SINTERIOR 195 OCT 4 NAGEMENT  DRILL OR REENTER OF OTO FARM STER  SER  Single Zone Multip	PM I	Expires Marcl  5. [Lease Serial No. NMNM-048573]  6. If Indian, Allotee or N/A  7 If Unit or CA Agreement N/A	Tribe Name
DRILL OR REENTER OF OFFICER	IVED	7 If Unit or CA Agreeme	
TER	<u>, i . i </u>	•	ent, Name and No.
Single Zone Multip			
	ole Zone	8. Lease Name and Wel ROPCO FEE FC	
OMPANY		9. API Well No. 30-045- 333	375
3b. Phone No. (include area code) (432) 685-8143		•	•
my State requirements.*)	-9		•
		12. County or Parish SAN JUAN	13. State
16. No. of acres in lease 313.59	17. Spacing	Unit dedicated to this well	
19. Proposed Depth 2,200'	İ		
22. Approximate date work will sta 11/01/2005	rt*	23. Estimated duration 2 WEEKS	
24. Attachments			
4. Bond to cover t Item 20 above). 5. Operator certifit 6. Such other site	the operation cation specific info	s unless covered by an ex	,
Name (Printed/Typed) BRIAN WOOD		D	09/30/2005
PHONE: (505) 466-8120	FAX	<b>(: (505) 466-9682</b>	,
Name (Printed/Typed)		D	ate 3/13/2
Office	<u> </u>		
olds legal or equitable fitle to those righ	nts in the sub	ect lease which would enti	tle the applicant to
	(432) 685-8143  my State requirements.*)  16. No. of acres in lease  313.59  19. Proposed Depth 2,200'  22. Approximate date work will sta 11/01/2005  24. Attachments nore Oil and Gas Order No.1, shall be a  1	(432) 685-8143  my State requirements.*)  16. No. of acres in lease 313.59  19. Proposed Depth 2,200'  22. Approximate date work will start* 11/01/2005  24. Attachments  nore Oil and Gas Order No.1, shall be attached to this litem 20 above).  5. Operator certification 6. Such other site specific info authorized officer.  Name (Printed/Typed) BRIAN WOOD  PHONE: (505) 466-8120  FAX  Name (Printed/Typed)  Office  Olds legal or equitable little to those rights in the subjection of the subjection o	(432) 685-8143  BASIN FRUTTLA  Try State requirements.*)  11. Sec., T. R. M. or Blk. a  12. County or Parish SAN JUAN  16. No. of acres in lease  313.59  19. Proposed Depth 20. BLM/BIA Bond No. on file BLM NM2125  22. Approximate date work will start* 23. Estimated duration 11/01/2005  24. Attachments  15. Operator certification 16. Such other site specific information and/or plans as manuforized officer.  Name (Printed/Typed) BRIAN WOOD  PHONE: (505) 466-8120  PAX: (505) 466-9682  Name (Printed/Typed)  Day  PAX: (505) 466-9682

\*(Instructions on page 2)

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

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

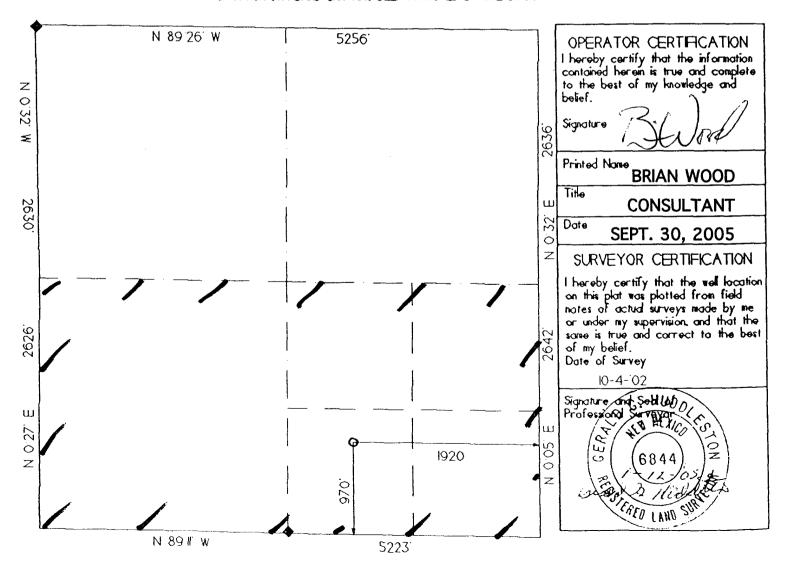
# State of New Mexico Energy. Minerals & Mining Resources Department OIL CONSERVĂTION DIVISION 2040 South Pacheco

