

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

5 Lease Serial No
Jicarilla Apache Contract #61
6 If Indian, Allottee or Tribe Name
Jicarilla Apache Nation

7 If Unit or CA Agreement, Name and No

8 Lease Name and Well No
Indian I #8A

9 API Well No
30-039-30104

10 Field and Pool, or Exploratory
Blanco MV

11 Sec, T, R, M, or Bk. and Survey or Area

M Section 35, T28N R3W

12 County or Parish
Rio Arriba

13 State
NM

1a Type of Work ☒ DRILL ☐ REENTER

1b Type of Well ☐ Oil Well ☒ Gas Well ☐ Other

☒ (Single Zone) ☐ (Multiple Zone)

2 Name of Operator

Williams Production Company, LLC

3a Address

P O Box 640 Aztec, NM 87410

3b Phone No (include area code)

(505) 634-4208

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

At surface 875' FSL & 965' FWL

At proposed prod zone same

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

16 miles from Lindrith, NM

15 Distance from proposed*

location to nearest
property or lease line, ft
(Also to nearest drg unit line, if any) 875'

16 No. of Acres in lease

320

17 Spacing Unit dedicated to this well

320 (W/2)

RCVD NOV 4 '08
OIL CONS. DIV.

18 Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft

2800'

19 Proposed Depth

6,344'

20 BLM/BIA Bond No. on file

B001576

DIST. 3

21 Elevations (Show whether DF, KDB, RT, GL, etc)

6,970' GR

22 Approximate date work will start*

February 1, 2005

23 Estimated duration

1 month

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

Name (Printed/Typed)

Date

Title

Larry Higgins

11-1-06

Drilling COM

Approved by (Signature)

Name (Printed/Typed)

Date

Title

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 drill a vertical well to develop the Blanco Mesa Verde 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 Velarde Energy.

A 2891 8 foot pipeline tie would be required for this location and it is also located on Jicarilla Apache Nation Lands.

30' of new access road will be needed to access this well.

NOV 07 2008

aw

A COMPLETE C-144 MUST BE SUBMITTED TO AND
APPROVED BY THE NMOCD FOR: A PIT, CLOSED
LOOP SYSTEM, BELOW GRADE TANK, OR
PROPOSED ALTERNATIVE METHOD, PURSUANT TO
NMOCD PART 19.15.17, PRIOR TO THE USE OR
CONSTRUCTION OF THE ABOVE APPLICATIONS.

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

NOTIFY AZTEC 24 HRS.
PRIOR TO CASING & CEMENT

NMOCD

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

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88110

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

070 FARMINGTON NM

Form C-102

Revised June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30039-30104		Pool Code 72319	Pool Name BLANCO MESAVERDE
Property Code 17031	Property Name INDIAN I		Well Number 8A
GRID No. 120782	Operator Name WILLIAMS PRODUCTION COMPANY		Elevation 6970

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	35	28N	3W		875	south	965	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
Dedicated Acres 320 ac. W/2		Joint or Infill		Consolidation Code		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

16	5282.64	17 OPERATOR CERTIFICATION
		I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
		<i>Larry Higgins</i> Signature
		LARRY HIGGINS Printed Name
		DRILLING COM Title and E-mail Address
		11-1-06 Date
5282.18	SECTION 35	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.
		APR 24 2006 TULLE Date of Survey
		Signature of Surveyor
965	875	REGISTERED PROFESSIONAL LAND SURVEYOR
	5274.05	Certificate Number



WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE: 10/25/2006 **FIELD:** Blanco MV
WELL NAME: Indian I #8A **SURFACE:** BOIA
BH LOCATION: SWSW Sec 35-28N-3W **MINERALS:** Jicarilla #61
Rio Arriba, NM
ELEVATION: 6,970' GR **LEASE #** Jicarilla #61
MEASURED DEPTH: 6,344'

I. GEOLOGY: Surface formation - San Jose

A. FORMATION TOPS: (KB)

Name	MD	Name	MD
Nacimiento	2,109	Cliff House	5,549
Ojo Alamo	3,214	Menefee	5,594
Kirtland	3,369	Point Lookout	5,894
Fruitland	3,369	Mancos	6,174
Picture Cliffs	3,574	TD	6,344
Lewis	3,824		
Huerfanito Bentonite	4,314		

B. MUD LOGGING PROGRAM: Mud log from 300' above Ojo Alamo SS to TD. Mud logger to pick TD.

C. LOGGING PROGRAM: High Resolution Induction log from surface casing to TD. SDL/DSN/DSN over zones of interest. Onsite geologist will pick Density/ Neutron log interval.

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: Clear water with benex to 7" casing point. Convert to a LSND mud to log and run pipe. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses. Use air w/Air Hammer from 7 in. csg.to TD.

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	12 1/4	300	9 5/8	36	K-55
Intermediate	8 3/4	4,069	7	20	K-55
Liner	6 1/4	3,969 6,344	4 1/2	10.5	J-55

B. FLOAT EQUIPMENT:

1. SURFACE CASING: 9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (3) joints of Surface Casing.
2. INTERMEDIATE CASING: 7" 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**).
3. PRODUCTION CASING: 4-1/2" 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.

IV. CEMENTING:

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

1. SURFACE: Slurry: 150sx (205 cu.ft.) of "Type III" + 2% CaCl₂ + 1/4 # 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.
2. INTERMEDIATE: Lead - 520 sx (1083 cu.ft.) of "Premium Light" with 8% gel, 1% CaCl and 1/4# cello-flake/sk (Yield = 2.09 cu.ft./sk, Weight = 12.1 #/gal.). Tail - 50 sx (70cu.ft.) of "Type III" with 1/4# cello-flake/sk (Yield = 1.4 cu.ft./sk, Weight = 14.5#/gal.). Use **100% excess in Lead Slurry** to circulate to surface. **No excess in Tail Slurry**. Total volume = 1,153 cu.ft. Bump Plug to 1,500 psi. Notify engineering if cement is not circulated to surface.
3. PRODUCTION LINER: 10 bbl Gelled Water spacer. Cement: 145 sx (305 ft³) of Premium Light HS + 1% FL-52 + .2% CD-32, 0.1% R-3, 3 #/sk CSE, 1/4 #/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 lead and tail should cover 100 ft into intermediate casing. Total volume 305 ft³. WOC 12 hours

V. IV COMPLETION**A. CBL**

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

B. PRESSURE TEST

1. Pressure test 7" & 4-1/2" casing to 3300# for 15 minutes.

C. STIMULATION

1. Perforate the Point Lookout as determined from the open hole logs.
2. Stimulate with approximately 9,300# of 14/30 LiteProp™ sand in slick water.
3. Isolate Point Lookout with a CIBP.
4. Perforate the Menefee/Cliff House as determined from the open hole logs.
5. Stimulate with approximately 9,300# of 14/30 LiteProp™ sand in slick water.
6. Test each zone before removing bridge plugs.

D. RUNNING TUBING

1. Mesa Verde: 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 Larry Sizemore
FOR Gary Sizemore
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)

