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

UNITED STATES IN 13 RM 10 31 DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

DUKEAU OF EAIND	MANAGEMENT
	TO DRILL OR REENTER
APPLICATION FOR PERMIT	TO DRILL OR REENTER.
	OZO FARMINGTON N

5. Lease Serial No	
Jicarilla Apache Contract #60	remit com
6 If Indian, Allottee or Tribe Name	dum party lan
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Jicarilla Apache Nation	mund best box
7. If Unit or CA Agreement, Name and No	
,	latinal Count Local

UTO PARMINGTON NIM			Jicarilla Apache Nation	, 60
la Type of Work 🖾 DRILL 🔲 REENTER			7. If Unit or CA Agreement, Na	ame and No
1b Type of Well ☐ Oil Well ☐ Gas Well ☐ Other	⊠ Single Zone ☐ Mult	ple Zone	8. Lease Name and Well No Indian H #5	ر اور
2 Name of Operator			9. API Well No.	
Williams Production Company, LLC			30-039-3	29953
3a. Address	3b Phone No (include area code)		10 Field and Pool, or Explorator	ry
P.O. Box 640 Aztec, NM 87410	(505) 634-4208		Blanco MV	
4. Location of Well (Report location clearly and in accordance with any	State requirements. *)		11. Sec., T., R., M., or Blk and	Survey or Area
At surface 1870' FNL & 1205' FEL	,			
At proposed prod zone same			H Section 14, T28N R3W	
14 Distance in miles and direction from nearest town or post office*			12. County or Parish	13. State
16 miles from Lindrith,NM			Rio Arriba	NM
15 Distance from proposed*	16 No. of Acres in lease	17. Spacing	g Unit dedicated to this well	
location to nearest property or lease line, ft				
(Also to nearest drig, unit line, if any) 1205'	320	160	(NE-1/4) 320	
18 Distance from proposed location*	19 Proposed Depth		BIA Bond No. on file	
to nearest well, drilling, completed, applied for, on this lease, ft.				
5480'	6,397'	B001	1576	
21 Elevations (Show whether DF, KDB, RT, GL, etc.)	22 Approximate date work will start*		23. Estimated duration	
7,088' GR	September 1, 2005		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).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- 5. Operator certification.
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature	Name (Printed/Typed) Larry Higgins	Date 6-12-06
Title Drilling COM		
Approved by (Signature)	Name (Printed/Typed)	Date 14 08
Title Aling APM Mussals	Office	

Application approval does not varrant 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.

NOTIFY AZTEC OCD 24 HRS.

The surface is located on Jicarilla Apache Nation lands.

PRIOR TO CASING & CEMENT

This location has been archaeologically surveyed by Velarde Energy.

A 8098.1 foot pipeline tie would be required for this location and it is also located on Jicarilla Apache Nation Lands.

1800' new access road will be needed to access this well

JUL 1 7 2008

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



District

1625 N. French Dr., Hobbs, NM 88240

District.II

1301 W. Grand Avenue, Artesia, NW 88210

District III

1000 Rie Branes Rd., Actie, NM 87410

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Form C-102

Revised June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

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WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE:

5/22/2006

FIELD:

Blanco MV

WELL NAME:

Indian H #5

Rio Arriba, NM

SURFACE:

BOIA

BH LOCATION:

SENE Sec 14-28N-3W

MINERALS:

Jicarilla #60

ELEVATION:

7,088' GR

LEASE#

Jicarilla #60

MEASURED DEPTH: 6,397'

I. **GEOLOGY**:

Surface formation - San Jose

A. FORMATION TOPS: (KB)

Name	MD	Name	MD
Ojo Alamo	3,292	Cliff House	5,627
Kirtland	3,432	Menefee	5,687
Fruitland	3,432	Point Lookout	5,947
Picture Cliffs	3,597	Mancos	6,282
Lewis	3,872	TD	6,397

- B. MUD LOGGING PROGRAM: Mudlogger on location at ~3,300' to intermediate casing TD.
- C. LOGGING PROGRAM: High Resolution Induction/ GR and Density/ Neutron log from surface casing to intermediate casing and intermediate shoe to TD. Onsite geologist will pick Density/ Neutron log intervals on both logging runs.
- 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. BOPTESTING: 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	HOLE SIZE	<u>DEPTH</u> (MD)	CASING SIZE	WT. & GRADE
Surface	12-1/4"	+/- 300'	9-5/8"	36# K-55
Intermediate	8-3/4"	+/- 4,092'	7"	20# K-55
Prod. Liner	6-1/4"	+/- 3,992-6,397'	4-1/2"	10.5# K-55

B. FLOAT EQUIPMENT:

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

IV. CEMENTING:

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

- 1. SURFACE: Slurry: 150sx (205 cu.ft.) of "Type III" + 2% CaCl₂ + ½ # 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 525 sx (1,090 cu.ft.) of "Premium Light" with 8% gel, 1% CaCl₂ 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 = 1,160 cu.ft. Bump Plug to 1,500 psi. Notify engineering if cement is not circulated to surface.
 - 3. PRODUCTION LINER: 10 bbl Gelled Water space. Lead: 50sx (130ft³) of Premium Light HS + 1% FL-52 + .2% CD-32, 0.1% R-3, 3 #/sk CSE. (Yield = 2.59 cu.ft./sk, Weight = 11.6 #/gal.). Tail: 100 sx (215 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 lead and tail should cover 100 ft into intermediate casing. Total volume 308 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.

