

RECEIVED

FORM APPROVED
OMB No 1004-0136
Expires January 31, 2004

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FEB 25 2009

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMSF-078766
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator Williams Production Company, LLC		7. If Unit or CA Agreement, Name and No. Rosa Unit
3a. Address P.O. Box 640 Aztec, NM 87410		8. Lease Name and Well No. -620-165D
3b. Phone No. (include area code) (505) 634-4208		9. API Well No. 30-039-30690
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface C 1280/N 1635/W At proposed prod. zone BHL 0660/N 1100/W		10. Field and Pool, or Exploratory Basin Mancos/Basin Dakota / Basin Mancos
14. Distance in miles and direction from nearest town or post office* approximately 31 miles northeast of Blanco, New Mexico		11. Sec, T, R, M., or Blk. and Survey or Area C Section 25, 31N, 6W
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 680'	16. No. of Acres in lease 2,552.710	12. County or Parish Rio Arriba
17. Spacing Unit dedicated to this well 272.16 - 1/2	13. State NM	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 280' Rosa 165A	19. Proposed Depth 8340MD -801-8222 TVD	20. BLM/BIA Bond No. on file UT0847 899
21. Elevations (Show whether DF, KDB, RT, GL, etc.) -6372' GR 6403	22. Approximate date work will start* April 1, 2009	23. Estimated duration 1 month
24. Attachments RCVD JUL 14 '09		

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

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature <i>Larry Higgins</i>	Name (Printed/Typed) Larry Higgins	Date 2-25-09
Title Drilling COM		
Approved by (Signature) <i>D. Mankeew</i>	Name (Printed/Typed)	Date 7/13/09
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.

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)

Williams Production Company, LLC, proposes to develop the Basin Mancos and Basin Dakota formations at the above described location in accordance with the attached drilling and surface use plans.

The well pad surface is under jurisdiction of the Bureau of Land Management, Farmington Field Office (BLM/FFO).

This location has been archaeologically surveyed by La Plata Archaeological Consultants. Copies of their report have been submitted directly to the BLM.

No new access road will be required for this proposed well.

This APD is also serving as an application to obtain a right-of-way. An associated pipeline tie of 70.2 feet would be required for this well.

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

**NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT**

Hold C104

for Directional Survey
and "As Drilled" plat

NMOC

JUL 27 2009

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

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

RECEIVED

JUN 12 2009

Form 3160-5
(August 2007)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTBureau of Land Management
FarmingtonFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.5. Lease Serial No.
NMSF-078766

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☐ Oil Well☒ Gas Well☐ Other

2. Name of Operator

WILLIAMS PRODUCTION CO., LLC

3a. Address

P. O. BOX 640
AZTEC, NM 87410

3b. Phone No. (include area code)

(505) 634-4208

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

Surface - 1280' FNL & 1635' FWL
BHL - 660' FNL & 1100' FWL Sec 25, T31N, R6W

7. If Unit of CA/Agreement, Name and/or No.

ROSA UNIT

8. Well Name and No.
ROSA UNIT #165D

9. API Well No.

3003930690

10. Field and Pool or Exploratory Area
BLANCO MV/BASIN MC/BASIN DK

11. Country or Parish, State

RIO ARRIBA, NM

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

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent☐ Acidize☐ Deepen☐ Production (Start/Resume)☐ Water Shut-Off☐ Alter Casing☐ Fracture Treat☐ Reclamation☐ Well Integrity☐ Subsequent Report☐ Casing Repair☐ New Construction☐ Recomplete☐ Other☐ Final Abandonment Notice☒ Change Plans☐ Plug and Abandon☐ Temporarily Abandon☐ Convert to Injection☐ Plug Back☐ Water Disposal

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 of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

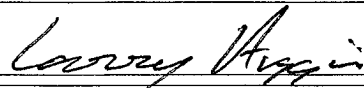
This well was originally permitted as the Rosa Unit #620, due to change in plans Williams Production intends to move this location and drill this well as a Blanco Mesa Verde, Basin Mancos and Basin Dakota. We also wish to change the name of this well to the Rosa Unit #165D. See attached plat, operation plan, directional plan, surface use plan and attachments.

