SUBMIT IN TRIPLICATE*

FORM APPROVED

(July 1992)		ED STATES		other instructions reverse side)		OMB NO. 100 pires: Februar	
	DEPARTMENT BUREAU OF	OF THE INT					10 SERIAL NO.
АРГ	PLICATION FOR PE			EPEN			OR TRIBE NAME N/A
1a. TYPE OF WORK	DRILL L	DEEPEN			7. UNIT A	GREEMENT NA	ME N/A
b. TYPE OF WELL OIL WELL 2. NAME OF OPERATO	GAS WELL OTHER		SINGLE ZONE	MULTIPLE ZONE	8. FARM OR	Popc	
/Richardson	Operating Co.		(303) 8	30-8000	77 'N	045-3	
/ 1700 Lincol	n St., Suite 170)0, Denver,		nenten		MO. P	ic. Cliff
At surface	1075' FSL 8	§ 715' FEL	(0)	200-0	AND 8	T., R., M., OR BI URVEY OR ARE	LK.
At proposed prod	Same			RECEIVED ON	9-2	9n-14w	
3 air miles	LES AND DIRECTION FROM NEAR Wof Farmingto	n		<u> </u>	્ર _ે ્ર્ય San	Juan	NM
15. DISTANCE FROM I LOCATION TO NE PROPERTY OR LE	PROPOSED* AREST ASE LINE, FT.	605'	2,523.7	2 0 8 10 90	OF ACRES AS	SIGNED	160
18. DISTANCE FROM TO NEAREST WE	r drig, unit line, if any) PROPOSED LOCATION* LL, DRILLING, COMPLETED, N THIS LEASE, FT.	3,245'	1,000'	`H 20	. ROTARY OR CABL		otary
1	w whether DF, RT, GR, etc.)	335' ungra		!		an. 20,	2002
$\int_{-23.}$		PROPOSED CASING		NG PROGRAM		_	
8-3/4"	GRADE, SIZE OF CASING K-55 7"	20 WEIGHT PER FOOT		120'	≈36	cu. ft. & t	o surface
6-1/4"	K-55 4-1/2"	10.5	1,	000'	~103		
Archaeology re	ports prepared by LaP	lata.					
On sited with N							
APD/ROW		المراجع والمستعمر					
	ims action is adopt procedural review (and appeal pursual	SUBJECT TO THE STATE OF THE STA			lator desca Regunilment		
i ·				oc: Pl	M. OCD (via	RIM) Vs	an Blaricom
IN ABOVE SPACE DE	SCRIBE PROPOSED PROGRAM: II	f proposal is to deepen, giv	e data on present p	roductive zone and	LM, OCD (via proposed new produ		
deepen directionally, gr	ce pertinent dark on subsorting location	ins and measured and true	vertical depths. City	nt (505) 46	66-8120		2 - 2 8 - 0 1
(This space of	· Federal or State office use)		-,		1/7/0		

Application approxit, does not warrant or certify that the applicant holds legit or equitable title to those rights in the subject lease which would entitle the applicant to conduct open tions or

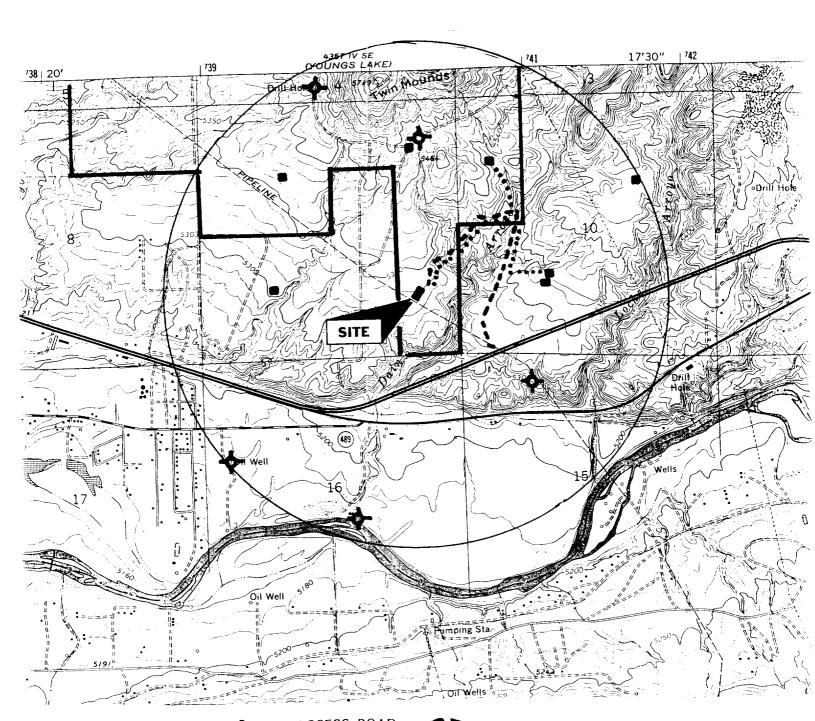
State of New Mexico Energy. Minerals & Mining Resources Department

