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SEP 2 4 2007	
Farmington	_

Form 3160-3 (February 2005)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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FORM APPROVED OMB No. 1004-0137 Expires March 31, 2007

5. Leise Serial No. 14-20-603-1371

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APPLICATION FOR PERMIT	. Navajo Albitica# 0	11156			
la Type of work: DRILL	reenter		7 If Unit or CA Agreemen SW-1-4223	I, Name and No	
lb. Type of Well: This well Gas Well Odle	a Single Zone Multip	le Zon e	8. Lease Name and Well N Navajo 11 OS	ło.	
2 Name of Operator Patina Oll and Gas Corporation			9, API Well No. 30-045-3	4161,	
3a Address 5802 US Highway 64, Farmington, NM 87	7401 3h Phune No. (inchale urea code) 505-632-8056		10. Field and Pool, or F Basin Dakota/r 🕰	asin Manc	is.
4. Location of Well (Report location clearly and in accordance At surface 1980 FNL and 660 FWL At proposed prod zone SAME	v with conj. Мане педаблениот.*)		11. Sec., T. R. M. or Elk. an		
 Distance in miles and direction from nearest town or post of 25 miles south of Bloomfield, NM 	Time*		12. County of Parish San Juan	13. State NM	
5. Distance from proposed to location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any) 660'	16. No, of acres in lease 320		g Unit dedicated to this well 20 acres	RCVD MAY 9 '	
Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 660*	19 Proposed Depth 631		BIA Band No. on file 8720503-CO1291	Service of the servic	
Elevations (Show whether DF, KDB, RT, GL, etc.) 6819' GL	22 Approximate date work will sta 06/01/2007		23. Estimated duration /2 days		
	04 444 -1				

24 Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- 1. Well plat certified by a registered surveyor.
- 2 A Drillage Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must 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 BLM.

25. Signature Selve Mas	Name (Printed Typed) Billie Maez	Date 1-12-07
Title District Manager		
Approved by (Sigkenore) // (an love)	Name (PrintedTyped)	Date 9/19/07
Title AFM	Office	

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

Conditions of approval, if any, are attached.

Title IB U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crume 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 page 2)

This notion 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 REDUIREMENTS".

OPERATOR ⁶

MAY 1 3 2008

1220 S. St. Francische, Saltarfic NM (1565)

Distract IV

State of New Mexico

Energy, Minerals & Natural Resources Department OH, CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, NM 87505 Form C 102

Revised June 10,2003

Submit to Appropriate District Office

State Lease - 1 Copies

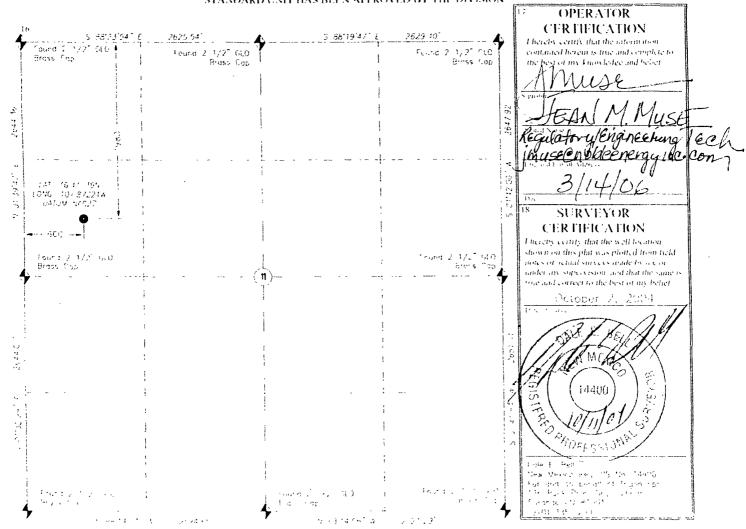
Fee Lease - 3 Copies

■ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

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NO AFLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL AFLINTERESTS HAVE BETN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



Director 1
1636 M. Francis Dr., Edistro, XIM 883M0
Director II.
1801 W. Oppul Armyron, Actorio, 200 88350
Richtel III.
1800 No. Revero Bel., Agenc, 200 87430
Director IV.

