

COPY

Form 3160-5  
(September 2001)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

2006 APR 19

FORM APPROVED  
OMB No. 1004-0135  
Expires: January 31, 2004

Farmington

SUNDRY NOTICES AND REPORTS ON WELLS

5. Lease Serial No.  
SF078244

6. If Indian, Allottee, or Tribe Name

7. If Unit or CA. Agreement Designation

8. Well Name and No.

Harms Way 30 #29

9. API Well No.

30-045-31206

10. Field and Pool, or Exploratory Area

BASIN DK / BLANCO MV

11. County or Parish, State

SAN JUAN COUNTY, NM

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

PATINA OIL AND GAS CORPORATION

3a. Address

5802 US HIGHWAY 64, FARMINGTON, NM 87401

3b. Phone No. (include area code)

505-632-8056

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1035' FSL - 660' FWL, UL "M"  
Sec. 30, T31N, R12W

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Acidize

☐ Altering Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☐ Plug and abandon

☐ Plug back

☐ Production (Start/ Resume)

☐ Reclamation

☐ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-off

☐ Well Integrity

☒ Other

Add Basin FC, delete

MV, well name change

13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)

Patina San Juan requests:

1. Addition of the Basin Fruitland Coal formation to the Basin Dakota

2. Deletion of the Blanco Mesa Verde formation

3. Well name change to: Harms Way Federal 30 #29

eff 4-15-06 per  
Melinda 7-24-06

14. I hereby certify that the foregoing is true and correct.

Name (Printed/ Typed)

BILLIE MAEZ

Title

DISTRICT MANAGER

Signature

Date

4/18/2006

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any are attached. Approval of this notice 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.

Office

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 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)

OPERATOR

District I  
PO Box 1980, Hobbs, NM 88241-1980

District II  
PO Drawer DD, Artesia, NM 88211-0719

District III  
1000 Rio Brazos Rd., Aztec, NM 87410

District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-102  
Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

2006 APR 19 AM 7:31 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-31206	*Pool Code 71599/71629	*Pool Name BASIN Dakota / BASIN Fruitland Coal
*Property Code 35371	*Property Name HARMS WAY 30	*Well Number # 29
*OGRID No. 173252	*Operator Name PATINA SAN JUAN, INC.	*Elevation 5906'

