

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

2007 FEB 12 AM 9

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. 14-20-603-1372
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name (Navajo Allottee #011155)
2. Name of Operator Patina Oil and Gas Corporation		7. If Unit or CA Agreement, Name and No. SW-I-4222
3a. Address 5802 US Highway 64, Farmington, NM 87401		8. Lease Name and Well No. Navajo 11 #15
3b. Phone No. (include area code) 505-632-8056		9. API Well No. 30-045-34167
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 1257 FSL and 1974 FEL At proposed prod. zone same		10. Field and Pool, or Exploratory Basin Dakota
14. Distance in miles and direction from nearest town or post office* 25 miles south of Bloomfield, NM		11. Sec., T, R. M. or Blk and Survey or Area 0 Sec. 11, T25N, R10W
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1257'	16. No. of acres in lease 320	17. Spacing Unit dedicated to this well S/2 320 acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1805'	19. Proposed Depth 6649'	20. BLM/BIA Bond No. on file LMP8720503-CO1291
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6783' GL	22. Approximate date work will start* 06/01/2007	23. Estimated duration 12 days

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. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature <i>Billie Maez</i>	Name (Printed/Typed) Billie Maez	Date 1-12-07
Title District Manager		

Approved by (Signature) <i>D. Martini</i>	Name (Printed/Typed) AFM	Date 8/17/07
Title AFM		
Office FFO		

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.

SEE ATTACHED FOR

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.

CONDITIONS OF APPROVAL

Obtain a pit permit from NMOCD prior to constructing location

NOTIFY AZTEC OCD 24 HRS. PRIOR TO CASING & CEMENT

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

RCVD AUG 21 '07
OIL CONS. DIV.
DIST. 3

53
53

NMOCD

8-31-07-aw

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Artec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL 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 - 4 Copies
Fee Lease - 3 Copies

RECEIVED
OTC FARMINGTON, NM
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code 71599		³ Pool Name BASIN DAKOTA	
⁴ Property Code 36536		⁵ Property Name NAVAJO 11		⁶ Well Number 15	
⁷ OGRID No. 173252		⁸ Operator Name PATINA SAN JUAN, INC.		⁹ Elevation 6783'	

¹⁰ Surface Location

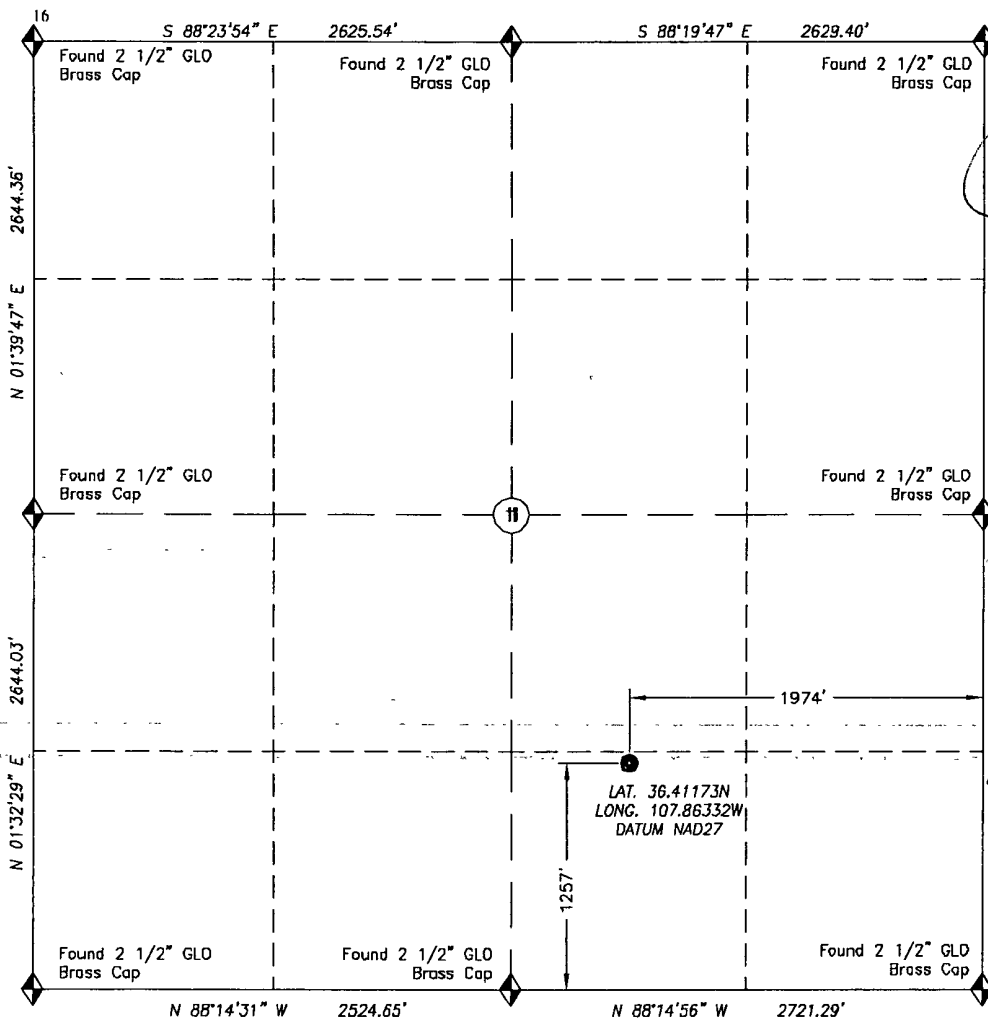
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	11	25N	10W		1257	SOUTH	1974	EAST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 320 ACRE			¹³ Joint or In fill S 1/2		¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



