SUBMIT IN TRIPLICAT

(Other instructions on reverse side)

UNITED STATES DEPARTMENT OF THE INTERIOR

re•	FORM APPROVED
1	OMB NO. 1004-0136 Expires: February 28, 1995
	5. LEASE DESIGNATION AND SERIAL NO. NMSF-079065
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	7. UNIT AGREEMENT NAME N/A
	6. FARMOR LEASE NAME: WELL NO Eaton White #3
	9. AM WELL NO
	30-045-30880
-	ฟือร์นั ^น ห์นิช์ ^ร ับ Pic ัน Cliff
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
	20-29n-13w NMPM
- :: :: :::::::::::::::::::::::::::::::	San Juan NM
	5E/4 160
TAH	Rotary
	Dec. 15, 2001
	≈36 cu. ft. & to surface ≈235 cu. ft. & to surface
4. 14.	e je sa sa

	añs 2ña
177	AGH EO
c:	BLM, Colby, OCD (via BLM)
sed	
m,	new productive zone. If proposal is to drill or if any.

BUREAU OF LAND MANAGEMENT					5. LEASE DESIGNATION A NMSF-0	
APPLICATION FOR PERMIT TO DRILL OR DEEPEN					6. IF INDIAN, ALLOTTEE	B TRIBE NAME
DRI b. TYPE OF WELL OIL	LL OTHER	DEEPEN [SINGLE MULTUR	LE	7. UNIT AGBREMENT NATE AGE OF STREET	N/A
Richardson O			(303) 830-80	00	9. AM WELL NO 30-045-3	
4. LOCATION OF WELL (R. At Surgice	St., Suite I eport location clearly and 1058' FSL	700, Denve in accordance with & 790' FE	er, Co. 80203 Lany State requirements.		Nest Kutz Pi	ж.
At proposed prod. zon	Same	REST TOWN OR POST	OMPICE*		20-29n-13w	NMPM
1 air miles S	W of Farming		OFFICE		San Juan	NM
15. DISTANCE FROM PROPE LOCATION TO NEAREST PROPERTY OR LEASE L (Also to degreet drig 18. DISTANCE FROM PROP	INE, FT. S. unit line, if any) OSED LOCATION®	262'	16. NO OF ACRES IN LEASE 1,470.81 19. PROPOSED DELTH	то тн	F ACRES ASSIGNED HIS WELL SE/4 TY OR CABLE TOOLS	160
OR APPLIED FOR, ON THE	IS LEASE, FT.	1,779'	1,200'	<u> </u>	R	otary
21. ELEVATIONS (Show whe		,370' ung	raded		Dec. 15,	
23.		PROPOSED CASIN	G AND CEMENTING PROGRAM	М		
8-3/4" 6-1/4"	GRADE SIZE OF CASING K-55 7" K-55 4-1/2"	20 10.5	OT SETTING BEPTH 120' 13200'		QUANTITY OF CEMENT ≈36 cu. ft. & to ≈235 cu. ft. & to	
Archaeology repor		lata.	JAN 2002			
On sited with Neel						
P. 00000016	Hagood #2. The Subject to 10.000 all review pursuant to 43 CFF	43 (120 2438 4	ORLLING OVERABURS AS SUBJECT TO COMPLIANCE "GENERAL REQUIREMENT	WHE AH	ARE 3	
				cc:	BLM, Colby, OCD	(via BLM)
IN ABOVE SPACE DESCRIBI deepen directionally, give perti	E PROPOSED PROGRAM: If nent data on sursurface locario	proposal is to deepen, g	ive data on present productive zone a se vertical depths. Give blowout prever	and proposed nter program, i	new productive zone. If pro-	e sal is to drift.
7.	7/2/	<i>†</i>	Consultant (505)			-15-01

(This space for Federal or State office use) 1/3/02 125.E M.LE N. (Application appeared does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject tease which would entitle the applicant to certify that the applicant to certify the applicant t CONDITIONS OF APPROVAL, IF ANY

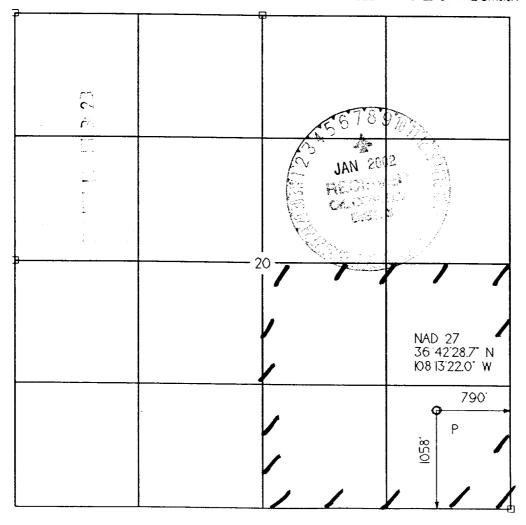
Form C - 102

State of New Mexico Energy. Minerals & Mining Resources Department OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

MENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT APA Number 79680 code WEST KUTZ PICTURED CLIFFS 30-045-30880 Property Code Property Name Well Number 26060 **EATON WHITE** #3 099249 Operator Name Elevation RICHARDSON OPERATING COMPANY 5370 Surface Location UL or Lot Sec Tup. Rge. Lat lan Feet from North/South Feet from County East/West . P 20 29 N 13 W. 1058 SOUTH 790 . **EAST** NAUL NAS Bottom Hale Location If Different From Surface UL or Lot Sec. Twp. Rge. Lat lan Feet from> North/South | Feet from> East/West County Dedication Joint ? Consolidation Order Na.

