FORM 3160-3 (December 1990)

APPROVED BY

(This space for Federal or State office use)

CONDITIONS OF APPROVAL, IF ANY

24

SIGNED

SUBMIT IN TRIPLICATE* (Other instructions on

reverse side)

Form approved. Budget Bureau No. 1004-0136

Expires December 31, 1991

UNITED STATES

	DEPARTMEN	5. LEASE DESIGNATION AND SERIAL NO. $SF-078771$					
	BUREAU OF						
APPLICAT	ION FOR PER	RMIT TO DRI	LL, DEEPEN, C	R PLUG BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
a TYPE OF WORK	DRILL	DEEPEN	 		7. UNIT AGREEMENT NAME		
. TYPE OF WELL	<u>e.</u> _	<u></u>	1		Rosa Unit		
. The of Wille					8. FARM OR LEASE NAME, WELL NO		
OIL WELL	GAS X	OTHER	SINGLE ZONE	MULTIPLE ZONE	5 B		
NAME OF OPERATOR Will	iams Production	n Company			9. API WELL NO 30-039-26927		
ADDRESS OF OPERATOR				· · ·	10. FIELD AND POOL OR WILDCAT		
o Walsh Enginee	ring 7415 E. M	ain St., Farming	gton, NM 87402 (505) 327-4892	Blanco Mesa Verde DK		
c o Walsh Engineering 7415 E. Main St., Farmington, NM 87402 (505) 327-4892 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At Surface 715' FNL and 1835' FEL					11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
t proposed Prod. Zone				N. A. C.	В Sec. 26, T31N, R6W		
DISTANCE IN MILES AN 24.5	d direction from Nea miles NE of Blo		DFFICE*		12. COUNTY OR PARISH Rio Arriba NM		
	SED* LOCATION TO NEA		16. NO. OF ACRES IN LEA	17	NO. OF ACRES ASSIGNED TO THIS WELL		
OR LEASE LINE, FT.(Also 715'	to nearest drlg, unit line, if a	ny)	259	60.00	320 DELLINE POPERATIONS AUTHORIZED AF		
DISTANCE FROM PROP	SED LOCATION* TO NEA	REST WELL,	19. PROPOSED DEPTH	1 1 1 X 6 3 / 31 11 (N X 1 A	ROTARY SELECTION OF COMPLIANCE WITH ATTAC		
DRILLING, COMPLETED	OR THY EDENIED OF THE	Subject to tech	Ale CER SHARES	ļ	Rotargeneral PEDITREMENTS"		
ELEVATIONS (Show whet	rer Dan Ratio Grand Company Co	remembers to 43 C	43 CFR 3165.45 (). FR 3165.4.	31	22. APPROX DATE WORK WILL START*		
6309					April 1, 2002		
3.			IG AND CEMENTING				
SIZE OF HOL		E OF CASING 3/4"	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT		
		- ' '	32.75# 26.4#	+/- 250'	~313 cu.ft. Type III with 2% CaCl 2		
				+/- 3606′	~1195 cu.ft.65/35 poz & ~354 cu.ft.Type		
6-3.	4" 5-1	2"	17.0#	+/- 8051'	~546 cu.ft.Prem. Lite HS w: additives		
bove described his location has ubmitted directl his APD also is pproximately 60	location in acco been archaeold y to your office. serving as an a 10' on new road.	rdance with the ogically survey pplication to c The new acco	ne attached drillin ved by Independer obtain BLM road ess will orginate j	g and surface use plar nt Contract Archaeolog and pipeline right-of-w from the Rosa Unit #53	gy. Copies of their report have been ways. This well will require Y well pad which is accessed by an		
IW NW of section above space description	on 25. T32N, R6 ribe proposed proc	W. GRAM: If proposal is to	o deepen or plug back, give o	31N, R6W, where it journal and particular on present productive zone and particular depths, Give blowout			

*See Instructions 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.

TITLE

APPROVAL DATE Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon

TITLE John C. Thompson, Ageni DATE

3/22/00

District I - p0 dox 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 2038, Santa Fe, NM 87504-2088

