Form 3160-3 (September 2001)

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

D

UNITED STATES				Expires suita		
DEPARTMENT OF THE IN	5. Lease Serial No.					
BUREAU OF LAND MANAG	Jicarilla Tribal Contract #116					
APPLICATION FOR PERMIT TO DE		FENTER		6. If Indian, Allottee o	r Tribe Name	
ATTEMATION TO BE		(SFP 1 P	ባ 12 1	 DJicarilla Apache t	Mation	
	7. If Unit or CA Agreement, Name and No.					
la. Type of Work: DRILL REENTEL	R	RECEIVE	r n	,	•	
_	,			8. Lease Name and Wel	l No.	
1b. Type of Well: Oil Well Gas Well Other	⊠ Ś	MgleZoneA R 🗖 Multi	ple Zone	JAECO 26-3 15 #1A COM		
2. Name of Operator				9. API Well No.		
Williams Production Company, LLC				30-039-	-30067	
3a. Address	3b. Phone No	o. (include area code)		10. Field and Pool, or Exploratory		
P.O. Box 640 Aztec, NM 87410	(505)	634-4208		Blanco MV		
4. I ocation of Well (Report location clearly and in accordance with any				11. Sec., T., R., M., or E	3lk. and Survey or Area	
40001 ENIL 0 40001EE1	State reguirem	<i>cms.</i>)		, , , , , , , , , , , , , , , , , , , ,		
A Confuce				Δ		
At proposed prod. zone same				Section 15, T26N 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 a	Acres in lease	17. Spacin	g Unit dedicated to this we	eil	
location to nearest property or lease line. ft.						
property or leases line, ft. (Also to nearest drig, unit line, if any)	320		320 (E/2)			
18. Distance from proposed location*	19. Propose	ed Depth	20. BLM/E	BIA Borid No. on file		
to nearest well, drilling, completed, applied for, on this lease, ft					PCUD DE	
2640′	6,29		B00		2.10	
2 Elevations (Show whether DF, KDB, ET, GL, etc.)	22. Approx	kimate date work will s	start*	23. Estimated duration		
7,175' GR	Nove	mber 1, 2006		1 month	erical control of the	
	24. Atta	chments			DIS	
The following, completed in accordance with the requirements of Onsho	ore Oil and Gas	Order No.1, shall be at	tached to this	form:		
		1				
Well plat certified by a registered surveyor. A Parilling Plan		4. Bond to cover the stem 20 above).		s unless covered by an ex	usting boad on file (see	
2. A Drilling Plan.3. A Surface Use Plan (if the location is on National Forest System	Lands the	5. Operator certific				
SUPO shall be filed with the appropriate Forest Service Office).	,			rmation and/or plans as	may be required by the	
· · · · · · · · · · · · · · · · · · ·		authorized offic	ег.			
25. Signature Name (Printed/Typed)					Date	
Larry Higgins					8-31-06	
Title						
Drilling COM						
Approved by (Signature)	Nam	e (Printed Typed)			Date	
- Willandee and)				12/19/8	
Title	Offic	ie				
HM		170				
Application approval does not warrant or certify that the applicant holds	legal or equita	able 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 States any false, fictitious or fraudulent statements or representations as	it a crime for a to any matter v	my person knowingly as within its jurisdiction.	nd willfully t	o make to any department	or agency of the United	
*(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 survived by Velarde Energy.

A 2667.2 foot pipeline tie would be required for this location and it is also located on Jicarilla Apache Nation Lands.

480' of existing access road will be needed to access this well.

NMOCD & 12/22/06

District I

1625 N. French Dr., Hobbs, N& 88240

District Li

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazon Rd., Axter, 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 61021.3

Revised June 10, 2003

Submit to Appropriate District Office

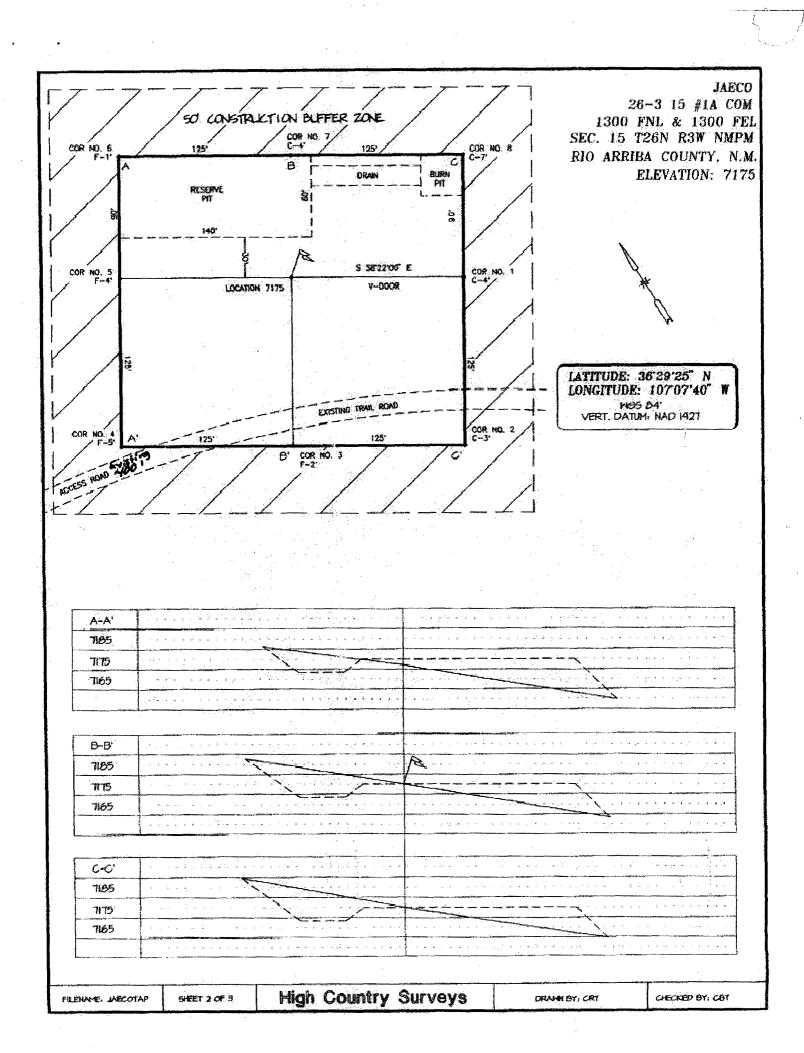
State Lease - 4 Copies

Fee Lease - 3 Copies

1220 S. St. Francis	Dr., Santa k	116 1 81						LI AM	ENDED REPORT
		V	ELL LO	CATION	AND ACR	EAGE DEDIC	ATION PLA	I	
30-039	Pi Number	067	6 1 600 200	'Pool Code 72319		BLANCO ME	³ Proof Na		
3620	8		JAE		'Preperty 26-3 15	[편집] 		1 .	Well Number
'ockid' 120782	rla.	Willia	ms Pri	duction	'Operator' 1 JAEC O (Company	LLC	7	Perusian 175
					10 Surface	Location		**************************************	**************************************
UL or let no.	Section	Township	Range	Let Ich	Feet from the		Feet from the	East/West line	County
A ·	15	26N	3 W		1300	NORTH	1300	EAST	RIO ARRIBA
			¹¹ Bo	ttom Hol	e Location I	Different Fron	Surface		
UL or let no.	Section	Township	Ronge	Lot Idn	Feet from the	and the second of the second o	Feet from the	Enst/West line	County
"Dedicated Acres	" Joien or	rladiil "C	onsolidation C	ede "Ord	er No.	<u> </u>			
E/2 320	}		3	ŀ	,		:		

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 17 OPERATOR CERTIFICATION 5286-14 I hereby certify that the information contained herein is true and complete to the best of my knowledge and 1300' 8-31-06 8 SECTION 15 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. APRIL 20, Date of Sept by 5285.58

Submit 3 Copies To Appropriate District Office <u>District I</u>	State of New Mexico Energy, Minerals and Natural Resources			Form C-103 May 27, 2004 WELL API NO. 30-039-30067		
1625 N. French Dr., Hobbs, NM 88240 District II	OIL CONCEDIA	A TYONT	DIVICION	WELL AFTINO.	30-039-30067	
1301 W. Grand Ave., Artesia, NM 88210 District III	OIL CONSERVA 1220 South S			5. Indicate Type	of Lease	
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe,			Federal (Indian)		
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	Saina PC,	14141 07	505	6. State Oil & G	as Lease No.	
SUNDRY NOTION (DO NOT USE THIS FORM FOR PROPOSE DIFFERENT RESERVOIR. USE "APPLIC	CES AND REPORTS ON ALS TO DRILL OR TO DEEPE ATION FOR PERMIT" (FORM	EN OR PLU	JG BACK TO A		or Unit Agreement Name	
PROPOSALS.)	(0.0.			Jicarilla Tribal (8. Well Number		
1. Type of Well: Gas Well X				JAECO 26-3 15		
	uction Company			9. OGRID Num		
3. Address of Operator	A			10. Pool name o		
	, Aztec, NM 87410			Blanco MV/Basi	in Dakota	
4. Well Location			–			
Unit Letter A: 1300 feet					,	
Section 15 Towns	ship 26N Range 11. Elevation (Show whe	3W	NMPM		Arriba	
Pit or Below-grade Tank Application X	7175' GR	aner DK,		ac.)		
Pit typeDrillingDepth to Groundwater	r >100' Distance from neares	t fresh wat	ter well >1000' I	Distance from nearest sur	face water >500'<1000'	
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volume		; Construction M		_	
	appropriate Box to Ind				r Data	
12. Check A	tppropriate box to file	iicaic iv	ature or notic	c, report of Othe	l Data	
NOTICE OF IN PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING	TENTION TO: PLUG AND ABANDON CHANGE PLANS MULTIPLE COMPL		REMEDIAL W	DRILLING OPNS.	EPORT OF: ALTERING CASING □ P AND A □	
TOLE ON METER GROWN	MOETH EL COMI E		CAGINO/CEIVI	E141 30B		
OTHER:			OTHER:			
 Describe proposed or composed of starting any proposed we or recompletion. 					stes, including estimated date gram of proposed completion	
Drilling/Completion pit to be located site disturbance and pit will be consi NMOCD Interim Pit and Below-Gra	dered out of service once p	from we productio	ll head. Pit mul n tubing set. Res	ti-use drilling and cor serve pit to be constru	mpletion to avoid additional acted in accordance with	
	,					
*	•		•		· ·	
I hereby certify that the information grade tank has been/will be constructed or	above is true and complete closed according to NMOCD g	e to the buidelines [est of my knowl], a general permi	t 🗌 or an (attached) alte	rnative OCD-approved plan 🔲.	
SIGNATURE Comp	Haggin I	TTLE	_Drilling COM_	DATE 9-30-	31-06	
Type or print name Larry Higgins For State Use Only	E-mail address: larry.l	higgins@	williams.com	Telephone No. (970)		
APPROVED BY:	Jul 1	TITLE_	FUTY OIL R'GA	S INSPECTOR, DIST.	DEC 2 2 2006	





WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE:

8/29/2006

FIELD:

Blanco MV

WELL NAME:

JAECO 26-3 15 #1A Com

SURFACE:

BOIA

BH LOCATION:

NENE Sec 15-26N-3W

Jicarilla Apache

Rio Arriba, NM

MINERALS:

ELEVATION:

7,175' GR

LEASE#

MDA#701-02-0014

MEASURED DEPTH:

6.294

I. GEOLOGY:

Surface formation - San Jose

A. FORMATION TOPS: (KB)

Name	MD	Name	MD
Nacimiento	2,589	Cliff House	5,449
Ojo Alamo	3,349	Menefee	5,554
Kirtland	3,534	Point Lookout	5,844
Fruitland	3,564	Mancos	6,129
Picture Cliffs	3,754	TD	6,294
Lewis	3,939	· ·	
Huerfanito Bentonite	4,244		

- B. MUD LOGGING PROGRAM: Mud log from 300' above Ojo Alamo to TD. Mud logger to pick TD.
- 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	300	9 5/8	36 K-55
Intermediate	8 3/4	4,159	7	
Liner	6 1/4	4,059 6,294	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., 2,500 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. CEMENTING:

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

- 1. <u>SURFACE</u>: Slurry: <u>150sx</u> (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 535 sx (1,110 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 = 1,180 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 (287 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 287 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.

Gary Sizemore
Sr. Drilling Engineer

JAECO 26-3 15 #1A Ops Plan.doc

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Exhibit #1 Typical BOP setup

