

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
APPLICATION FOR PERMIT TO DRILL OR REENTER

2005 SEP 9

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

Lease Serial No. SF - 078319-A

RECEIVED

If Indian, Allottee or tribe Name

Unit or CA Agreement, Name and No

1a. Type of Work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☒ Gas Well Gas ☐ Other ☐ Single Zone ☐ Multiple Zone

8. Lease Name and Well No.

Riddle C LS # 5

2. Name of Operator

BP AMERICA PRODUCTION COMPANY Attn: Cherry Hlava (281) 366-4081

9. API Well No.

30-045-33336

3a. Address

P.O. BOX 3092 HOUSTON, TX 77079-2064

3b. Phone No. (include area code)

281-366-4081

10. Field and Pool, or Exploratory

Basin Fruitland Coal

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

At surface 2110' FSL & 925' FWL NESW

At proposed prod. Zone SAME AS ABOVE

11. Sec., T., R., M., or Blk. and survey or Area

SECTION 30 T31N & R09W

K

14. Distance in miles and direction from nearest town or post office\*

11.3 MILES EAST FROM AZTEC, NM

12. County or Parish

SAN JUAN

13. State

NEW MEXICO

15. Distance from proposed\*

Location to nearest  
Property or lease line, ft.

(Also to nearest drig. Ujnit line, if any) 500' (NSL applied for)

16. No. of Acres in lease

299.10

17. Spacing Unit dedicated to this well

299.10

NSP 1894

18. Distance from proposed location\*

to nearest well, drilling, completed,

Applied for, on this lease, ft. est. 500' to MV well

19. Proposed Depth

3514' MD

20. BLM/BIA Bond No. on file

WY2924

21. Elevations (show whether DF, KDB., RT, GL, etc.)

6638' GL

22. Approximate date work will start\*

12/15/05

23. Estimated duration

7 DAYS

24. Attachments

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

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National forest System Lands, the SUPO shall 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 authorized officer.

25. Signature

Cherry Hlava

Name (Printed/typed)

Cherry Hlava

Date

09/06/2005

Title

Regulatory Analyst

Approved by (Signature)

FFD

Name (Printed/Typed)

Office

FFD

Date

11/3/05

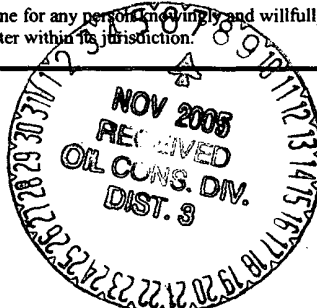
Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct Operations thereon.

Conditions of approval, if any, are attached.

Title 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.

\*(Instructions on reverse)

HOLD CIVIL FOR NSP



NMOCD

☐ AMENDED REPORT

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

Fe, NM 87504-2088  
2005 SEP 9 PM 1 31

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-045-33336		2 Pool Code 71629		3 Pool Name Basin Fruitland Coal	
4 Property Code 000976		5 Property Name Riddle C LS			6 Well Number #5
7 OGRID No. 000778		8 Operator Name BP AMERICA PRODUCTION COMPANY			9 Elevation 6638

## <sup>10</sup> Surface Location

UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>K(Lot 14)</b>	<b>30</b>	<b>31 N</b>	<b>9 W</b>		<b>2110</b>	<b>SOUTH</b>	<b>925</b>	<b>WEST</b>	<b>SAN JUAN</b>

<sup>11</sup> 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
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12 Dedicated Acres 299.10	13 Joint or Infill	14 Consolidation Code	15 Order No. NSP1894
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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**

30

31

925'

2110'

2610'(R)

379'(R)

1307'(R)

2614'(R)

2592'(R)

2592'(R)

2606'(R)

1303'(R)

283'(R)

Lot 1

Lot 2

Lot 3

Lot 4

Lot 5

Lot 6

Lot 7

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### <sup>17</sup> OPERATOR CERTIFICATION

