

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

(Other instructions on  
reverse side)

Budget Bureau No. 1004-0136  
Expires August 31, 1985

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL  
WELL ☒

GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☒

MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

EnRe Corporation (210) 826-0681

3. ADDRESS OF OPERATOR

P.O. Box 6027, San Antonio, Tx. 78209

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

1950' FNL & 1800' FEL

At proposed prod. zone

2299' 5" 544  
2981' FNL & 4736' FEL FwL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

22 air miles S of Dulce, NM

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

>2 mi.

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

>2000'

16. NO. OF ACRES IN LEASE

≈23,000

19. PROPOSED DEPTH

9,562' MD

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

640

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

7,222' ungraded ground

22. APPROX. DATE WORK WILL START\*

Sept. 15, 1994

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
14"	10-3/4"	40.5 (K-55)	250'	≈242 cu ft and to surface
8-3/4"	7"	23# (N-80)	6,500'	≈1300 cu ft and to surface
6-1/4"	4-1/2"	11.6#(N-80)	9,562'	≈liner

RECEIVED  
OCT 07 1994  
OIL CON. DIV.  
DIST. 3

cc: BLM(3 +2 for OCD), EnRe

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, 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

TITLE Consultant

DATE 9-6-94

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

(Original Signed) HECTOR A. VILLALOBOS

AREA MANAGER

APPROVED BY

TITLE RES. MGR. RESOURCE AREA

DATE OCT 6 1994

CONDITIONS OF APPROVAL, IF ANY:

\*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.

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  
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

1 API Number 30-039-25471		2 Pool Code 7140		3 Pool Name Boulder-Mancos Oil EXT		
4 Property Code 15820		5 Property Name Cedar Canyon 22 G			6 Well Number #1	
7 OGRID No. 133182		8 Operator Name ENRE CORPORATION			9 Elevation 7222'	

10 Surface Location

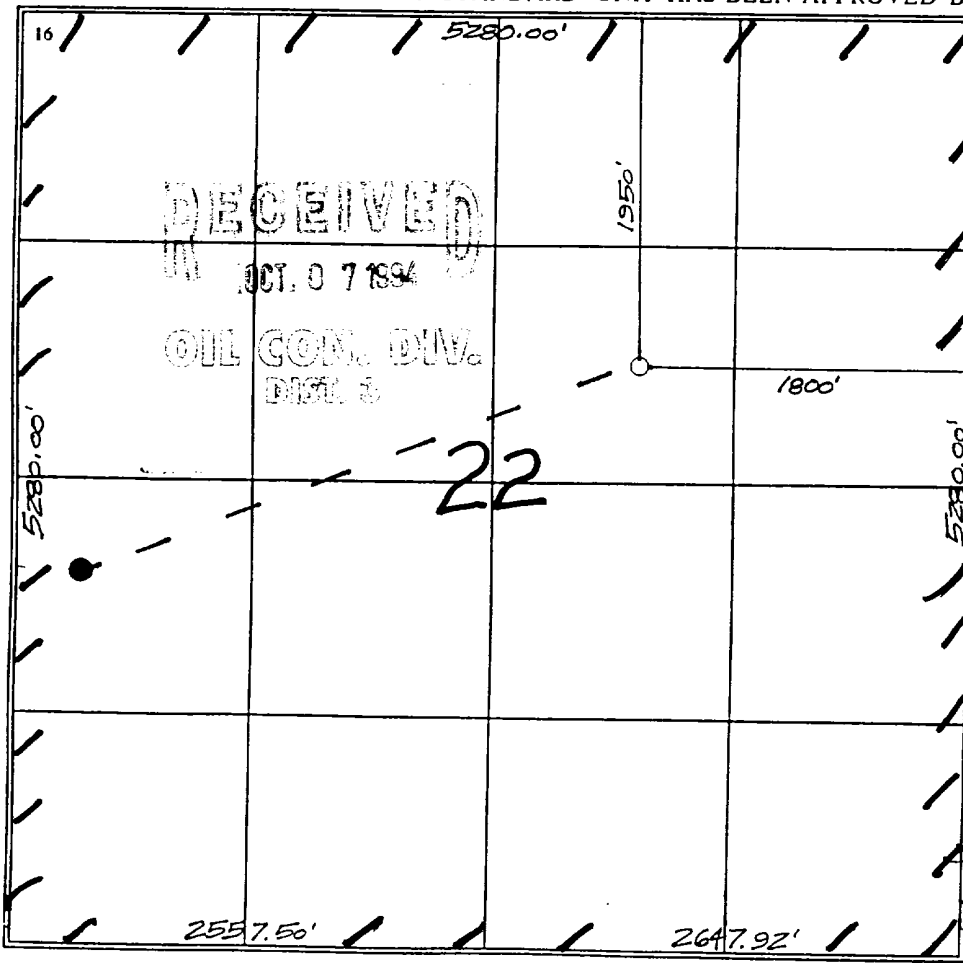
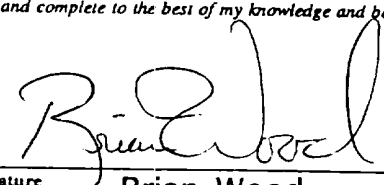
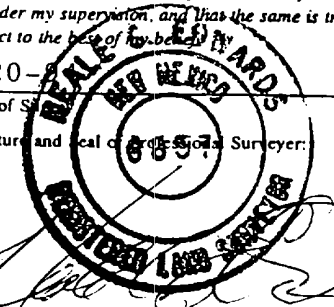
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	22	28 N	1 W		1950	North	1800	East	R.A.

