

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Bureau of Land Management
Farmington Field Office

APPLICATION FOR PERMIT TO DRILL OR REENTER

RECEIVED

NOV 20 2008

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

1a. Type of Work <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. 70406-0016	
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 Jicarilla Apache Nation	
2. Name of Operator Williams Production Company, LLC		7. If Unit or CA Agreement, Name and No	
3a. Address P O Box 640 Aztec, NM 87410		8. Lease Name and Well No. JAECO 28-3 #1	
3b. Phone No. (include area code) (505) 634-4208		9. API Well No. 30-039-30595	
4. Location of Well (Report location clearly and in accordance with any State requirements *) At surface 2310' FNL and 790' FEL At proposed prod zone Same		10. Field and Pool, or Exploratory Blanco MV/Basin DK	
14. Distance in miles and direction from nearest town or post office* 23 miles NW from Lndrith, NM		11. Sec., T., R., M., or Blk. and Survey or Area H Section 21, T28N R3W	
15. Distance from proposed* location to nearest property or lease line, ft (Also to nearest dng unit line, if any) 790'	16. No. of Acres in lease 6000 +/-	17. Spacing Unit dedicated to this well 320 (E/2)	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft 2000'	19. Proposed Depth 8511'	20. BLM/BIA Bond No. on file B001576	
21. Elevations (Show whether DF, KDB, RT, GL, etc) 7,042' GR	22. Approximate date work will start* January 1, 2009	23. Estimated duration 1 month	
24. Attachments		DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".	
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.		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 shall be filed with the appropriate Forest Service Office)		6 Such other site specific information and/or plans as may be required by the authorized officer	
25. Signature Larry Higgins		Name (Printed/Typed) Larry Higgins	
Title Drilling COM		Date 11-26-08	
Approved by (Signature) J. Mankiewicz		Name (Printed/Typed) J. Mankiewicz	
Title AFM		Date 2/4/09	
Office FFD			
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 drill a vertical well to develop the Blanco Mesa Verde/Basin Dakota formation at the above described location in accordance with the attached drilling and surface use plans

The surface is located on Jicarilla Apache Nation lands

This location has been archaeologically surveyed by Vclarde Energy.

A 1012 foot pipeline tie would be required for this location and it is also located on Jicarilla Apache Nation Lands

850' of new road will be needed to access this well

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

FEB 12 2009

MMOCD

40

AW

District I
1825 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
Submit to Appropriate Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30039-30595		2 Pool Code 72319/71599		3 Pool Name BLANCO MESAVERDE/BASIN DAKOTA	
4 Property Code 37575		5 Property Name JAECO - WPX 28-3			6 Well Number #1
7 OGRID No. 120782		8 Operator Name WILLIAMS PRODUCTION COMPANY			9 Elevation 7042

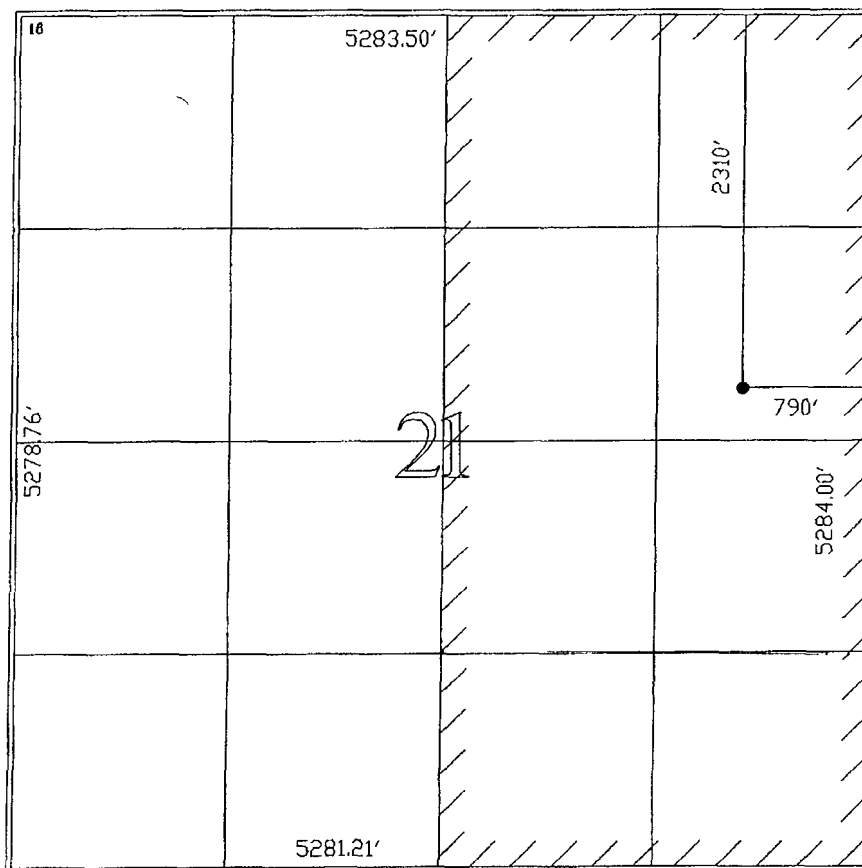
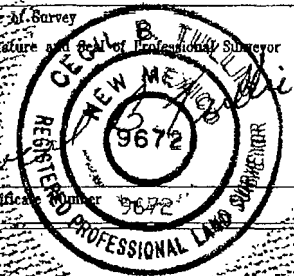
10 Surface Location

UL or Lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	21	28N	3W		2310	NORTH	790	EAST	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
12 Dedicated Acres 320 E/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. Signature: <i>Larry Higgins</i> Date: <i>2-6-09</i> Printed Name: <i>LARRY HIGGINS</i>
	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 the same is true and correct to the best of my belief. MAY 9, 2007 Date of Survey Signature and Seal of Professional Surveyor  Certificate Number: <i>9672</i>

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	4,391	7 5/8	26.4	K-55
Longstring	6 3/4	8,511	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: 255sx (356 cu.ft.) of "Type III" + 2% CaCl₂ + ¼ # of cello-flake/sk (Yield = 1.39 cu.ft./sk, Weight = 14.5 #/gal.). The 100% excess should circulate cement to the surface. WOC 12 hours. Test csg to 1500psi.
- INTERMEDIATE: Lead - 710 sx (1,484 cu.ft.) of "Premium Light with 8% gel and 1/4# cello-flake/sk (Yield = 2.09 cu.ft./sk, Weight = 12.1 #/gal.). Tail - 100 sx (139cu.ft.) of "Type III" with 1/4# cello-flake/sk, (Yield = 1 4 cu.ft./sk, Weight = 14.5#/gal.). **70% EXCESS IN LEAD PUMP AS WRITTEN No excess in Tail Slurry.** Total volume = 1,623 cu.ft. Bump Plug to 1,500 psi. Notify engineering if cement is not circulated to surface.
- PRODUCTION CASING: 10 bbl Gelled Water space. Cement: 210 sx (442 ft³) of Premium Light HS + 1% FL-52 + .2% CD-32, 0.1% R-3, 3 #/sk CSE, ¼ #/sk cello flake and 4% Phenoseal. (Yield = 2.15 ft³/sk, Weight = 12.3 #/gal.). Displace cement at a minimum of 8 BPM. The 20% excess in slurry should cover 100 ft into intermediate casing. Total volume 442ft³. WOC 12 hours

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

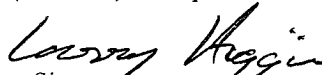
- Pressure test 5-1/2" casing to 6000 psi max, hold at 1500 psi for 30 minutes.

C. STIMULATION

1. Stimulate Dakota with approximately 10,000# of LiteProp 108™ sand in slick water..
2. Isolate Dakota with a RBP.
3. Stimulate Point Lookout with approximately 9300# of 14/30 LiteProp™ in slick water.
4. Isolate Point Lookout with a RBP.
5. Perforate the Menefee/Cliff House as determined from the open hole logs.
6. Stimulate with approximately 9300# of 14/30 LiteProp™ in slick water.
7. Test each zone before removing bridge plugs.

D. RUNNING TUBING

1. Dakota: Run 2-1/16", 3.25#, J-55, IJ tubing with 1/2 mule shoe on bottom , SN with pump-out plug on top of adeem joint and 5 Seal Units. Land tubing approximately 100' below top Dakota perf.
2. Mesa Verde: Run 2-1/16", 2.9#, J-55, EUE tubing with a SN (1.91" ID) on top of bottom joint. Land tubing approximately 25' above the bottom Point Lookout perforations.


Gary Sizemore
FOR Sr. Drilling Engineer

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)

