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At proposed Prod. Zone JUL 2000 Sec. 9, T31N, R6W Sec. 9, T31N, R6W Loistance in Miles and direction from nearest town or post office* 24 miles NE of Blanco, NM Solistance from proposed Location to nearest drig unit line, if any) OR Lease Line, Ft (Also to nearest drig unit line, if any) B. Distance from proposed Location* to nearest well. Drilling, Completed, or applied for on this lease, ft. 19 Proposed depth Drilling, Completed, or applied for on this lease, ft. 13.00' This action is subject to technical and 8168' 21. ELEVATIONS (Show whether DF, RPGREAU purit leaving pursuant to 43 CFR 3186.4) PROPOSED CASING AND CEMENTING PROGRAM SIZE OF BOLE SIZE OF BOLE SIZE OF BOLE SIZE OF CASING WEIGHT/FOOT SETTING DEPTH OUANTITY OF CEMENT 14-3/4" 10-3/4" 32.75# 4500' -625 cu. ft. Type III w/ 2% CaCl 2 9-7/8" 7-5/8" 26.4# 17.0# 4868' -575 cu. ft. Prem. Lite HS w/ additives Williams Production Company proposes to drill a vertical well to develop the Mesa Verde and Delecte formatics and Delected	At Surface 1660' FSI	accordance w & 2625' FFI	ith any State requirements.*)		
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Williams Production Company proposes to drill a vertical well to develop the Mesa Verde and Dakota formations and l	6-3/4"	5 1/2"	† 		
Williams Production Company proposes to drill a vertical well to develop the Mesa Verde and Dakota formations at the above described location in accordance with the attached drilling and surface use plans	0 3/ +	J-1/2	17.0#	+/- 8168'	~575 cu.ft.Prem. Lite HS w/ additives
Williams Production Company proposes to drill a vertical well to develop the Mesa Verde and Dakota formations at the above described location in accordance with the attached drilling and surface use plans					
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	Williams Production Co	mpany proposes to a	drill a vertical wel	l to develop the Mesa Va	erde and Dakota formations at the
	above described locallor	i in accordance with	ine attachea arill	ing and surface use plar	erde and Dakota formations at the ns. gy. 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 require approximately 600' of new access road (see Pipeline & Well Plats #3 & #4). The well will be accessed by utilizing an existing road that crosses NE/SW, SE/NW, NE/NW sec. 9, SE/SW, SW/SW sec. 4, NW/NW sec. 9, N/2 sec. 8, NE/NE sec. 7, SE/SE sec.6, W/2 sec. 5 all of T31N, R6W, SW/SW sec 32, NE/SE, SE/NE, NE/NE sec.31, SE/SE, NE/SE, SE/NW & NW/NW o

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug b	ack give data on procent modulation		
If proposal is to drill or deepen shectionally, give pertinent data or Subsurface locations and me	assured and true vertical depths. Give blowout preve	nter program, if any.	
SIGNED	TILE John C. Thompson, Agent	DATE	3/5/02
(This space for Federal or State office use)			
PERMIT NO. APPROVAL DA Application approval does not warrant or certify that the applicant holds legal or equitable title to those rich conditions of approval in a provided the applicant holds legal or equitable title to those rich conditions of approval in a provided the applicant holds legal or equitable title to those rich conditions.	ATE_ ights in the subject lease which would entitle the applicant t	to conduct operations thereo	on.
		JUL	2 9 2002
*See Instructio	ns On Reverse Side		

Title 18 U.S.C. Section 1001, makes 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.

NMOCD

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

District IV PO Box 2088, Santa Fe, NM 87504-2088

68:1111

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State of New Mexico Energy, Minerals & Natural Resources Department

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

Form C-102 Revised February 21, 1994 Instructions on back

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

REGISTER ADVESSIONAL

JASON C.