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	22	28 N	1 W		2981 2299	North SOUTH	4736 544	East WEST	R.A.

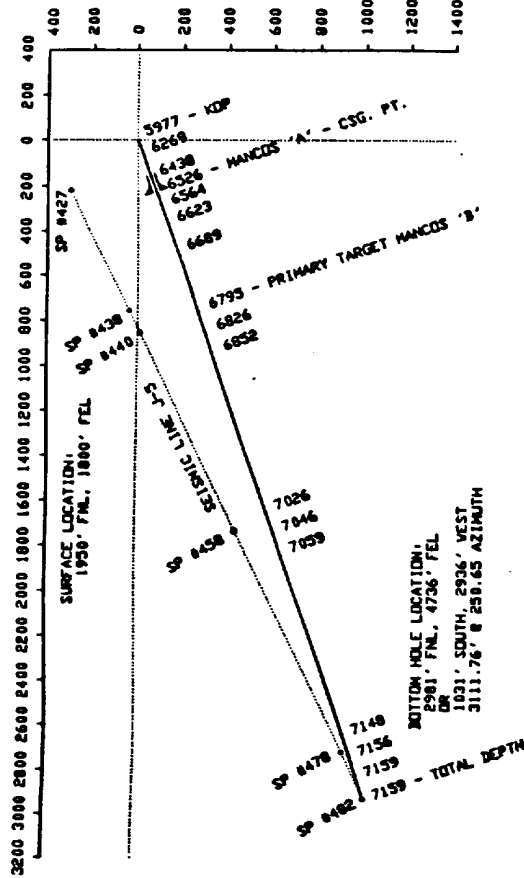
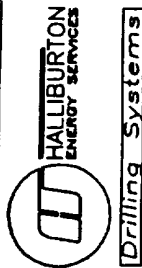
12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.

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

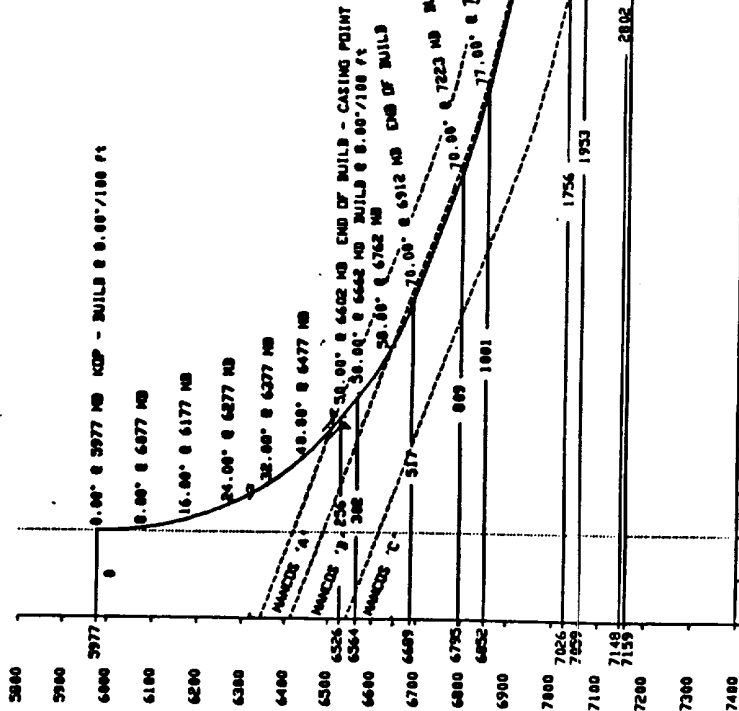
	<p>16</p> <p>5280.00'</p> <p>1950'</p> <p>1800'</p> <p>5280.00'</p> <p>2557.50'</p> <p>2647.92'</p> <p>22</p>	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p></p> <p>Signature <b>Brian Wood</b></p> <p>Printed Name <b>Consultant</b></p> <p>Title <b>September 6, 1994</b></p> <p>Date</p> <p>18 SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief</p> <p>7-20-94</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p> <p></p> <p>6857</p> <p>Certificate Number</p>
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EnRe CORPORATION  
CEDAR CANYON 22-G  
SEC 22-T28N-R01W  
RIO ARRIBA CO., NEW MEXICO