OL CONSERVATION DIVISION 2040 South Pacheco Santa Fe. NM 87505

MENDED REPORT

			WELL	_ LOCAT	TON AND	ACREAGE	DEDICATION	I PLAT	
2)114	PA Numb	0963	86	Pool Cod	e	TWIN M	OUNDS I	Pool Name PICTURE	D CLIFFS
Property (Property Name					Wel Number		
3/050	5		ROPCO					9 - 2	
OGRID No). 				Operator	Name			Bevation
0192	219		· RI	CHARDS	ON OPERA	TING COMP	PANY		5335
						ace Location			<u> </u>
UL or Lot	Şec.	Twp.	Rge.	Lot lan.		> North/South	1	East/West	County
P	9	29. N.	14 W.		.1075	SOUTH	715 .	EAST	. SAN JUAN
						ion If Different		Te .au .	County
UL or Lat	Sec.	Тwp.	Rge.	Lot lon.	Feet Irom	> North/South	Feet from>	East/West	County
Dedication	Joi	nt?	t? Consolidation Order No.						
	£							I her control to the belie	ed NameBRIAN WOOD
)			,	— 9 <i>y</i> —	7		/	I he on the on the or the same of the same	URVEYOR CERTIFICATION reby certify that the well locate this plat was plotted from field as of actual surveys made by mander my supervision, and that the is true and correct to the beamy belief.

Richardson Operating Co. Ropco 9 #2 1075' FSL & 715' FEL Sec. 9, T. 29 N., R. 14 W. San Juan County, New Mexico



PROPOSED WELL:

EXISTING WELL:

P & A WELL:

♣

ACCESS ROAD: ----WATER LINE: ----LEASE:



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San Juan County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

Formation Name	GL Depth	KB Depth	Subsea Elevation
Kirtland Sh	000'	5'	+5,335'
Fruitland Fm	53 5'	540'	+4,800'
Pictured Cliffs Ss	835'	840'	+4,500'
Total Depth (TD)*	1,000'	1,005'	+4,335'

^{*} all elevations reflect the ungraded ground level of 5,335'

2. NOTABLE ZONES

<u>Gas Zones</u>	Water Zones	<u>Coal Zones</u>
Fruitland Fm (535')	Fruitland Coal (535')	Fruitland Coal (535')
Pictured Cliffs (835')		

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 been let, thus the exact BOP to be used is not yet known. A typical 2,000 psi model is on PAGE 3. A similar model meeting BLM standards will be used. Double ram or annular system with a rotating head will be used. All ram preventers and related equipment will be hydraulically tested at NU and after any use under pressure to 1000 psi.



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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 400 psi.

4. CASING & CEMENT

Hole Size	O.D.	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	1,000'

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. Thirty barrels of fresh water will next be circulated. Lead with ≈ 106 cu. ft. (≈ 52 sx) of Class B with 2% metasilicate (yield = 2.06 cu. ft./sk, slurry weight = 12.5 PPG). Tail with ≈ 79 cu. ft. (≈ 67 sx) of Class B with 2% CaCl₂ (yield = 1.18 cu. ft./sk, slurry weight = 15.6 PPG). Total cement volume is ≈ 185 cu. ft. 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. Five centralizers will be spaced on every other joint starting above the shoe. Five turbolizers will be placed on every other joint starting from the top of the well.

