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	ICATION FC	DR PERMIT TO	<u>O DRIL</u>	L OR DEE	PEN	7. UNIT AGREEMENT NAME
18. TYPE OF WORK		DEEPEN				
b. TYPE OF WELL	GAS		SIN			8. FARM OR LEASE NAME, WELL NO.
2. NAME OF OPERATOR	WELL OTHE	R	20	ONE ZON		Diamond 18 Federal # 7
Enron 011 & Gas Co						9. API WELL NO.
3. ADDRESS AND TELEPHONE P.O. BOX 2267 M1		02				30-025-346.54
4. LOCATION OF WELL (Repor At surface	rt location clearly and in	accordance with any State r	equirements.	*)		Red Hills Bone Spring
990" FSL & 330" FI	WL A					11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zone 990° FSL & 330° F	ν Ξ M					Sec 18, 255, 34E
14. DISTANCE IN MILES AND D	DIRECTION FROM NEARE	ST TOWN OR POST OFFICE*				12. COUNTY OR PARISH 13. STATE
29 miles west of 15. DISTANCE FROM PROPOSE	Jal, NM D*		16. NO. OF	ACRES IN LEASE	17. NO. OF TO THIS	ACRES ASSIGNED
LOCATION TO NEAREST PROPERTY OR LEASE LINE (Also to nearest drig, unit	c, FT. line, if any) 330		640			80
18. DISTANCE FROM PROPOSE TO NEAREST WELL, DRILL	D LOCATION*			SED DEPTH		Y OR CABLE TOOLS
OR APPLIED FOR, ON THIS 21. ELEVATIONS (Show wheth	LEASE, FT. 210	0' to #6 well	12,6	00	Rota	22. APPROX. DATE WORK WILL START*
3346' GR						July 5, 1999
23.		PROPOSED CASIN	G AND CEM	IENTING PROGRAM		
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ENRON OIL & GAS COMPANY Diamond "18" Federal No. 7 990' FSL & 330' FWL SEC. 18, T25S, R34E LEA COUNTY, NM

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

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	850'
Delaware Mt. Group	5175'
Bone Spring Lime	9275'
3 rd Bone Spring Sand	12400'
TD +/-	12600'

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

Upper Permian Sands	100'	Fresh Water
3 rd Bone Spring Sand	12400'	Oil

No other formations are expected to give up oil, gas or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 11-3/4" casing at 650' and circulating cement back to surface, and 8-5/8" casing will be set at 5200' with cement circulated back to surface.

4. CASING PROGRAM:

<u>CASING FRO</u>	UNAM.		
Hole Size	<u>Interval</u>	OD Casing	Weight Grade Jt. Cond. Type
$\frac{14^{3/4}}{14^{3/4}}$	0-650'	11 3⁄4"	42# H-40 A ST&C
11"	0-5200'	8 5/8"	32# J-55 LT&C
7 7/8"	0-6500'	5 1/2"	17# P-110 LT&C
7 7/8"	6500'-12600'	5 1/2"	17# S- 95 LT&C

Cementing Program:

11 ³ / ₄ " Surface Casing:	Cement to surface with 250 sx Class C + 2% CaCl2 + 1/4#/sx flocele
8 5/8" Intermediate:	Cement to surface with 800 sx Premium Plus lite + $15\#/sx$ Salt + $\frac{1}{4}\#/sx$ Flocele and 300 sx CL C + 2% CaCl2.
5 ¹ / ₂ " Production Casing:	Cement with 1200 sx 50/50 sx CL H/Poz + 2% gel + 4% CF-14, .1% Diacel LWL. This cement slurry is designed to bring TOC to 4500'.

ENRON OIL & GAS COMPANY Diamond "18" Federal No. 7 990' FSL & 330' FWL SEC. 18, T25S, R34E 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	Viscosity	Waterloss
Depth	Type	(ppg)	<u>(sec)</u>	<u>(cc)</u>
0-650'	Fresh Water (spud)	8.5	40-45	N.C.
650'-5200'	Brine Water	10.0	30	N.C.
-	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. Auxillary Well Control and Monitoring Equipment:

- (A) A kelly cock will be kept in the drill 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.
- (C) A mud logging unit complete with H2S detector will be continuously monitoring drilling perpetration rate and hydrocarbon shows from 2000' to TD.

ENRON OIL & GAS COMPANY Diamond "18" Federal No. 7 990' FSL & 330' FWL SEC. 18, T25S, R34E LEA COUNTY, NM

8. LOGGING, TESTING AND CORING PROGRAM:

- (A) The electric logging program will consist of GR-Dual Laterolog-MSFL and GR-Compensated Density-Neutron from TD to intermediate casing with a GR-Compensated Neutron ran from Intermediate casing to surface
- (B) Possible side-wall cores based on shows.

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

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 5900 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:

Road and location work will not begin until approval has been received from the BLM. Anticipated spud date is unknown at the present time. Once drilling has commenced, the drilling operation should be finished in approximately 30 days. If the well is productive, an additional 30 to 45 days will be required for the completion and testing before a decision is made to install permanent facilities.

