Form 3160-3 (July 1992)

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE. (Other instructions on reverse side)

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FOR	M A.	rkc	VE	D
OMB	NO.	1004	1-01	36
Expires:	Febr	uary	28,	1995

P		LAND MANAGE						-99003
ADDI 10	CATION FOR P			R DEEDEN				OR TRIBE NAME
APPLII	SATION FOR P	ERMIT TO DE	TILL U	A DEEPEN				N/A
	L I	DEEPEN 🗌				7. UNIT AGRE	EMENT NA	N/A
b. TYPE OF WELL			SINGLE		E D	8. FARM OR LEAS	SAME WELL	NO
WELL WE 2. NAME OF OPERATOR	CLL COTHER		ZONE	ZONE			deral	30 #3
Richardson Or	perating Co.		(303	3) 830-800	00	9. API WELL NO.		2 - 4 2 4
3. ADDRESS AND TELEPHONE NO	J		•	802031		30-0	14-5 -	30727
1700 Lincoln 4. LOCATION OF WELL (Re	St., Suite 1	100, Denver	any State	requirement.	F	10. FIELD AND	& Tw.	Mo. PC
At surface	1752' FSL		WL	SEP 2001	5	11. SEC., T., R		
At proposed prod. zone	° C		m	RECENTED		L AND SURV	EY OR ARI	E A
•	Same		2	OILOON, DIV	66			/ NMPM
14. DISTANCE IN MILES A		REST TOWN OR POST 6	OFFI	DIST. 3		San Ju	i	13. BTATE NM
3 air miles N		1	6. NO.	Ayres in Lease 🔏		F ACRES ASSIG	1	
LOCATION TO NEAREST PROPERTY OR LEASE L	INE, FT.	1,061'	960	C(297 97 97 V)	тотн	IS WELL	320	& 160
(Also to nearest drig 18. DISTANCE FROM PROP	OSED LOCATION®	1,001	9. Propos	ED DEPTH	20. ROTAR	T OR CABLE TO		<u>u 100</u>
TO NEAREST WELL, DE OR APPLIED FOR, ON THI	S LEASE, FT.	2,799'	1,0	00'				Rotary
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)	,410' ungr	aded			Aug		2001
22.				MENTING PROGRA	м	1		
over up that s	GRADE, SIZE OF CASING	WEIGHT PER FOO		SETTING DEPTH	1	QUANTITY	OF CEMEN	т
8-3/4"	K-55 7"	20		120'				to surface
6-1/4"	K-55 4-1/2"	10.5		1,000'		≈185 cı	ս. ft. & 1	to surface
Archaeology repor	t LAC-2001-28	b filed 6-12-20						
procedural revie	ubject to technical an w pursuant to 43 CF want to 43 CFR 3160	R 3166.3	Subj	og de das goby 7 TO COMPLIANC ERAL REQUIREMEN	E WITH AT			
							N N	
IN ABOVE SPACE DESCRIE deepen directionally, give pert	BE PROPOSED PROGRAM: inent data on subsulface locat	If proposal is to deepen, gi	ive data on e vertical de	present productive zone pths. Give blowout prevo	and proposed	new productive	-	(via BLM)
24.	>0			sultant (505)				7 - 2 - 0 1
SIGNED	X 602	TITI.				DATE		
(This space for Fede	ral or State office use							
ordater So			API	ROVAL DATE		915/01		
Application approval does	not warrant or certify that the					ould entitle the ap	pplicant to ex	onduct operations th
CONDITIONS OF APPROVA	d _a IF ANY:						SEP -	
	/8/ Joel Faireii							•
APPROVED BY		TTLE _				DATE		

*See Instructions On Reverse Side

NMOCD

State of New Mexico Energy, Minerals & Mining Resources Department

OL CONSERVATION DIVISION 2040 South Pacheco Santa Fe. NM 87505

MENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

APA Number		Pool Code	Paal Name	
30.045-30727 71629		71629 & 86620	FRUIT. COAL & TWIN MOU	NDS PIC. CLF.
Property Code		Propert	Well Number	
23339		. WE FEI	30 - 3	
OGRID No.		Operate	Bevalian	
019219		RICHARDSON OPER	5410°	