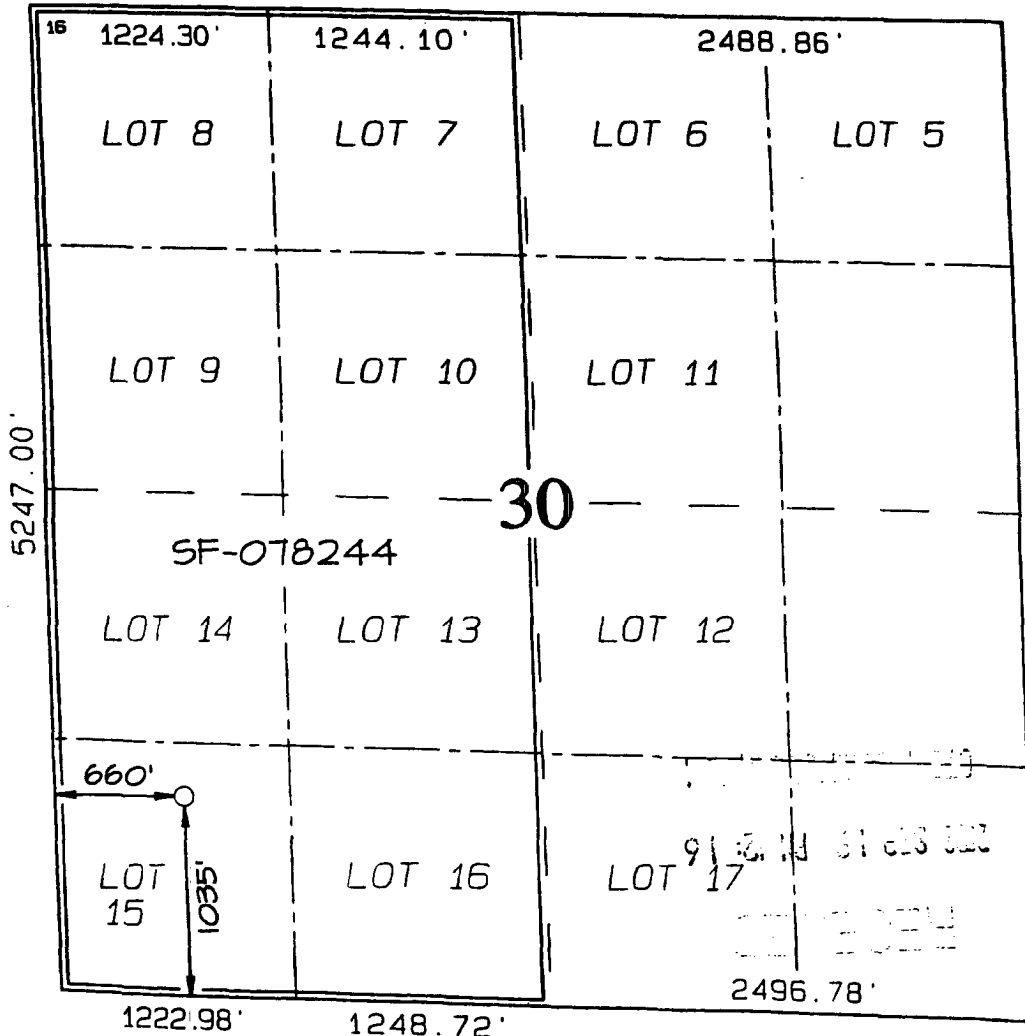
10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	30	31N	12W		1035	SOUTH	660	WEST	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 298.02 Acres - (W/2)					13 Joint or Infill Y	14 Consolidation Code	15 Order No.		

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

*Paul C. Thompson*  
Signature

Paul C. Thompson

Printed Name

Agent

Title

9/17/02

Date

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: MAY 30, 2002

Signature and Seal of Professional Surveyor



*JASON C. EDWARDS*

Certificate Number 15269

**Harms Way 30 #29  
General Drilling Plan  
Patina San Juan, Inc.  
San Juan County, New Mexico**

**1. LOCATION:**

Est. elevation: 5906'  
SWSW of Section 30, T31N, R12W  
San Juan County, New Mexico

Field: Basin Dakota & Basin Fruitland Coal  
Surface: BLM  
Minerals: SF078244

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

Surface formation – Nacimiento

<b><u>Formation</u></b>	<b><u>Estimated Formation Top (Ft)</u></b>
Ojo Alamo	1127
Kirtland	1278
Fruitland**	1842
Pictured Cliffs**	2212
Lewis	2412
Cliff House**	3775
Menefee**	3928
Point Lookout***	4552
Mancos	4883
Gallup	6065
Greenhorn	6590
Graneros	6647
Dakota ***	6718
TD	6952

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	315
Intermediate	8.75	7.0	0	4955
Production	6.25	4.5	3770	6947

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
7.000	6.366	23.0	N80	LTC	3,830	6,340	435,000
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.

**Intermediate Casing:** Float shoe on bottom joint and a float collar one joint up from float shoe. One centralizer 10 ft above float shoe and nine centralizers spaced every joint above the float collar. Stage tool above the Cliffhouse formation. One centralizer below stage tool and one centralizer above stage tool.

**Production Casing:** 4 1/2" whirler type cement nosed guide shoe and a float collar on top of bottom joint with centralizers over potential hydrocarbon bearing zones.

## CEMENTING PROGRAMS:

### 9-5/8" Surface casing:

225 sx Type III cement with 3%  $\text{CaCl}_2$ , 1/4#/sx cellofakes. 100% excess to circulate cement to surface. WOC 12 hrs. Pressure test surface casing to 1000 psi for 30 minutes.