HORIZONTAL VIEW  
SCALE 200 ft. / DIVISION  
SURVEY REF: WELLHEAD



VERTICAL VIEW  
SCALE 100 ft. / DIVISION  
TVD REF: WELLHEAD  
VERTICAL SECTION REF: WELLHEAD



VERTICAL SECTION PLANE: 250.00

CRITICAL POINT DATA					
MD	Inc	Azi	TVD	M/S	E/V
KDP - BUILD @ 5977	0.00°	250.65°	5977	0 M	0 E
END OF BUILD @ 6402	50.00°	250.65°	6402	05 S	241 W
CSG PT. @ 6462	50.00°	250.65°	6462	100 S	285 W
END BUILD @ 6512	70.00°	250.65°	6512	171 S	488 W
END BUILD @ 6562	70.00°	250.65°	6562	268 S	763 W
MANDELS 3°/100°					
END OF BUILD @ 6602	77.00°	250.65°	6602	332 S	944 W
END OF BUILD @ 6652	77.00°	250.65°	6652	382 S	1637 W
END OF BUILD @ 6702	84.00°	250.65°	6702	447 S	1943 W
END OF BUILD @ 6752	84.00°	250.65°	6752	518 S	2644 W
END OF BUILD @ 6802	90.00°	250.65°	6802	595 S	2932 W
END OF BUILD @ 6852	90.00°	250.65°	6852	678 S	3236 W
END OF BUILD @ 6902	90.00°	250.65°	6902	768 S	3544 W
END OF BUILD @ 6952	90.00°	250.65°	6952	865 S	3856 W
END OF BUILD @ 7002	90.00°	250.65°	7002	968 S	4172 W
END OF BUILD @ 7052	90.00°	250.65°	7052	1078 S	4492 W
END OF BUILD @ 7102	90.00°	250.65°	7102	1195 S	4816 W
END OF BUILD @ 7152	90.00°	250.65°	7152	1318 S	5144 W
END OF BUILD @ 7202	90.00°	250.65°	7202	1448 S	5476 W
END OF BUILD @ 7252	90.00°	250.65°	7252	1585 S	5812 W
END OF BUILD @ 7302	90.00°	250.65°	7302	1728 S	6152 W
END OF BUILD @ 7352	90.00°	250.65°	7352	1878 S	6496 W
END OF BUILD @ 7402	90.00°	250.65°	7402	2035 S	6844 W
END OF BUILD @ 7452	90.00°	250.65°	7452	2198 S	7196 W
END OF BUILD @ 7502	90.00°	250.65°	7502	2368 S	7552 W
END OF BUILD @ 7552	90.00°	250.65°	7552	2545 S	7912 W
END OF BUILD @ 7602	90.00°	250.65°	7602	2728 S	8276 W
END OF BUILD @ 7652	90.00°	250.65°	7652	2918 S	8644 W
END OF BUILD @ 7702	90.00°	250.65°	7702	3115 S	9016 W
END OF BUILD @ 7752	90.00°	250.65°	7752	3318 S	9392 W
END OF BUILD @ 7802	90.00°	250.65°	7802	3528 S	9772 W
END OF BUILD @ 7852	90.00°	250.65°	7852	3745 S	10156 W
END OF BUILD @ 7902	90.00°	250.65°	7902	3968 S	10544 W
END OF BUILD @ 7952	90.00°	250.65°	7952	4198 S	10936 W
END OF BUILD @ 8002	90.00°	250.65°	8002	4435 S	11332 W
END OF BUILD @ 8052	90.00°	250.65°	8052	4678 S	11732 W
END OF BUILD @ 8102	90.00°	250.65°	8102	4928 S	12136 W
END OF BUILD @ 8152	90.00°	250.65°	8152	5185 S	12544 W
END OF BUILD @ 8202	90.00°	250.65°	8202	5448 S	12956 W
END OF BUILD @ 8252	90.00°	250.65°	8252	5718 S	13372 W
END OF BUILD @ 8302	90.00°	250.65°	8302	5995 S	13792 W
END OF BUILD @ 8352	90.00°	250.65°	8352	6278 S	14216 W
END OF BUILD @ 8402	90.00°	250.65°	8402	6568 S	14644 W
END OF BUILD @ 8452	90.00°	250.65°	8452	6865 S	15076 W
END OF BUILD @ 8502	90.00°	250.65°	8502	7168 S	15512 W
END OF BUILD @ 8552	90.00°	250.65°	8552	7478 S	15952 W
END OF BUILD @ 8602	90.00°	250.65°	8602	7795 S	16396 W
