FORM 3160-3

SUBMIT IN TRIPLICATE*

Form approved

~141 cu.ft.50/50 poz & ~199 cu.ft. PL HS

(December 1990)				(Other instructions on	Bu	dget Bureau No. 1004-0136	;		
		UNITED STAT	ES	reverse side)	Ex	pires December 31, 1991			
	DEPAR	TMENT OF THE	EINTERIOR	in the second se	5. LEASE DESIG	NATION AND SERIAL NO.			
		AU OF LAND MAN	,	*	SF-	078772			
					6. IF INDIAN, AI	LOTTEE OR TRIBE NAME			
APPLICA	TION FO	R PERMIT TO DE	RILL, DEEPEN, O	R PLUG BACK			_		
la. TYPE OF WORK	DRILL	X DEEPEN		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7. UNIT AGREE	MENT NAME			
1b. TYPE OF WELL					Ros	a Unit			
·					8. FARM OR LE	ASE NAME, WELL NO.			
OIL	GAS WELL	X OTHER	SINGLE X ZONE	MULTIPLE ZONE	91 (\mathcal{C}			
2. NAME OF OPERATOR					9. API WELL NO	7- 5-20 -	2100		
		duction Company, 1	LLC	The f		<u>30,039-</u>	2677,		
3. ADDRESS OF OPERATO						POOL OR WILDCAT			
c/o Walsh Engineering 7415 E. Main St., Farmington, NM 87402 (505) 327-4892						Blanco Mesaverde			
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)						11. SEC., T., R., M., OR BLK.			
At Surface 2530' FNL and 2530' FEL						AND SURVEY OR AREA			
At proposed Prod. Zon	e				G Sec	35, T32N, R6W			
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*					12. COUNTY OR		13. STATE		
~27 miles NE of Blanco, NM						Arriba	NM		
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)					17. NO. OF ACRES AS	SIGNED TO THIS WELL			
16		inti inie, ir any)	256	61.86	320 6/2				
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, 19. PROPOSED DEPTH 20.					20. ROTARY OR CABI	ROTARY OR CABLE TOOLS			
		OR ON THIS LEASE, FT.	604	6064'					
1150' 6064' 21. ELEVATIONS (Show whether DF, RT, GR, etc.)					Rotary	TE WORK WILL START*			
6354'						May 30, 2002			
23.		PROPOSED CAS	ING AND CEMENTING	PROGRAM					
SIZE OF HO		SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH		QUANTITY OF CEMENT			
	-1/4"	9-5/8"	36.0#	+/- 500'		Type III with 2% (
8-1	3/4"	7"	20.0#	+/- 3631'	~853 cu.ft.	65/35 poz & ~238	cu.ft.Tvpe Ii		

Williams Production Company, LLC proposes to drill a vertical well to develop the Mesa Verde formation at the above described location in accordance with the attached drilling and surface use plans.

6081'

10.5#

This location has been archaeologically surveyed by Independent Contract Archaeology. 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 $\sim 700'$ of new access road (see Pipeline & Well Plats #3 & #4). The well will be accessed by an existing road that crosses the NE/SW, NW/SE, SW/SE, SE/SE of section 35, SW/SW, SE/SW, NE/SW, SE/NW, NE/NW, NW/NE, NE/NE of section 36, N/2 of section 31 all of T32N, R6W where it joins the main "Rosa Road".

	osal is to deepen or plug back, give data on present productive zone and proposed new possurface locations and measured and true vertical depths. Give blowout preventer programmers	
SIGNED	TITLE John C. Thompson, Agent date	4/23/02
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	
Application approval does not warrant or certify that the applicant holds leg	gal or equitable title to those rights in the subject lease which would entitle the applicant to conduct	t operations thereon.
CONDITIONS OF APPROVAL, IF ANY:	Accistant Field Manager (Minerals)	₩
APPROVED BY /S/ Mark Kells	TITLE DATE	_MAY 2.4
	*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.

District I PO Box 1980, Hobbs, NM B8241-1980

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

'API Number

30-039-26991

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, 1934 Instructions on back Appropriate District Office