Santa Fe. NM 87505

MENDED REPORT

	V N	· · · · · · · · · · · · · · · · · · ·	1 44 (		TION AND A	icheriae i	JEDICK HOL				
	PA Nun	- •		Pool C	004	Pool Nome					
30-04	15.	333	15	71629		<b>BASIN F</b>	RUITLANI	COAL			
Property C	ode	A	Property Name						Well Number		
3012	594	4 /	•		ROPCO FEE	FC 15			/	. 1 <u>T</u>	
OGRID No	).	Operator Name						Bevation			
233194		)	_	POGO P	RODUCING (S.	MAUL NA	CO		/	5546	· · · · ·
Surface Location											
UL or Lot	Sec.	ľwp.	Rga	Lot lan	Foot from>	North/South	Feet from>	East/West		County	
0	15	29 N.	12 W.	970	SOUTH	1920	EAST			SAN JUAN	-
Battom Hole Location If Different From Surface											
UL or Lot	\$ec.	Twp.	Rge.	Lot lon	Feet from>	North/South	Feet from>	East/West		County	
Dedication 316.60	Jo	int?	Conso	idation		<u>.</u>	Ord	ler Na.	<u> </u>		
المنتسب بعيرين	1	O ALLOWA			THIS COMPLET				CONSOLD	ATED CETA	

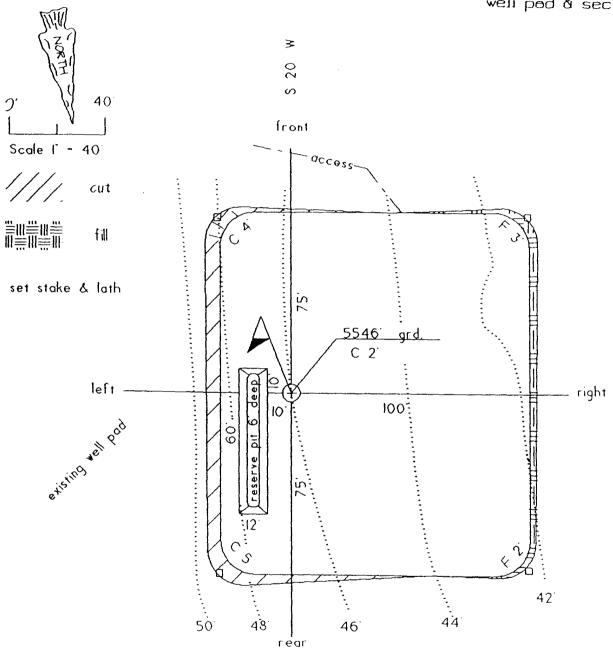
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIMSKN

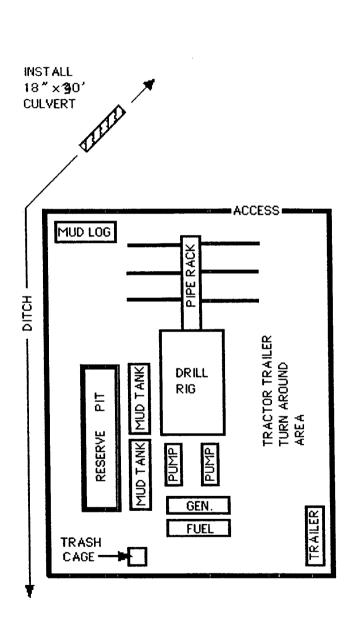


Submit 3 Copies To Appropriate District		New Mexico		Form C-103
District I 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals	and Natural Resources	WELL API NO	May 27, 2004
District II	OU CONSERV	ATION DIVISION		30-045-333 /
1301 W. Grand Ave., Artesia, NM 88210 District III		St. Francis Dr.	5. Indicate Typ STATE	be of Lease
1000 Rio Brazos Rd., Aztec, NM 87410 District IV		e, NM 87505	6. State Oil & 0	
1220 S. St. Francis Dr., Santa Fe, NM 87505			NMNM-0	)48573
<del></del>		PEN OR PLUG BACK TO A	7. Lease Name ROPCO F	or Unit Agreement Name EE FC 15
PROPOSALS.)  1. Type of Well: Oil Well	Gas Well X Other		8. Well Number	er IT
2. Name of Operator POGO F	PRODUCING (SAN J	UAN) COMPANY	9. OGRID Nur	nber 149052
3. Address of Operator P.O. BO	X 10340, MIDLAND	, TX 79702-7340	10. Pool name	
4. Well Location			BASIN FI	RUITLAND COAL
Unit Letter O	970 feet from the	SOUTH line and	1920 feet f	rom the <u>EAST</u> line
Section 15	Township 2		NMPM	County SAN JUAN
	11. Elevation (Show w.	hether DR, RKB, RT, GR,	etc.)	
Pit or Below-grade Tank Application X	5,546' GL	` 14A		
Pit type DRILLING Depth to Groundy		> 1000 arest fresh water well <del>&gt; 2,80</del> 0		urface water <del>200</del>
Pit Liner Thickness: 12 mil	Below-Grade Tank: Vo	olumebbls	Construction Material	
12. Check	Appropriate Box to In	dicate Nature of Not	ice, Report or Oth	er Data
NOTICE OF IN	NTENTION TO:	S	UBSEQUENT R	EPORT OF:
PERFORM REMEDIAL WORK				
TEMPORARILY ABANDON  PULL OR ALTER CASING		☐ COMMENCE	DRILLING OPNS.  MENT JOB	P AND A
<del></del> -	WOLTIFLE COMPL		WEINI JOB []	_
OTHER: DRILLING PIT  13. Describe proposed or com-	plated apprehians (Clearly	OTHER:	and give portinent d	lotes including estimated data
				agram of proposed completion
or recompletion.		•		
I hereby certify that the information	above is true and comple	ete to the best of my know	ledge and belief. I fu	rther certify that any pit or below-
grade tank has been/will-be constructed d	E expediaceording to INIVIOCE	guidelines &, a general pern TITLE CONSULTA		0.30.05
		TH CE		DATE9-30-03
Type or print name BRIAN W For State Use Only	OOD	E-mail address: brian@	permitswest.com	Telephone No. (505)
TO STATE USE OHLY			AC MARCON	466-8120 MAR 1 3 2008
APPROVED BY:		TITLE	AS INSPECTOR, DIST.	DATE

APPROVED BY:\_\_\_\_\_Conditions of Approval (if any):

# ROPCO FEE FC 15 # 1 T well ped & section







# **Drilling Program**

## 1. ESTIMATED FORMATION TOPS

<u>Formation</u>	GL Depth	KB Depth	<b>Elevation</b>
Nacimiento	0'	5'	+5,546'
Kirtland Shale	356'	361'	+5,190'
Fruitland Coal	1,346'	1,351'	+4,200'
Pictured Cliffs Sandstone	1,571'	1,576'	+3,975'
Lewis Shale	1,746'	1,751'	+3,800'
Total Depth (TD)	2,200'	2,205'	+3,346'

## 2. NOTABLE ZONES

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

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 2,000 psi 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 1,000 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 all rated to 2,000 psi. Maximum expected pressure is ≈880 psi.