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed)

Larry Higgins

Title Drilling COM

Signature



Date 06/12/2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by



Title

AFM

Date

7/13/09

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

FFO

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 page 2)

NMOCD

District I
1625 N. French Dr., Hobbs, NM 88240

District II
1301 W. Grand Avenue, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, 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 October 12, 2005
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30039-36090	*Pool Code 97232 / 72319 / 71599	*Pool Name BASIN MANCOS / BLANCO MESAVERDE / BASIN DAKOTA
*Property Code 17033	*Property Name ROSA UNIT	*Well Number 1650
*OGRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY	*Elevation 6403'

¹⁰ Surface Location

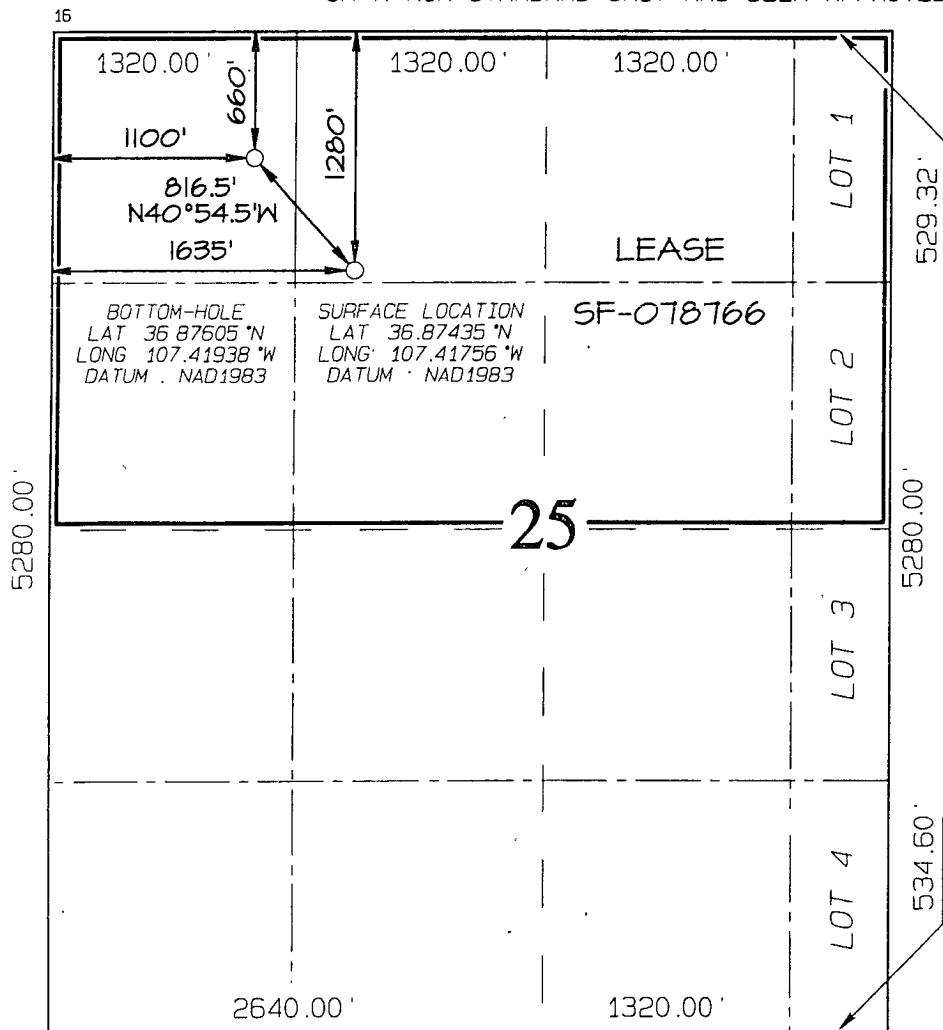
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	25	31N	6W		1280	NORTH	1635	WEST	RIO ARRIBA

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
D	25	31N	6W		660	NORTH	1100	WEST	RIO ARRIBA

¹² Dedicated Acres 272.16 Acres - N/2	¹³ Joint or Infill	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, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division