State of New Mexico

Process, Minerals & Natural Responses Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.

Form C-102
Revised June 10,2003
Subject to Appropriate District Office
State Lease - 4 Copies
For Lease - 3 Copies

Parties Part	Harina III. 1000 Min Maruno Re <u>Signista AV</u>			1220 South St. Francis Dr. Santa Fa, NM 87505							e Lesse - 3 Copies
AFT Number 30-045-34/6 972-32-11594 0 SIN May 665 BASIN DAKOTA	.110 B. Bt. Fracti	DL, Math P	-							LIAM	EMITER REMOKE
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Submit 3 Copies To Appropriate District	State of New Mex	xico		Form C-103
· Office District I	Energy, Minerals and Natur	ral Resources		May 27, 2004
1625 N. French Dr , Hobbs, NM 88240			WELL API NO.	,
<u>District II</u> 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION		30-045- <u>34/6</u>	
District III	1220 South St. Fran	cis Dr.	5. Indicate Type of STATE	FEE
1000 Rio Brazos Rd, Aztec, NM 87410 District IV	Santa Fe, NM 87	505	6. State Oil & Ga	
1220 S. St. Francis Dr , Santa Fe, NM 87505			o. o on a o	s Bouse 110.
	CES AND REPORTS ON WELLS		7. Lease Name or	Unit Agreement Name
	SALS TO DRILL OR TO DEEPEN OR PLU	D CLICII	NAVAJO	
PROPOSALS)	CATION FOR PERMIT" (FORM C-101) FO	RSUCH	8. Well Number	11 #05
1. Type of Well: Oil Well Name of Operator	Gas Well 🛛 Other	,	9. OGRID Numbe	or 234550
NOBLE ENERGY, INC.			9. OGKID Nullio	El 234330
3. Address of Operator			10. Pool name or	Wildcat
5802 US HIGHWAY 64, FARMI	NGTON, NM 87401		BASIN DAKOTA	A Busin Mances
4. Well Location				
Unit Letter <u>E</u> :	1980' feet from the NORTH	line and 60	feet from the	WEST line
Section 11	Township 25N Rang		M SAN	JUAN, COUNTY
	11. Elevation (Show whether DR, 6819' GR	RKB, RT, GR, etc.)		
Pit or Below-grade Tank Application 🛛 o	7 1			<u> </u>
Pit type X reserve Depth to Groun	dwater<100' Distance from neares	st fresh water well>10	00' Distance from	nearest surface water<200'
Pit Liner Thickness: 12 m	il Below-Grade Tank: Volume	bbls; Constructi	on Material reinforc	ed polyethylene plastic
12. Check A	Appropriate Box to Indicate Na	ature of Notice, R	eport or Other	Data
			-	
NOTICE OF IN			EQUENT REI	
PERFORM REMEDIAL WORK TEMPORARILY ABANDON	PLUG AND ABANDON CHANGE PLANS	REMEDIAL WORK COMMENCE DRILL		ALTERING CASING P AND A
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMENT		PANDA L
TOLE ON METER ON ONCO		O' (O'INO) O'EMPERT	,65	
OTHER: PIT PERMIT APP		OTHER:		
	leted operations. (Clearly state all p			
of starting any proposed we or recompletion.	ork). SEE RULE 1103. For Multiple	e Completions: Atta	ch wellbore diagra	am of proposed completion
or recompletion.				
DRILLING PIT APPLICATION				
PROPOSED: LINED DRILLING	· DIT WITH HAH INED VENTE	ADE/DI OW/ DIT B	MD THE DOIL	INC OF A NATURAL
GAS WELL.	FII WITH UNLINED VENT/FL	ARE/BLOW FIT I	OK THE DRILL	ING OF A NATURAL
GAIS WEEL.				
	•			
SEE ATTACHED CROSS SECTI	ON AND DRILLING PAD WITH	I PIT DIAGRAM		
				RCVD MAY 1 '08
				OIL CONS. DIV.
				DIST. 3
I hereby certify that the information grade tank has been/will be constructed or	above is true and complete to the be	st of my knowledge	and belief. I furthe	er certify that any pit or below-
Kinn:	\mathcal{D}_{α}			
SIGNATURE / Ollie (TITLE SA	<u>AN JUAN DISTRIC</u>	<u>T MANAGER</u>	DATE 04/28/2008
Type or print name BILLIE MA	E-mail address: bmaez@nob	leenergyinc.com Te	lephone No. 505-	-632-8056
For State Use Only		ep uty Oil & G a	s Inspector.	
APPROVED BY: 1 Shands 6	TITLE	District	#3	DATE MAY 1 3 2008
Conditions of Approval (if any):	= = = = = = = = = = = = = = = = = = = =		-	

