ 2	Expiration D	ale:	

5

e * * * * *

.



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

District III 1000 Rio Brazos Rd., Axtec, NM 87410

5

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

State of New Mexico Energy, Minerals & Natural Resources Department

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

		W	ELL LO)CATIO	N AND ACH	REAGE DEDI				
¹ API Number				² Pool Co	1	Tego cee East Towler	³ Pool Na	me		
30.02	5.34	357		585			Ellenburger			
⁴ Property Code				⁵ Property				• W	ell Number	
23135			HUNT "23" WELL				1.		1.	
'OGRED 7377	No.				⁸ Operator			⁹ Elevation		-
/ / / /				ENI	RON OIL AND	GAS COMPANY		3261		3261
				1	^o Surface I	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County
N	23	23–S	37–E		330	SOUTH	1950	WES	ST	LEA
		11	Bottom	Hole	Location If	Different Fr	om Surfac	e		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County
										·
¹² Dedicated Acre	a ¹³ Joint	or Infill ¹⁴ C	Consolidatio	n Code ¹⁵	Order No.	i	L			
40										
			SSIGNET		IS CONDIET	ON UNTIL ALL	INTEDESTS		FEN CO	NSOLIDATED
NU ALLOWA	ABLE W.					EEN APPROVEI			EEN CC	NSOLIDATED
16	<u></u>			1						
10							¹⁷ OPE	RATOR	CERT	IFICATION
								•		ontained herein is moviedge and bellef.
									0	
								. /	$\sim l$	
							ton	dist	An	Im !!
							Signature		7=	
								inda Jo	Instor	L
							Printed Nam	ne Igent		
							Title			
							1	2/23/97	7	
							Date	<u></u>		
										IFICATION
								-		shown on this plat surveys made by me
							or under my	supervision, e	und that the	same is true and
							correct to be	-		
								DECEN	ABER 2	2 1997
							Date of Sur Signature a	•• y /2	APLF	22
							Signature a	nd Seal of		A Average
		Y:468900						REG	7	161E1
		X:870193					5	剧	827	8 (201
			7'00.3849" 08'07.727				Ca	AZ	to	ノ /ミ/
								T ST		(IN)
	1950		Q					<u> </u>	FESSIO	NALLAND SURVEYOR
		330'					Certificate	Number	8278	
		<u> </u>	Y				ال			



. .

ENRON OIL & GAS COMPANY Hunt "23" Well No. 1 330 FSL & 1950 FWL SEC. 23, T23S, R37E LEA COUNTY, NM

1. <u>GEOLOGIC NAME OF SURFACE FORMATION</u>: Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	850'
Bone Spring	6700'
Wolfcamp	8600'
Ellenburger	11100
TD	11300'

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

Upper Permian Sands 100'	Fresh Water
Upper Penn	Gas

4. CASING PROGRAM:

.

Hole Size	Interval	OD Casing	Weight Grade Jt. Cond. Type
14 3/4"	0-450'	11 3/4"	42# H-40 A ST&C
11"	0-4200'	8 5/8"	32# J-55 LT&C
7 7/8"	700-11300	5 1/2"	17# N-80 LTC
			17# S-95 LTC

Cementing Program:

11 ¾" Surface Casing:	Cement to surface with 250 sx Class C+2% CaCl2 + ¼#/sx flocele
8 5/8" Intermediate:	Cement to surface with 800 sx Premium Plus lite + 15#/sx Salt + ¼#/sx Flocele and 300 sx CL C + 2% CaCl2.
5 ¹ / ₂ " Production Casing:	Cement with 735 sx 50/50 sx CL H/Poz+2% gel + 4% CF-14, .1% Diacel LWL. This cement slurry is designed to bring TOC to 7500'.



ENRON OIL & GAS COMPANY Hunt "23" Well No. 1 330 FSL & 1950 FWL SEC. 23, T23S, R37E LEA COUNTY, NM

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

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 will be installed on the 11 $\frac{3}{4}$ " surface casing and used continuously until TD is reached. All BOP's and accessory equipment will be tested to 600 psi before drilling out of surface casing. Before drilling out of intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000 psi and the annular to 70% of rated working pressure (3500 psi).

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. A 2" kill line and 4" choke line will be included in the drilling spool located below the ram-type BOP. Other accessories to the BOP equipment will include a kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold with 5000 psi WP rating.

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 Viscosi	ity Waterlo	SS
Depth	Type	(ppg)	<u>(sec)</u>	<u>(cc)</u>
0-650'	Fresh Water (spud)	8.5	40-45	N.C.
650'-4000'	Brine Water	10.0	30 N.C.	
4000'-TD	Cut Brine & Polymer/KCL	8.8-9.2	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. <u>AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:</u> (G) A kelly cock will be kept in the frill string at all times.

(H) 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 Hunt "23" Well No. 1 330 FSL & 1950 FWL SEC. 23, T23S, R37E LEA COUNTY, NM

(I) A mud logging unit complete with H2S detector will be continuously monitoring drilling perpetration rate and hydrocarbon shows from 2000' to TD.

8. LOGGING, TESTING AND CORING PROGRAM:

- (H) The electric logging program 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 Sonic from TD to Intermediate casing.
- (I) Possible side-wall cores based on shows.

9. <u>ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND</u> <u>POTENTIAL HAZARDS</u>:

No abnormal pressures or temperatures are anticipated. The estimated bottom hole temperature (BHT) at TD is 175 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 3800 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 week. If the well is productive, an additional 30-45 days will be required for completion and testing before a decision is made to install permanent facilities.



ENRON OIL & GAS COMPANY Hunt "23" Well No. 1 330 FSL & 1950 FWL SEC. 23, T23S, R37E LEA COUNTY, NM

SURFACE USE AND OPERATIONS PLAN

1. EXISTING ROADS:

Access to location will be made as shown on Exhibit #2

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:

1020 Feet of new access road is required.

No turnouts necessary.

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

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

3. LOCATION OF EXISTING WELLS:

Exhibit #3 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:

Water for drilling will be purchased from commercial sources and transported to the well site over the roads as shown on Exhibit #2.

6. PLANS FOR RESTORATION OF THE SURFACE:

ENRON OIL & GAS COMPANY Hunt "23" Well No. 1 330 FSL & 1950 FWL SEC. 23, T23S, R37E LEA COUNTY, NM

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 well pad removed to promote vegetation. Reseeding will be as per BLM specifications.

7. METHODS OF HANDLING WASTE DISPOSAL:

A small reserve pit will be utilized. Reserve pit will be evacuated of drilling fluid within 10 days after the well is completed.

Drill cuttings will be encapsulated in plastic and buried two feet below ground level.

Water produced during tests and waste water will be saved and hauled to a disposal well. Oil produced during tests will be in test tanks until sold.

Current laws and regulations pertaining to the 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.

8. ANCILLARY FACILITIES:

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

9. WELL SITE LAYOUT:

Exhibit #4 shows the relative location and dimensions of the well pad.



•

ENRON OIL & GAS COMPANY Hunt "23" Well No. 1 330 FSL & 1950 FWL SEC. 23, T23S, R37E LEA COUNTY, NM

Ē

10. OTHER INFORMATION:

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

11. 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.

Smith

Division Production Manager

Date: 12/23/97



ENRON OIL & GAS COMPANY Hunt "23" Well No. 1 330 FSL & 1950 FWL SEC. 23, T23S, R37E LEA COUNTY, NM

ATTACHMENT TO EXHIBIT #1

- 1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening, with minimum I.D. equal to preventer bore.
- 2. Wear ring to be properly installed in head.
- 3. Blow out preventer and all fittings must be in good condition, 5000 psi W.P. minimum.
- 4. All fittings to be flanged
- 5. Safety valve must be available on rig floor at all times with proper connections, valve to be full bore 5000 psi W.P. minimum.
- 6. All choke and fill lines to be securely anchored, especially ends of choke lines.
- 7. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
- 8. Kelly cock on kelly.
- 9. Extension wrenches and hand wheels to be properly installed.
- 10. Blow out preventer control to be located as close to driller's position as feasible.
- 11. 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.

ENRON OIL & GAS COMPANY

Hunt "23" Well No. 1

ATTACHMENT I



. .



VICINITY MAP



WTC 45115

SEC. ______ TWP. _____ RGE. _____ 37-E____

SURVEY N.M.P.M

DESCRIPTION 330' FSL & 1950' FWL

ELEVATION 3261'

OPERATOR _____ ENRON OIL & GAS COMPANY

LEASE HUNT "23" WELL NO. 1

SCALE: 1" = 4 MILES

WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

915-685-3800 🦈



LOC. ION VERIFICATION N P



CONTOUR INTERVAL __10 '

WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

915-685-3800



SECTION 26, TOW ASHIP 23	SOUTH, RANGE 37 EAUT, N.M.P.M.
LEA COUNTY,	NEW MEXICO
PROPOSED ROAD	10+20.0-SECTION LINE 2'30" E 1020.0"
2 N 89'58'00' W 1535.3'	LL 0+00.0-BEGIN ROAD

CENTERLINE DESCRIPTION OF A PROPOSED ROAD:

BEGINNING at the northwest corner of an existing well pad, from which point the northwest corner of Section 26, T-23-S, R-37-E, N.M.P.M., Lea County, New Mexico, bears N 89° 58' 00" W, 1535.3 feet and N 00° 12' 03" W, 1002.9 feet;

THENCE N 10° 32' 30" E, with the centerline of proposed road, 1020.0 feet to a point in the north line of Section 26, for the end of this road, from which point the northwest corner of Section 26, bears N 89° 58' 00" W, 1725.4 feet.

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	Γ
New Mexico.	\vdash
EAN MEXICA	
Earl Forto TEAL 8278	
Carl toolo FA	E
Earl Foote Registered Professional Surveyor	S
New Mexico Certificate No. 8278	W

PROPOSED ROAD TO SERVE HUNT "23" WELL NO. 1

ENRON OIL AND GAS COMPANY

1020.0 feet of proposed road in Section 23, T-23-S, R-37-E, N.M.P.M., Lea County, New Mexico

WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS	MIDLAND, TEXAS		
Survey Date: 12-22-97	Date: 12-23-97	Scale: 1" = 1000'	
WTC No. 45115	Drawn By: J.L.E.	Sheet 1 of 2	





.

.