Larry Higgins 6-12-09
Signature Date

LARRY HIGGINS
Printed Name

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 17, 2009

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



WILLIAMS PRODUCTION COMPANY

Operations Plan

(Note: This procedure will be adjusted on site based upon actual conditions)

DATE: 6/11/2009 **FIELD:** Basin DK/ Basin MC/BlancoMV
WELL NAME: Rosa Unit #165D **SURFACE:** BLM
BH LOCATION: NWNW Sec 25-31N-6W **MINERALS:** FEDERAL
Rio Arriba, NM
ELEVATION: 6,403' GR **LEASE #** SF-078766
MEASURED DEPTH: 8,341'

I. I. GEOLOGY: Surface formation - San Jose

A. FORMATION TOPS: (KB)

Name	TVD	MD	Name	TVD	MD
Ojo Alamo	2,497	2,592	Point Lookout	5,692	5,810
Kirtland	2,612	2,713	Mancos	6,047	6,465
Fruitland	2,992	3,105	Gallup	7,007	7,125
Pictured Cliffs	3,267	3,384	Greenhorn	7,717	7,835
Lewis	3,552	3,670	Graneros	7,772	7,890
Cliff House	5,422	5,540	Dakota	7,897	8,015
Menefee	5,467	5,585	Morrison	8,142	8,260
			TD	8,222	8,340

- B. MUD LOGGING PROGRAM:** Mudlogger on location from intermediate csg to TD. Mud logger to pick TD.
- C. LOGGING PROGRAM:** HRI/Temp from intermediate casing to TD. SDL/DSEN over zones of interest.
- D. NATURAL GAUGES:** Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

II. DRILLING

- A. MUD PROGRAM:** Use Water + Gel/Polymer sweeps to drill Surface hole. Convert to a LSLD - EZ-MUD system mud (+/-50 Vis.) to drill 9-7/8 in. Intermediate Hole. Increase vis to +/-60 to run Casing. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses. Use Air, Air Hammer and 6-3/4 in. Flat btm. bit to drill-out of 7-5/8 in. csg. and to TD well at +/- 8,341 ft. (MD).
- B. BOP TESTING:** While drill pipe is in use, the pipe rams and the blind rams will be function tested once each trip. The anticipated reservoir is expected to be less than 1300 psi, so the BOPE will be tested to **250 psi (Low) for 5 minutes** and **1500 psi (High) for 10 minutes**. Utilize a BOPE Testing Unit with a recording chart and appropriate test plug for testing. The drum brakes will be inspected and tested each tour. **All tests and inspections will be recorded in the tour book as to time and results.**

III. MATERIALS**A. CASING PROGRAM:**

CASING TYPE	OH SIZE (IN)	DEPTH (MD) (FT)	CASING SIZE (IN)	WEIGHT(LB)	GRADE
Surface	14 3/4	300	10 3/4	40.5	K-55
Intermediate	9 7/8	3,860	7 5/8	26.4	K-55
Longstring	6 3/4	8,340	5 1/2	17	N-80

B. FLOAT EQUIPMENT:

- SURFACE CASING: 10 3/4" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.
- INTERMEDIATE CASING: 7 5/8" cement nose guide shoe with a self-fill insert float. Place float collar one joint above the shoe. Install (1) Turbulent centralizer on each of the bottom (3) joints and one standard centralizer every (3) joints to 2,500 ft. Run (1) Turbulent centralizer at 2,700 ft., 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft. (NTL-FRA 90-1).
- PRODUCTION LINER / CASING: 5-1/2" whirler type cement nose guide shoe with a latch collar on top of 20' bottom joint. Place marker joint above 5,400'. Place centralizers as needed across selected production intervals.

C. CEMENTING:

(Note: Volumes may be adjusted onsite due to actual conditions)

- SURFACE: Slurry: 290sx (521 cu.ft.) of "Type III" + 2% Cal-Seal 60 + 1/4 # of poly-e-flake/sk + 0.3% Versaset + 2% Econolite + 6% Salt (Yield = 1.796 cu.ft./sk, Weight = 13.5 #/gal.). The 100% excess should circulate cement to the surface. WOC 12 hours. Test csg to 1500psi. **For 30 min**
- INTERMEDIATE: Lead - 525 sx (1430 cu.ft.) of "EXTENDACEM" + 5 #/sk pheno-seal + 5% Cal-Seal 60 (Yield = 2.723 cu.ft./sk, Weight = 11.5 #/gal.). Tail - 100 sx (117.8cu.ft.) of Premium cement + 0.125 #/sk Poly-E-Flake, (Yield = 1.178 cu.ft./sk, Weight = 15.6#/gal.). **NO EXCESS PUMP AS WRITTEN SHOULD CIRCULATE TO SURFACE** Total volume = 1548 cu.ft. Bump Plug to 1,500 psi. Notify engineering if cement is not circulated to surface **Test csg to 1500 psi for 30 min**
- PRODUCTION CASING: 10 bbl Gelled Water spacer. Cement: 375 sx (525 ft³) of "FRACCCEM" + 0.8% Halad-9 + 0.1% CFR-3 + 5 #/sk Gilsonite + 0.125 #/sk Poly-E-Flake + 0.15% HR-800. (Yield = 1.398 ft³/sk, Weight = 13.1 #/gal.). Displace cement at a minimum of 8 BPM. **NO EXCESS SHOULD COVER 150 FEET INTO 7" CASING** Total volume (525) ft³. WOC 12 hours.

7 5/8"

IV. IV COMPLETION**A. CBL**

- Run Cement Bond Log across all intervals to be perforated and find Top of Cement behind all casing strings if cement not circulated to surface..

B. PRESSURE TEST


- Pressure test 5-1/2" casing to 6000 psi max, hold at 1500 psi for 30 minutes.

C. STIMULATION

1. Stimulate Dakota with approximately 5000# 100 mesh sand and 120,000# Ottawa Sand in slick water.
2. Isolate Dakota with a RBP.
3. Perforate Mancos as determined from the open hole logs
4. Stimulate Mancos with 3 stages of approximately 5000# 100 mesh sand and 150,000# 40/70 Ottawa sand
5. Stimulate Point Lookout with approximately 40,000# 20/40 Ottawa sand in slick water.
6. Isolate Point Lookout with a RBP.
7. Perforate the Menefee/Cliff House as determined from the open hole logs.
8. Stimulate with approximately 40,000# 20/40 Ottawa sand in slick water.
9. Test each zone before removing bridge plugs.

D. RUNNING TUBING

1. Production Tubing: Run 2-3/8", 4.7#, J-55, EUE tubing with a SN (1.91" ID) on top of bottom joint. Land tubing approximately 25' above the bottom Point Lookout perforation


for Brian Allenman
Drilling Engineer



ROSA UNIT #165D
RIO ARriba CO., NEW MEXICO

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	319.31	0.00	0.00	0.00	0.00	0.00	0.00	
2	400.00	0.00	319.31	400.00	0.00	0.00	0.00	0.00	0.00	
3	1028.41	18.85	319.31	1017.14	77.69	-66.80	3.00	319.31	102.46	
4	2603.50	18.85	319.31	2507.73	463.61	-398.62	0.00	0.00	611.42	
5	3860.33	0.00	319.31	3742.00	618.98	-532.22	1.50	180.00	816.33	Int. Csg. Pt.
6	8170.33	0.00	319.31	8052.00	618.98	-532.22	0.00	319.31	816.33	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
#165D	0.00	0.00	2139644.84	1298920.77	36°52'27.660N	107°25'03.220W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Int. Csg. Pt.	3742.00	618.98	-532.22	2140270.28	1298396.16	36°52'33.780N	107°25'09.770W	Point
PBHL	8052.00	618.98	-532.22	2140270.28	1298396.16	36°52'33.780N	107°25'09.770W	Point

FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	2497.00	2592.17	Ojo Alamo Ss.
2	2612.00	2713.16	Kirtland Sh.
3	2992.00	3105.43	Fruitland Fm.
4	3267.00	3384.10	Pictured Cliffs Ss.
5	3552.00	3670.25	Lewis Sh.
6	5107.00	5225.33	Cliff House Ss. Trans.
7	5422.00	5540.33	Cliff House Ss.
8	5467.00	5585.33	Menefee Fm.
9	5692.00	5810.33	Point Lookout Ss.
10	6047.00	6165.33	Mancos Sh.
11	7007.00	7125.33	Gallup Ss.
12	7717.00	7835.33	Greenhorn Ls.
13	7772.00	7890.33	Graneros Sh.
14	7897.00	8015.33	Dakota Ss.

