RECEIVE

ROUD DECZIOS.

CONTRACT

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

UNITED STATES DEPARTMENT OF THE INTERIOR

AUG 25 2006

DUKEAU OF LANE	MANAGEMENT Bulleau OT	ton Eigld Offic	6 If Indian Allottes on To	- // 6			
APPLICATION FOR PERMI	T TO DRILL OR REENTER		6. Il Indian, Anottee of 11	noe wame			
			Jicarilla Apache Nati	on			
la. Type of Work: 🛛 DRILL	☑ DRILL ☐ REENTER						
_				8. Lease Name and Well No.			
1b. Type of Well: Oil Well Gas Well Otl	her	Multiple Zone	JAECO 26-3 16 #1				
2. Name of Operator			9. API Well No. 39 -	30049			
Williams Production Company, LLC 3a. Address	3b. Phone No. (include area co	de)	10. Field and Pool, or Exploratory				
P.O. Box 640 Aztec, NM 87410	(505) 634-4208						
4. Location of Well (Report location clearly and in accordance			11. Sec., T., R., M., or Blk.				
At surface 1160' FSL & 860'FEL							
At proposed prod. zone same			Section 16, T26N R3	NA/			
14. Distance in miles and direction from nearest town or post	t office*		12. County or Parish	13. State			
16 miles from Lindrith,NM			Rio Arriba	NM			
15. Distance from proposed* location to nearest property or lease line, ft.	16. No. of Acres in lease	17. Spacin	ng Unit dedicated to this well				
(Also to nearest drig. unit line, if any) 2500'	320	320	320 (E/2)				
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft	19. Proposed Depth	20. BLM/E	BIA Bond No. on file				
860′	(299'			23 Estimated duration			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work	will start*					
7,070' GR	November 1, 2006 24. Attachments		1 month				
The following, completed in accordance with the requirements	s of Onshore Oil and Gas Order No.1, shall	be attached to this	form:				
 1. 1. 1 plat certified by a registered surveyor. 2. A willing Plan. 3. A Surface Use Plan (if the location is on National Fores SUPO shall be filed with the appropriate Forest Service. 	st System Lands, the 5. Operator ce	ove). rtification. site specific info	unless covered by an existing an analysis armation and/or plans as may				
25. Signature	Name (Printed Typed)		Date				
Title	Larry Higgins		8	-25-01			
Drilling CQM /				_			
Approved by Cignature) Manufer 150	Name (Printed Typed)		Date	12/19/			
Title AFM	Office FF						
application approval does not warrant or certify that the applic perations thereon. Conditions of approval, if any, are attached.	cant holds legal or equitable title to those rig	thts in the subject l	ease which would entitle the a	pplicant to conduct			
Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 121 States any false, fictitious or fraudulent statements or represent	2, make it a crime for any person knowing tations as to any matter within its jurisdiction	ly and willfully to	make to any department or ag	ency of the United			
(Instructions on reverse)							
Villiana Baduatian Camanan III Caranana ta della cu	and and well he staveled the District Advantage						

Williams Production Company, LLC, proposes to drill a vertical well to develop the Blanco Mesa Verde/Basin Dakota formation at the above described File pit permit application on NM OCA form C-103 prior to constructing Loca tiet. 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 5052.5 foot pipeline tie would be required for this location and it is also located on Jicarilla Apache Nation Lands.

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

B 12/02/06

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

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

OIL CONS. DIV.

nist.3

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Braxos Rd., Aster, NM 87410

District IV

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

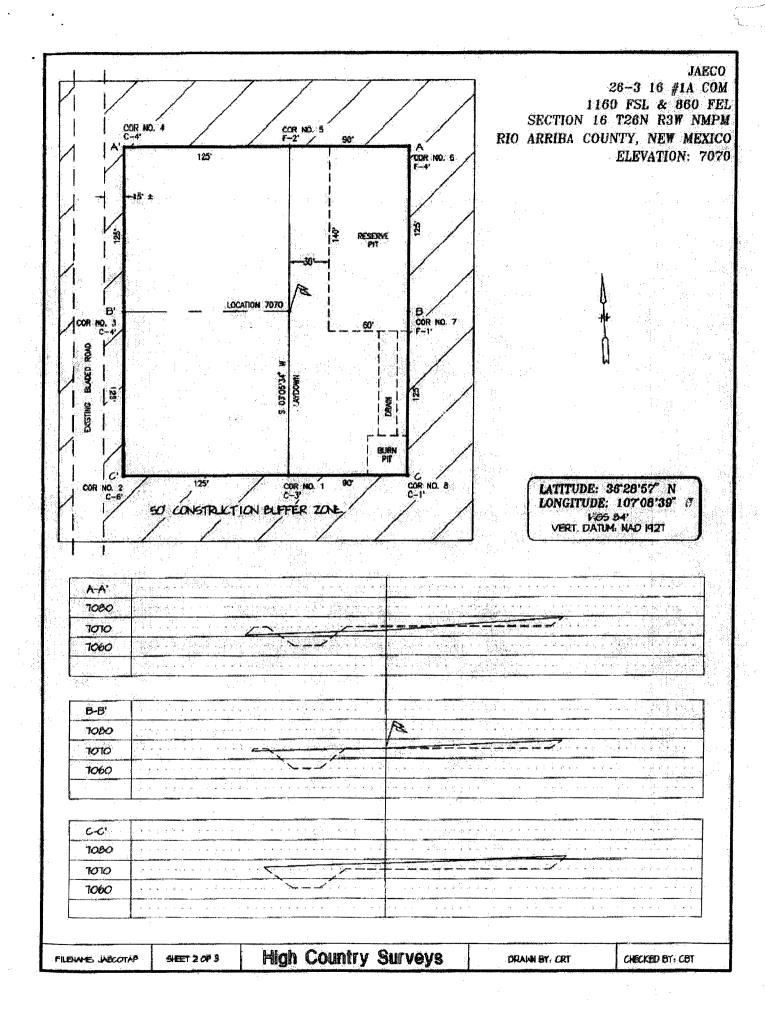
Revised June 10, 2003

Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

1220 S. St. Francis	Dr., Santa F	e, NM 87505				,		LIAM	ENDED REPORT
		V	ELL LO	CATION	AND ACR	EAGE DEDIC	ATION PLA	r	
30-03	API Number			'Pool Code 2319			*Pool Nam MESAVERD	10	
362 C	Code OG			TAECO	Property : 26-3	NO BY		1.A	Well Number
'ogrid 12078		Willia	ins	Product	· Operator I		1,LLC	7	*Elevation 070
		r en ly V r virus is desc		andrine del. Julius	10 Surface	Location			
UL or lat no.	Section	Township	Runge	Les Idn	Feet from the	North/South line	Feel from the	East/West line	
P	16	26N	3W		1160	SOUTH	860	EAST	RIO ARRIBA
		Andro V	11 Bo	ttom Hole	Location I	Different From	Surface		
UL or lot ma	Sertion	Township	Raoge	Los Ida	Feet from the	North/South line	Peel from the	East/West line	County
"Dedicated Acres E/2 320		isan Pc	omolidation C	ah Vort	r Pio.				

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 5284.84 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. 5200. SECTION 16 18SURVEYOR 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. APRIL 19, Date of Stave 8601 1160 5284.





WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE:

8/11/2006

FIELD:

Blanco MV

WELL NAME:

JAECO 26-3 16 #1A COM

SURFACE:

BOIA

BH LOCATION:

MINERALS:

Jicarilla Apache

SESE Sec 16-26N-3W Rio Arriba, NM

ELEVATION:

7,070' GR

LEASE #

Jicarilla Apache

Contract # 116

MEASURED DEPTH:

6,299

I. GEOLOGY:

Surface formation - San Jose

A. FORMATION TOPS: (KB)

Name	MD	Name	MD
Ojo Alamo	3,244	Cliff House	5,429
Kirtland	3,449	Menefee	5,544
Fruitland	3,509	Point Lookout	5,849
Picture Cliffs	3,704	Mancos	6,144
Lewis	3,889	TD	6,299

B. MUD LOGGING PROGRAM: None

- C. LOGGING PROGRAM: HRI/GR, D-N from surface to int. casing. High Resolution Duel Induction log from intermediate shoe to TD. High Resolution Induction/ GR and Density/ Neutron log over zones of interest. 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. 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	3	300		9 5/8	36	K-55
Intermediate	8 3/4	4,	4,116		7	20	K-55
Liner	6 1/4	4,019	6,299		4 1/2	10.5	J-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., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft. (NTL-FRA 90-1).
- 3. PRODUCTION CASING: 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. <u>CEMENTING:</u>

(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 (1,098 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 = 1.006 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. Cement: 140 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 293 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 1500# for 15 minutes as per state regulations.

C. STIMULATION

- 1. Perforate the Point Lookout as determined from the open hole logs.
- 2. Stimulate with approximately 9,300# of 14/30 LitePropTM 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 LitePropTM sand in slick water.
- 6. Test each zone before removing bridge plugs.

D. RUNNING TUBING

1. <u>Mesa Verde</u>. 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.

Sr. Drilling Engineer

JAECO 26-3 16 #1A Com.doc

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Exhibit #1 Typical BOP setup

