RM APPROVED B No. 1004-013 es January 31, 20 No.) 6 004	
8110		
ottee or Tribe	Name	
Agreement, Na	ame and No.	
nd Well No.		
- 323	391	
10. Field and Pool, or Exploratory Basin Fruitland Coal		
	Survey or Area	
j-129N-1	13. State	
	NM	
ing Unit dedicated to this well 2 320.00 Acres		
BIA Bond No. on file Nationwide #158293308		
ration week	3300	
	bond on file (s	
Date 6	-2-04	
Date	24 06	
	,	
ntitle the appli	icant to conduc	
rtment or ager	ncy of the Unite	
- y .r -	ation week an existing less as may be Date Date Date	

MACCD

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

Fax:970-565-3330

Form C - 102

MENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT APA Number Pool Code Pool Name 30-045- 7 71629 Basin Fruitland Coal Property Code Property Name Well Number ROPCO IO OCERD No. Operator Name Bevolion 19219 RICHARDSON OPERATING COMPANY 5380 Surface Location Fact from North/South | Feet from> UL or Lat Two. Rgo. East/West County C Ю 29 N. 14 W 835 NORTH 1850 WEST SAN JUAN Bottom Hole Location If Different From Surface UL or Lot Sec Top. Rge Feet from> North/South | Feet from> East/West County Dedication Joint ? Consolidation Order Na. 320 NO ALLOWABLE WILL ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION N 891627 E 5297.5 WG\$ 84 OPERATOR CERTIFICATION hereby certify that the information contained herein is true and complete to the best of my knowledge and 36'44'45.72" N D87758.32" W 1850 betef. Signature 0.4753 Printed \\\W/2 Fruitland Coal Paul Lehrman Title 320.00 Acres Landman Date 6-2-04 SURVEYOR CERTIFICATION I hereby certify that the well location on this plot was plotted from field notes of actual surveys made by me or under my supervision, and that the 0.1847 same is true and correct to the best of my belief. Date of Survey 5/1/<u>04</u> 2665.86 Signature and Professional S **Existing Richardson** Ropco 10 #2 (PC/Fruitland Coal) 1772 FSL/1948 FWL \$ 86 5928 E 2628.50 S 87 3942 E

Richardson Operating Company Ropco 10 #3 835' FNL & 1850' FWL Section 10, T29N, R14W, NMPM San Juan County, New Mexico

DRILLING PROGRAM

1. ESTIMATED FORMATION TOPS:

<u>Formation</u>	GL Depth	KB Depth	Subsea Elevation
Kirtland Shale	Surface	5'	+5,380'
Fruitland Fm	650'	655'	+4,730'
Basal Fruitland Coal	830'	835'	+4,550'
Pictured Cliffs Ss	860'	865'	+4,400'
Total Depth (TD)*	1050'	1055'	+4,330'
# A 18 1 4' Ol . 4 41	1 1 1 1 . C C .	3001	

^{*}All elevations reflect the ungraded ground level of 5,380'

2. NOTABLE ZONES:

Gas Zones	Water Zones	Coal Zones
Fruitland	Fruitland Coal	Fruitland Coal

Pictured Cliffs

Water zones will be protected with casing, cement, and water based mud. Fresh water encountered during drilling will be recorded by depth. Centralizers will be run through usable water zones to ensure that the casing is centralized through these zones. Number of centralizers will be based on API standards. A turbulizing centralizer will be run to ensure an adequate cement procedure just below the base of the lowest usable water zone. Oil and gas shows will be tested for commercial potential based on the well site representatives recommendations.

3. PRESSURE CONTROL:

The drilling contract has not yet been awarded, thus the exact BOP model to be used is unknown. (A typical 2,000 psi model has been attached to the end of the drilling program.) 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.

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 rated to 2000 psi. Maximum expected pressure is less than 1000 psi.

Drilling Program Richardson Operating Company

Page Two

4. CASING AND CEMENTING PROGRAM:

Hole Size	<u>O.D.</u>	Weight (lb/ft)	Grade	<u>Age</u>	GL Setting Depth
8 3/4"	7"	20	J-55	New	120'
6 1/4"	4 1/2"	10.5	J-55	New	1050'

30

Surface casing will be cemented to surface with ≈ 36 cu.ft. (≈ 35 sx) Class B + 2% CaCl. 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 drilling fluid to surface. Thirty barrels of fresh water will then be circulated. Lead with ≈ 115 cu.ft. (≈ 75 sx) Class B with 2% metasilicate (yield = 2.06 cu.ft./sk, slurry weight = 12.5 ppg). Tail in with ≈ 65 cu.ft. (≈ 70 sx) Class B with 2% CaCl (yield = 1.18 cu.ft./sk, weight = 15.6 ppg). Total cement volume is ≈ 180 cu.ft. based on 100% excess and circulating to surface.