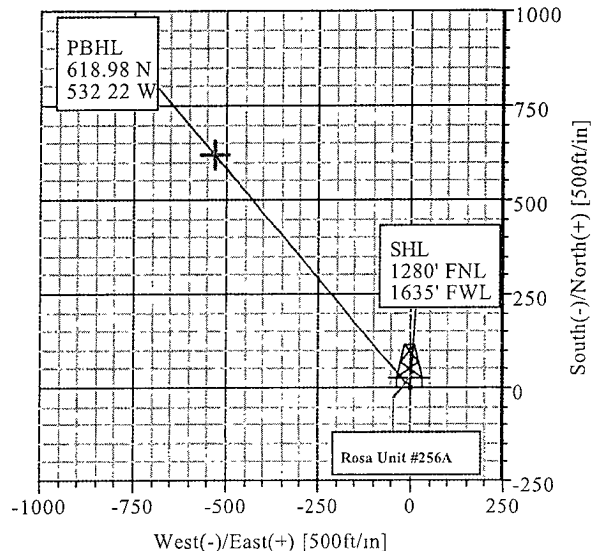


Azimuths to True North
Magnetic North 10.00°

Magnetic Field
Strength 51136nT
Dip Angle 63.70°
Date 6/10/2009
Model: igrf200510

Total Correction to True North 10.00°

VERTICAL SECTION AZ 319.31° Az



Weatherford™

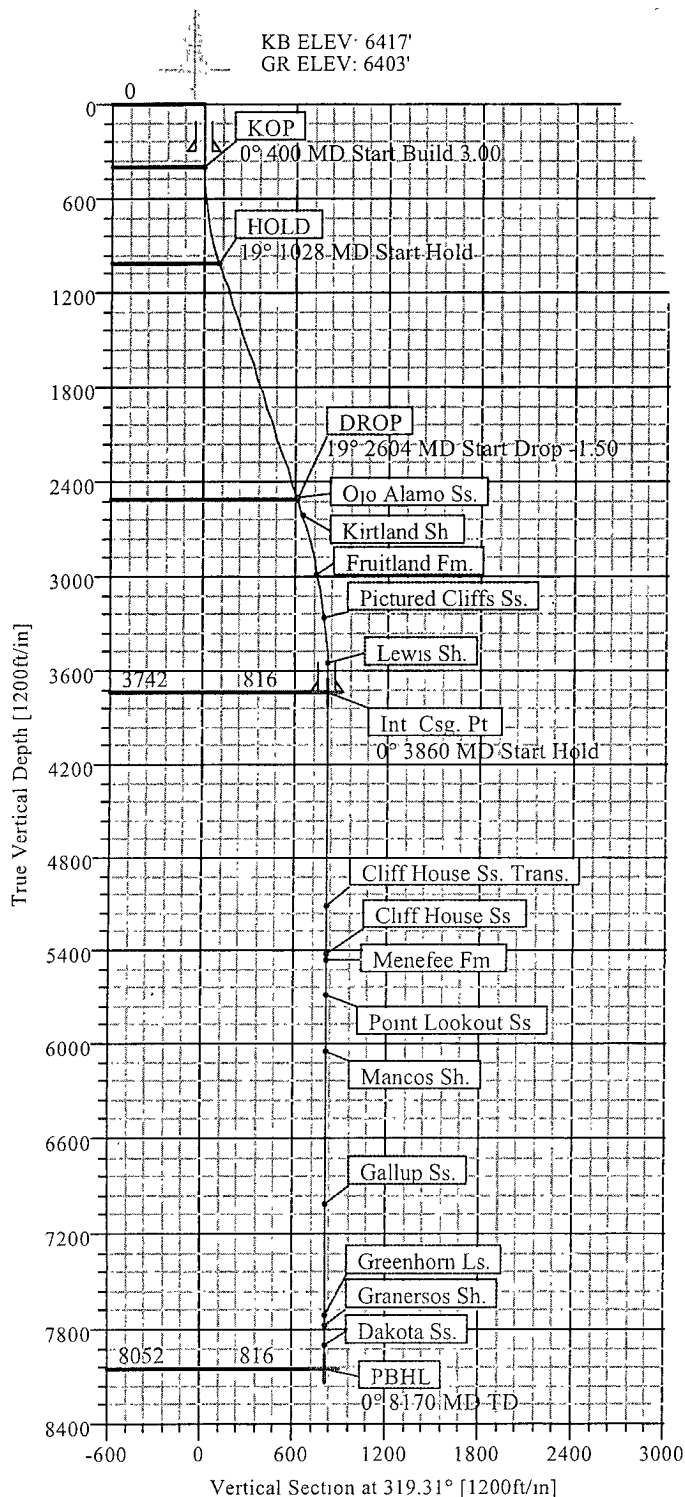
CASING DETAILS

No.	TVD	MD	Name	Size
1	300.00	300.00	10 3/4"	10.750
2	3742.00	3860.33	7 5/8" Int. Csg.	0.000

Plan Plan #1 (#165D/1)

Created By: Lindsey Maddux

Date: 6/10/2009





Weatherford International, Inc.

Proposal Plan Report



Weatherford

Company: WILLIAMS PRODUCTION	Date: 6/10/2009	Time: 16:48:46	Page: 3
Field: Rio Arriba Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: #165D, True North	
Site: Rosa Unit #165D	Vertical (TVD) Reference:	SITE: 6417.0	
Well: #165D	Section (VS) Reference:	Well: (0.00N,0.00E,319.31Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature Db: Sybase	

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	Build deg/100ft	Turn deg/100ft	DLS deg/100ft	TFO deg	Comment
6100.00	0.00	319.31	5981.67	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	
6165.33	0.00	319.31	6047.00	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	Mancos Sh.
6200.00	0.00	319.31	6081.67	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	
6300.00	0.00	319.31	6181.67	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	
6400.00	0.00	319.31	6281.67	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	
6500.00	0.00	319.31	6381.67	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	
6600.00	0.00	319.31	6481.67	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	
6700.00	0.00	319.31	6581.67	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	
6800.00	0.00	319.31	6681.67	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	
6900.00	0.00	319.31	6781.67	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	
7000.00	0.00	319.31	6881.67	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	
7100.00	0.00	319.31	6981.67	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	
7125.33	0.00	319.31	7007.00	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	Gallup Ss.
7200.00	0.00	319.31	7081.67	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	
7300.00	0.00	319.31	7181.67	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	
7400.00	0.00	319.31	7281.67	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	
7500.00	0.00	319.31	7381.67	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	
7600.00	0.00	319.31	7481.67	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	
7700.00	0.00	319.31	7581.67	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	
7800.00	0.00	319.31	7681.67	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	
7835.33	0.00	319.31	7717.00	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	Greenhorn Ls.
7890.33	0.00	319.31	7772.00	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	Graneros Sh.
7900.00	0.00	319.31	7781.67	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	
8000.00	0.00	319.31	7881.67	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	
8015.33	0.00	319.31	7897.00	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	Dakota Ss.
8100.00	0.00	319.31	7981.67	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	
8170.33	0.00	319.31	8052.00	618.98	-532.22	816.33	0.00	0.00	0.00	319.31	PBHL

Targets

Name	Description	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec	Longitude Deg Min Sec
Int. Csg. Pt.		3742.00	618.98	-532.22	2140270.28	1298396.16	36 52 33.780 N	107 25 9.770 W
-Plan hit target								
PBHL		8052.00	618.98	-532.22	2140270.28	1298396.16	36 52 33.780 N	107 25 9.770 W
-Plan hit target								

