SUBMIT IN TRIPLICATE* (Other instructions on Form approved. Budget Bureau No. 1004-0136

UNITED STATES
DEPARTMENT OF THE INTERIOR
DUDEAU OF LAND MANAGEMENT

UNITED STATES				reverse side)	Expires December 31, 199	Expires December 31, 1991	
		NT OF THE I			5. LEASE DESIGNATION AND SERIAL N	0.	
	BUREAU OF	LAND MANA	SEMENT		SF- 078767		
APPLICAT	ION FOR PE	RMIT TO DRII	I DEEPEN O	R PLUG BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAM	Œ	
la. TYPE OF WORK	DRILL X	DEEPEN	, DEE! E!, C	TOO BAOK	7. UNIT AGREEMENT NAME		
1b. TYPE OF WELL	2111-21	522. EN_			Rosa Unit		
/					8. FARM OR LEASE NAME, WELL NO.		
OIL WELL	$GAS_{\overline{\mathcal{X}}}$	OTHER	$\frac{\mathbf{single}_{X}}{\mathbf{zone}}$	MULTIPLE ZONE	1716		
2. NAME OF OPERATOR Willi	iams Productio	n Company, LL	С		9. API WELL NO. 30-039-27	20111	
3. ADDRESS OF OPERATOR					10. FIELD AND POOL OR WILDCAT	2 7 /	
c/o Walsh Engineer	ring 7415 E. M	lain St., Farming	ton, NM 87402 (.	505) 327-4892	Blanco Mesa Verd	'e	
4. LOCATION OF WELL (At Surface 720'	Report location clearly a FSL and 1265		State requirements.*)		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
At proposed Prod. Zone					ρ Sec. 6. T31N, R5W	7	
714 DISTANCE IN MILES ANI	FNL and 330'		77.07.4				
	tiles NE of Blan		FICE*		12. COUNTY OR PARISH Rio Arriba	13. STATE NM	
J15 DISTANCE FROM PROPO OR LEASE LINE, FT. (Also			16. NO OF ACRES IN LEAS	E	17. NO. OF ACRES ASSIGNED TO THIS WELL		
720'	to nearest ong. unit me, n	any)	2518.04		DRILLING OPERATIONS	C AUTHODIZES	
18 DISTANCE FROM PROPO DRILLING, COMPLETED, 1500	OR APPLIED FOR ON TE)'	IIS LEASE, FT.	19. PROPOSED DEPTH 69	87' (measure depth)	20. ROTARY OR CAMBENTO SUBSTITUTION OF COMPLIA "GENERAL REQUIREME	NCE WITH ATTACHE	
21 ELEVATIONS (Show wheth	er DF, RT, GR pto Ledur	en is subject to techrli al review pursuant to lal pursuant to 43 CFI	43 CFR 3165.3	- Incompare deputy	22. APPROX DATE WORK WILL START* June 20, 2002		
23.			G AND CEMENTING	PROGRAM	- June 20, 2002		
SIZE OF HOLE	SE	ZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEME		
12-1.			<i>36</i> #	+/- 250'	~180 cu.ft. Type III with 29		
8-3/-	<i>4" 7"</i>		20#	+/- 4824'	~1086cu.ft.65/35 poz & ~3	64 cu.ft.Type 1	
6-1/4	4" 4-1	/2"	10.5#	+/- 4724'-6987'	~101 cu.ft.50/50 poz & ~19	99cu.ft. PL HS	
This location has submitted directly This APD also is of new access roa and Rosa 171C.	ribed location in been archaeologo to your office. serving as an action of the serving as an action of the well will be	in accordance wo ogically surveye application to ob & Well Plats #. e accessed by ut	eith the attached of the day Independen totain BLM road of 3 & #4). This pa tilizing an existin	drilling and surface t Contract Archaeo and pipeline right-o d will also be used	logy. Copies of their report h f-ways. This well will require for directionally drilling the E/NE of section 6, NW/NW. N	? ~1450′ Rosa 41B	
DI ADOLE AD CEDERA							

N ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen of f proposal is to drill or deeper directionally, give pertinent data on subsurface locations	r plug back, give data on present productive zone and proposed new pro and measured and true vertical depths. Give blowout preventer progra	eductive zone. m. if any.
SIGNED SIGNED	TITLE John C. Thompson, Agent DATE	5/23/02
(This space for Federal or State office use)		
PERMIT NO APPRO	DVAL DATE	
Application approval does not warrant or certify that the applicant holds legal or equitable title to	to those rights in the subject lease which would entitle the applicant to conduct of	perations thereon.
CONDITIONS OF APPROVAL, IF ANY:		_
APPROVED BY /S/ David J. Mankiewicz	TITLE DATE	JUN 27
*See Instru	ictions 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.

