. /	UNITED STAT RTMENT OF THE EAU OF LAND MAI	E INTERIOR	SUBMIT IN TRIPLICAT: (Other instructions reverse sid	on Budget Bureau Expires Decen 5. LEASE DESIGNATION AN SF- 078766	1 No. 1004-0136 aber 31, 1991 JID SERLAL NO.
APPLICATION FO	R PERMIT TO D	RILL. DEEPEN	, OR PLUG BACK	6. IF INDIAN, ALLOTTEE OR	R TRIBE NAME
Ia TYPE OF WORK DRILL OIL OIL WELL WELL WELL	DEEPEN	SINGLE	MULTIPI ZOI	7. UNIT AGREEMENT NAME ROSA Unit 8. FARM OR LEASE NAME,	
NAME OF OPERATOR		ZONE		9. API WELL NO.	
3 ADDRESS OF OPERATOR C O Walsh Engineering 74 4 LOCATION OF WELL (Report location)		nington, NM 8740		30-039-3 10. FIELD AND POOL OR W. Blanco Me 11. SEC, T, R, M, OR BLK. AND SURVEY OR AREA L. Sec. 25, T3	ndcat sa Verde/DK
14. DISTANCE IN MILES AND DIRECTION	EDOM NEADEST TOWN OF DO	ST OFFICE*		12 COUNTY OR PARISH	13. STATE
	of Blanco, NM	STOPPICE"	· · · · · · · · · · · · · · · · · · ·	Rio Arriba	
15 DISTANCE FROM PROPOSED* LOCAT OR LEASE LINE, FT. (Also to nearest drig. $50'$		16. NO. OF ACRES IN	EASE 2552.71	17. NO. OF ACRES ASSIGNED TO 372.37 320 W/A - 1)K	THIS WELL
18 DISTANCE FROM PROPOSED LOCATION DRILLING, COMPLETED, OR APPLIED 1300'		19. PROPOSED DEPTH		20. ROTARY OR CABLE TOOLS NO OPERATIONS AUTH	IODITED AD-
and appeal purauant SIZE OF HOLE 14-3:4"	ursuant to 43 CFR 3 to 43 CFR 9869.4A SIZE OF CASING 10-3/4"	SING AND CEMENT WEIGHT/FOOT 32.75#	ING PROGRAM SETTING DEPTH +/- 250'	~313 cu.ft. Type II	1002 Y OF CEMENT I w/ 2% CaCl ₂
9-7/8" 6-3/4"	7-5/8" 5-1/2"	26.4# 17.0#	-/- 3687' -/- 8117'	· · · · · · · · · · · · · · · · · · ·	poz & ~344 cu.ft.Type .ite HS w/ additives
Williams Production Comabove described location This location has been are submitted directly to your This APD also is serving a 1150' of new access roa that runs in the through the section 36 all of T31N. Reserved to the contract of th	in accordance with chaeologically survention office. as an application to the SESE, SW/SE of the SESE of the SW where it joins the secondary survey.	the attached dri veyed by Independ o obtain BLM rod Well Plats #3 & # f section 26. NW he main "Rosa Ro	lling and surface use dent Contract Archae and pipeline right 4). The well will be a NE, NE/NE of section ad".	plans. Pology. Copies of their Pof-ways. This well will Pocessed by utilizing an Pocessed NW/NW, NE/NW	report have been require existing road NW/NE of
IN ABOVE SPACE DESCRIBE PROPO If proposal is to drill or deepen directional 24.		rface locations and measure	d and true vertical depths. Give b	owout preventer program, if any.	······
SIGNED On	<u> </u>	TITLE	John C. Thompson, .	Ageni date	3/20/02
			· 		• •
(This space for Federal or State office use) PERMIT NO Application approval does not warrant or ce	tify that the applicant holds legal of	APPROVAL DATE_	n the subject lease which would entitle	the applicant to conduct operations thereo	200
PERMIT NO Application approval does not warrant or cer	id J. Mankiewicz	or equitable title to those rights i	n the subject lease which would entitle AFM On Reverse Side		on. 3/02

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 PC Box 2088, Santa Fe, NM 87504-2088

'API Number

State of New Mexico Energy, Minerals & Natural Resources Department

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

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

Pool Name

AMENDED REPORT

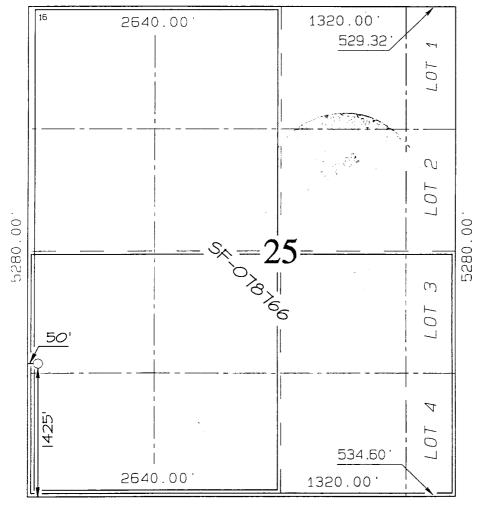
WELL LOCATION AND ACREAGE DEDICATION PLAT

30-039-269	62 72319 - 71599	Blanco M	esaverde -	Basin Dakota	3
*Property Code 17033	³Proper	Property Name ROSA UNIT			1 Number .60B
'OGRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY				evation 410
	¹⁰ Sunface	Location			
UL or lot no. Section Townshi	o Range Lot Idn Feet from the	North/South line	Feet from the	East/West line	County