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

Signature: *Muse*
Printed Name: **JEAN M. MUSE**
Title and E-mail Address: *jmuse@nobleenergyinc.com*
Date: **1/19/07**

18 SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: **June 18, 2005**

DALE E. BELL
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
14400
7/18/05

Dale E. Bell
New Mexico Reg. PS No. 14400
For and on behalf of Trigon Epc
150_Tech_Center_Dr., Suite_E
Durango CO 81301
(970) 385-9100

PAD LAYOUT PLAN & PROFILE

PATINA OIL & GAS CORPORATION

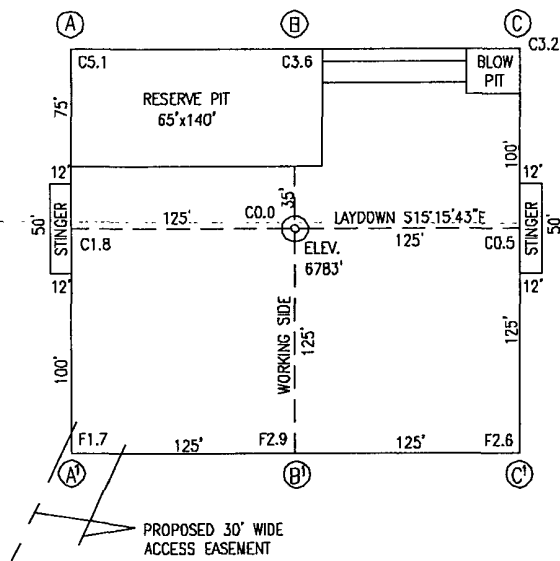
Navajo 11 #15

1257' F/SL 1974' F/EL

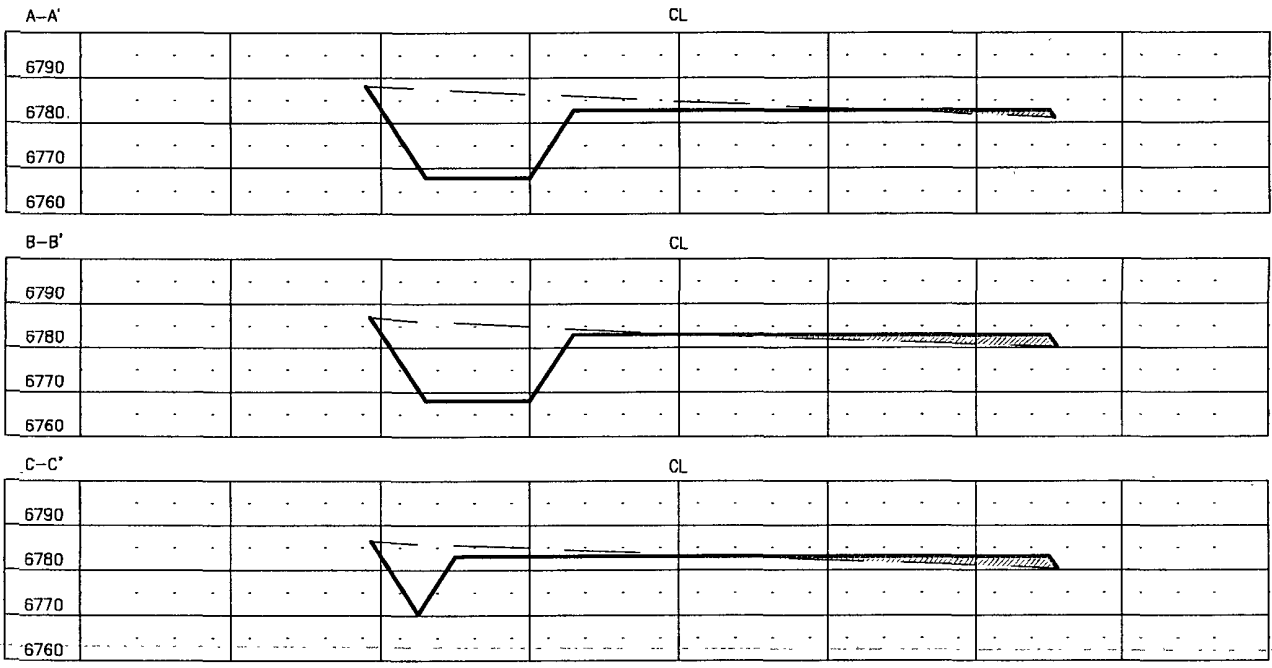
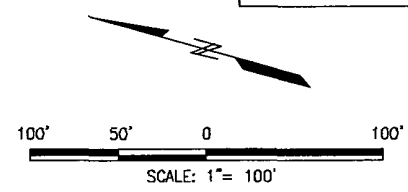
Sec. 11, T25N, R10W, N.M.P.M.

San Juan County, New Mexico

LATITUDE: 36.41173° N
LONGITUDE: 107.86333° W
DATUM: NAD 1927



PLAT NOTE
SURFACE OWNER
NAVAJO NATION
ALLOTMENT



HORIZONTAL SCALE: 1" = 60'
VERTICAL SCALE: 1" = 40'

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL ONE-CALL FOR LOCATION OF ALL BURIED FACILITIES ON WELL PAD AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.
2. CUTS AND FILLS SHOWN ARE APPROXIMATE - FINAL FINISHED ELEVATION IS TO BE ADJUSTED SO EARTHWORK WILL BALANCE. CORNER STAKES ARE APPROXIMATE AND DO NOT INCLUDE ADDITIONAL AREAS NEEDED FOR SIDESLOPES AND DRAINAGES. FINAL PAD DIMENSIONS ARE TO BE VERIFIED BY THE CONTRACTOR.

DATE SURVEYED: 6/18/05 DRAWN BY: AEM DATE DRAWN: 10/08/04 REVISION DATE: 5/02/06 FILE NAME: NAVAJO111502

CLIENT: **PATINA SAN JUAN, INC.** PREPARED BY: **TRIGON EPC**
ENGINEERING • PROCUREMENT • CONSTRUCTION

May 30, 2006 - 4:27pm by emj/haw - Path = K:\data\patina San Juan Inc\2185-13 Noopp. 11-1511-0wgs Revised\NAVAJO111502.dwg

**Navajo 11 #15
General Drilling Plan
Patina San Juan, Inc.
San Juan County, New Mexico**

1. LOCATION:

Est. elevation: 6783'
SWSE Section 11-T25N-R10W
1257' FSL 1974' FEL
San Juan County, New Mexico

Field: Huerfano
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	1099
Kirtland	1290
Fruitland	1526
Pictured Cliffs**	2001
Lewis	2250
Cliff House**	3594
Menefee	3602
Point Lookout**	4477
Mancos Shale	4687
Gallup**	5518
Greenhorn	6443
Graneros	6502
Dakota***	6540
TD	6770

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	300
Production	7 7/8	4.5	0	6770

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.

Centralize casing through the water formations.

CEMENTING PROGRAMS:

9-5/8" Surface casing:

165 sx Standard cement with 2% CaCl₂, 0.13 #/sx Poly-E-Flakes. 100% excess to circulate cement to surface. WOC 4 hrs. Pressure test surface casing to 1000 psi for 30 minutes.

Slurry weight: 15.6 ppg
Slurry yield: 1.20 ft³/sack

Volume basis:	40' of 9-5/8" shoe joint	17 cu ft
	300' of 12-1/4" x 9-5/8" annulus	100 cu ft
	<u>100% excess (annulus)</u>	<u>100 cu ft</u>
	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:

770 sx 50/50 Poz cement plus additives

Slurry weight: 13.5 ppg

Slurry yield: 1.33 ft³/sx

2nd Stage:

Lead: 221 sx of Premium cement plus additives

Slurry weight: 11.5 ppg

Slurry yield: 2.89 ft³/sx

Tail: 116 sx 50/50 Poz cement plus additives

Slurry weight: 13.5 ppg

Slurry yield: 1.33 ft³/sx

Volume basis:	1 st Stage:	
	40' of 4 1/2" shoe joint	5 cu ft
	3476' of 4 1/2" x 7 7/8" hole	790 cu ft
	<u>30% excess (annulus)</u>	<u>235 cu ft</u>
		1025 cu ft
	2 nd Stage:	
	2794' Lead	640 cu ft
	500' of 4 1/2" x 7 7/8" hole (Tail)	120 cu ft
	<u>30% excess Tail (OH annulus)</u>	<u>35 cu ft</u>
	Total	795 cu ft