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



60

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

Signature

BRIAN WOOD

Title

CONSULTANT

Date

NOV. 15, 2001

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

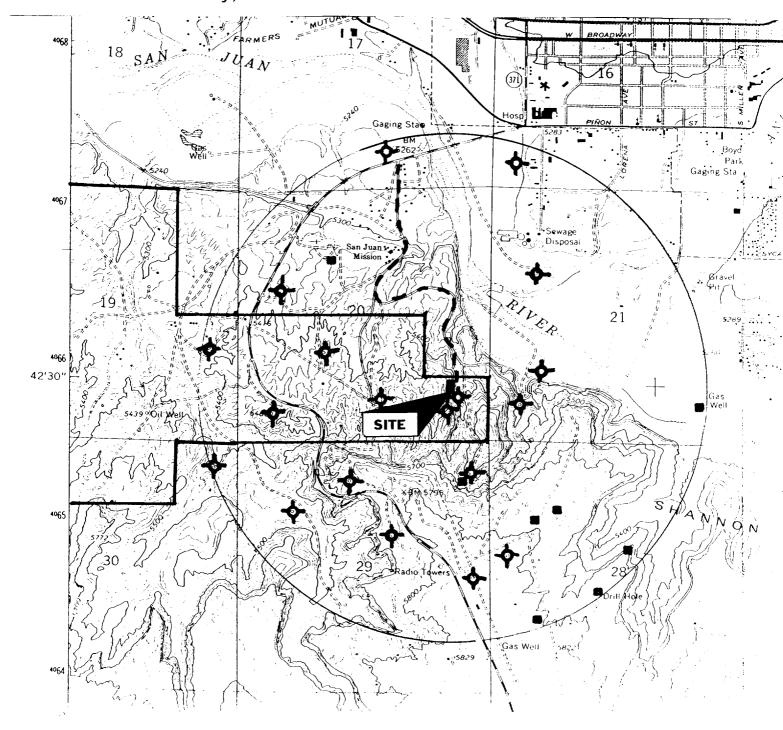
Signature and Settle Mr. S. Professional Serveyor (6844)

of my belief.

SISTERED LAND SUFFERED LAND

PAGE 11

Richardson Operating Co. Eaton White #3 1058' FSL & 790' FEL Sec. 20, T. 29 N., R. 13 W. San Juan County, New Mexico



PROPOSED WELL: ■
EXISTING WELL: ■
P & A WELL: ◆

LEASE BOUNDARY: EXISTING ROAD:



Richardson Operating Co. Eaton White #3 1058' FSL & 790' FEL Sec. 20, T. 29 N., R. 13 W. San Juan County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

Formation Name	<u>GL Depth</u>	KB Depth	Subsea Elevation
Kirtland Shale	000'	5'	+5,370'
Fruitland Fm	500'	505'	+4,870'
Pictured Cliffs Ss	1,090'	1,095'	+4,280'
Total Depth (TD)*	1,200'	1,205'	+4,170'

^{*} all elevations reflect the ungraded ground level of 5,370'

2. NOTABLE ZONES

<u>Gas Zones</u>	Water Zones	<u>Coal Zones</u>
Fruitland Fm (500')	Fruitland Fm (500')	Fruitland Fm (500')
Pictured Cliffs (1,090')		

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.



Richardson Operating Co.
Eaton White #3
1058' FSL & 790' FEL
Sec. 20, T. 29 N., R. 13 W.
San Juan County, New Mexico

Blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. BOP equipment will include a kelly cock, floor safety valve, and choke manifold all rated to 2000 psi. Maximum expected pressure is \approx 415 psi.

4. CASING & CEMENT

Hole Size	<u>O.D.</u>	Weight (lb/ft)	<u>Grade</u>	<u>Age</u>	GL Setting Depth
8-3/4"	7"	20	K-55	New	120'
6-1/4"	4-1/2"	10.5	K-55	New	1,200'

Surface casing will be cemented to surface with ≈ 36 cu. ft. (≈ 30 sx) Class B + 2% CaCl₂. Volume is based on 100% excess, yield of 1.18 cu. ft./sk, and slurry weight of 15.6 PPG. WOC = 12 hours. Pressure test surface casing to 600 psi for 30 minutes.

Production casing hole will first be cleaned of rock chips by circulating at least 150% of hole volume with mud to the surface. Forty barrels of fresh water will next be circulated. Lead with ≈ 145 cu. ft. (≈ 71 sx) of Class B with 2% metasilicate (yield = 2.06 cu. ft./sk, slurry weight = 12.5 PPG). Tail with ≈ 90 cu. ft. (≈ 77 sx) of Class B with 2% CaCl₂ (yield = 1.18 cu. ft./sk, slurry weight = 15.6 PPG). Total cement volume is ≈ 235 cubic feet based on 75% excess and circulating to surface.

Production casing will have 4-1/2" cement guide shoe and self fill float collar. Float will be placed one joint above the shoe. Six centralizers will be spaced on every other joint starting above the shoe. Six turbolizers will be placed on every other joint starting from the top of the well.