## 4. CASING & CEMENT

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

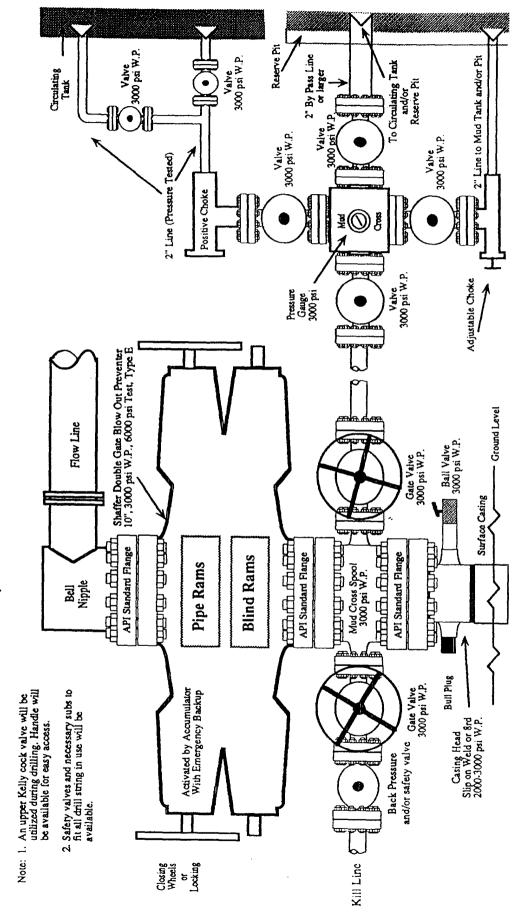
Surface casing will be cemented to surface with  $\approx 59$  cubic feet ( $\approx 50$  sacks) Class B + 2% CaCl<sub>2</sub>. Volume is based on 100% excess, yield of 1.18 cubic feet per sack, and slurry weight of 15.6 pounds per gallon. W. O. C. = 12 hours. Pressure test surface casing to  $\approx 600$  psi for 30 minutes.

Production casing hole will be cleaned of rock chips by circulating  $\geq 150\%$  of hole volume with mud. Forty barrels of fresh water will next be circulated. Lead with  $\approx 393$  cubic feet ( $\approx 191$  sacks) of Class B with 2% metasilicate (yield = 2.06 cubic feet per sack, slurry weight = 12.5 pounds per gallon). Tail with  $\approx 59$  cubic feet ( $\approx 50$  sacks) of Class B with 2% CaCl<sub>2</sub> (yield = 1.18 cubic feet per sack, slurry weight = 15.6 pounds per gallon). Total cement volume = 452 cubic feet @ 100% 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 or seven centralizers will be spaced on every other joint starting above the shoe. Six or seven turbolizers will be placed on every other joint starting from the top of the well.



# 2,000 PSI BOP SYSTEM



Note: This equipment is designed to meet requirements for a 2-M rating standard per 43 CFR part 3160 (amended). Proper operation and testing of equipment will be carried out per standard. 2,000 psi equipment can be substituted in the drawing to meet minimum requirements per standard.

## 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 8.5 pounds per gallon.

## 6. CORES, TESTS, & LOGS

No cores or drill stem tests are planned.

Spectral Density/Dual Spaced Neutron and Dual Induction/Guard with GR, SP, and Caliper and logs will be run from TD to at least the base of the surface casing.

## 7. DOWN HOLE CONDITIONS

No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum pressure will be  $\approx 880$  psi.

## 8. OTHER INFORMATION

The anticipated spud date is upon approval. It is expected it will take one week to drill the well and one week to complete the well. Drilling will be daylight only.

## Surface Use Plan