HOLD C104 FOR DIVERT TONAL SUNVEY

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

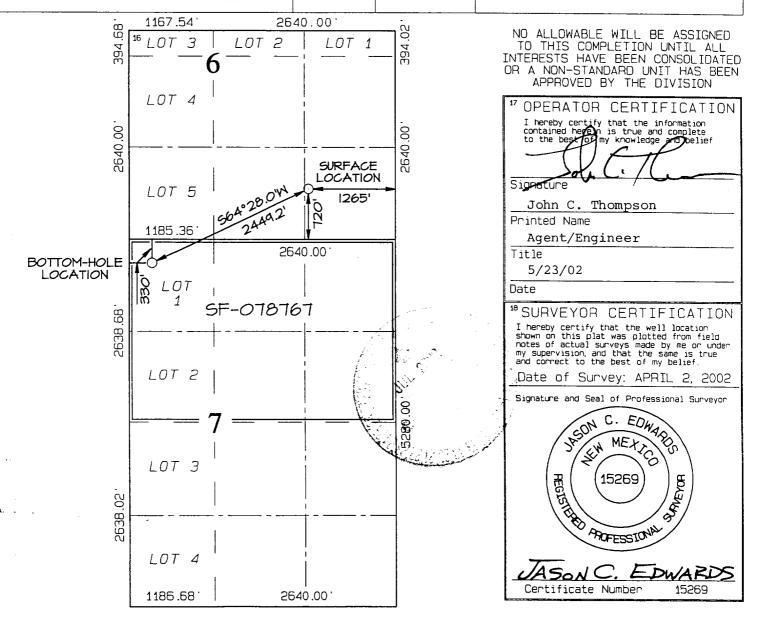
AMENDED REPORT

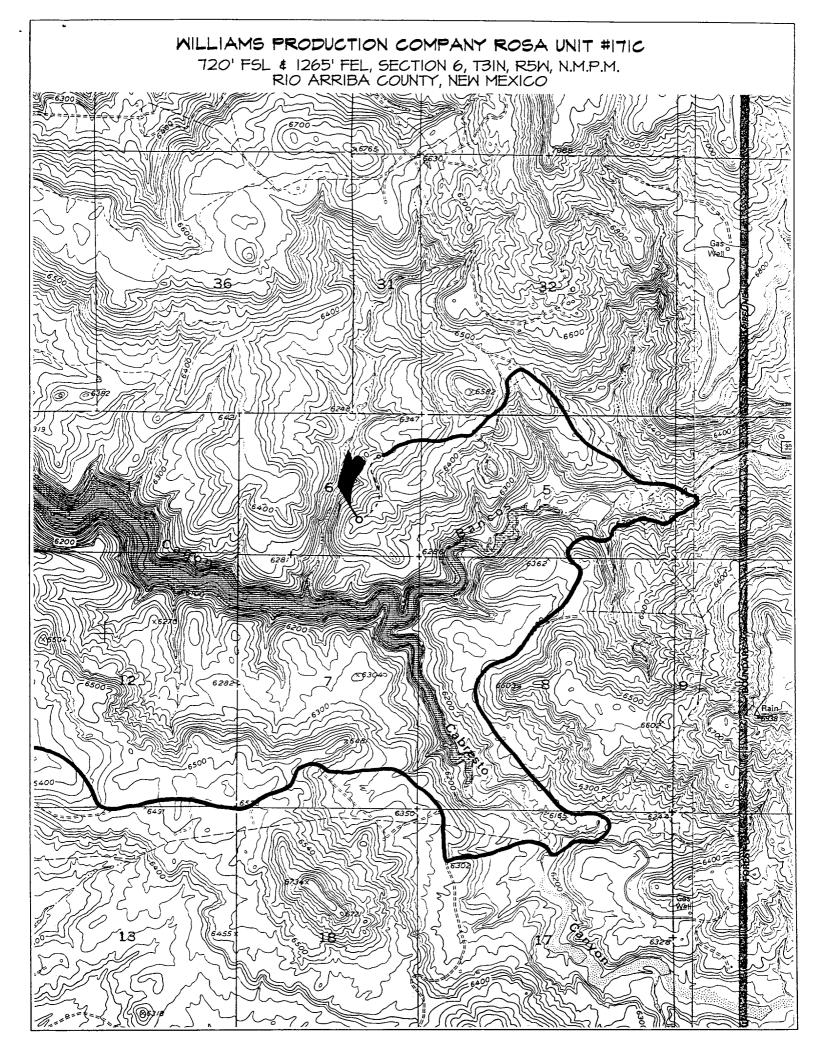
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

District IV PO Box 2088, Santa Fe, NM 87504-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT

30-039-2724	*Pool Code 72319	'Pool Name BLANCO MES	-
Property Code 17033	'Property ROSA		°Well Number 171C
'OGRID No. 120782	'Operator WILLIAMS PRODU		*Elevation 6416
UL or lot no. Section Township	10 Surface Range Lot Idn Feet from the	Location North/South line Feet from the	East/West line County