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
2592.17	2497.00	Ojo Alamo Ss.		0.00	0.00
2713.16	2612.00	Kirtland Sh.		0.00	0.00
3105.43	2992.00	Fruitland Fm.		0.00	0.00
3384.10	3267.00	Pictured Cliffs Ss.		0.00	0.00
3670.25	3552.00	Lewis Sh.		0.00	0.00
5225.33	5107.00	Cliff House Ss. Trans.		0.00	0.00
5540.33	5422.00	Cliff House Ss.		0.00	0.00
5585.33	5467.00	Menefee Fm.		0.00	0.00
5810.33	5692.00	Point Lookout Ss.		0.00	0.00
6165.33	6047.00	Mancos Sh.		0.00	0.00
7125.33	7007.00	Gallup Ss.		0.00	0.00
7835.33	7717.00	Greenhorn Ls.		0.00	0.00
7890.33	7772.00	Graneros Sh.		0.00	0.00
8015.33	7897.00	Dakota Ss		0.00	0.00



Weatherford International, Inc.

Proposal Plan Report



Weatherford

Company:	WILLIAMS PRODUCTION	Date:	6/10/2009	Time:	16:48:46	Page:	4
Field:	Rio Arriba Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: #165D, True North				
Site:	Rosa Unit #165D	Vertical (TVD) Reference:	SITE 6417.0				
Well:	#165D	Section (VS) Reference:	Well (0.00N,0.00E,319.31Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature			Db:	Sybase

Annotation

MD ft	TVD ft	
400.00	400.00	KOP
1028.41	1017.13	HOLD
2603.50	2507.72	DROP
3860.33	3742.00	Int. Csg. Pt.
8170.33	8052.00	PBHL

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
300.00	300.00	10.750	12.250	10 3/4"
3860.33	3742.00	0.000	0.000	7 5/8" Int. Csg.

