	Form 3160-3 (September 2001) UNITED STATES	2004 SEP 30 AM		FORM APPROVED OMB No. 1004-0136 Expires January 31, 200	1				
	DEPARTMENT OF THE IN BUREAU OF LAND MANAG	DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT 070 FARMINGTON HA							
	APPLICATION FOR PERMIT TO DR		6. If Indian, Allottee or Tribe Name N/A						
/	1a. Type of Work: XX DRILL REENTER	₹		7. If Unit or CA Agreement, Nan	ne and No.				
/	1b. Type of Well: Oil Well Gas Well Other	🛭 Single Zone 🗋 Multiple	e Zone	8. Lease Name and Well No. Federal 32-13	#3Y				
	2. Name of Operator Richardson Operating Company	430	77.	9. API Well No. 30-045- 325	77				
	3a. Address 4601 DTC Blvd, Suite 470 Denver, CO 80237	3b. Phone No. (include grea code) 303/830-8000	1953 A	10. Field and Pool, or Exploratory Basin Fruitlan	d Coal				
	Location of Well (Report location clearly and in accordance with a At surface 1020' FNL & 1895' FWL At proposed prod. zone Same as above	2004	Sec. 13-T28N-R8	•					
1	14. Distance in miles and direction from nearest town or post office* 13 miles from Blanco, New Me	xico (12 County or Parish I	3. State NM				
H	15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of Acres in lease 1,851.96	开研验	Unit dedicated to this well 320.00 Acres					
	18. Distance from proposed location* 15 to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 3,000.001		IA Bond No. on file ationwide #1582933	108				
•	21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6370 GL	22. Approximate date work will start* upon approval	•	23. Estimated duration 2 weeks					
24. Attachments									
•	The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form: 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office) 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification. 6. Such other site specific information and/or plans as may be required by the								
authorized officer.									
	25. Signature	Name (Printed/Typed) Paul Lehrman		Date	9/30/04				
,	Title Landman								

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Name (Printed/Typed)

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

*(Instructions on reverse)

Approved by (Signature,

Title

** Please return approved APD to 3100 La Plata Highway, Farmington, NM 87401.

CINEL OF CPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

NMOCD

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 A	ND ACREAGE DEDICATION PLAT	
30-045 32597		Peol Code	Ped Name	-
		71629	Basin Fruitland Coal	
Property Code		Prope	Property Name	
9/240		FEDERAL 32-13		3 Y
OGRID No.			gter Name	Bevalion
19219 RICHARDSON OPERATING COMPANY			6370	
			Surface Location	

ĺ	~~~~	7777		12		. 4 00	f	i '	1 -	·
	С	13	28 N.	8 W.		1020	NORTH	1895	WEST	SAN JUAN
	Bottom Hole Location II Different From Staface									
	UL or Lot	Sec.	Top	Rga,	Lot kts.	Feet fress>	North/South	Feet from>	East/West	County
						1	\$		1	
	Dedection	J	and T	Consolida	Soa I	······································		Qrd	or No.	
	₩/2 320		· .							

Lot to Feet from North/South Feet from > East/Meet

NO ALLOWABLE WILL ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

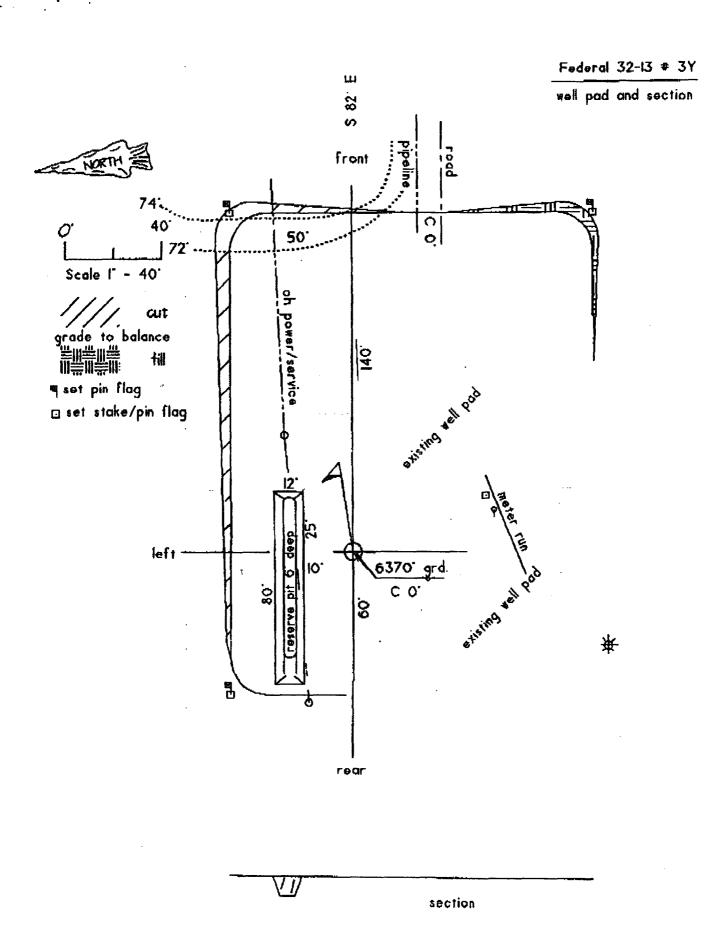
N. 80-10. W. 2528. OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 2628 N 83.13, M N 8919' W assumed 2628 020 1895 Signatur Printed Name Paul Lehrman Landman Date 9/30/04 I hereby cartify that the well location on this plat see plotted from field notes of actual surveys nade by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey 8 Existing Richardson Federal 32-13 #2 1850 FSL/1625 FWL ш 0.33 € 9/29/04 0.35 Signature a Z Hashed Line \\\\\\ W/2 Fruitland Coal 2637 calc 2637 assumed N 89'37' W N 89'37' W