RIO P 6 31N 5W 720 SOUTH 1265 EAST ARRIBA 11 Bottom Location Different From Surface Hole Τf UL or lot no Range Lot Idr Feet from the North/South line Feet from the East/West line RIÓ C 7 31N 5W NORTH 330 330 WEST ARRIBA 12 Dedicated Acres ¹³ Joint or Infill ¹⁴ Consplidation Code 231.86 Acres - (N/2)







WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE: 5/22/2002 **FIELD:** Blanco MV

WELL NAME: Rosa Unit 171C SURFACE: BLM

LOCATION: SE/4 SE/4 Sec 6-31N-5W **MINERALS:** Fed

Rio Arriba, NM

ELEVATION: 6416' GR **LEASE #** SF-078767

MEASURED DEPTH: 6987'

I. **GEOLOGY:** Surface formation - San Jose

A. FORMATION TOPS: (KB)

	<u>TVD</u>	<u>MD</u>		TVD	<u>MD</u>
Ojo Alamo	2493'	294 7'	Cliff House	5468'	6297
Kirtland	2598'	3089'	Menefee	5513'	6342'
Fruitland	3058'	3711'	Point Lookout	5708'	6537'
Pictured Cliffs	3258'	3981'	Mancos	6038'	6867'
Lewis	3553'	4348'	Total Depth	6158'	6987

- B. <u>LOGGING PROGRAM:</u> DIL from intermediate casing to TD. CNL/FDC over intervals of interest.(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. 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.
- 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 rams will be tested to 1500 psi. The surface and intermediate casing strings will be pressure tested to 1500 psi in conjunction with the BOP test before drilling out cement. 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 (MD)	CASING SIZE	WT. & GRADE
Surface	12-1/4"	250'	9-5/8"	36# K-55
Intermediate	8-3/4"	4824'	7"	20# K-55
Prod. Liner	6-1/4"	4724'-6987'	4-1/2"	10.5# K-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 one Turbulent centralizer on each of the bottom (3) joints and one standard centralizer every (4) joints to the surface casing. Total centralizers = (26) regular and (3) turbulent.
- 3. <u>PRODUCTION CASING:</u> 4-1/2" whirler type cement nose guide shoe with a latch collar on top of 20" bottom joint. Place marker joint above 5630'. Place one positive standoff turbolizer every other joint. Total turbolizers is 34.

C. CEMENTING:

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

- 1. SURFACE: Slurry: 140sx (180 cu.ft.) of "Type III" + 2% CaCl₂ + ¼ # of cello-flake/sk (Yield = 1.39 cu.ft./sk, Weight = 14.5 #/gal.). The 125% excess should circulate cement to the surface. WOC 12 hours. Test csg to 1500psi.
- 2. INTERMEDIATE: Lead: 520sx (1086 ft³) of "Type III" 65/35 poz + 8% gel + ¼ # cello-flake/sk (Yield = 2.09 ft³./sk, Weight = 12.1 #/gal.). Tail: 265x (364 ft³) of class "Type III" + ¼ # cello-flake/sk. (Yield = 1.39 ft³/sk, Weight = 14.5#/gal.). The 100% excess in lead and tail should circulate cement to the surface. Total volume = 1450 ft³. WOC 12 hours. Run a temperature survey after 8 hours if cement is not circulated to the surface. Test csg. to 1500psi.
- 3. PRODUCTION LINER: Scavenger: 30sx of Premium Light HS + 1% FL-52 + .3% CD-32 + 2% KCl (Weight = 11 #/gal). Lead: 50sx (101 ft^3) of Premium Light HS + 1% FL-52 + .3% CD-32 + 2% KCl. (Yield = 2.02 cu.ft./sk, Weight = 12.5 #/gal.). Tail: 100 sx (199 ft^3) of Premium Light HS + 1% FL-52 + .3% CD-32 + 2% KCl + .25 #/sk Celloflake + 4% Phenoseal. (Yield = 2.02 ft^3 /sk, Weight = 12.5 #/gal.). Displace cement at a minimum of 8 BPM. The 30% excess in lead and tail should cover liner top. Total volume 301 ft^3 . 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 is not circulated to surface.

B. PRESSURE TEST

1. Pressure test 7" & 4-1/2" casing to 3300# for 15 minutes.

C. STIMULATION

- 1. Stimulate with approximately 80,000# of 20/40 sand in slick water.
- 2. Isolate Point Lookout with a DBP.
- 3. Perforate the Menefee/Cliff House as determined from the open hole logs.
- 4. Stimulate with approximately 80,000# of 20/40 sand in slick water.
- 5. 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.

John C. Thompson

Engineer

Williams Production Company, LLC Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup