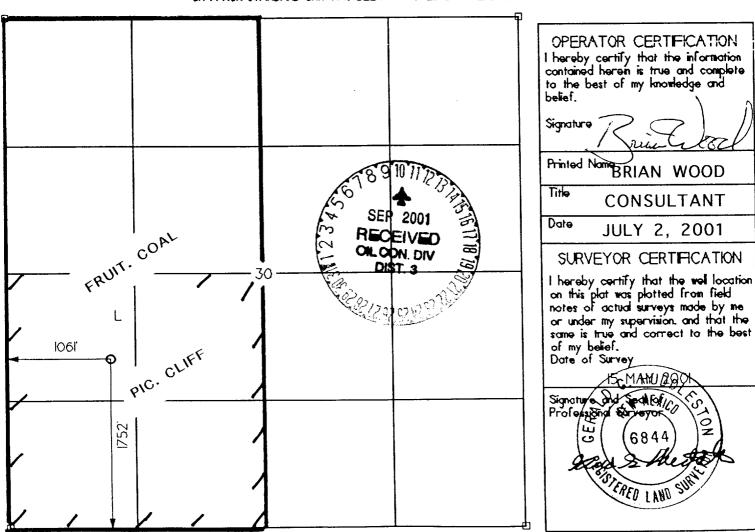
Surface Location

1	UL or Lat	Sec.	Twp.	Rge.	Lot lan	Feet from>	North/South	Feet from>	East/West	County
	L	30	30 N.	14 W.		1752	SOUTH	1061	WEST	. SAN JUAN

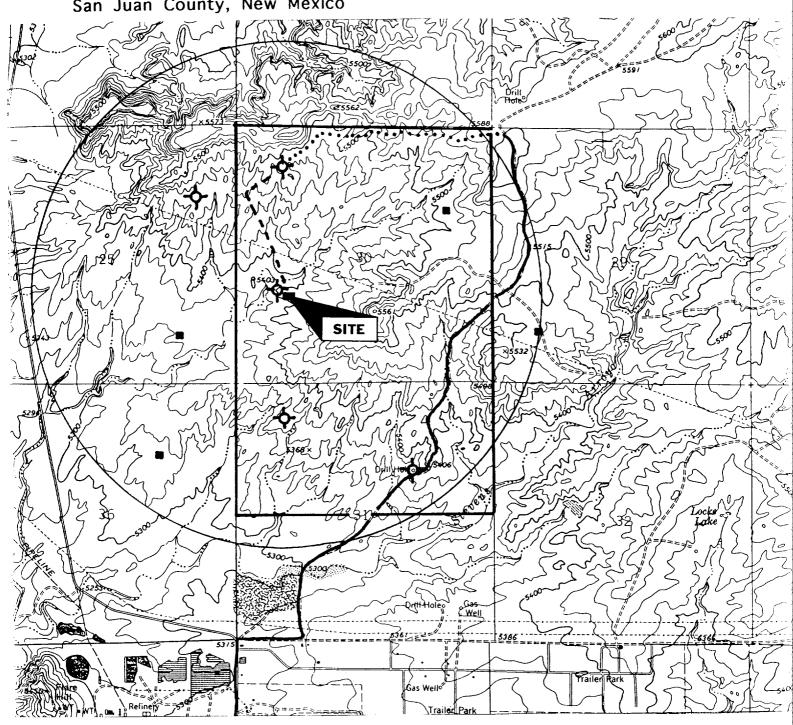
Bottom Hole Location If Different From Surface

UL or Lot	\$ec.	Тир.	Rge.	Lot ldh.	Feet (rom>	North/South	Feet from>	East/West	County
Dedication	J	oint?	Consolida	tion		L	Orde	н Мо.	

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



Richardson Operating Co. WF Federal 30 #3 1752' FSL & 1061' FWL Sec. 30, T. 30 N., R. 14 W. San Juan County, New Mexico



PROPOSED WELL:

LEASE:

EXISTING WELL:

EXISTING ROAD: ~

P&A WELL: 💠

30 #3 ROAD TO BE UPGRADED & PIPELINE: ----



Richardson Operating Co. WF Federal 30 #3 1752' FSL & 1061' FWL Sec. 30, T. 30 N., R. 14 W. San Juan County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

Formation Name	GL Depth	KB Depth	Subsea Elevation
Kirtland Sh	000'	5'	+5,410'
Fruitland Fm	735'	435'	+4,675'
Pictured Cliffs Ss	825'	953'	+4,585'
	1.000'	1.005'	+4,410'
Total Depth (TD)*	1,000	1,000	,

^{*} all elevations reflect the ungraded ground level of 5,410'

2. NOTABLE ZONES

<u>Gas Zones</u>	Water Zones	Coal Zones
Fruitland Fm (735')	Fruitland Fm (735')	Fruitland Fm (735')
Pictured Cliffs (825')		

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.



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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 ≈ 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 ≈ 105 cu. ft. (≈ 51 sx) of Class B with 2% metasilicate (yield = 2.06 cu. ft./sk, slurry weight = 12.5 PPG). Tail with ≈ 80 cu. ft. (≈ 68 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. Four centralizers will be spaced on every other joint starting above the shoe. Four turbolizers will be placed on every other joint starting from the top of the well.

