Form 3160-3 (September 2001)				OMB No	APPROVED . 1004-0136	
UNITED STATE	<u> </u>	nuary 31, 20	" - DI ST. 9			
DEPARTMENT OF THE	5. Lease Serial No.					
BUREAU OF LAND MAN	701-02-0014					
APPLICATION FOR PERMIT TO D	6. If Indian, Allottee		ame			
				Jicarilla Apache 7. If Unit or CA Agre		no and No
la. Type of Work: DRILL REENT	c ☑ DRILL ☐ REENTER 2006 AUG 11 AM 9 12			8. Lease Name and W		ne and 140.
1b. Type of Well: Oil Well Gas Well Other 2. Name of Operator	<u> s</u>	ingle Zone Mult	iple Zone	JAECO 26-3		
•	070	FARHINGTON	I IM	9. API Well No.	2 *^ -	
Williams Production Company, LLC 3a. Address	3h Phone No	o. (include area code)		30 -039 - 30025 10. Field and Pool, or Exploratory		
	ì					
P.O. Box 640 Aztec, NM 87410 4. Location of Well (Report location clearly and in accordance with all		634-4208		Bianco MV/Basin Dakota 11. Sec., T., R., M., or Blk. and Survey or Area		
At surface 1155' FNL & 1705'FEL	ny blute requirem	- MS. /				
At proposed producine same				Accession on Too	TAL DOWN	
14. Distance in miles and direction from nearest town or post office*				Section 22, T26		13. State
16 miles from Lindrith,NM				Rio Arriba	ŀ	
35 Distance from proposed*	16 No of /	Acres in lease	17 Spacir	g Unit dedicated to this v	veli	NM
location to nearest property or lease line, ft.	location to nearest property or lease line, ft.			612		
18. Distance from proposed location*	19 pose	od Domth		BIA Bond No. ca file		
to nearest well, drilling, completed, applied for, on this lease, ft		•				
2600' 21. Elevations (Show whether DF, KDB, RT, GL, etc.)	8,503	: imate date work will s		23. Estimated duratio		
7.274' GR	1 ''	mber 1, 2006		1 month		
1,214 010	24. Atta			1 11101101		
The following, completed in accordance with the requirements of Onsh			ached 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 SUPO shall be filed with the appropriate Forest Service Office) 	n Lands, the	4. Bond to cover the Item 20 above). 5. Operator certification.	ne operation ation. specific info	s unless covered by an e	J	
25. Signature	Name	(Printed/Typed)			Date	
lange Hranin	•	Larry Higgins			ن-10-06	
Title Drilling COM						
Approved by (Signature) // ankeo/sex	Name	(Frinted Typed)			Date 2	29/60
Title AFM	Office	FFO		· · · · · · · · · · · · · · · · · · ·		
Application approval does not warrant or certify that the applicant hold operations thereon.	s legal or equitab	ple title to those rights in	the subject	lease which would entitle	the applica	nt to conduct
Conditions of approval, if any, are attached.						
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make States any false, fictitious or fraudulent statements or representations as	it a crime for an to any matter wi	y person knowingly an thin its jurisdiction.	d willfully to	make to any departmen	t or agency	of the United
*(Instructions on reverse) File asoli	ication fo	or pit permi	-000	FORM C +03 P	rior i	O CONSTRUCTION
Williams Production Company, LLC, proposes to drill a vertical w location in accordance with the attached drilling and surface use	vell to develop	· · · · · · · · · · · · · · · · · · ·			ے above desc	ocation cribed
The surface is located on Jicarilla Apache Nation lands.						
This location has been archaeologically surveyed by Vəlarde En	ergy.					
A 2805.6 foot pipeline tie would be required for this location and	l it is also locate	ed on Jicarilla Apache	e Nation La	nds.		

1/1

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

2805.6' of new access road will be needed to access this well.