Slurry weight: 14.5 ppg  
Slurry yield: 1.42 ft<sup>3</sup>/sack

Volume basis:	40' of 9-5/8" shoe joint	17 cu ft
	300' of 13-1/2" x 9-5/8" annulus	147 cu ft
	<u>100% excess (annulus)</u>	<u>147 cu ft</u>
	Total	311 cu ft

Note:

1. Design top of cement is the surface.
2. Have available 100 sx Type III cement with 2%  $\text{CaCl}_2$  for top out purposes.

### 7" Intermediate Casing:

1<sup>st</sup> Stage:

135 sx of Type III cement plus additives

Slurry weight: 12.3 ppg

Slurry yield: 2.22 ft<sup>3</sup>/sx

2<sup>nd</sup> Stage: (Stage tool at  $\pm 3000'$ )

Lead: 240 sx of Type III cement plus additives

Slurry weight: 12.3 ppg

Slurry yield: 2.22 ft<sup>3</sup>/sx

Tail: 50 sx of Type III cement plus additives

Slurry weight: 14.5 ppg

Slurry yield: 1.40 ft<sup>3</sup>/sx

Volume Basis:	40' of 7" shoe joint	9 cu ft
	4200' of 7" x 8 3/4" hole	631 cu ft
	300' of 7" x 9 5/8" casing	50 cu ft
	<u>30% excess (annulus)</u>	<u>204 cu ft</u>
	Total	894 cu ft

Note:

1. Design top of cement is surface.
2. Actual cement volumes to be based on caliper log plus 30%.

**4 1/2" Production casing:**

175 sx of Type III cement plus additives

Slurry weight: 12.5 ppg

Slurry yield: 2.06 ft<sup>3</sup>/sx

Volume basis:	40' of 4 1/2" shoe joint	5 cu ft
	2000' of 4 1/2" x 6 1/4" hole	205 cu ft
	300' of 4 1/2" x 7" casing overlap	33 cu ft
	200' above 4.5" liner (without drill pipe)	44 cu ft
	30% excess (annulus)	72 cu ft
	<u>Total</u>	<u>359 cu ft</u>

**Note:**

1. Design top of cement is ±4000' (200' above the top of the 4.5" liner w/out drill pipe).
2. 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 intermediate hole will be drilled with water until mud up at about 3100 ft. From mud up point to intermediate casing depth (±4500'), 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.

The production hole will be drilled with air or air/mist to TD.

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: Intermediate Hole:

1) DIL-GR-SP: TD to base of surface casing.

2) LDT-CNL-GR-CAL-PE: TD to base of surface casing

Production Hole:

1) No open hole logs

2) Cased hole resistivity & porosity logs

**7. ABNORMAL PRESSURE AND TEMPERATURE:**

H <sub>2</sub> 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: Q1, 2006**

Anticipated duration: 16 days



## MULTI-POINT SURFACE USE PLAN

1. Existing Roads:

All existing roads used to access the proposed location are shown on attached plat #1 and shall be maintained in the same or better condition than presently found.

2. Planned Access Roads:

Approximately \_\_\_\_\_' of new access road will be built for this well. The existing access road will be maintained to at least the current condition, and will be upgraded where necessary to provide uninterrupted access to the proposed well.

3. Location of Existing Wells:

Attached map (Plat #1) shows existing wells within a one mile radius of the proposed well.

4. Location of Production Facilities:

In the event of production, production facilities will be located on the drill pad. The actual placement of this equipment will be determined when the well's production characteristics can be evaluated.

A 4" diameter buried steel pipeline that is \_\_\_\_\_' will be constructed. The pipe-wall thickness will be Schedule 40 and the wall strength is 1000 psi. The well will be connected to Williams Field Service's gathering system on or at the edge of the well pad. The pipeline ROW will be cross-country to avoid numerous archaeological sites. The pipeline will not be used to transport gas to drill the well.

To protect livestock and wildlife any tanks will be enclosed by a dike and a fence.

5. Water Supply:

Water for drilling and completion operations will be produced water and hauled by truck from surrounding wells or fresh water from the nearest facility with appropriate water quality.

6. Source of Construction Materials:

No additional construction materials will be required to build the proposed location.

7. Methods for Handling Waste Disposal:

The drill cuttings, fluids and completion fluids will be placed in the reserve pit. The reserve pit will be fenced on three sides prior to drilling and the fourth side when drilling rig is moved off location. The reserve pit will be allowed to dry, and materials remaining in the reserve pit buried. The reserve pit will be back-filled, leveled and contoured so as to prevent any materials being carried into the watershed. Upon completion, the pad will be leveled, contoured and reseeded with the appropriate seed mixture.

All garbage and trash will be placed in a metal trash basket. It will be hauled off and dumped

in an approved land fill upon completion of operations.

Portable toilets will be provided and maintained during drilling operations. See Plat #3 for location.

8. Ancillary Facilities:

Ancillary facilities are to be based on well productivity. The gas pipeline is described on Plat #4.

9. Well Site Layout:

A cross section of the drill pad with approximate cuts, fills, and pad orientation is attached as Plat #2. Location of drilling equipment, rig orientation, and access road approach is also attached as Plat #3.

10. Plans for Restoration of Surface:

When the well is abandoned, the location and access road will be cleaned and restored to the original topographical contours as much as possible. The area will be reseeded with the appropriate seed mixture.

If the well is productive, areas not used in production will be contoured and seeded with stipulated seed mixture. Production equipment will be painted the color designated by the surface managing agency.

11. Surface ownership:

The surface ownership is: Bureau of Land Management

12. Other Information:

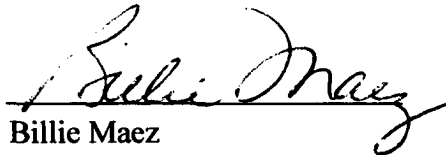
Refer to the Environmental Assessment (EA) and the archaeological report for a description of the soil characteristics and information about the flora and fauna of the area.

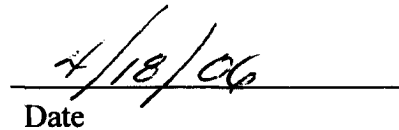
13. Lessee's or Operator's Representative:

Billie Maez  
Patina San Juan, Inc.  
5802 U. S. Highway 64  
Farmington, New Mexico 87401  
Phone: (505) 632-8056

14. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Patina San Juan, Inc., and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to 18 U.S. Code 001 for filing of a false statement.

  
Billie Maez

  
Date

# Harms Way Federal #30-29

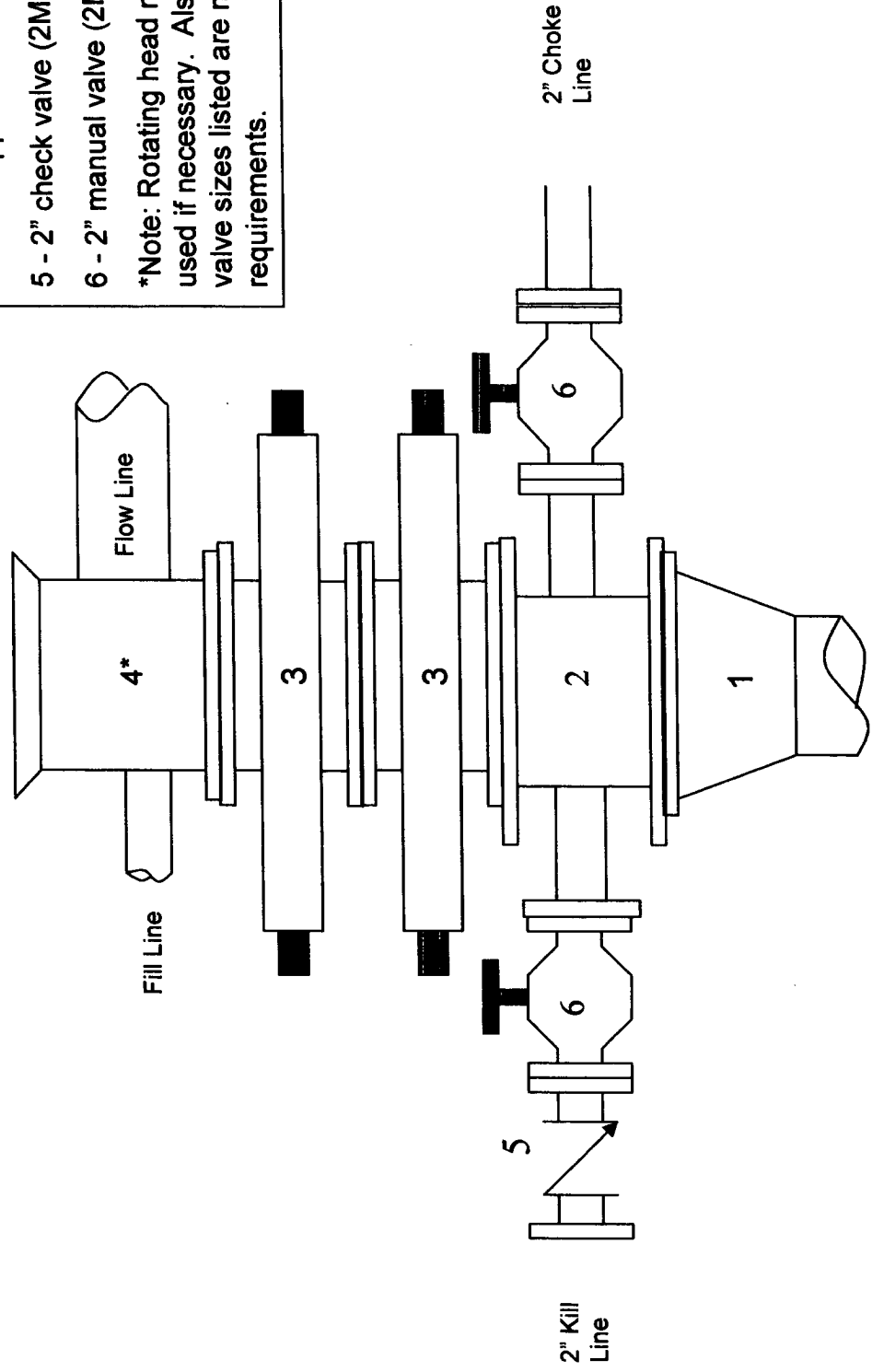
2000 psi BOP stack

Minimum requirements

## 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\*
- 5 - 2" check valve (2M)
- 6 - 2" manual valve (2M)

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



# Harms Way Federal #30-29

## 2000 psi Choke Manifold

### Minimum requirements

#### Components

1 – 2" Valve (2M)