ENRON OIL & GAS COMPANY Diamond "18" Federal No. 7 990' FSL & 330' FWL SEC. 18, T25S, R34E 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:

1,275' of new access road is required.

No turnouts necessary.

No culverts, cattleguards, gates, low-water crossings, or fence cuts 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 #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.

ENRON OIL & GAS COMPANY Diamond "18" Federal No. 7 990' FSL & 330' FWL SEC. 18, T25S, R34E 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 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 2' below ground level.

Water produced during tests and waste water will be saved and hualed 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 n 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, steel mud pits, and location of major rig components. Pad area has been staked and flagged.

Only minor leveling of the well site will be required...

ENRON OIL & GAS COMPANY Diamond "18" Federal No. 7 990' FSL & 330' FWL SEC. 18, T25S, R34E LEA COUNTY, NM

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 sagebrush, yucca, and prickly pear.

There is no permanent or live water in the immediate area.

Cultural resources examination has been completed by Desert West Archaeology Consultants.

11. OPERATORS REPRESENTATIVE:

The field representative responsible for assuring compliance with the approved surface-use and operations plan is as follows:

Mr. Dewey Smeltzer	Phone:	Business	1/915/686-3601
2		Home	1/915/520-9608

ENRON OIL & GAS COMPANY Diamond "18" Federal No. 7 990' FSL & 330' FWL SEC. 18, T25S, R34E LEA COUNTY, NM

12. 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.

Robert C. Cauble Drilling Superintendent

Date: 6-Z-99



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Diamond 18 Federal #7



ENRON OIL & GAS COMPANY Diamond "18" Federal No. 7 990' FSL & 330' FWL SEC. 18, T25S, R34E LEA COUNTY, NM

ATTACHMENT TO EXHIBIT #1

- 1. Blow out preventer and all fittings must be in good condition, 3000 psi W.P. minimum.
- 2. All fittings to be flanged.
- 3. Safety valve must be available on rig floor at all times with proper connections, valve to be full bore 5000 psi W.P. minimum.
- 4. All choke and fill lines to be securely anchored, especially ends of choke lines.
- 5. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
- 6. Kelly cock on kelly.
- 7. Extension wrenches and hand wheels to be properly installed.
- 8. Blow out preventer control to be located as close to driller's position as feasible.
- 9. 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.



David M. Young, Jr. Registered Professional Surveyor New Mexico Certificate No. 14274 ST TEXAS CONSULTANTS, INC.

\mathbf{X}'	ENGINEERS-PLANNERS-SURVETORS				MIULANU, TEXAS				
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Res. K Enserch etal (102000) 3 1.200 (1-5-98) 94620 3 1.98 94620 (10000) (1-5-98) 16000	05 Texoco D Fosken 5 5 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7	Yates Pet etal 1 12 1 - 2004 19 4102 75 99 / Tarts (Per tot 19 402 75 99 / Tarts 19 402 (Per tot 19 402 (Pe	Fortson Oil 12 1 2004 Euromen, etc., 94117 F. Chiem 1/3	Sonto Fe Ener. 1/2 Penwell Ener.	Yates Pet., etal 747 (7-14-2000) 11 - 1 - 96 66927	Gulf I ↔ Pet., Gulf i 66' Eul/Yotes fed El 3913 To 5506 0/85'9 €1
Manala WBable /U.S. And TH Storell.	DATE-B-EI Engerich	SALADO	WCDISC. TD16330 0 12 1 2004 94117 5800 94117 5800 Amer.Petr. & Fed		Hill E Meeker "Yates - Fod"	3 5.1.

Enron Oil & Gas Company Diamond 18 Federal #7 990' FSL & 330' FWL Sec 18, T25S, R34E Lea County, NM

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200'x 300' well pad No Scale

EXHIBIT #4

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V.JINITY MAP



WTC 45604

 SEC.
 18
 TWP.
 25-S
 RGE.
 34-E

 SURVEY
 N.M.P.M

 COUNTY
 LEA
 STATE
 NM

 DESCRIPTION
 990' FSL & 330' FWL

 ELEVATION
 3346'

 OPERATOR
 ENRON OIL & GAS CO.

 LEASE
 DIAMOND *18" FEDERAL NO. 7

SCALE: 1" = 4 MILES

WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

915-685-3800

LOCATION /ERIFICATION MAP



SCALE: 1" = 2000' WTC 45604
SEC. <u>18</u> TWP. <u>25-S</u> RGE. <u>34-E</u>
SURVEY N.M.P.M
COUNTY LEA STATENM
DESCRIPTION990' FSL & 330' FWL
ELEVATION3346'
OPERATOR ENRON OIL & GAS CO.
LEASEDIAMOND *18" FEDERAL NO. 7
USGS TOPO MAP <u>BELL LAKE & WOODLEY FLAT, NM</u> ANDREWS PLACE & PADUCA BREAKS EAST, NM-TX

CONTOUR INTERVAL _10'

WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

915-685-3800

MILL BE RELEASED CONFIDENTIAL LOGS **INDICATE WHEN** TON SEOU ETAD EVORA 1.1.7.71/1 ELF