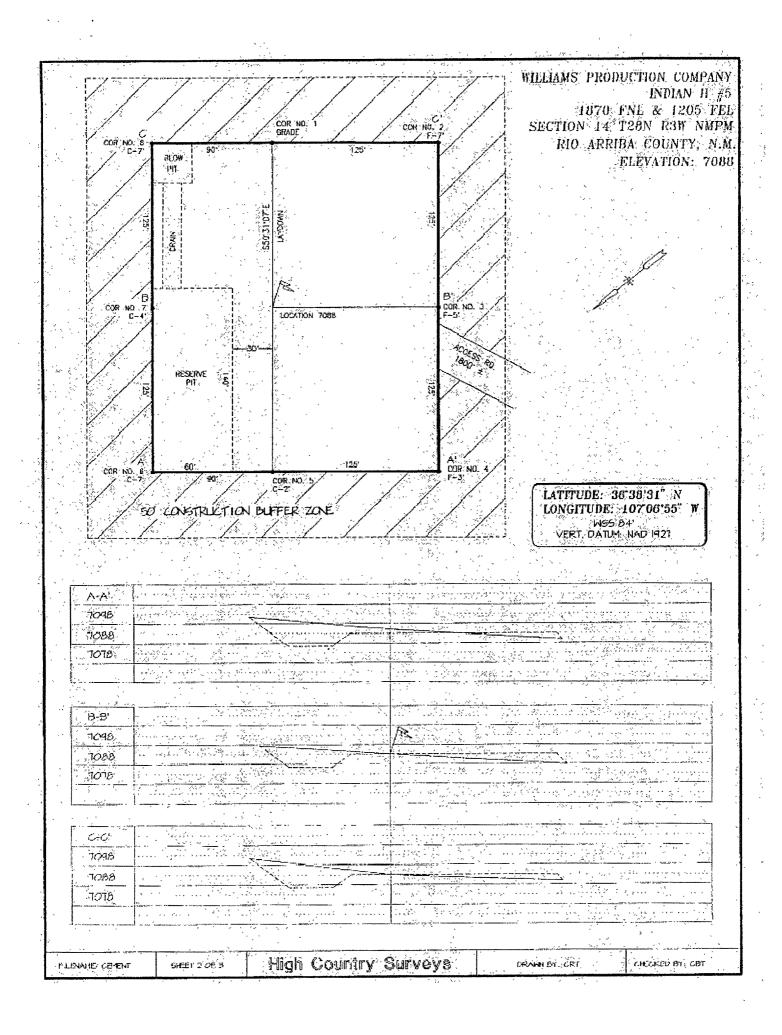
C. STIMULATION

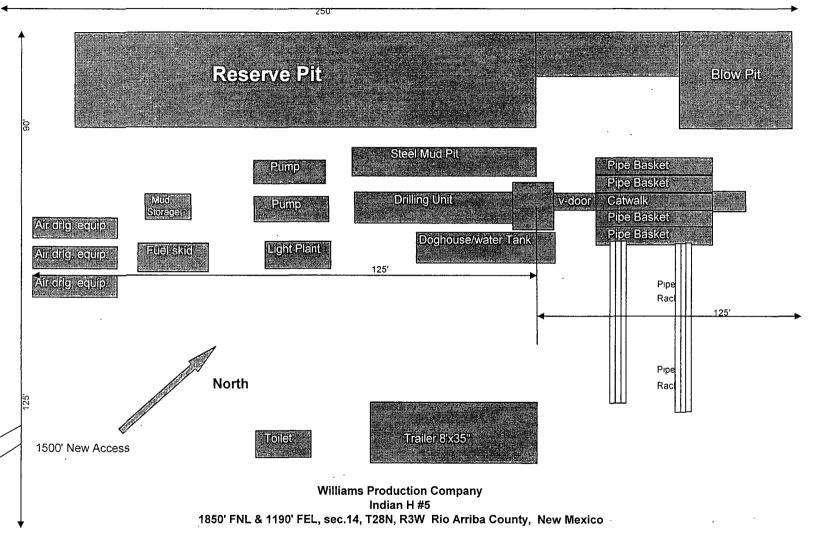
- Perforate the Point Lookout as determined from the open hole logs.
 Stimulate with approximately 9,300# of 14/30 LitePropTM sand in slick water.
- Isolate Point Lookout with a CIBP.
- Perforate the Menefee/Cliff House as determined from the open hole logs.
- Stimulate with approximately 9,300# of 14/30 LitePropTM sand in slick water.
- 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.

Jicarilla 92 #17A Ops Plan.doc





Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Exhibit #1 Typical BOP setup