Well Control Equipment Schematic for 2M Service

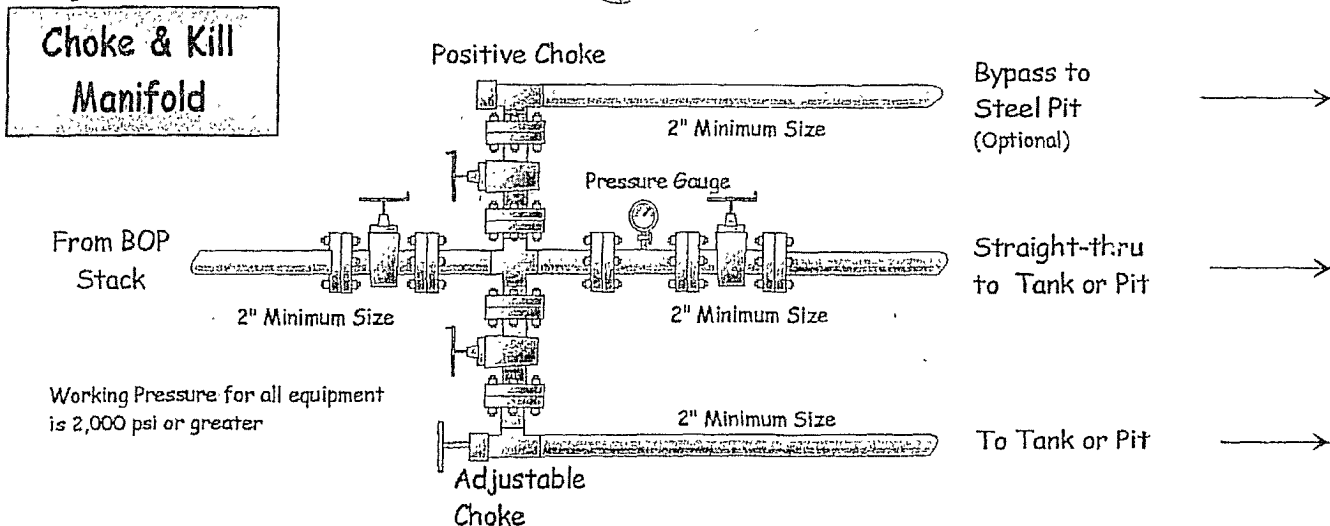
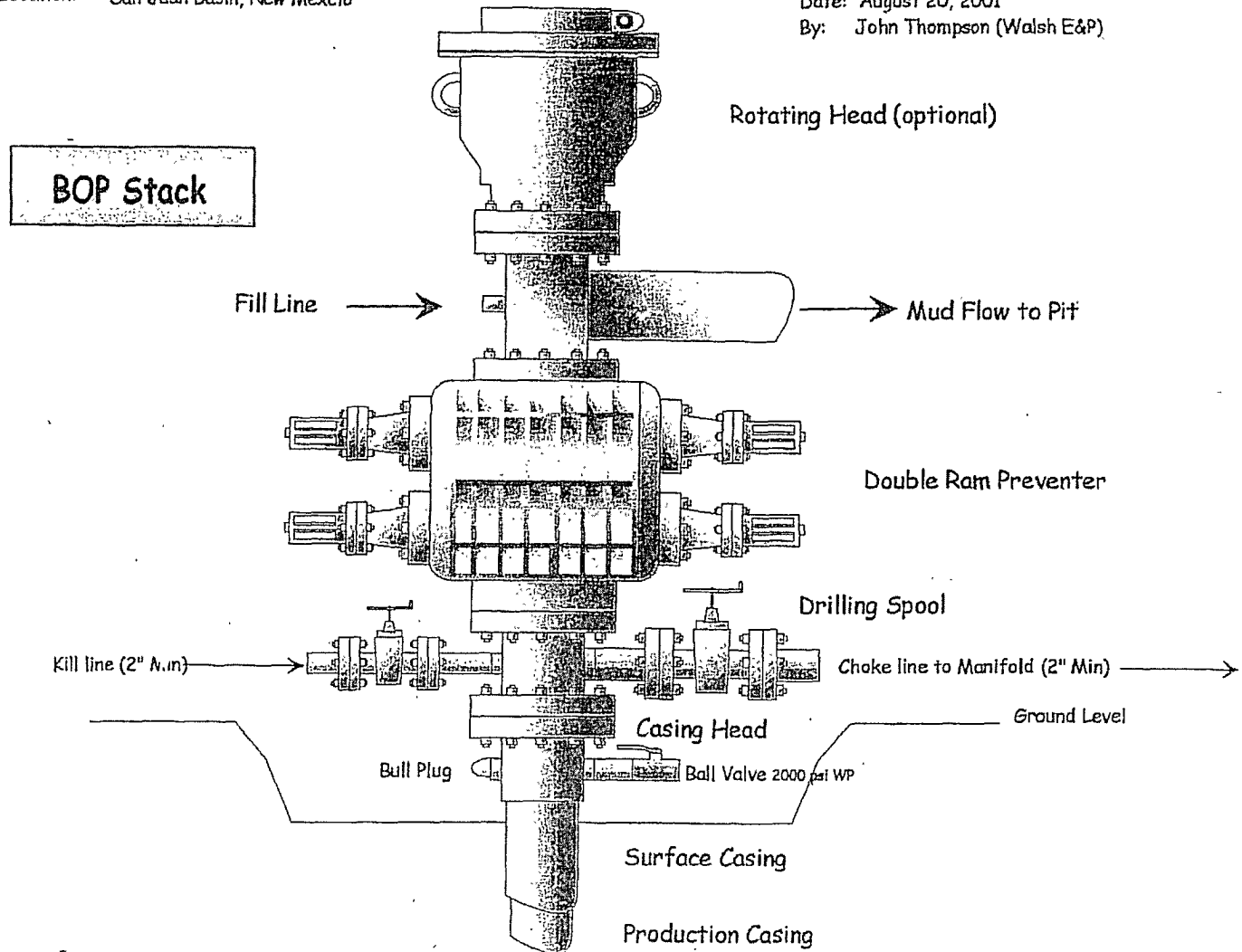
Attachment to Drilling Technical Program

Exhibit #1 Typical BOP setup

Location: San Juan Basin, New Mexico

Date: August 20, 2001

By: John Thompson (Walsh E&P)



Working Pressure for all equipment
is 2,000 psi or greater