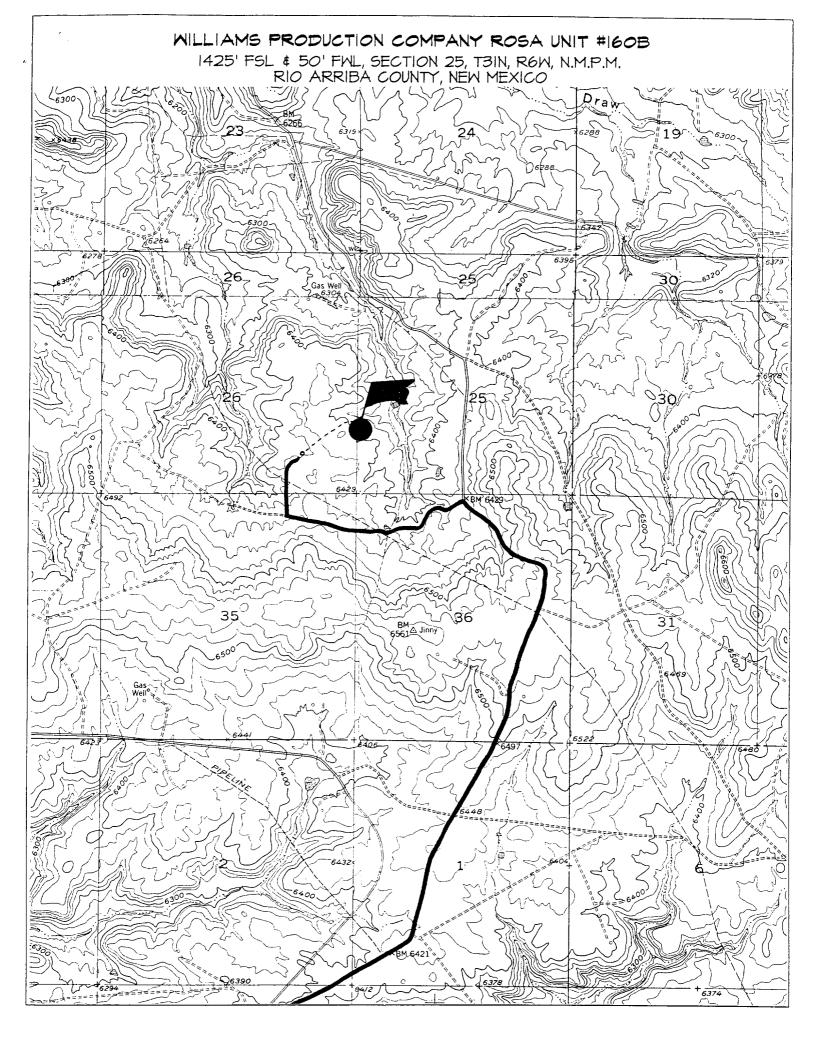
Pool Code

RIO 25 31N | 6W | 1425 SOUTH 50 WEST ARRIBA ¹¹Bottom Hole Location If Different From Surface UL or lot no Section Range Lot Idn Feet from the North/South line Feet from the East/West line County 12 Dedicated Acres ¹³ Joint or Infill ¹⁴ Consolidation Code ¹⁵ Order No. 272.32 Acres (S/2) - MV320.00 Acres (W/2) - DK

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



112 017101017
17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and com <u>plet</u> e
to the best of my knowledge and belief
Signature
<u>John</u> C. Thompson
Printed Name
Agent/Engineer
Title
3/18/02
Date
18 SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Survey Date: FEBRUARY 14, 2002
Signature and Seal of Professional Surveyor
SELLY MEXTO
ME V ME V
3/26/00/
(45050) -
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(S) ADVIOLATION AND AND AND AND AND AND AND AND AND AN
WESSIO.
TAS IC FEMALES
Certificate Number 15269
celetiticate Magneti. 13508





WILLIAMS PRODUCTION COMPANY

OPERATIONS PLAN

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

DATE: 3/18/2002

WELL NAME: Rosa Unit 160B FIELD: Basin Blanco MV/DK

SURFACE LOCATION: NW/4 SW/4 Sec. 25-T31N-R6W SURFACE: BLM

Rio Arriba, NM

ELEVATION: 6410' GR MINERALS: BLM

LEASE # SF-078766

MEASURED DEPTH: 8117'

I. <u>GEOLOGY:</u> Surface formation - San Jose

A. FORMATION TOPS: (KB)

	<u>MD</u>		<u>MD</u>
Ojo Alamo	246 7'	Mancos sh	5997
Kirtland sh	2602'	Gallup ss	6977'
Fruitland cl	2987'	Greenhorn ls	7697'
Pictured Cliffs ss	3212'	Graneros sh	7742'
Lewis sh	3527'	Dakota ss	7867'
Cliff House ss	5382'		
Menefee	5432'		
Point Lookout ss	5632'	Total Depth	8117'

- B. <u>LOGGING PROGRAM:</u> DIL from TD to the Intermediate Casing Shoe. CNL/FDC over intervals of intrest (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. 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"	+/-3687'	7-5/8"	26.4# K-55
Prod. Casing	6-3/4"	+/- 8117'	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 <u>circulate the surface</u>. WOC 12 hours. Test to 1500#.
- 2. <u>INTERMEDIATE</u>: Lead: <u>595sx</u> (1240cu.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>245sx</u> (344cu.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 = 1584 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 + .3% CD-32 + 2% KCl + .25 #/sk Celloflake + 4% Phenoseal + .3% R3. (Weight = 11 #/gal.). Cement Slurry: 230 sx (454 ft³) of Premium Light HS + 1% FL-52 + .3% CD-32 + 2% KCl + .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 20% excess in calculation to raise cement 100' into intermediate casing. Total volume 454 ft³. WOC 12 hours.

Williams Production Company, LLC

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup