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

Cherry Hava  
Signature

Signature \_\_\_\_\_

Cherry Hlava  
Printed Name

Printed Name

Printed Name  
Regulatory Analyst  
Title

Title	Author	Editor	Reviewer	Date	Status
Project A	John Doe	Jane Smith	Mike Johnson	2023-10-27	In Progress
Project B	Alice Brown	David Green	Emily White	2023-11-05	On Hold
Project C	Frank Black	Grace Lee	Henry King	2023-11-12	Completed
Project D	Ivy Clark	Jack Hall	Karen Young	2023-11-19	In Progress
Project E	Leo Adams	Mia Baker	Noah Carter	2023-11-26	On Hold
Project F	Olivia Evans	Peter Foster	Quinn Gibson	2023-12-03	Completed
Project G	Ryan Harris	Sophia King	Tyler Lee	2023-12-10	In Progress
Project H	Uma Miller	Victor Nelson	Wendy Ortiz	2023-12-17	On Hold
Project I	Xavier Perez	Yara Quinn	Zoe Reed	2023-12-24	Completed
Project J	Adam Scott	Bella Taylor	Caleb Vance	2023-12-31	In Progress

9-1-05

Date \_\_\_\_\_

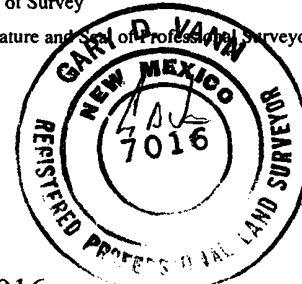
## 18 SURVEYOR CERTIFICATION

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.

August 11, 2005

Date of Survey

Signature and Seal of Professional Surveyor

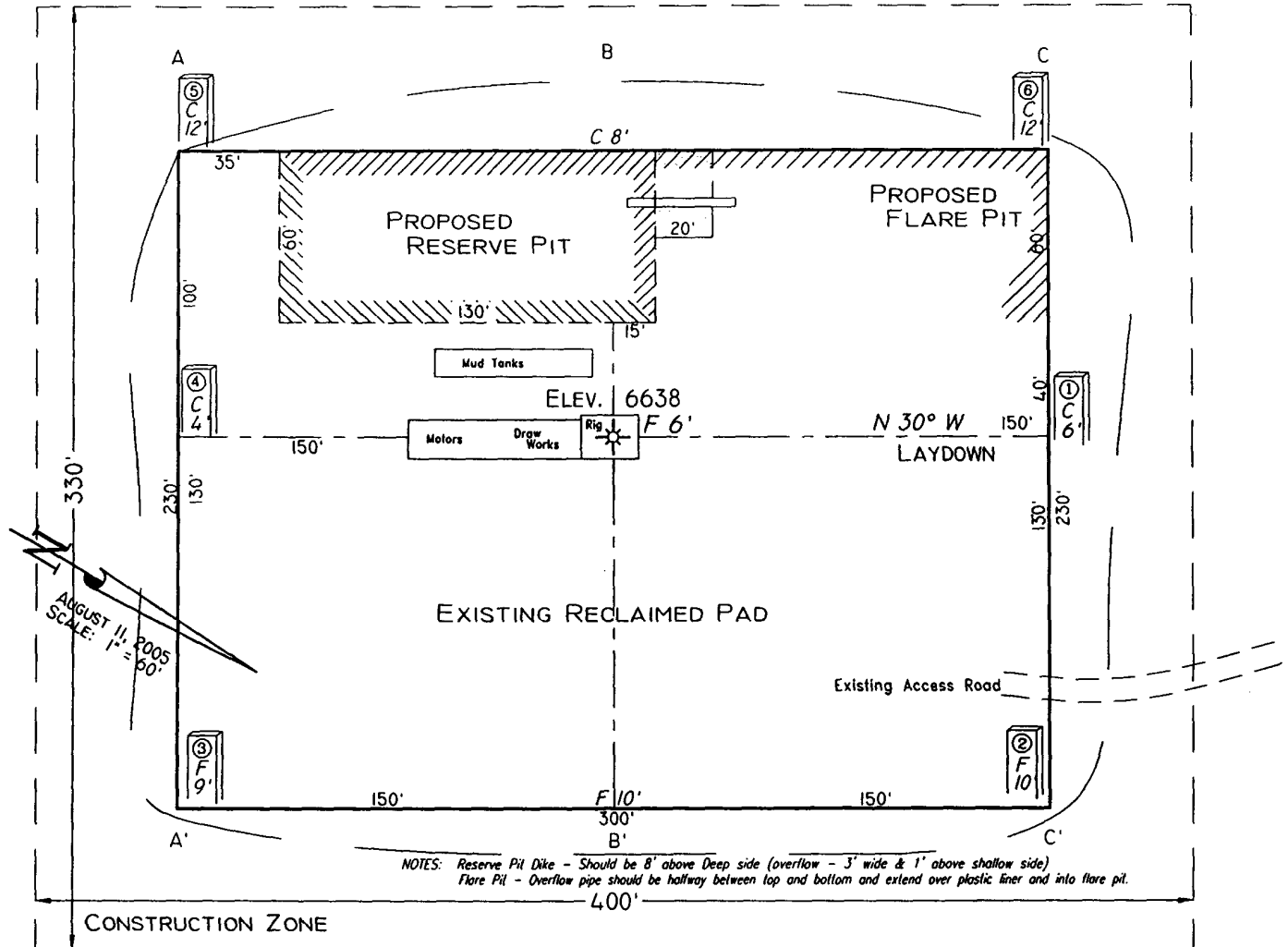


7016

Certificate Number

**PAD LAYOUT PLAN & PROFILE**  
**BP AMERICA PRODUCTION COMPANY**  
 Riddle C LS #5  
 2110' F/SL 925' F/WL  
 SEC. 30, T31N, R9W, N.M.P.M.  
 SAN JUAN COUNTY, NEW MEXICO

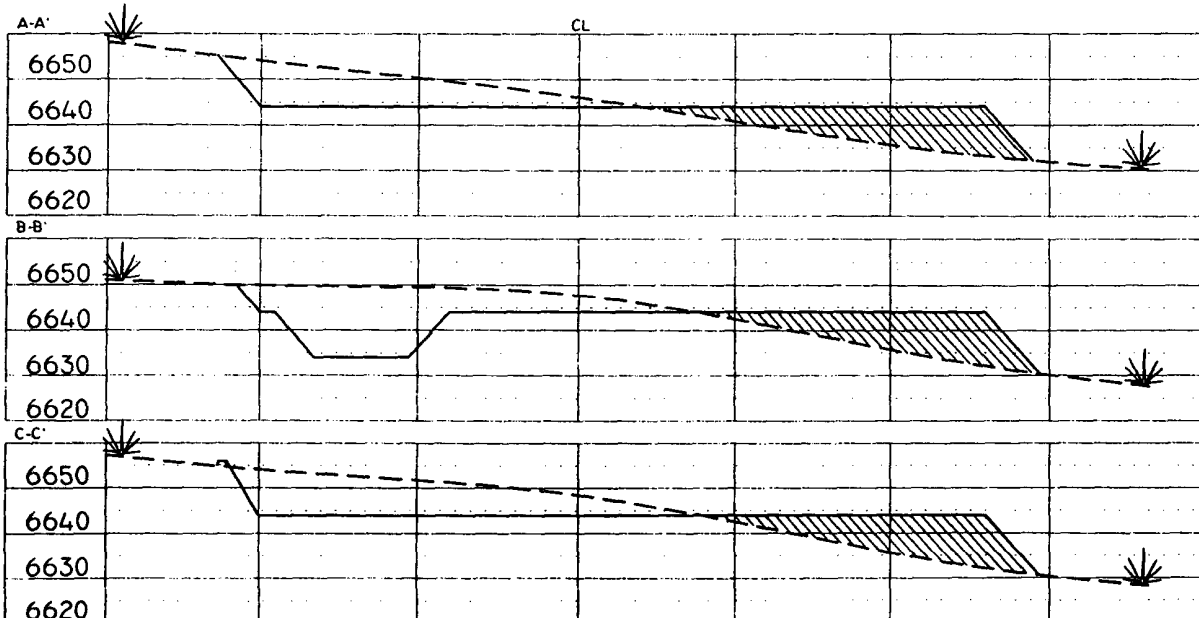
Lat: 36.8681°  
 Long: 107.8244°  
 Lat: 36°52'05"  
 Long: 107°49'28"



NOTES: Reserve Pit Dike - Should be 8' above Deep side (overflow - 3' wide & 1' above shallow side)  
 Flare Pit - Overflow pipe should be halfway between top and bottom and extend over plastic liner and into flare pit.

Area of Construction Zone - 330'x400' or 3.03 acres, more or less.

SCALE: 1"=60'-HORIZ.  
 1"=40'-VERT.



NOTE: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least two (2) working days prior to construction.

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 Contractor.

VANN SURVEYS  
 P. O. Box 1306  
 Farmington, NM

8/25/2005

Field: Basin Fruitland Coal

**Surface Location:** SW 1/4, S 30, T31N, R9W : 2110' FSL, 925' FWL

**Surface:** Lat: 36.8658 Long:-107.8006

**BH Location:** SW 1/4, S 30, T31N, R9W : 2110' FSL, 925' FWL

<b>OBJECTIVE:</b>	Drill to TD, set 5.5" casing, perf and frac the Fruitland Coal interval.
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## SPECIAL TESTS

REMARKS:**MUD PROGRAM:**

### Other Specification

Sweep hole while whilst water drilling. LCM onsite

**CASING PROGRAM:**

## Cement

**CORING PROGRAM:**

None

**COMPLETION PROGRAM:**

## Rigless, Limited Entry Hydraulic Frac

## GENERAL REMARKS:

Notify BLM/NMOCD 24 hours prior to Spud, BOP testing, and Casing and Cementing.

## BOP Pressure Testing Requirements

Max anticipated surface pressure\*\*

0

0

Requested BOP Pressure Test Exception = 1500 psi

\*\* Note: Determined using the following formula:  $ABHP - (.22 \cdot TVD) = ASP$

Form 46 Reviewed by:

Logging program reviewed by:

**PREPARED BY:**

**APPROVED:**

DATE: \_\_\_\_\_

**APPROVED:**

**DATE:**

DNH/DDR	TT/HGJ
---------	--------

25-Aug-05

Form 46 7-84bw

**For Drilling Dept.**

For Production Dept.

# Cementing Program

Well Name: Riddle C LS 5  
 Location: SW 1/4, S 30, T31N, R9W : 2110' FSL, 925' FWL  
 County: San Juan  
 State: New Mexico

Well Flac  
 Formation: Fruitland Coal  
 KB Elev (est) 6249  
 GL Elev. (est) 6238

## Casing Program:

Casing String	Est. Depth (ft.)	Hole Size (in.)	Casing Size (in.)	Thread	TOC (ft.)
Surface	120	12.25	8 5/8	8rd	Surface
Production -	3514	8.75	5 1/2	8rd	Surface

## Casing Properties:

(No Safety Factor Included)

Casing String	Size (in.)	Weight (lb/ft)	Grade
Surface	8 5/8	20	H-40
Production -	5 1/2	15.5	J-55

## Mud Program

Apx. Interval (ft.)	Mud Type	Mud Weight	Recommended Mud Properties Prio Cementing:
			PV <20
			YP <10
			Fluid Loss <6
0 - SCP	Water/Spud	8.6-9.2	
SCP - TD	Water/LSND	8.6-9.2	

## Cementing Program:

	Surface	Production
Excess %, Lead	100	40
Excess %, Tail	NA	40
BHST (est deg. F)	75	120
Special Instructions	1,6	2,4,6

1. Do not wash pumps and lines.
2. Wash pumps and lines.
3. Reverse out
4. Run Blend Test on Cement
5. Record Rate, Pressure, and Density on 3.5" disk
6. Confirm densitometer with pressurized mud scales

## Surface:

Preflush	20 bbl.	FreshWater	
Slurry 1	78 sx Class C Cement		99 cuft
TOC@Surface	+ 2% CaCl2 (accelerator)		
			0.4127 cuft/ft OH

Slurry Properties:	Density (lb/gal)	Yield (ft3/sk)	Water (gal/sk)
Slurry 1	15.2	1.27	5.8

## Casing Equipment:

8-5/8", 8R, ST&C  
 1 Guide Shoe  
 1 Top Wooden Plug  
 1 Autofill insert float valve  
 Centralizers, 1 per joint except top joint  
 1 Stop Ring  
 1 Thread Lock Compound

## Production:

Fresh Water	10 bbl	CW100
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# Cementing Program

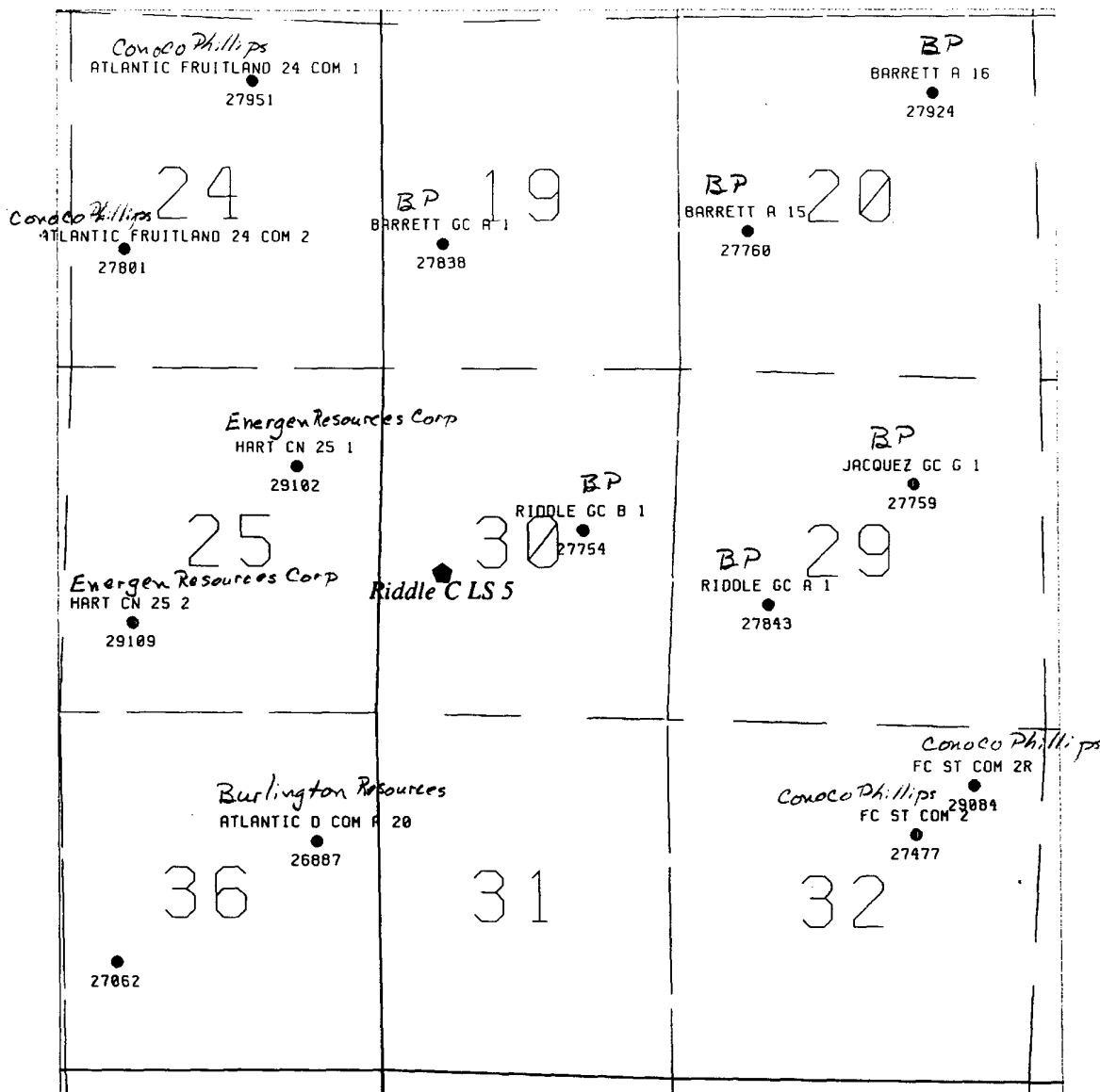
Lead	401 sx Class "G" Cement	1048 cuft
Slurry 1	+ 3% D79 extender	
TOC@Surface	+ 2% S1 Calcium Chloride	
	+1/4 #/sk. Cellophane Flake	
	+ 0.1% D46 antifoam'	
Tail	139 sx 50/50 Class "G"/Poz	177 cuft
Slurry 2	+ 2% gel (extender)	
500 ft fill	0.1% D46 antifoam	0.2526 cuft/ft OH
	+1/4 #/sk. Cellophane Flake	0.2009 cuft/ft csg ann
	+ 2% CaCl2 (accelerator)	

Slurry Properties:	Density	Yield	Water
	(lb/gal)	(ft3/sk)	(gal/sk)
Slurry 1	11.4	2.61	17.77
Slurry 2	13.5	1.27	5.72

Casing Equipment:

- 5 1/2", 8R, ST&C
- 1 Float Shoe (autofill with minimal LCM in mud)
- 1 Float Collar (autofill with minimal LCM in mud)
- Centralizers as needed
- 1 Top Rubber Plug
- 1 Thread Lock Compound

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BP America Production Co. Houston, TX			
T31N R9W Sec. 30 Fruitland Coal Wells <i>Proposed - Riddle C LS 5</i>			
SCALE	DRAWN M. J. RITZ	DATE 6-SEP-2005	
DATE			

**SAN JUAN BASIN**  
**Basin Fruitland Coal Formation**  
**Pressure Control Equipment**

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**Background**

The objective Fruitland formation maximum surface pressure is anticipated to be less than 1000 psi, based on shut-in surface pressures from adjacent wells. Pressure control equipment working pressure minimum requirements are therefore 2000 psi. Equipment to be used will conform to API RP-53 (Figure 2.C.2) for a 2000 psi system per Federal Onshore Order No. 2. Due to available conventional equipment within the area, 3000 psi rated pressure control equipment will typically be utilized in a single ram type arrangement. Regional drilling rights to be utilized have substructure height limitations which exclude the use of annular preventers; therefore a rotating head will be installed above these rams. This pressure control equipment will be utilized for conventional drilling below conductor to total depth in the Basin Fruitland Coal. No abnormal temperature, pressure, or H<sub>2</sub>S anticipated.

**Equipment Specification**

**Interval**

**BOP Equipment**

Below conductor casing to total depth 11" nominal or 7 1/16", 2000 psi Single ram preventer with 3000 psi annular preventer and rotating head.

All ram type and annular preventers as well as related control equipment will be hydraulically tested to 250 psi (low pressure) and 1500 psi (high pressure), upon installation, following any repairs or equipment replacements, or at 30 day intervals. Accessories to BOP equipment will include kelly cock, upper kelly cock with a handle available, floor safety valves and choke manifold which will also be tested to equivalent pressure.



# BP American Production Company

## Well Control Equipment Schematic

