FORM 3160-3

SUBMIT IN TRIPLICATE®

Form approved.

(December 1990)			(Other instructions on	Budget Bureau No. 1004-0136		
JV	UNITED STATES reverse side)			Expires December 31, 1991		
/ DEP	ARTMENT OF T	5. LEASE DESIGNATION AND SERIAL NO.				
BI	JREAU OF LAND M	ANAGEMENT		Jicarilla Apache Contract #6		
ADDI ICATION		DDUL DEFREN O	D DI 110 D 1014	6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
		DRILL, DEEPEN, O	R PLUG BACK	Jicarilla Apache Nation		
1a. TYPE OF WORK DR	NLL X DEEPE	EN □		7. UNIT AGREEMENT NAME		
1b. TYPE OF WELL				[703]		
ошП	CAG	SINGLE	h 41 17 2200 2	8. FARM OR LEASE NAME, WELL NO.		
WELL	WELL Y OTH	ER ZONE	MULTIPLE X ZONE	Indian I #3		
2. NAME OF OPERATOR				9. API WELL NO 2 Q 7/ 5/77		
	Production Compan	y LLC		30-039-76872		
3. ADDRESS OF OPERATOR	10. FIELD AND POOL OR WILDCAT					
		rmington, NM 87402 (505) 327 1892	Blanco Mesa Verde/DK		
4. LOCATION OF WELL (Report		with any State requirements.	Sec. 2027.	11. SEC., T., R., M., OR BLK.		
At Surface 1020' FTN	'L & 1970' FEL	6.00	♦ 501	AND SURVEY OR AREA		
At/proposed Prod. Zone			VOV 2001	β Sec. 34, T28N, R3W		
DISTANCE IN MILES AND DIREC		POST OFFICE*	ENERGY ON	12. COUNTY OR PARISH 13. STATE		
	NE of Lindrith, NM			Rio Arriba NM		
 DISTANCE FROM PROPOSED* L OR LEASE LINE, FT. (Also to neare 		Y 16. NO. OF ACRES IN LEAS	1 DEL 3	NO. OF ACRES ASSIGNED TO THIS WELL		
1020'	or unit, a diy /	250	so 🚀 🗀	320.00 F/2		
18. DISTANCE FROM PROPOSED LO	•	19. PROPOSED DEPTH	Dr	ROTARY OR CABLE TOOLS		
DRILLING, COMPLETED, OR API 8380'	PLIED FOR ON THIS LEASE, FT.	836	181	Rotary		
21. ELEVATIONS (Show whether DF, R	T, GR, etc.)		<u> </u>	22. APPROX. DATE WORK WILL START*		
7006'				December 1, 2001		
23.	PROPOSED (CASING AND CEMENTING	PROGRAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT		
14-3/4"	10-3/4"	32.75#	~250 ft	~313 cu.ft. Type III with 2% CaCl 2		
	7-5/8"	26.4#	~ 4108 ft	~1439 cu.ft.65/35 poz & ~326 cu.ft.Type III		
9-7/8"						

above described location in accordance with the attached drilling and surface use plans.

This location has been archaeologically surveyed by Velarde Energy Service. Copies of their report have been submitted directly to your office.

This APD also is serving as an application to obtain BLM road and pipeline right-of-ways. This well will be accessed by an existing road that crosses the SW/NE, NW/SW of section 34 of T28N R3W where it joins "J-10".

f proposal is to drill or deepen directionally, give pertinent data on subsurface 24.	deepen or plug back, give data on present productive zone and proposed new plocations and measured and true vertical depths. Give blowout preventer propulations are considered as a considered propulation of the constant of	
SIGNED Jobb C. / fr	TITLE John C. Thompson, Agent DATE	10/4/01
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	× × ×
	table title to those rights in the subject lease which would entitle the applicant to conduct	t operations thereon.
CONDITIONS OF APPROVAL OF ANY: APPROVED BY WILLIAM WITH WARRY	THE ST. Fill Mar. DATE_	NOV 2 7 2901
*See	Instructions On Reverse Side 7	
Title 18 U.S.C. Section 1001, makes it a crime for any per States any false, fictitious or fraudulent statements or repr	son knowingly and willfully to make to any department of esentations as to any matter within its jurisdiction.	r agency of the United

All cosing storings will be contralized

District I PO Box 1980, Hobbs, NM 88241-1980

District II PO Drawer DD, Artesia, NM 88211—0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410 State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease – 4 Copies
Fee Lease – 3 Copies