END OF BUILD @ 8652	90.00°	250.65°	8652	8118 S	16844 W
END OF BUILD @ 8702	90.00°	250.65°	8702	8448 S	17296 W
END OF BUILD @ 8752	90.00°	250.65°	8752	8785 S	17752 W
END OF BUILD @ 8802	90.00°	250.65°	8802	9128 S	18212 W
END OF BUILD @ 8852	90.00°	250.65°	8852	9478 S	18676 W
END OF BUILD @ 8902	90.00°	250.65°	8902	9835 S	19144 W
END OF BUILD @ 8952	90.00°	250.65°	8952	10198 S	19616 W
END OF BUILD @ 9002	90.00°	250.65°	9002	10568 S	20092 W
END OF BUILD @ 9052	90.00°	250.65°	9052	10945 S	20572 W
END OF BUILD @ 9102	90.00°	250.65°	9102	11328 S	21056 W
END OF BUILD @ 9152	90.00°	250.65°	9152	11718 S	21544 W
END OF BUILD @ 9202	90.00°	250.65°	9202	12115 S	22036 W
END OF BUILD @ 9252	90.00°	250.65°	9252	12518 S	22532 W
END OF BUILD @ 9302	90.00°	250.65°	9302	12928 S	23032 W
END OF BUILD @ 9352	90.00°	250.65°	9352	13345 S	23536 W
END OF BUILD @ 9402	90.00°	250.65°	9402	13768 S	24044 W
END OF BUILD @ 9452	90.00°	250.65°	9452	14198 S	24556 W
END OF BUILD @ 9502	90.00°	250.65°	9502	14635 S	25072 W
END OF BUILD @ 9552	90.00°	250.65°	9552	15078 S	25592 W
END OF BUILD @ 9602	90.00°	250.65°	9602	15528 S	26116 W
END OF BUILD @ 9652	90.00°	250.65°	9652	15985 S	26644 W
END OF BUILD @ 9702	90.00°	250.65°	9702	16448 S	27176 W
END OF BUILD @ 9752	90.00°	250.65°	9752	16918 S	27712 W
END OF BUILD @ 9802	90.00°	250.65°	9802	17395 S	28252 W
END OF BUILD @ 9852	90.00°	250.65°	9852	17878 S	28796 W
END OF BUILD @ 9902	90.00°	250.65°	9902	18368 S	29344 W
END OF BUILD @ 9952	90.00°	250.65°	9952	18865 S	29896 W
END OF BUILD @ 10002	90.00°	250.65°	10002	19368 S	30452 W
END OF BUILD @ 10052	90.00°	250.65°	10052	19878 S	31012 W
END OF BUILD @ 10102	90.00°	250.65°	10102	20395 S	31576 W
END OF BUILD @ 10152	90.00°	250.65°	10152	20918 S	32144 W
END OF BUILD @ 10202	90.00°	250.65°	10202	21448 S	32716 W
END OF BUILD @ 10252	90.00°	250.65°	10252	21985 S	33292 W
END OF BUILD @ 10302	90.00°	250.65°	10302	22528 S	33872 W
END OF BUILD @ 10352	90.00°	250.65°	10352	23078 S	34456 W
END OF BUILD @ 10402	90.00°	250.65°	10402	23635 S	35044 W
END OF BUILD @ 10452	90.00°	250.65°	10452	24198 S	35636 W
END OF BUILD @ 10502	90.00°	250.65°	10502	24768 S	36232 W
END OF BUILD @ 10552	90.00°	250.65°	10552	25345 S	36832 W
END OF BUILD @ 10602	90.00°	250.65°	10602	25928 S	37436 W
END OF BUILD @ 10652	90.00°	250.65°	10652	26518 S	38044 W
END OF BUILD @ 10702	90.00°	250.65°	10702	27115 S	38656 W
END OF BUILD @ 10752	90.00°	250.65°	10752	27718 S	39272 W
END OF BUILD @ 10802	90.00°	250.65°	10802	28328 S	39892 W
END OF BUILD @ 10852	90.00°	250.65°	10852	28945 S	40516 W
END OF BUILD @ 10902	90.00°	250.65°	10902	29568 S	41144 W
END OF BUILD @ 10952	90.00°	250.65°	10952	30198 S	41776 W
END OF BUILD @ 11002	90.00°	250.65°	11002	30835 S	42412 W
END OF BUILD @ 11052	90.00°	250.65°	11052	31478 S	43052 W

## Drilling Program

### 1. FORMATION TOPS

The estimated tops of important geologic markers are:

<u>Formation Name</u>	<u>TVD</u>	<u>KB Depth</u>	<u>Subsea Elevation</u>
San Jose	000'	12'	+7,222'
Lewis Shale	2,648'	2,660'	+4,574'
Pt. Lookout Ss	5,136'	5,148'	+2,086'
Mancos Shale	5,320'	5,332'	+1,902'
Niobrara	6,321'	6,333'	+901'
Mancos "A" Shale	6,526'	6,538'	+696'
Mancos "B" Shale	6,632'	6,644'	+590'
Total Depth (TD)*	7,159'	7,171'	+63'

\* all elevations reflect the ungraded ground level of 7,222'

### 2. NOTABLE ZONES

The Point Lookout and Mancos zones are most likely to have oil and/or gas. The Mancos zones are the primary goal. Lost circulation may occur in the Mancos. Only likely water zone is the San Jose, but if any are found, then all will be recorded and protected with casing, cement, and weighted mud. Oil and gas shows will be tested for commercial potential based on the well site geologist's recommendations.

### 3. PRESSURE CONTROL

BOP systems will follow Onshore Order #2 and API RP 53. The drilling contract has not yet been awarded, thus the exact BOP model to be used is not yet known. A typical model is on PAGE 3.

Surface: 1950' FNL &amp; 1800' FEL

~~BHL: 2981' FNL & 4736' FEL~~

Sec. 22, T. 28 N., R. 1 W.

Rio Arriba County, NM

BOP controls will be installed before drilling the surface casing plug and remain in use until the well is completed or abandoned. Once out from under the surface casing, a 10" minimum 3,000 psi BOP and choke manifold system will be used. System will include upper and lower kelly cock with handle, drill pipe float, mud logging unit with gas detector to detect any influx of formation fluids, and a sub on the floor with a full opening valve to be stabbed into the drill pipe when a kelly is not in the string.

Ram type preventers and associated equipment (e.g., choke manifold and kelly cock) will be pressure tested to 100% of their rated working pressure for a minimum of 10 minutes. A test plug will isolate the BOP stack from the casing. Annular preventers will be tested to 50% of their rated working pressure for at least 10 minutes. Tests will be run after installation, before drilling out the surface casing shoe, and after any use under pressure, or a minimum of once every 14 days. Pipe rams will be operationally checked each 24 hour period, as will blind rams and annular preventer each time pipe is pulled out of the hole. Annular preventers will be functionally operated at least weekly. BOP checks will be noted on the daily drilling report.

#### 4. CASING & CEMENT

The proposed casing program is:

<u>Hole Size</u>	<u>O.D.</u>	<u>Weight (lb/ft)</u>	<u>Grade</u>	<u>Type</u>	<u>Age</u>	<u>GL Setting Depth</u>
14"	10-3/4"	40.5	K-55	ST&C	New	250'
8-3/4"	7"	23	N-80	ST&C	New	6,500'
6-1/4"	4-1/2"	11.6	N-80*	LT&C	New	**9,562'
			*Liner			
						**Measured Depth

Surface: 1950' FNL &amp; 1800' FEL

~~BHL: 2981' FNL & 4736' FEL~~

Sec. 22, T. 28 N., R. 1 W.

Rio Arriba County, NM

Surface casing will be cemented to the surface with  $\approx 242$  cubic feet Class B with 3% salt +  $1/4\#/sk$  celloflake + 2%  $CaCl_2$ . Volume calculated at 100% excess. Centralizers will be used.

Production casing will be cemented to the surface. Actual volumes will be calculated at 30% excess as measured by caliper log. First stage will be cemented from 6,500' to  $\approx 3200'$  with  $\approx 650$  cubic feet Halco Lite+  $1/4\#/sk$  celloflake. Second stage lead will be cemented from  $\approx 3300'$  to the surface with  $\approx 585$  cubic feet Halco Lite +  $1/4\#/sk$  celloflake and tail with  $\approx 65$  cubic feet Class B +  $1/4\#/sk$  celloflake. Centralizers will be used.

## 5. MUD PROGRAM

<u>Depth</u>	<u>Type</u>	<u>pH</u>	<u>ppg</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0' - 250'	Fresh water gel	8	9.0-10.0	40-50	NC
400' - 6,500'	Gel polymer	7	8.8-9.2	28-40	8-15
6,500' - 9,562'	Gel polymer	7	8.8-8.9	30-35	6-8

Sufficient mud material to maintain mud properties, control lost circulation, and contain a blowout will be available at the wellsite while drilling. Mud will be checked frequently by rig personnel. Mud logging unit, gas detector, and flow sensor will be used.

## 6. CORING, TESTING, & LOGGING

No cores or DSTs are planned. Triple combination logs may be run from  $\approx 6,500'$  to TD. Mud logger will be on site from base of surface casing to TD. Stimulation procedures will be determined after log evaluation. If stimulation is warranted, then a Sundry Notice will be submitted for approval.

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~~BHL: 2981' FNL & 4736' FEL~~

Sec. 22, T. 28 N., R. 1 W.

Rio Arriba County, NM

7. DOWNHOLE CONDITIONS

No abnormal temperatures pressures, nor hydrogen sulfide are expected.  
Maximum pressure will be  $\approx$ 1,100 psi.

8. OTHER INFORMATION

The anticipated spud date is September 15, 1994. It is expected it will take  $\approx$ 25 days to drill and  $\approx$ 10 days to complete the well.

Surface: 1950' FNL & 1800' FEL

~~BHL: 2981' FNL & 4736' FEL~~

Sec. 22, T. 28 N., R. 1 W.

Rio Arriba County, NM

## Surface Use Plan

### 1. DIRECTIONS & EXISTING ROADS (See Pages 11 & 12)

From the junction of US 64 and NM 537, go south 9.1 miles on NM 537. Then turn left onto J-16 and go SE 7.3 mi. on J-16 to a stone culvert. Then turn left onto a jeep trail and go north 806' to the proposed well.

Of the existing roads, only the final  $\approx 806'$  will need upgrading. That jeep trail will be upgraded and have a  $\approx 15'$  wide running surface and a maximum disturbed width of 25'. Maximum grade will be 3%. Maximum cut or fill will be 1'. No culverts or cattleguards are needed.

The road will be initially flat bladed. If production results, then the road will be crowned and ditched. A 30' x 18" culvert would be needed to drain the road's west borrow ditch near its junction with J-16. Roads will be maintained to a standard at least equal to their present condition.

### 2. ROAD TO BE BUILT

No new road will be built.

### 3. EXISTING WELLS (See PAGE 12)

According to NM Oil Conservation Div. records, there are no water or gas wells within a mile. There are ten oil wells, most of which have been or are scheduled to be plugged and abandoned, within a mile. Closest of the the wells is over 2,000' east. There are no water, gas, or injection wells.



natural appearance, water barred, stockpiled topsoil spread evenly over disturbed areas, and disturbed areas ripped or harrowed. A seed mix will be drilled at a depth and time to be determined by the Tribe.

If seed is broadcast, the rate will be increased as determined by the Tribe. A harrow or cable will be dragged over the area to assure seed cover. After seeding is done, the stockpiled brush will be scattered evenly over disturbed areas. The  $\approx 806'$  of upgraded road will be reclaimed in the same way as the wellsite and water bars installed.

If the well is a producer, then the reserve pit and any other areas not needed for workovers will be reclaimed as previously described.

#### 11. SURFACE OWNER

The well and upgraded road are on Jicarilla Apache Tribal trust land.

#### 12. OTHER INFORMATION

The nearest hospital is a  $\approx 2$  hour drive away in southwest Farmington. Hospital phone number is (505) 325-5011.

#### 13. REPRESENTATION

Anyone having questions concerning the APD should call:

Brian Wood, Consultant  
Permits West, Inc.  
37 Verano Loop  
Santa Fe, NM 87505  
(505) 466-8120

FAX: (505) 466-9682

Surface: 1950' FNL & 1800' FEL

~~BHL: 2981' FNL & 4736' FEL~~

Sec. 22, T. 28 N., R. 1 W.

