Fcw: 3160-3 5.7y 1992)

UNITED STATES

SUBMIT IN TRIPLICATE. (Other instructions on reverse side)

FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995

		OF THE INT			5. LEASE	DESIGNATION AND SERIAL NO.
BUREAU OF LAND MANAGEMENT						INM-97843
	ICATION FOR PI	ERMIT TO DRI				
a. TYPE OF WORK DR	ILL I	DEEPEN 🗌	7110	59 21 M	11: 57 UNIT A	GREEMENT NAME
	AS T		SINGLE TO	MULTIPLE F	St FARM OR	N/A LEASE NAME WELL NO.
WELL WELL NAME OF OPERATOR	VELL - OTHER		ZONE LOCATION	ZONE	ألأنه أسوك	Fed. 28 #4
Richardson (Operating Co.	(303) 830-8000			9. API WELL	NO
ADDRESS AND TELEPHONE NO.	Suite 1700	Denver Co	802036	Will serve		-045-3037/
. LOCATION OF WELL (R	, Suite 1700, Report location clearly and		$I \cong V$	ts.*)	на	rper Hill PC
	1811' FNL	& 1882' FW	/L 🎊 💮 o	CT 2000	11. SEC., and s	I., R., M., OR BLK. URVEY OR AREA
At proposed prod. zor	^{ne} Same			34 VE()	F28-3	On-14w NMPM
4. DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR POST OF	ICE.		12. COUNT	Y OR PARISH 13. STATE
4 air miles No. DISTANCE FROM PROP	E of Kirtland,	NM :	NO. OF ACRES IN	LEASE 1-X	SO. OF ACRES AS	Juan - NM
LOCATION TO NEARES PROPERTY OR LEASE (Also to nearest dr)	T Line, ft.	1811'	Q j		TO THIS WELL.	160/N/W4
S. DISTANCE FROM PROI			PROPOSED DEPTH	20.	ROTARY OR CABL	E TOOLS
OR APPLIED FOR, ON TH	its LEASE, FT. sether DF, RT, GR, etc.)	1831'	1,	3002	22 APRI	Rotary ROLDATE WORK WILL START
L ELEVATIONS (Show wh		5,574' ungra	ded ground	d	ļ _	Upon Approval
		PROPOSED CASING A	ND CEMENTING	PROGRAM		
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DE	ртн	QUANT	ITY OF CEMENT
0.2/4"	7" (K-55)	20#		120'-		≈36 cu ft & to surface
8-3/4" 6-1/4"	4-1/2" (K-55)	10.5#	1,	3002		235 cu ft & to surface -
This extens	with Neel McBri go to restlect to todation a rowwer political to to al pursused to 48 SFR	! # n# CPR 31 65.3	rchaeology	gran iir Karani		UTHORIZED ARE F WITH ATTACHED
eepen directionally, give peri	BE PROPOSED PROGRAM: If tinent data on subsurface locarity	is and measured and true ve	lata on present productical depths. Give blo	wout preventer proj	gram, if any.	cc: BLM (& OCD), Co tive zone. If proposal is to drill or 9-16-00
SIGNED	eral or State office use)	TITLE _			OA1	
	cial of State omce use;				10/27/	00
PERMIT NO.	not warrant or certify that the are	alicant holds lead or equitable	APPROVAL DATE		, ,	e applicant to conduct operations there
CONDITIONS OF APPROVA		11TLE		ŕ		10/27/00

State of New Mexico Energy. Minerals & Mining Resources Department

OL CONSERVATION DIVISION 2040 South Pacheco Santa Fe. NM 87505

200 SEP 21 AN 11: 50 AMENDED REPORT

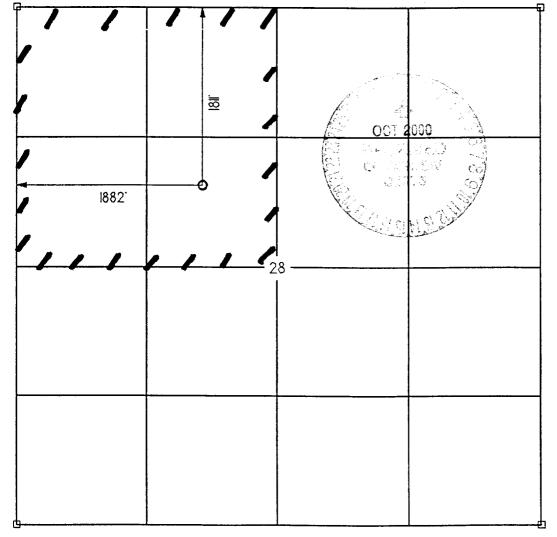
WELL LOCATION AND ACREAGE DEDICATION PLAT