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

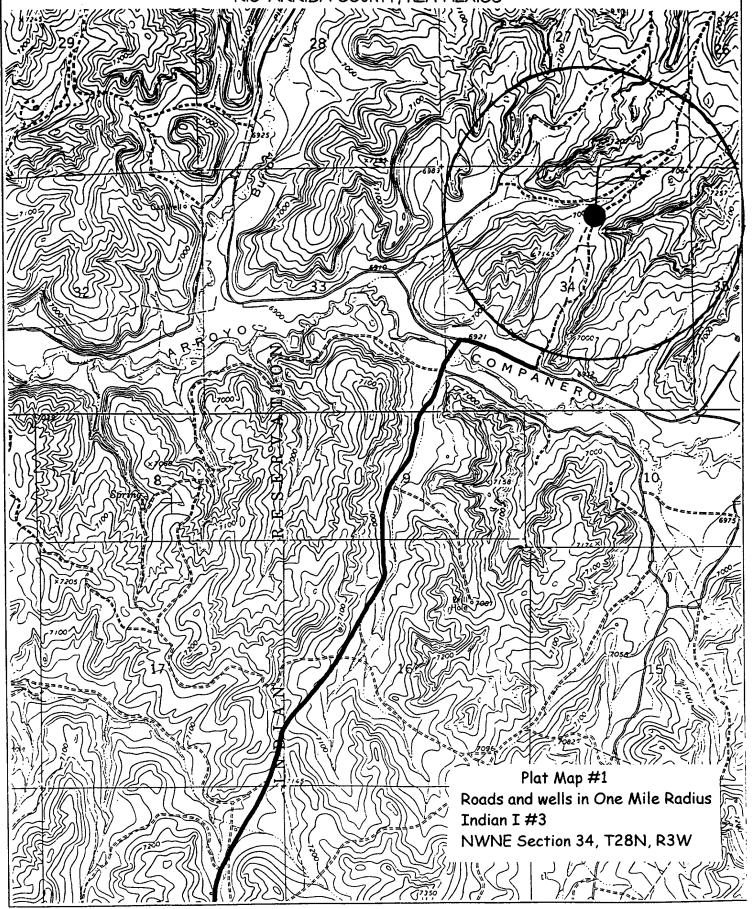
AMENDED REPORT

6857

District IV PO Box 2088, Santa Fe,	NM 87504-2088					AMEND	ED REPORT	
	WEL	L LOCAT	ION AND A	ACREAGE DEDI	ICATION PL	AT .		
'API Number		*Pool Coo 2319 - 7	I	Blanco M	³Pool Nam — Mesaverde	e Basin Dako	ta	
Property Code	50/5		³Proper	ty Name			ell Number	
17031				AN I			3 *Elevation	
'OGRID №. 120782		WILLI	Operato AMS PRODI	or Name JCTION COMPA	ANY .		7006	
		- -	¹⁰ Surface	Location		 		
B 34	Township Range 28N 3W	E Lot Idn	Feet from the	North/South line NORTH	Feet from the	East/West line	County RIO ARRIBA	
<u> </u>	¹¹ Botto			If Different	From Surf			
UL or lot no. Section	Township Rangi	e Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Dedicated Acres 320	.0 Acres -	(E/2)	¹³ Joint or Infill	³⁴ Consolidation Code	¹⁵ Onder No.			
NO ALLOWABLE .W	ILL BE ASSIG	NED TO TH STANDARD	IIS COMPLET UNIT HAS I	ION UNTIL ALL BEEN APPROVED	INTERESTS H BY THE DIVI	HAVE BEEN CO	NSOL IDATED	
2640.00°		- 34	1020	4 DIV	Signatur John Printed Engir Title 10/4/ Date 18 SURV I hereby cer was plotted for under my correct to	C. Thompson Name neer/Agent /01 /EYOR CERT rutify that the well location field notes of act supervision, and that the best of my belief. INE 22, 2001	IFICATION tion shown on this plat leal surveys made by me e same is true and	

5268.121

WILLIAMS PRODUCTION COMPANY INDIAN 1 #3 1020' FNL + 1970' FEL, SECTION 34, T28N, R3W, N.M.P.M. RIO ARRIBA COUNTY, NEW MEXICO





WILLIAMS PRODUCTION COMPANY

OPERATIONS PLAN

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

DATE:

10/4/2001

WELL NAME:

ELEVATION:

Indian I #3

Rio Arriba, NM

FIELD:

Basin MV/DK

SURFACE LOCATION:

NW/4 NE/4 Sec. 34- T28N-R3W

SURFACE:

Jicarilla

7006' GR

MINERALS:

Jicarilla

LEASE#

Jicarrilla Apache

Contract #61

MEASURED DEPTH:

8368'

I. GEOLOGY:

Surface formation - San Jose

A. FORMATION TOPS: (KB)

Neurilay 300 <u>MD</u> **MD** Ojo Alamo 3278 Mancos sh 6133 Kirtland sh 3448' Gallup ss 69783 Fruitland cl 3448' Greenhorn Is 7913' Pictured Cliffs ss 3628' Graneros sh 7973 Lewis sh Dakota ss 3888 8118' Cliff House ss 5608' Menefee 5693' Point Lookout ss 5938' **Total Depth** 83689

- B. <u>LOGGING PROGRAM:</u> IND/GR/TEMP from TD to the Intermediate Casing Shoe. DEN/Neutron/GR (selected intervals by on-site Geologist). Subject to change as wellbore conditions dictate.
- C. <u>NATURAL GAUGES</u>: Gauge any noticeable increases in gas flow. Guage well @ 5800' and before TOH for logs @ 7954'. 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. LSND to log and run pipe. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses.
- B. BOP TESTING: While drill pipe is in use, the pipe rams will be function tested not less than once each day. The blind rams will be function tested once each trip. The anticipated reservoir is expected to be less than 1300 psi, so the rams will be tested to 1500 psi. The drum brakes will be inspected and tested each tour. All tests, inspections and SPR's will be recorded in the tour book as to time and results.

III. MATERIALS

A. CASING PROGRAM:

CASING TYPE	HOLE SIZE	DEPTH	CASING SIZE	WT. & GRADE
Surface	14-3/4"	+/- 250'	10-3/4"	32.75# H-40
Intermediate	9-7/8"	+/-4108'	7-5/8"	26.4# K-55
Prod. Casing	6-3/4"	+/- 8368'	5-1/2"	17.0# N-80

B. FLOAT EQUIPMENT:

- SURFACE CASING: 10-3/4" notched regular pattern guide shoe. Run (1)
 Standard centralizer on each of the bottom (3) Joints.
- 2. <u>INTERMEDIATE CASING:</u> 7-5/8" cement nose guide shoe with a self-fill insert float. Place float one (1) joint above the shoe and five (5) centralizers, spaced every other joint, starting with the float collar. Place turbulent centralizers, at 120' intervals, starting at 1500' to the surface. Total centralizers (5 regular and 13 turbulent).
- 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 20' marker joint on top of 10 th joint and one above 5100'.

C. <u>CEMENTING</u>:

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

- SURFACE: Use 230sx (313cu.ft.) of class "Type III" with 2% CaCl2 and 1/4# of cello-flake/sk (Yield = 1.39 cu.ft./sk, Weight = 14.5 #/gal.). 125% excess to circulate the surface. WOC 12 hours. Test to 1500#.
- INTERMEDIATE: Lead: 690sx (1439cu.ft.) of class "Premium Lite" 65/35, Type III/Poz with 8% gel and 1/4# cello-flake/sk (Yield = 2.09 cu.ft./sk, Weight = 12.1 #/gal.). Tail: 235sx (326cu.ft.) of class "Type III" with 1/4# cello-flake/sk (Yield = 1.39 cu.ft./sk, Weight = 14.5#/gal.). 100% excess in lead and tail to circulate to surface. Total volume = 1765 cu.ft. WOC 12 hours. Run a temperature survey after 8 hours if cement is not circulated.
- 3. PRODUCTION CASING: 50 sks Scavenger of Premium Light HS + 1% FL-52 + .2% CD-32 + .25 #/sk Celloflake + 4% Phenoseal + .1% R3. (Weight = 11 #/gal.). Cement Slurry: 275 sx (546 ft³) of Premium Light HS + 1% FL-52 + .2% CD-32 + .25 #/sk Celloflake + 4% Phenoseal + .1% R3. (Yield = 1.99 ft³/sk, Weight = 12.5 #/gal.). Displace cement at a minimum of 8 BPM. Use 50% excess in calculation to raise cement 100' into intermediate casing. Total volume 546ft³. WOC 12 hours.

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 not circulated to surface.

B. PRESSURE TEST

1. Pressure test 7 5/8" & 5-1/2" casing to 3300# 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

- <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 bottom joint. Isolate Dakota w/ production packer containing 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.

John C. Thompson

Engineer

waish Engineering a Production

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical Mesaverde/Dakota BOP setup