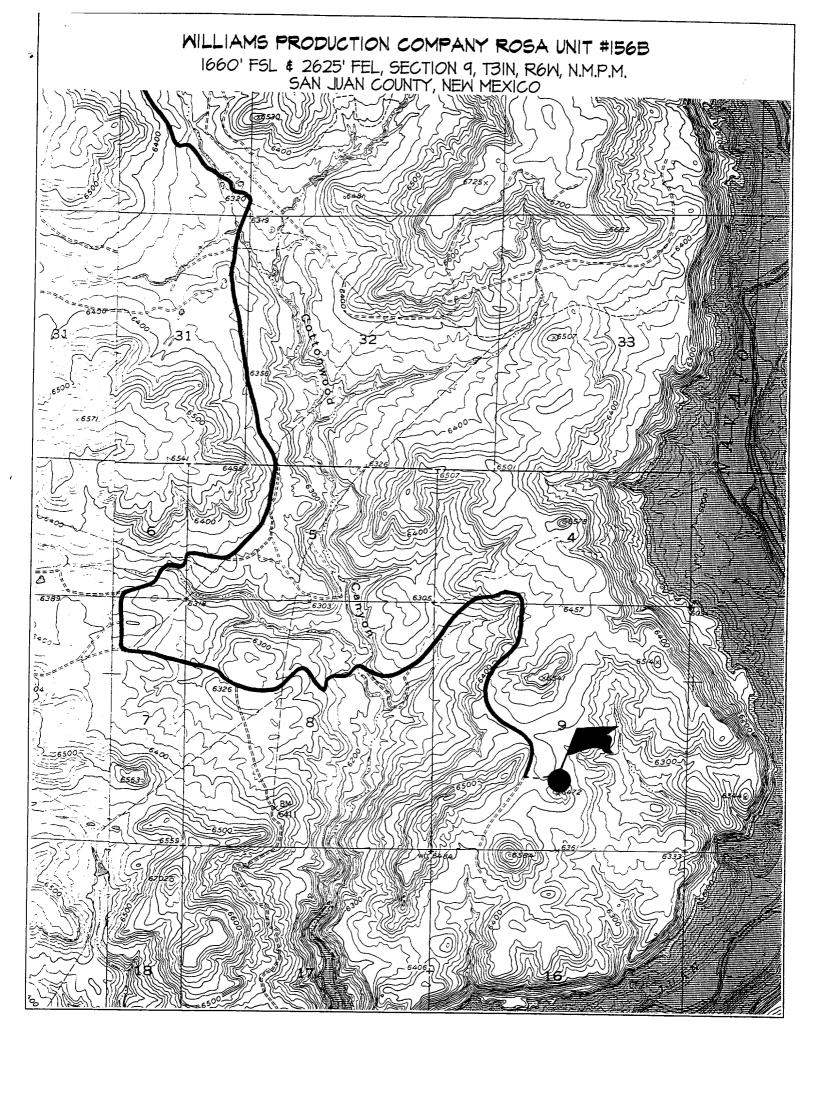
Certificate Number

ROYAMETOR

15269

AMENDED REPORT

			WELL	LOCAT	ION AND	Α C	CREAGE DED	ICA	TION PL	_AT		
36-045-3/0// 72319 -				I	³ Pool Name 599 Blanco Mesaverde — Basin Dakota							
Property	<u> </u>	1011				nects	y Name	MES		Basır		
1703	33						UNIT				- Wi	ell Number 156B
'OGRID	No.						Name				9 5	levation
12078	32			WILLI			CTION COMP	ANY				6386
UL or lot no.	Section	T			¹⁰ Surfa		Location					
J	Section	Township	Range	Lot Idn	Feet from		. North/South line		eet from the	East/We	st line	County
	9	31N	6W		1660		SOUTH		2625	EΑ	ST	SAN JUAN
UL or lot no.	Section	11 E	ottom		ocation			Fr	om Surf	ace		-L
50 0. 100 NO.	Section	TOWNSHIP	Range	Lot Idn	Feet from	the	North/South line	Fe	eet from the	East/We	st line	County
12 Dedicated Acres					¹³ Joint or Inf	6111	¹⁴ Consolidation Code	15 0				
	320	.0 Acres	6 - (E,	/2)	SOURCE OF THE	111	Consulidation Code	- Ord	er No.			
. 00 . 0					JU SF	/L 2	02 567 18765	. 00 .	Signature John C Printed N Agent/ Title 3/4/02 Date	Thom Name Engine	pson er	ICATION location d from field by me or undersame is true
5280	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A	un ara				, Br 2625'	5280	Date of Signature a	Surverand Seal o	y: JULY	<u>′ 31, 2001</u>





WILLIAMS PRODUCTION COMPANY

OPERATIONS PLAN

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

DATE:

3/4/2002

WELL NAME:

Rosa Unit 156B

San Juan, NM

FIELD:

Basin Blanco MV/DK

SURFACE LOCATION:

NW/4 SE/4 Sec. 9-T31N-R6W

SURFACE:

BLM

ELEVATION:

6386' GR

MINERALS:

BLM

LEASE #

SF-078765

MEASURED DEPTH:

8168

I. **GEOLOGY:**

Surface formation - San Jose

A. **FORMATION TOPS:** (KB)

	<u>MD</u>		<u>MD</u>
Ojo Alamo	2368'	Mancos sh	5973°
Kirtland sh	2478'	Gallup ss	7008
Fruitland cl	2993'	Greenhorn Is	7728'
Pictured Cliffs ss	3198'	Graneros sh	7788 [°]
Lewis sh	3488'	Dakota ss	7918'
Cliff House ss	5403'		7710
Menefee	5448'		
Point Lookout ss	5668'	Total Depth	8168'

- B. <u>LOGGING PROGRAM:</u> IND/GR 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. 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. <u>BOP TESTING:</u> 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"	+/- 500'	10-3/4"	32.75# H-40
Intermediate	9-7/8"	+/-3673'	7-5/8"	26.4# K-55
Prod. Casing	6-3/4"	+/- 8168'	5-1/2"	17.0# 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.
- 2. INTERMEDIATE CASING: 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. PRODUCTION CASING: 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. CEMENTING:

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

- 1. <u>SURFACE:</u> Use <u>460sx</u> (625cu.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#.
- 2. INTERMEDIATE: Lead: 595sx (1242cu.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: 240sx (335cu.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 = 1577 cu.ft. WOC 12 hours. Run a temperature survey after 8 hours if cement is not circulated.
- 3. PRODUCTION CASING: 30 sks Scavenger of Premium Light HS + 1% FL-52 + .2% CD-32 + .25 #/sk Celloflake + 4% Phenoseal + .3% R3. (Weight = 11 #/gal.). Cement Slurry: 290 sx (575 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 575 ft³. 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. <u>RUNNING TUBING</u>

- <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. Will run a production packer with 5 Seal Units to isolate Dakota from Mesaverde formation. 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

Walsh Engineering & Production Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup

