	·							
	ew N	lexico Oil	Conservas	on Divisio	Oistrict	1		
		16	25 N. Frenc	th Drive				
		H	lobbs, NM	88240				
Forr	n 3160-3					FORM A	PPROVED	
	just 1999)						1004-013	
						xpires Nov	ember 30,	2000
	UNITED STATES				5. Lease Se	rial No.		
	DEPARTMENT OF THE IN	TERIOR			NM-26394			
	BUREAU OF LAND MANG	EMENT			6. If Indian,	Allottee or	i ribe Nam	e
	APPLICATION FOR PERMIT TO D		FNTER					
_					7. If Unit or		ont Name	and No
1a.	Type of Work: X DRILL REEN	IER					ient, wante	
					8. Lease Na	me and We	II No.	
1b.	Type of Well: Oil Well XGas Well Other	Single Z	one Mul	tiple Zone	Vaca Draw "2	0" Federal N	lo. 1	
2.	Name of Operator				9. API Well		<u> </u>	· · · · · · · · · · · · · · · · · · ·
- .	Enron Oil & Gas Company				30-0)25-	<u> </u>	<u> </u>
3a.	Address	3b. Phone No	. (include area	code)	10. Field and	d Pool, or E	xploratory	1
	P.O. Box 2267, Midland, TX 79702		(915)686-3714		Draper Mill (V	Volfcamp)		
4.	Location of Well (Report location clearly and in accordance)	nce with any S	tate requireme	nts.*)	11. Sec., T.,	R., M., or B	lk. And Su	rvey or Area
	At surface 1,650' FNL & 1,650' FEL							
	At proposed prod. Zone 1,650' FNL & 1,650' FEL				Sec 20, T25S	, R33E		
1.4	At proposed prod. Zone 1,650' FNL & 1,650' FEL Distance in miles and direction from nearest town or pos				12. County of	·	13. State	2
14.	29 miles SW of Jal, NM			_	Lea		NM	
15	Distance from proposed*	16. No. of Ac	res in lease	17. Spacing	Unit dedicated	to this we	II	
	location to nearest							
	property or lease line, ft.				E 10 000			
_	(Also to nearest drlg. Unit line, if any) 1650'	2560	Dent		E/2 - 320 acr			······
18.	Distance from proposed location*	19. Proposed Depth 20. BLM/BIA Bond No. on file						
	to nearest well, drilling, completed applied for, on this lease, ft. N/A	14,500'		MT 074	3			
21	Elevations (Show whether DF, KDB, RT, GL, etc)		nate date work	will start*	23. Estimate	ed duration		
6 I.	GL - 3419		11/1/99			30 days		
			Attachments					
The	following completed in accordance with the requirements of O	nshore Oil an G	as Order No. 1,	shall be attache	d to this form:	n Mate	R BAS	IN
			CARLS 4. Bond to cove	urd Cur		l hv an evisti	ing bond or	n file (see
1. 1	Well plat certified by a registered surveyor.		4. DONG TO COVE	r the operations	unicas covered	. Jy an chiat		(000
			Itom 20 abov	e)				
2. 1	A Drilling Plan.	lands the	Item 20 abov	•				
2. / 3. /	A Surface Use Plan (if the location is on National Forest Sytem	Lands, the	5. Operator cer	tification.	mation and/or	plans as ma	y be require	ed by the
2. / 3. /		Lands, the		tification. site specific info	mation and/or	plans as ma	y be require	ed by the
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District I			Fnerry	State of N	ew Mexico ral Resources Departs	mont	Dorrig	od Fobr	Form C-102
PO Box 1980, Hobbs, NM District II	88241-1980		Eller KJ,		tai nesources Depart	ment			ruary 21, 1994 tions on back
PO Drawer DD, Artesia, N. District III	M 88211-0719)	OIL		TION DIVISIO x 2088	ON Subm	it to Appro	opriate	District Office se - 4 Copies
1000 Rio Brazos Rd., Azte District IV	c, NM 87410		Sar		A 87504-20	88			se - 3 Copies
PO Box 2088, Santa Fe, 1	M 87504-208	38						AMEN	DED REPORT
	747								
API Number	YY		Pool G		REAGE DEDI	Pool Ne			
30-025	347.	50	761	15	Draper Mi	11 (Wolfcam			
⁴ Property Code	~~/~~			* Property		· · · · · · · · · · · · · · · · ·		'We	ll Number
2502 'OGRID No.			VAC	A DRAW ": • Operato	20" FEDERAL			• 57	1 levation
7377			ENRO	N OIL & GAS					3419
L			1	^o Surface	Location		I	<u>,</u>	
UL or lot no. Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	line	County
G 20	25-S	33-E		1650	NORTH	1650	EAST	Г <u> </u>	LEA
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UL or lot no. Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	line	County
¹² Dedicated Acres ¹³ Joint	or Infill ¹⁴ C	onsolidatio	n Code ¹⁸ (Drder No.		l	1	l	
320									
NO ALLOWABLE W					ION UNTIL ALL BEEN APPROVE			en coi	NSOLIDATED
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			F	1		Mike Fr			
		ENRON OIL	A GAS COM		1650'	Printed Nam			
		LAT.	& GAS COM "16" STATE = 32.07"	07.65"		Agent Title			
		LONG Y X	= 103°35' = 407687 = 729944	27.95" .58 .73		<u>9/29/9</u> Date	9		
							VEYOR (TERTI	FICATION
			-			I hereby certi	ity that the well	location st	nown on this plat
			-			or under my	supervision, and		uveys made by me ame is true and
			-					0 7	1000
			-			Date of Sur			
	· · · · · · · · · · · · · · · · · · ·				<u></u>	Signature a	nd see Black		Surveyor:
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ENRON OIL & GAS COMPANY VACA DRAW "20" FEDERAL NO. 1 1,650' FNL & 1,650' FEL SEC. 20, 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 Sd9850'3rd 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'	Fresh Water
Upper Penn	Gas

4. CASING PROGRAM

Hole Size	Interval	OD Casing	Weight Grade Jt. Cond	l. Type
14 3/4	0-650'	11 3/4"	42# H-40 ST&C	WITNESS
11"	0-4000'	8 5/8"	32# J-55 LT&C	MINEOO
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:

11 3/4" Surface Casing:

8 5/8" 1st Intermediate:

 $5\frac{1}{2}$ 2nd Intermediate: Cem

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 800 sx Interfill C, .25#/sx flocele, 250 sx Premium Plus, 2% Calcium Chloride

Cement to surface with 200 sx Prem Plus, 3% Econolite, 25 Calcium Chloride, 0.25#/sx Flocele,

150 sx Prem Plus, 2% Calcium Chloride

2 7/8" 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 +/
	1110 000-8-100 10 01-10

ENRON OIL & GAS COMPANY VACA DRAW "20" FEDERAL NO. 1 1,650' FNL & 1,650' FEL SEC. 20, 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 2nd 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 +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	Waterloss
<u>Depth</u>	Type	(PPG)	(sec)	<u>(cc)</u>
0-650'	Fresh Water (spud)	8.5	40-45	N.C.
650'-5000'	Brine Water	10.0	30	N.C.
5000'-12800	' Fresh Water	8.4	28	N.C.
12800'-1430	0'Brine & Polymer xcd	10-14.0	28/45	0/<1 CC

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 VACA DRAW "20" FEDERAL NO. 1 1,650' FNL & 1,650' FEL SEC. 20, 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:

1st 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 VACA DRAW "20" FEDERAL NO. 1 1,650' FNL & 1,650' FEL SEC. 20, 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:

2558.3' 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 VACA DRAW "20" FEDERAL NO. 1 1,650' FNL & 1,650' FEL SEC. 20, 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 VACA DRAW "20" FEDERAL NO. 1 1.650' FNL & 1,650' FEL SEC. 20, 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 Imp Date: 9-29-89

ENRON OIL & GAS COMPANY VACA DRAW "20" FEDERAL NO. 1 1,650' FNL & 1,650' FEL SEC. 20, 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.

7.

ENRON OIL & GAS COMPANY

Vaca Draw "20" Federal No. 1



. •

Exhibit #1

ENRON OIL & GAS COMPANY

Vaca "20" Federal No. 1



Exhibit #2

LOCATION VERIFICATION MAP

•..:

• ;



 SCALE: 1" = 2000'

 WTC 45689

 SEC. _______

 SURVEY _______

 N.M.P.M

 COUNTY ______

 LEA

 STATE ______

 DESCRIPTION ______

 1650' FNL & 1650' FEL

 ELEVATION _______

 3419'

 OPERATOR ______

 ENRON OIL & GAS COMPANY

LEASE VACA DRAW "20" FEDERAL No. 1

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

SECTION 20, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M. LEA COUNTY, NEW MEXICO



CENTERLINE DESCRIPTION OF A PROPOSED ROAD:

BEGINNING at a point in the north line of Section 20, T-25-S, R-33-E, N.M.P.M., Lea County, New Mexico, from which point the northeast corner of said Section 20 bears S 89° 58' 21" E, 177.1 feet;

THENCE S 34° 33' 48" W, with the centerline of proposed road, 2245.8 feet to a point in the southeast corner of a well pad for Enron Oil & Gas Company, VACA DRAW "20" FEDERAL No. 1, for the end of this road, from which point the northeast corner of said Section 20 bears S 89° 58' 21" E, 1450.0 feet and N 00° 02' 13" E, 1850.0 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 New Mexico. FOOT EARL MEX JAVEY 8278 TERED õ LAND PROFESSIONAL Earl Foote **Registered Professional Surveyor** New Mexico Certificate No. 8278

PROPOSED ROAD TO SERVE VACA DRAW "20" FEDERAL No. 1

ENRON OIL AND GAS COMPANY

	-
EXHIBIT 3A	
2245.8 feet of proposed road in	
Section 20, 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. 45689	Drown By: JLE	Sheet 3 of 3		



BEGINNING at a point in the east line of Section 17, T-25-S, R-33-E, N.M.P.M., Lea County, New Mexico, from which point the southeast corner of said Section 17 bears S 00° 01' 18" W, 257.4 feet;

THENCE S 34° 33' 48" W, with the centerline of proposed road, 312.5 feet to a point in the south line of said Section 17, for the end of this road, from which point the southeast corner of said Section 17 bears S 89° 58' 21" E, 177.1 feet.

I hereby certify that this plat was prepared from an survey made on the ground and meets or exceeds requirements for land surveys as specified by the st New Mexico.	
Earl Foote Registered Professional Surveyor New Mexico Certificate No. 8278	NU SURVEYOR

PROPOSED ROAD TO SERVE VACA DRAW "20" FEDERAL No. 1

ENRON OIL AND GAS COMPANY

	BIT 3A proposed road in
	6, 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. 45689	Drawn By: JLE	Sheet 2 of 3		

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VICINITY MAP



SCALE: 1" = 4 MILES

WTC 45689

 SEC.
 20
 TWP.
 25-S
 RGE.
 33-E

 SURVEY
 N.M.P.M

 COUNTY
 LEA
 STATE
 NM

 DESCRIPTION
 1650' FNL & 1650' FEL
 STATE
 NM

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



EOG Resources, Inc. P.O. Box 2267 Midland, TX 79702 (915) 686-3600

September 30, 1999

Bureau of Land Management 2909 West Second Street Roswell, NM 88201

> RE: Surface Damage Agreement Vaca Draw "20" Federal No. 1 Well Section 20, T25S, R33E Lea County, NM

Gentlemen:

Please be informed that no surface damage agreement has been reached between Enron Oil & Gas Company and W.H. Brinninstool, Ltd for damages occurring as a result of drilling and producing the referenced well.

Sincerely,

mike Usa Mike Francis

Agent

MILL BE RELEASED ELF / 261-695ED INDICATE WHEN INDICATE WHEN CONFIDENTIAL LOGS 0002/92