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

BLANCO MESAVERDE

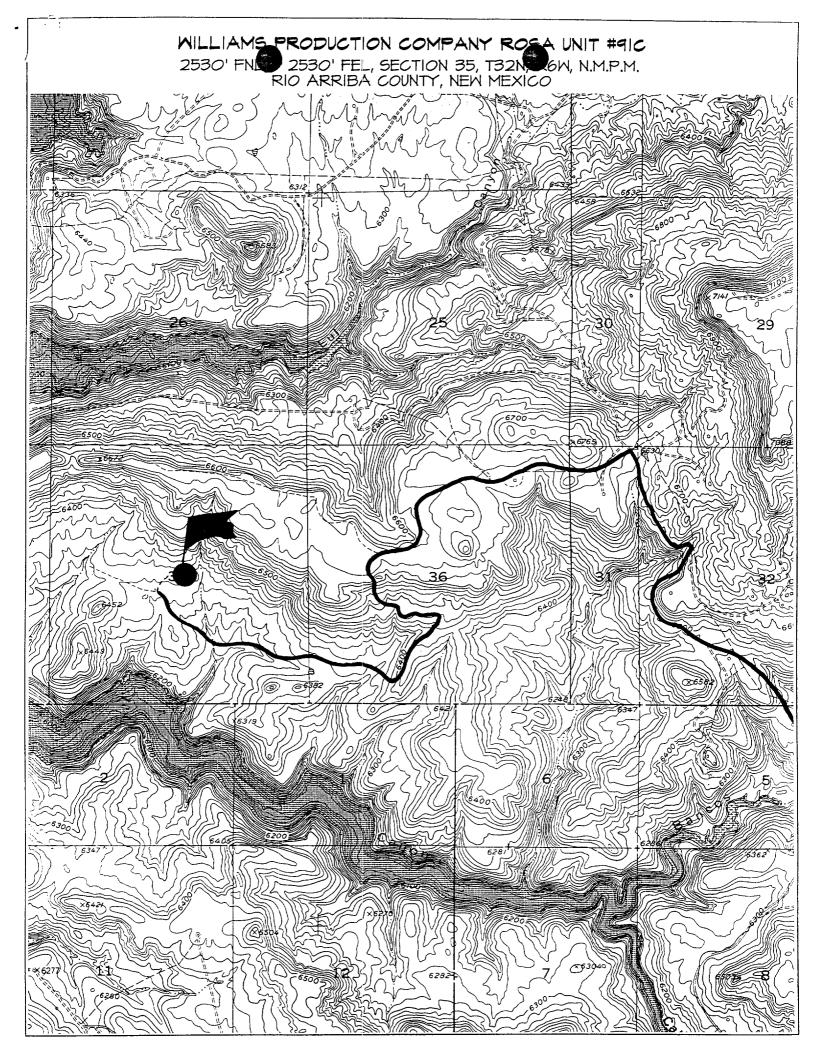
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Pool Code

72319

'Property 1703		Property Name ROSA UNIT						*Well Number			
OGRID 1			*Operator Name								
12078	32		WILLIAMS PRODUCTION COMPANY 5354								
		•			¹⁰ Surface	Location			<u>-</u>		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet f	Feet from the East/W		st line County	
G	35	32N	6W		2530	NORTH	25	2530 EA		ST	RIO Arriba
II on les es			ottom	Hole l	_ocation I			rom Surface			
UL or lat no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the East/W		East/Wes	st line	County
12 Dedicated Acres		0.0 Acre	es – (I	 E/2)	13 Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No	o.	<u> </u>		
NO ALLOW		UH A	SSIGNE NON-ST	D TO THE ANDARD	UNII HAS BE	L ON UNTIL ALL EEN APPROVED	BA THE	DIVIS	SION		
2321.28. Sir : 3 137		2.74		35		7.82 2530' 18772	23.92. 18 18	ignature John Crinted Agent/ itle 4/22/Cate SURVE I hereby cate Shown on tandown on tandown or	Cartify the dest of my E. Thom Name Yengine 22 EYOR Cartify that his plat we call a survey and Seal of the tree of the control of the co	pson er CERTIF t the well was plotte eys made i that the s est of my MARCH F Profess: EDWAR 269	FICATION I location d from field by me or under ame is true belief. H 26, 2002 ional Surveyor
	2691	. 48			2698	i 5. 76 '		JASO	icate Nu	ED	WARDS 15269



III. MATERIALS

A. CASING PROGRAM:

CASING TYPE	HOLE SIZE	DEPTH (MD)	CASING SIZE	WT. & GRADE
Surface	12-1/4"	500'	9-5/8"	36# K-55
Intermediate	8-3/4"	3631'	7"	20# K-55
Prod. Liner	6-1/4"	3531'-6081'	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. PRODUCTION CASING: 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. <u>SURFACE:</u> Slurry: <u>255sx</u> (352 cu.ft.) of "Type III" + 2% CaCl₂ + ½ # 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: 410sx (853 ft³) of "Type III" 65/35 poz + 8% gel + 1% CaCl₂ + ½ # cello-flake/sk (Yield = 2.09 ft³./sk, Weight = 12.1 #/gal.). Tail: 170x (238 ft³) of class "Type III" + 1% CaCl₂ + ½ # 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 = 1091 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: 70sx (141 ft³) of Premium Light HS + 1% FL-52 + .3% CD-32 + 2% KCl. (Yield = 2.02 cu.ft./sk, Weight = 12.5 #/gal.). Tail: 100sx (199 ft³) of Premium Light HS + 1% FL-52 + .3% CD-32 + 2% KCl + .25 #/sk Celloflake + 4% Phenoseal. (Yield = 2.02 ft³/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 340ft³. WOC 12 hours.

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

Attachment to Drilling Technical Program

Typical BOP setup