Navajo 11 #05 General Drilling Plan Patina San Juan, Inc. San Juan County, New Mexico

1. LOCATION:

Est. elevation: 6730'

SWNW Section 11-T25N-R10W

1980' FNL 660' FWL San Juan, New Mexico

Field:

Surface: United States of America Minerals: United States of America

2. SURFACE FORMATION, ESTIMATED TOPS AND WATER, OIL, GAS OR MINERAL BEARING FORMATIONS (TVD):

Surface formation - Nacimiento

Formation	drilling depth
Ojo Alamo	886
Kirtland	1029
Fruitland	1495
Pictured Cliffs**	1960
Lewis	2207
Cliff House**	3529
Menefee	3547
Point Lookout**	4438
Mancos Shale	4678
Gallup**	5716
Greenhorn	6391
Graneros	6451
Dakota***	6491
TD	6631

Legend:

- * Freshwater bearing formation
- ** Possible hydrocarbon bearing formation
 *** Probable hydrocarbon bearing formation
- # Possible H2S bearing formation

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected.

3. PRESSURE CONTROL EQUIPMENT:

BOP equipment will be tested to its rated working pressure or 70-percent of the internal yield of the surface casing, but not to exceed 1,000 psi. See attachments for BOP and choke manifold diagrams.

Production Hole BOP Requirements and Test Plan

```
11" – 2,000 psi single ram (blind)
11" – 2,000 psi single ram (pipe)
```

Test as follows:

a)	Pipe rams:	1,000 psi (High)	250 psi (low)
b)	Choke manifold:	1,000 psi (High	250 psi (low)
c)	Choke lines:	1,000 psi (High)	250 psi (low)

All ram type preventers and related equipment will be hydraulically tested at nipple-up. They will also be retested in either of the following events:

- A pressure seal is broken.
- 30 days have elapsed since the last successful test of the equipment.

Furthermore, BOP's will be checked daily as to mechanical operating condition. All ram type preventers will have hand wheels, which will be operative and accessible at the time the preventers are installed. See attached Exhibit for details on the BOP equipment.

AUXILIARY EQUIPMENT:

- a) Manually operated kelly cock (upper and lower)
- b) Full opening manually operated safety valves in the full open position, capable of fitting all drill stem connections.

4. CASING DESIGN:

	Hole Data									
Interval	Bit Size (Inches)	Casing Size (Inches)	Top (Ft)	Bottom (Ft)						
Surface	12.25	9.625	0	310						
Production	7 7/8	4.5	0	6631						

Casing Data										
OD (Inches)	ID (Inches)	Weight (Lbs/Ft)	Grade	Thread	Collapse (psi)	Burst (psi)	Min. Tensile (Lbs)			
9.625	8.921	36.0	J55	STC	2,020	3,520	394,000			
4.5	4.276	11.6	N80	LTC	6,350	7,780	223,000			

MINIMUM CASING DESIGN FACTORS:

COLLAPSE: 1.125 BURST: 1.00 TENSION: 1.80

Area Fracture Gradient Range:

0.7 - 0.8 psi/foot

Maximum anticipated reservoir pressure:

2,500 psi

Maximum anticipated mud weight:

9.0 ppg

Maximum surface treating pressure:

3,750 psi

Float Equipment:

Surface Casing: Guide shoe on bottom and 3 centralizers on the bottom 3 joints.

Production Casing: Float shoe on bottom joint and a float collar one joint up from float shoe. One centralizer 10 ft above float shoe and centralizers over potential hydrocarbon bearing zones. Stage tool above the Cliffhouse formation. One centralizer below stage tool and one centralizer above stage tool.