Rio Arriba County, NM

The field representative while drilling will be:

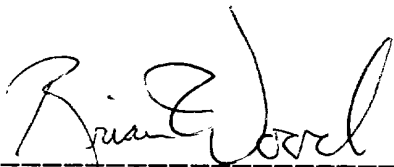
Harvey Ashford

(505) 326-2617, Unit 99.

or cellular phone (505) 320-7626 then (210) 415-4235

EnRe Corporation has the necessary consents from the proper lease owners to conduct lease operations in conjunction with this well. Bond coverage pursuant to 43 CFR 3104 for lease activities and operations is being provided by EnRe Corporation.

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 currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by EnRe Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.



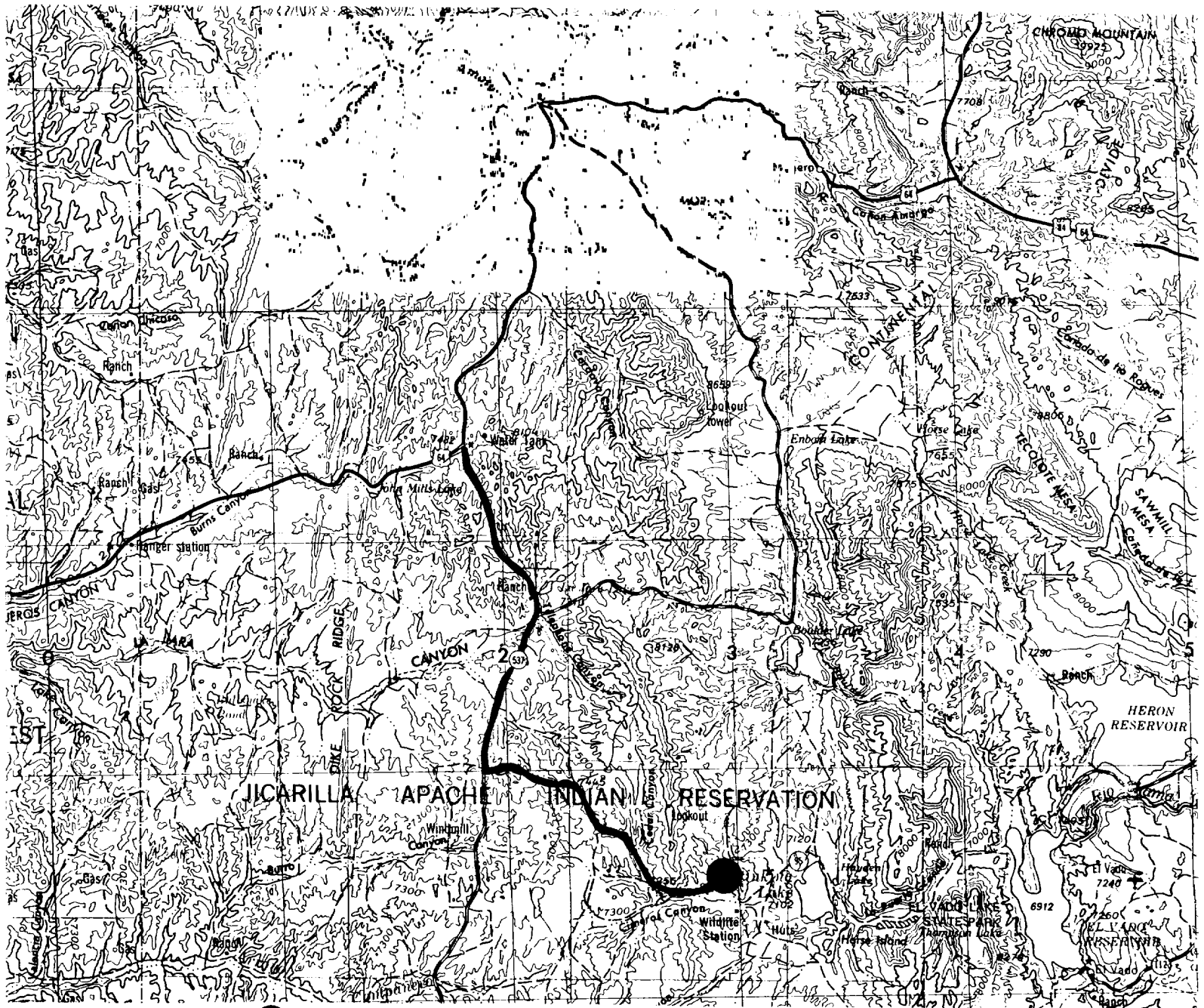
\_\_\_\_\_  
Brian Wood, Consultant

September 6, 1994

Date

EnRe Corporation's Cedar Canyon 22 G #1  
 Surface: 1950' FNL & 1800' FEL  
 BHL: 2981' FNL & 4736' FEL  
 Sec. 22, T. 28 N., R. 1 W.  
 Rio Arriba County, NM