APA Number		Pool Code Pool Name		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
30.045-3	0377	78160	HARPER HILL PC	
Property Code		Pro	Well Number	
24567		· WF	28 - 4	
OGRID No.		Оре	erator Name	Bevation
019219		RICHARDSON O	PERATING COMPANY	5574 —

Surface Location Rge. UL or Lot Sec. Twp. Lat Idn. Feet from North/South Feet from > Egst/West County F 28 30 N. 14 W. WEST 181 NORTH 1882 SAN JUAN Battom Hole Location If Different From Surface

	UL or Lot	\$øc.	Twp.	Rge.	Lat lah.	Feet from>	North/South	Feet from>	East/West	County
1	Dedication LCN y/4		S taic	Consolida	tion			Orde	er Na.	

NO ALLOWABLE WILL ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DMISION



OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature

Printed Name BRIAN WOOD

Title

CONSULTANT

Date SEPT. 16, 2000

SURVEYOR CERTIFICATION

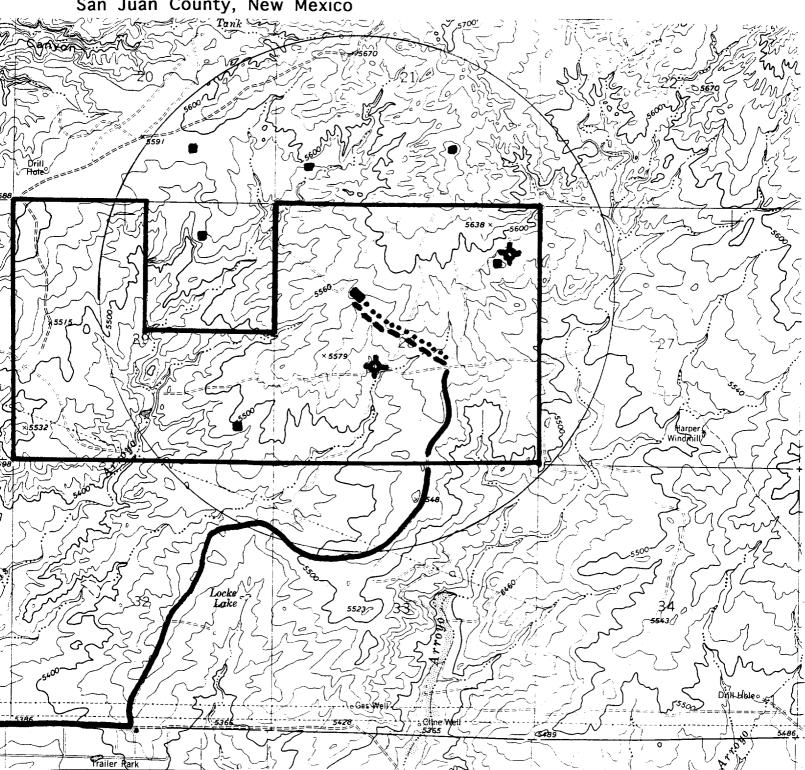
I hereby certify that the well location on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey

AUGUST 2000



Richardson Operating Co. WF Federal 28 #4 1811' FNL & 1882' FWL Sec. 28, T. 30 N., R. 14 W. San Juan County, New Mexico



PROPOSED WELL: ● PROPOSED PIPELINES: ● ●

EXISTING WELL: UPGRADED ROAD: --

P&A WELL:





Richardson Operating Co. WF Federal 28 #4 1811' FNL & 1882' FWL Sec. 28, T. 30 N., R. 14 W. San Juan County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

<u>GL Depth</u>	KB Depth	Subsea Elevation
000'	5'	+5,574'
564'	569'	+5,010'
1,099'	1,104'	+4,475'
1,300'	1,305'	+4,200'
	000' 564' 1,099'	000' 5' 564' 569' 1,099' 1,104'

^{*} all elevations reflect the ungraded ground level of 5,574'

2. NOTABLE ZONES

<u>Gas Zones</u>	Water Zones	Coal Zones
Fruitland Fm (564')	Fruitland Fm (564')	Fruitland Fm (564')
Pictured Cliffs (1,099')	, ,	,

Water zones will be protected with casing, cement, and weighted mud. Fresh water encountered during drilling will be recorded by depth, cased, and cemented. Oil and gas shows will be tested for commercial potential based on the well site geologist's recommendations.

3. PRESSURE CONTROL

The drilling contract has not yet been awarded, thus the exact BOP model to be used is not yet known. (A typical 2,000 psi model is on PAGE 3.) Double ram or annular system with a rotating head will be used. All ram preventers and related equipment will be hydraulically tested at nipple up and after any use under pressure to 1000 psi.