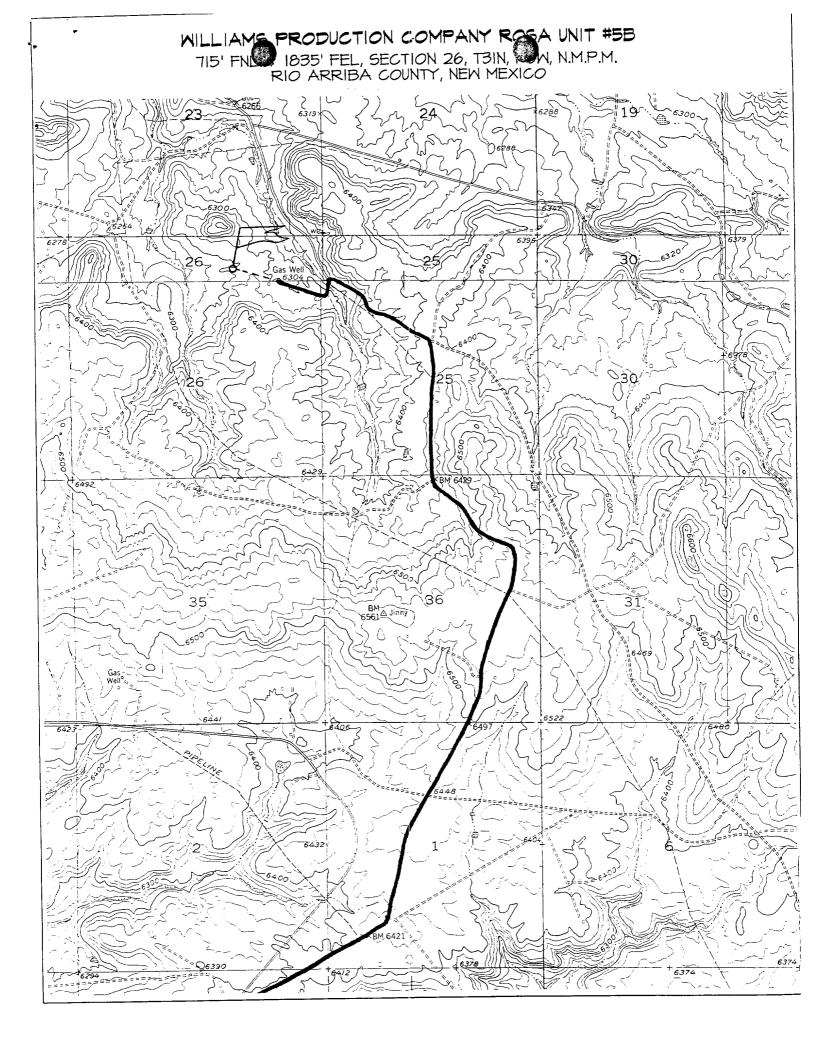
State of New Mexico Energy, Minerals & Natural Resources Departm

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

AMENDED REPORT

	WELL	LOCATI	ON AND A.C	CREAGE DEDI				
'API Number	6927 7	*Pool Code 2319 / 7		Blanco M	³Pool Nami esaverde /		Dakota	e e
'Property Code 17033	Property Name ROSA UNIT						*Well Number 5B	
'0GRID No. 120783	*Operator Name WILLIAMS PRODUCTION COMPANY						°Elevation 6309'	
120,00			¹⁰ Surface	Location				
U. or lot no. Section 8	Township Range	Lot Idn	Feet from the 715	North/South line	Feet from the	East/Wes		RIO ARRIBA
UL or lot no. Section	11 Bottor Township Range	Hole L	ocation I	f Different North/South line	From Surf	ace East/We	st line	County
12 Ded;cated Acres	Acres (E/2)	¹³ Joint or In	ifill 14 Consolidatio	on Code ¹⁵ Orden No.				
NO ALLOWABLE W	THE ACCION	JED TO TH	IS COMPLETI	ON UNTIL ALL EEN APPROVED	INTERESTS H BY THE DIVI	HAVE BE	EN CON	SOLIDATED
		5278.68 	115	18351	I hereby certified and constitution of the series of the s	reify that the polete to the reify that the first that the first that the first that the first that the post of the best of the first that the post of the post of the first that the post of the post of the first that the post of the post of the first that the post of th	Thomp CERTI The well location of actual and that the my belief.	FICATION ion shown on this plat al surveys made by me a same is true and





WILLIAMS PRODUCTION COMPANY

OPERATIONS PLAN

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

DATE: 1/28/2002

WELL NAME: Rosa Unit 5B FIELD: Basin Blanco MV/DK

SURFACE LOCATION: NW/4 NE/4 Sec. 26- T31N-R6W SURFACE: BLM

La Plata, CO

ELEVATION: 6309' GR MINERALS: BLM

LEASE # SF-078771

MEASURED DEPTH: 8051'

Surface formation - San Jose

A. FORMATION TOPS: (KB)

SKMATION TOTAL (123)	<u>MD</u>		<u>MD</u>
Ojo Alamo	2371	Mancos sh	5926'
Kirtland sh	2481	Gallup ss	6886'
Fruitland cl	2881	Greenhorn Is	7621'
Pictured Cliffs ss	3131'	Graneros sh	7671'
Lewis sh	3446'	Dakota ss	7801'
Cliff House ss	5316'		
Menefee	5356'		
Point Lookout ss	5546'	Total Depth	8051'

- 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	<u>DEPTH</u>	<u>CASING SIZE</u>	WT. & GRADE
Surface	14-3/4"	+/- 250'	10-3/4"	32.75# H-40
Intermediate	9-7/8"	+/-3606'	7-5/8"	26.4# K-55
Prod. Casing	6-3/4"	+/- 8051'	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. <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. 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>230sx</u> (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#.
- 2. <u>INTERMEDIATE:</u> Lead: <u>575sx</u> (1195cu.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: <u>255sx</u> (354cu.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 <u>circulate to surface</u>. Total volume = 1549 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 (546 ft³) of Premium Light HS + 1% FL-52 + .2% CD-32 + .25 #/sk Celloflake + 4% Phenoseal + .3% 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 569ft³. WOC 12 hours.

Walsh Engineering a Production

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup