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Wellsite: ●

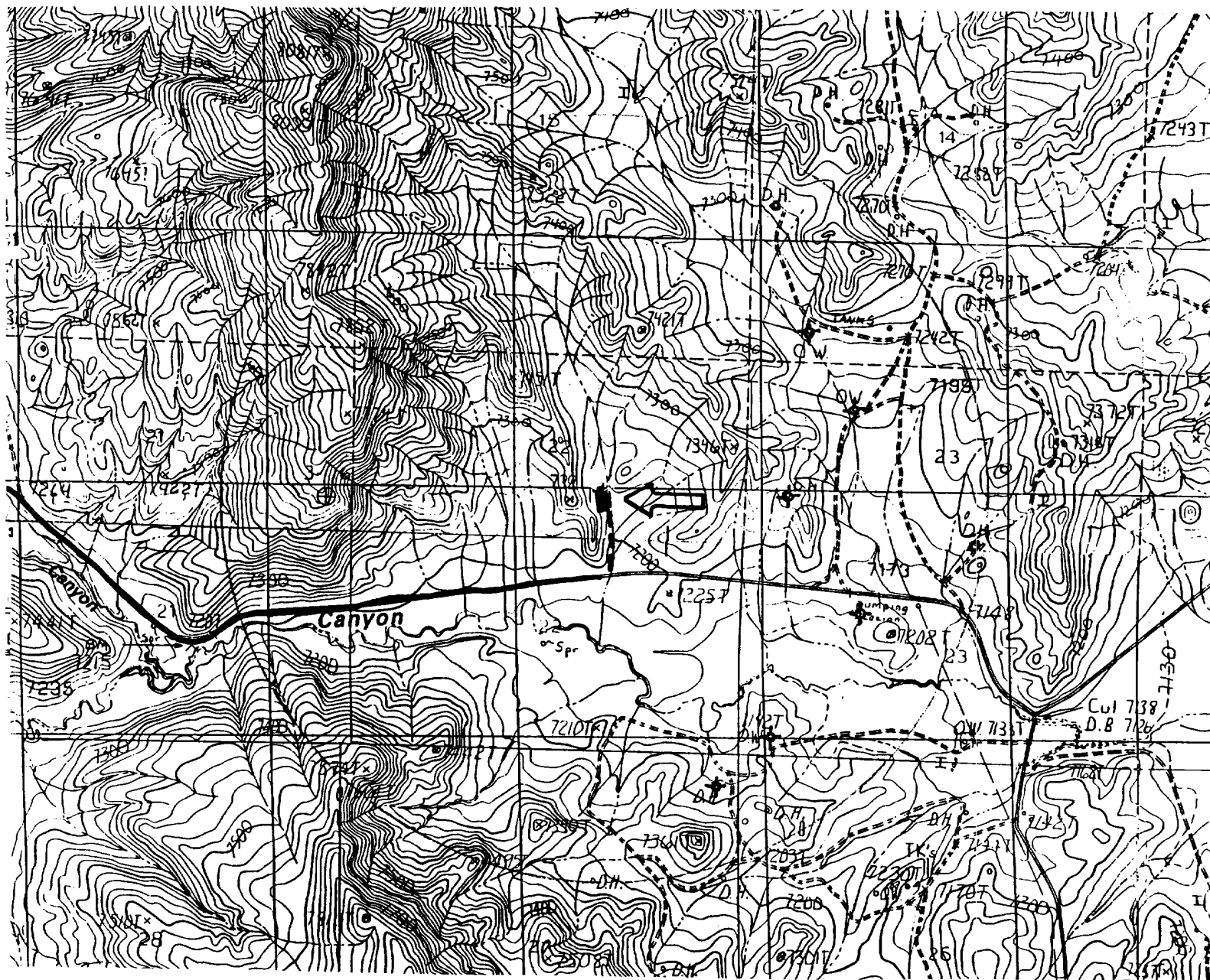
Access Route: ~


**Surface: 1950' FNL & 1800' FEL**

**BHL: 2981' FNL & 4736' FEL**

**Sec. 22, T. 28 N., R. 1 W.**

**Rio Arriba County, NM**



Proposed Well:  

Existing Road: 

Upgrade Road: - - -

Existing Well: 