Production casing will have 4 ½" cement guide shoe and self fill float collar. Float will be placed one joint above the shoe. Six centralizers will be spaced every other joint starting above the shoe. Six turbolizers will be placed every other joint starting from the top of the well.

5. MUD PROGRAM:

Surface casing hole will be drilled with fresh water mud. Production casing hole will be drilled with a fresh water polymer mud. Weighting material will be drill solids or, if needed, barite. Maximum expected mud weight will be 8.7 ppg. Sufficient material to maintain mud properties, control lost circulation, and contain a blowout will be available at the well while drilling.

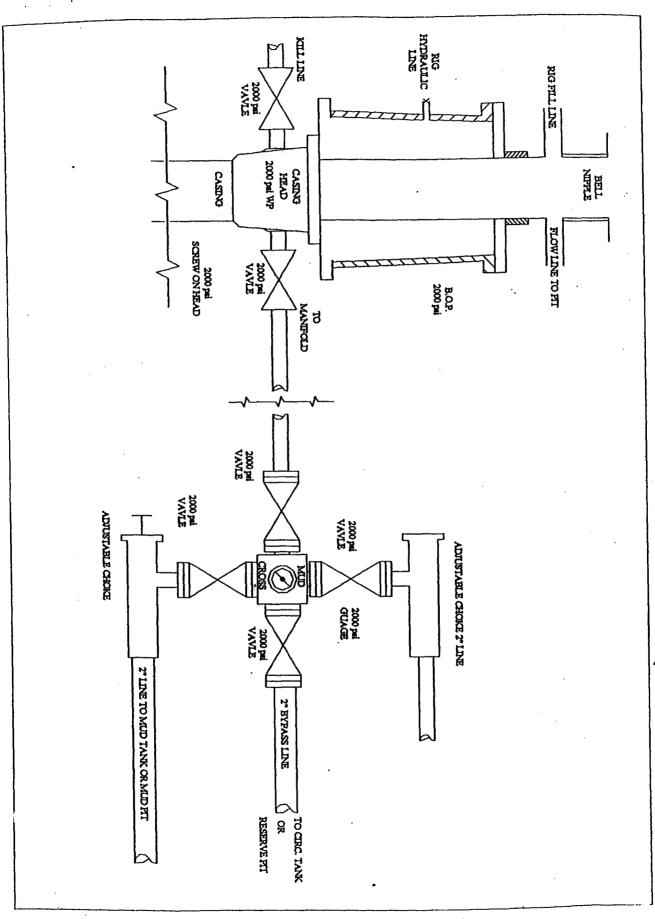
6. CORING, TESTING, & LOGGING:

No cores or DSTs are planned. A cased hole CNL/GR will be run from TD to surface.

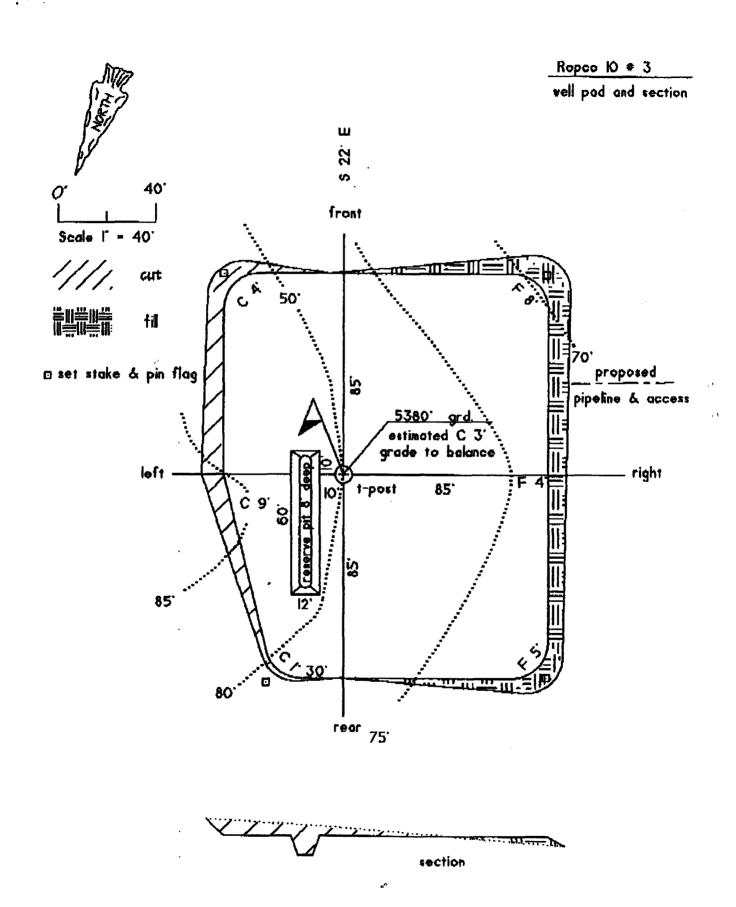
7. DOWNHOLE CONDITIONS:

No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum pressure will be approximately ≈520 psi. Although no hydrogen sulfide is expected while drilling, if encountered appropriate safety measures will be instituted. After the well is in production, if hydrogen sulfide is encountered, appropriate safety measures will be instituted to ensure the safety of the public, Richardson employees, contractors, or anyone expected to work or recreate in the vicinity. This may include, but not be limited to, monitoring, flagging or other measures appropriate for the situation.

BLOW OUT



	Office , Energy Mine	e of New Me				n C-103 ch 4, 2004
ŧ	District I 1625 N. French Dr., Hobbs, NM 88240			WELL API NO.		
	District II 1301 W. Grand Ave., Artesia, NM 88210 OIL CONSI	ERVATION	DIVISION	30-045-		
	District III 1220 S	outh St. Fran	ncis Dr.	5. Indicate Type STATE	of Lease FEE	deral NMS
	1000 Rio Brazos Rd., Aztec, NM 87410 District IV Sant	ta Fe, NM 87	7505	6. State Oil & O		078110
	1220 S. St. Francis Dr., Santa Fe, NM 87505			N/A		
Γ	SUNDRY NOTICES AND REPORT	S ON WELLS		7. Lease Name	or Unit Agreement	t Name
1	(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO			ROPCO	•	
1	DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (PROPOSALS.)	(FURM C-101) FC	JK SUCH			
	1. Type of Well:			8. Well Number	•	
	Oil Well Gas Well 🔀 Other				· · · · · · · · · · · · · · · · · · ·	
	2. Name of Operator Richardson Operating Company		·	9. OGRID Num 1921	9	
	3. Address of Operator	NW 07/0	1	10. Pool name or Wildcat Basin Fruitland Coal		
}	3100 La Plata Highway, Farmington 4. Well Location	1, NH 0/40	1	Dasin Fru	ittianu coai	
		Marat.	L	1050	TT •	
	Unit Letter C: 835 feet from	the Nort	h line and	feet fr	om theWest	line
	Section 10 Townshi	p ^{29N} Ra	ange 14W	_{NMPM} San J	uan NM County	
	11. Elevation (Sho	w whether DR, 5380 G	, <i>RKB, RT, GR, etc.,</i> L)		
	Pit or Below-grade Tank Application (For pit or below-grade tank			<u>d)</u>		. 1/
	Pit Location: ULC Sect 10 Twp 29N Rng 14W Pit type			≥100 Distance from 1	earest fresh water w	_{ell} >/zmile
	Distance from nearest surface water > 1000 Below-grade Tan	k Location UL_	SectTwj	Rng	;	1
_	feet from theline andfeet from the	line				1
	12. Check Appropriate Box t NOTICE OF INTENTION TO:		SUB	SEQUENT RE	EPORT OF:	
	PERFORM REMEDIAL WORK PLUG AND ABAN	DON []	REMEDIAL WOR	к ⊔	ALTERING CAS	SING L
	TEMPORARILY ABANDON		COMMENCE DR	LLING OPNS.	PLUG AND ABANDONMEN	т 🗆
	PULL OR ALTER CASING MULTIPLE COMPLETION		CASING TEST AI CEMENT JOB	ND 🗆		
	OTHER:		OTHER:	Pit Permit		X
-	 Describe proposed or completed operations. (Clor of starting any proposed work). SEE RULE 110 or recompletion. 					
_	\mathcal{A}					
1	I hereby certify that the information above is true and congrade tank has been/will be constructed or closed according to NM	mplete to the be OCD guidelines \(\bar{\mathbb{Z}} \)	est of my knowledg 🗶 a general permit 🔲	e and belief. I furt or an (attached) alter	her certify that any prosecutive OCD-approve	it or below- d plan □.
5	SIGNATURE	TITLE	Landman		DATE しっと	-04
-	Type or print name Paul Lehrman	E-mail ac	ldress: plehrma	n@digii.net _]	elephone No.	564-8115
((This space for State use)					
-	APPPROVED BY	TITLE			DATE	
(Conditions of approval, if any:					



Fax:970-565-3330