Note:

1. Design 1st stage top of cement is $\pm 3294'$ (300' above the top of the Cliff House formation).
2. DV tool is at approximately 3294' (300' above the top of the Cliff House 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 3500 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

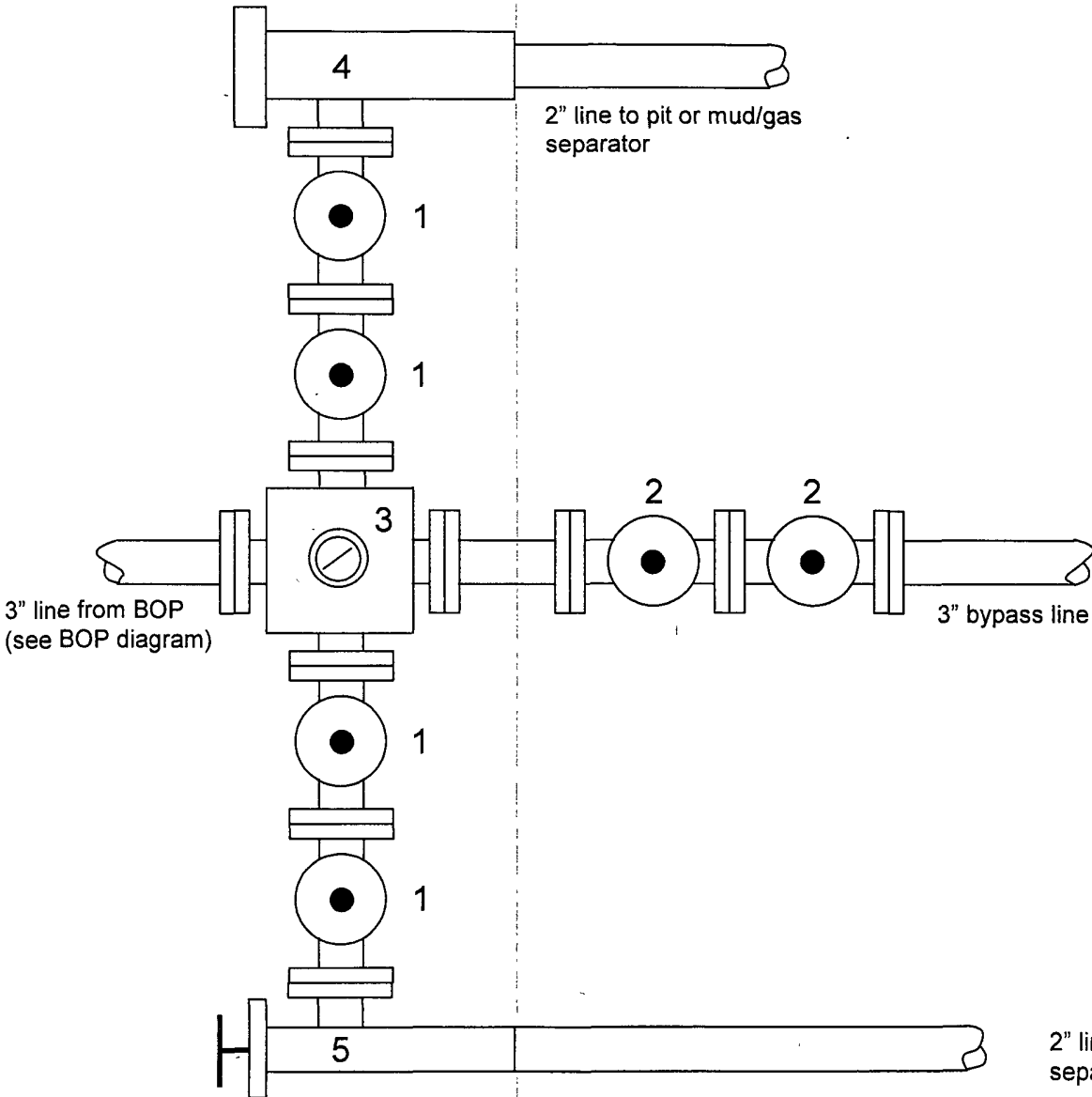
8. ANTICIPATED STARTING DATE: 3Q, 2007

Anticipated duration: 12 days

Navajo #11-15

2000 psi Choke Manifold

Minimum requirements



Components
1 – 2" Valve (2M)
2 – 3" 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.