CEMENTING PROGRAMS:

9-5/8" Surface casing:

200 sx Type III cement with 3% CaCl₂, ½#/sx cellofakes. 100% excess to circulate cement to surface. WOC 4 hrs. Pressure test surface casing to 1000 psi for 30 minutes.

Slurry weight: 15.2 ppg Slurry yield: 1.28 ft³/sack

Volume basis:

is: 40' of 9-5/8" shoe joint 17 cu ft

320 min 320' of 12-1/4" x 9-5/8" annulus 100 cu ft

100% excess (annulus) 100 cu ft

Total 217 cu ft

Note:

1. Design top of cement is the surface.

2. Have available 100 sx Type III cement with 2% CaCL₂ for top out purposes.

4 1/2" Production casing:

1st Stage:

Lead: 175 sx of Type III cement plus additives

Slurry weight: 10.6 ppg Slurry yield: 4.28 ft³/sx

Tail: 190 sx Type III cement plus additives

Slurry weight: 12.5 ppg Slurry yield: 2.20 ft³/sx

2nd Stage:

Lead: 95 sx of Type III cement plus additives

Slurry weight: 10.6 ppg Slurry yield: 4.28 ft³/sx

Tail: 205 sx Type III cement plus additives

Slurry weight: 12.5 ppg Slurry yield: 2.20 ft³/sx

Volume basis:

1st Stage:

40' of 4 1/2" shoe joint 5 cu ft 3400' of 4 ½" x 7 7/8" hole 775 cu ft

2nd Stage:

 2500' of 4 ½" x 7 7/8' hole
 570 cu ft

 30% excess (annulus)
 405 cu ft

 Total
 1755 cu ft

Note:

- 1. Design 1^{st} stage top of cement is ± 3230 ' (300' above the top of the Cliff House formation).
- 2. DV tool is 300' below the top of the Lewis Shale formation.
- 3. Actual cement volumes to be based on caliper log plus 30%.

5. MUD PROGRAM:

The surface hole will be drilled with spud mud. Gel and polymer sweeps will be used from surface to 300 feet as necessary to keep hole clean.

The production hole will be drilled with water until mud up at about 3420 ft. From mud up point to total depth, it will be drilled with a LSND mud. Anticipated mud weight ranges from 8.5 - 9.2 ppg. Mud weight will be increased as required to maintain hole stability and control gas influx.

Sufficient mud materials to maintain stable wellbore conditions (for either well control or lost circulation scenarios) will be maintained at the well site.

No chrome-based additives will be used in the mud system.

6. EVALUATION PROGRAM:

Mud logger:

From base of surface casing to TD.

Testing:

No DST is planned

Coring:

None Planned

Electric logs:

Production Hole:

1) GR-Neutron: TD to surface.

2) SP-LDT-DIL-CAL-PE: TD to base of surface casing

7. ABNORMAL PRESSURE AND TEMPERATURE:

H ₂ S	None
Coal	Fruitland
Minerals	None .
Water	None
Static BHT	175° F
Lost Circulation	Possible
Hole Deviation	None
Abnormal Pressures	None
Unusual Drilling Problems	None

8. ANTICIPATED STARTING DATE: Q2, 2006

Anticipated duration: 16 days

Navajo 11 #05

2000 psi BOP stack Minimum requirements

5 - 2" check valve (2M) 6 - 2" Manual valves (2M) Flow Line 4* Fill Line requirements. 3 3 2" Choke 2 Line

Components

- 1 Wellhead 9-5/8" (2M)
- 2 Drilling spool 11" (2M)
- 3 A double or two single rams with blinds on bottom 11" (2M)
- 4 Bell nipple*

*Note: Rotating head may also be used if necessary. Also, all line and valve sizes listed are minimum

Attachment #1

2" line to pit or mud/gas

Navajo 11 #05

2000 psi Choke Manifold Minimum requirements

Components

- 1 2" Valve (2M)
- 2 2" Valve (2M)
- 3 Mud cross with gauge (2M) flanged below the gage.
- 4 Adjustable choke (2M)
- 5 Adjustable choke (2M)

Note: All line and valve sizes listed are minimum requirements.

2" line to pit or mud/gas separator