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

NMOCD
B /8/01

District 1

1625 N. French Dr., Hebbs, NM 88240

District II

1301 W. Grand Avezne, Artesia, NM 88210

DistrictIII

1000 Rio Brazas Rd., Aztec, NM 87410

District IV

1210 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 DIST. 3

Revised June 10, 2003

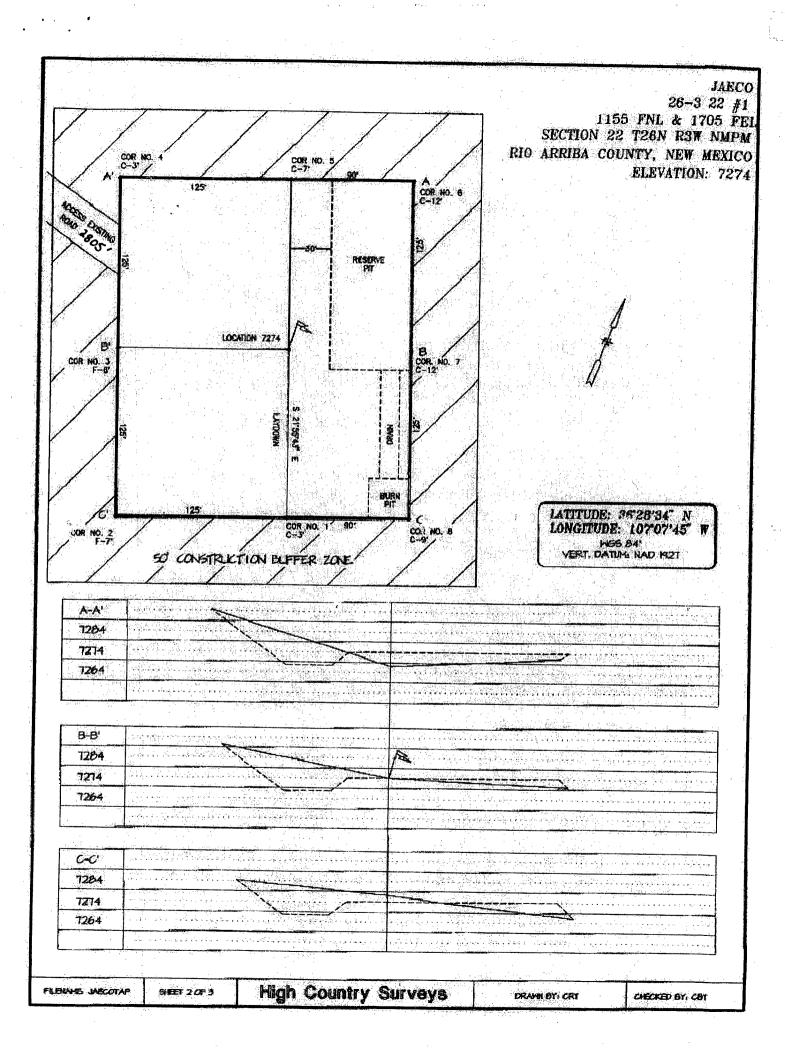
Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

30-039	Pi Numbe		7231	Pool Code		<u>EAGR DEDIC</u> ANCO MESAVEI	Poel Nam	•	
'Aroparty C ろしつい) (2)		JAEC) 2	'Property 26–3 22	Vanner.		1	Well Namber
'ocrid's 120782	9,	Willia	ans F	Poductio	Operator! Machine	supany	LLC	727	Bevallen 4
					10 Surface I	Location			
Cit. ear but ma. R	Section 22	Township 26N	Range 3W	Lot Ide	Feet from the	North-South line NORTH	Feet from the 1705	Rest/West line EAS/T	County RIO ARRIBA
			4 4	tom Hol	e Location If	Different Fron			
UL or f on.	Section	Township	Range	Lot Idn	Feet from the	Nor**-South Die	Feet from the	East/West kine	County
"Dedicated Acres 320 (E/2)	^D Joint or	India o C	erso Mation Co	de Cond	F 73a,				





WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE:

8/4/2006

FIELD:

Blanco MV/Basin DK

WELL NAME:

JAECO 26-3 22 #1

SURFACE:

BOIA

BH LOCATION:

NWNE Sec 22-26N-3W

MINERALS:

Jicarilla Apache

ELEVATION:

Rio Arriba, NM

LEASE #

MDA#701-02-0014

MEASURED DEPTH:

7,274' GR

8,503

I. GEOLOGY:

Surface formation - San Jose

A. FORMATION TOPS: (KB)

Name	MD	Name	MD
Nacimiento	2518	Cliff House	5,523
Ojo Alamo	3,388	Menefee	5,638
Kirtland	3,573	Point Lookout	5,958
Fruitland	3,618	Mancos	6,243
Pictured Cliffs	3,793	Gallup	6,968
Lewis	3,988	Greenhorr	7,958
Huerfanito Bentonite	4,298	Graneros	8,023
		Dakota	8,068
		Morrison	8,403
		TD	8,503

- B. MUD LOGGING PROGRAM: Mud log from 300' above Ojo Alamo to TD. Mud logger to pick TD.
- C. <u>LOGGING PROGRAM:</u> HRI from surface casing to TD. SDL/DSN/DSEN/MRIL/CSNG/Dipole Sonic. Onsite geologist will pick intervals on both logging runs.
- **D.** <u>NATURAL GAUGES:</u> Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

II. DRILLING:

A. <u>MUD PROGRAM</u>: 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. <u>BOP TESTING:</u> 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	32.75	H-40
Intermediate	9 7/8	4,213	7 5/8	26.4	K-55
Longstring	6 3/4	8,503	5 1/2	17	N-80

B. FLOAT EQUIPMENT:

- 1. <u>SURFACE CASING:</u> 10-3/4" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (3) joints of Surface Casing.
- 2. <u>INTERMEDIATE CASING:</u> 7-5/8" 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).
- 3. <u>PRODUCTION CASING:</u> 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: 255sx (356 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.
- INTERMEDIATE: Lead 735 sx (1531) cu.ft.) of "Type III" 65/35 poz with 8% gel, 1% CaCl₂ 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, and 1% CaCl₂ (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 = 1,670 cu.ft. Bump Plug to 1,500 psi. Notify engineering if cement is not circulated to surface.
- 3. PRODUCTION CASING: 10 bbl Gelled Water space. Cernent: 210 sx (443 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 443ft³. 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 5-1/2" casing to 6000 psi for 15 minutes.

C. STIMULATION

- 1. Stimulate Dakota with approximately 70,000# of 20/40 sand in x-link foam.
- 2. Isolate Dakota with a RBP.
- 3. Stimulate: Point Lookout with approximately 80,000# of 20/40 sand 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 80,000# of 20/40 sand in slick water.
- 7. Test each zone before removing bridge plugs

D. RUNNING TUBING

- 1. <u>Dakota</u>: 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. <u>Mesa Verde:</u> 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
Sr. Drilling Engineer

JAECO 26-3 22 #1 Ops Plan.doc

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Exhibit #1 Typical BOP setup