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

SURVEYOR CERTIFICATION

Submit 3 Copies To Appropriate District Office	State of New M	lexico	Form C-103	
District I	Energy, Minerals and Na	tural Resources	May 27, 2004	_
1625 N. French Dr., Hobbs, NM 88240 District II			WELL API NO. 30-045-	
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATIO		5 Indicate Type of Leggs	┪.
District III 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Fr		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	: r a⊥
<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM	Santa Fe, NM	87505	6. State Oil & Gas Lease No.	6396
87505				
	CES AND REPORTS ON WELL		7. Lease Name or Unit Agreement Name	7
(DO NOT USE THIS FORM FOR PROPOSA DIFFERENT RESERVOIR. USE "APPLICA			Federal 32-13	1
PROPOSALS.)			8. Well Number #3Y	-
Type of Well: Oil Well Name of Operator	Gas Well 🔯 Other		9. OGRID Number	4
Richardson Operating	Company		19219	_
3. Address of Operator 4601 DTC Blvd, Suite	370, Denver, CO 80237		10. Pool name or Wildcat Basin Fruitland Coal	
4. Well Location	1020 feet from the Nort	h	1895 feet from the West line	7
Section 13	Township 28 N 11. Elevation (Show whether D		NMPM San Juacounty NM	
	6370			
Pit or Below-grade Tank Application Afor	Closure			4
Pit type DrillingDepth to Groundwa	ter <u> </u>	h water well <u>>500 '</u> Di	stance from nearest surface water > 1000	
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volume	bbls; C	Construction Material	\
12. Check A	ppropriate Box to Indicate	Nature of Notice,	Report or Other Data	
NOTICE OF INT	FNTION TO	SUB	SEQUENT REPORT OF:	
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WOR	·	
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRI	LLING OPNS. P AND A	
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMEN	T JOB	
OTHER:	П	OTHER:	Pit Permit XX	-
13. Describe proposed or comple		l pertinent details, and	d give pertinent dates, including estimated date	
~ · · · · ·	k). SEE RULE 1103. For Mult	iple Completions: At	tach wellbore diagram of proposed completion	3
or recompletion.				
			•	
-				
		-		_
I hereby certify that the information a grade tank has been/will be constructed or	bove is true and complete to the closed according to NMOCD guideling	best of my knowledge es ∰a general permit [e and belief. I further certify that any pit or below- or an (attached) alternative OCD-approved plan	- -
SIGNATURE // ~	- TITLE	Landman	DATE 9/30/04	
Type or print name Paul Lehrma	E-mail	address:	Telephone No.	
For State Use Only	/ ///	TOTAL STATE OF SAME AND	SPECTON, DIST. #3 DATE OCT - 5 20) O # `
APPROVED BY:	TITLE	EMUTT OIL & GAS IN:	STECTON, DIST. \$3 DATE	1U4
<i>.</i>				

20:25



Richardson Operating Company Federal 32-13 #3Y 1020' FNL & 1895' FWL Section 13, T28N, R8W, NMPM San Juan County, New Mexico

DRILLING PROGRAM

1. ESTIMATED FORMATION TOPS:

<u>Cormation</u>	GL Depth	KB Depth	Subsea Elevation
an Jose Fm	000'	5'	+6,370'
Vacimiento	570'	575'	+5,800'
ojo Alamo Ss	1866'	1871'	+4,504'
Cirtland Shale	2120'	2125'	+4,250'
ruitland Formation	2640'	2645'	+3,730'
rictured Cliffs Ss	2932'	2937'	+3,438'
Total Depth (TD)*	3000'	3005'	+3,370'
Nacimiento Djo Alamo Ss Cirtland Shale Fruitland Formation Pictured Cliffs Ss	570' 1866' 2120' 2640' 2932'	575' 1871' 2125' 2645' 2937'	+5,800° +4,504° +4,250° +3,730° +3,438°

^{*}All elevations reflect the ungraded ground level of 6,370'

2. NOTABLE ZONES:

Gas Zones	Water Zones	Coal Zones
Fruitland	Ojo Alamo	Fruitland Coal
Pictured Cliffs	-	

Water zones will be protected with casing, cement, and weighted mud. Fresh water encountered during drilling will be recorded by depth, cased, and cemented. Centralizers will be run through the Ojo Alamo. A turbulizing centralizer will be run at the base of the Ojo Alamo to ensure an adequate cement procedure. 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 floor safety valve, kelly cock and choke manifold rated to 2000 psi. Maximum expected pressure is less than 1000 psi.

Drilling ProgramRichardson Operating Company

Page Two

4. CASING AND CEMENTING PROGRAM:

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	300'
6 1/4"	4 1/2"	10.5	K-55	New	3000'

Surface casing will be cemented to surface with ≈ 100 cu.ft. (≈ 85 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 \approx 370 cu.ft. (\approx 180 sx) Class B with 2% metasilicate (yield = 2.06 cu.ft./sk, slurry weight = 12.5 ppg). Tail in with \approx 155 cu.ft. (\approx 132 sx) Class B with 2% CaCl (yield = 1.18 cu.ft./sk, weight = 15.6 ppg). Total cement volume is \approx 525 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. 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.

8. OTHER INFORMATION:

The anticipated spud date is October 31, 2004. It should take 5 days to drill and 1 week to complete the well.

BLOW OUT PREVENT