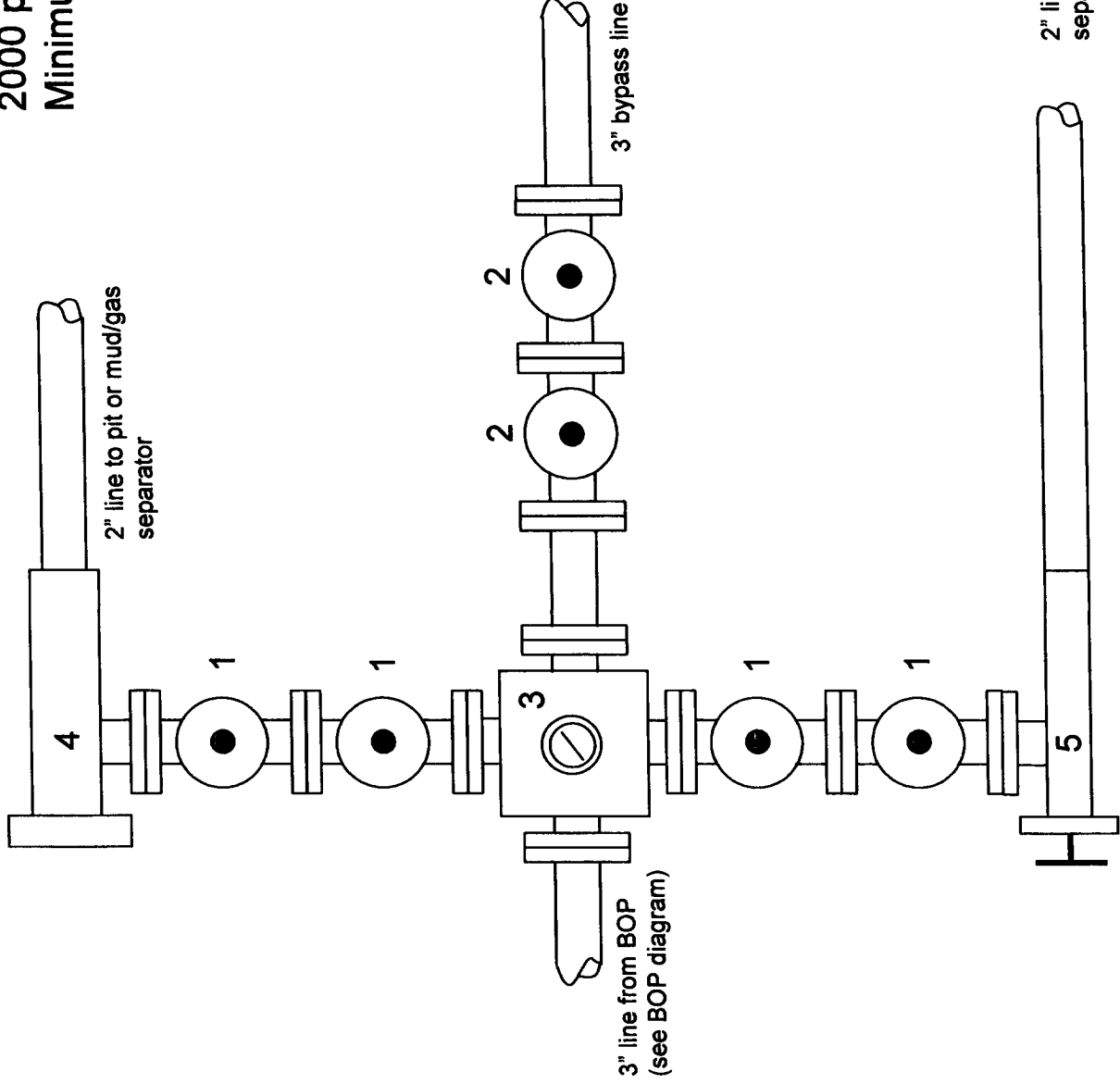
2 – 3" Valve (2M)

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.



5802 U.S. Highway 64  
Farmington, NM 87401

Tel: 505.632.8056  
Fax: 505.632.3031  
www.nobleenergyinc.com

North America Division



2006 APR 19 AM 7 31

RECEIVED  
070 FARMINGTON NM

April 18, 2006

United States Department of the Interior  
Bureau of Land Management  
Farmington Field Office  
1235 La Plata Highway  
Farmington, New Mexico 87401

Attn: Jim Lovato

Re: Harms Way Federal 30 #29

Dear Jim,

In response to our conversation of April 17, 2006 is the following history on the above-referenced well. The well was originally permitted as the Lea C #1 with targeted formations of the Blanco Mesa Verde and the Basin Dakota. The original permit expired in 2005 and permission was granted to extend the permit to January of 2006.

The well name was changed from the Lea #1C to Harms Way Federal 30 #29. At some time the name was changed to Harms Way 30 # 29.

The Regional Office requested that we submit a sundry that the formations be changed for the completion of the Basin Dakota, deletion of the Blanco Mesa Verde and the adding of the Fruitland Coal.

The sundry submitted for these changes dated 4/6/05 was inaccurate and confusing as to the date, drilling plan and requested changes.

Attached is a sundry for the Harms Way 30 #29 which includes the Basin Dakota and Fruitland Coal Formations, as well as an updated drilling/cementing plan to include the two formations. A request for a name change back to Harms Way Federal 30 # 29 and deletion of the Blanco Mesa Verde formation.

I trust that this information will be sufficient for your needs, but if not, please do not hesitate to contact me.

Cordially,

*Patina San Juan, Inc.*

A handwritten signature in black ink, appearing to read 'Billie Maez', written over the printed name.

Billie Maez

District manager

Cc: File