

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

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C-101
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUG BACK, OR ADD A ZONE

¹ Operator Name and Address. Williams Production Company c/o Walsh Engineering 7415 E. Main Street Farmington, NM 87401		² OGRID Number 120782
⁴ Property Code 17033		³ API Number 30 - 0 39-2677
⁵ Property Name Rosa Unit		⁶ Well No. 32B

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	21	31N	6W	sw ne	1900'	North	1760'	East	Rio Arriba

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
⁹ Proposed Pool 1 Blanco Mesaverde						¹⁰ Proposed Pool 2 Basin Dakota			

¹¹ Work Type Code N	¹² Well Type Code M	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 6320'
¹⁶ Multiple Yes	¹⁷ Proposed Depth 8652 8057'	¹⁸ Formation Dakota	¹⁹ Contractor Aztec Well Service	²⁰ Spud Date When Permitted

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
14-3/4"	10-3/4"	32.75 ppf	500'	450 sx	Surface
9-7/8"	7-5/8"	26.4 ppf	3652'	570 sx & 270 sx	Surface
6-3/4"	5-1/2"	17.0 ppf	8057'	300 sx & 100 sx	~ 3500'

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Williams proposes to drill a vertical well w/ a 14-3/4" surface hole w/ water & benex to approx. 500' and set 10-3/4", 32.75#, H-40 casing, cement to surface w/ ~ 450 sx (225 cu.ft.) of Type III, w/ 2% CaCl2 & 1/4# of CF. Will then drill a 9-7/8" hole to approx. 3652' w/ clear water & Benex. and set 7-5/8", 26.4#, K-55 casing, cement w/ 570 sx (1208 cu.ft.) of 65/35 Type III/Poz w/ 8% gel, & 1/4#/sx CF. Tail w/ 270 sx (376 cu.ft.) of Type III w/ 1/4#/sx CF. Cement volumes calculated to circulate cement to surface. Will then drill 6-3/4" hole to TD @ approx 8057' w/ air. Run open hole surveys. Set 5-1/2", 17#, N-80 casing and cement w/ 300 sx (414 cu.ft.) of 50/50 Poz/Class "H" w/ 4% gel, 2% KCl, 0.2% CD-32, 4.0% Phenoseal, 0.6% FL-50 & 1/4#/sx CF. Tail w/ 100 sx (150 cu.ft.) of Class "H" w/ 35% silica flour, 1.5% FL-62, 0.3% CD-32, 0.2% A-2 & 1/4# CF. Cement volume calculated to bring TOC to approx. 3500'. After 10-3/4" surface is set a 2M (double ram) blowout preventer will be installed & pressure tested to 1500 psi. A 2" kill line & 2" line to a choke manifold will also be installed.

Will test the Dakota & Mesaverde through perforated casing. Will fracture stimulate both Dakota & Mesaverde, the DK/MV zones will be isolated w/ a RBP as well as the LLO & Menefee/CH zones. If productive, the Dakota will be produced thru 2-1/16" tbg w/ a production packer isolating the Dakota from the Mesaverde. The Mesaverde, if productive, will be produced thru 2-3/8" tbg.

Geologic Tops: Ojo Alamo - 2317', Kirtland - 2442', Fruitland - 2877', Pictured Cliffs - 3177', Lewis - 3487', Cliff House 4992', Menefee - 5357', Point Lookout - 5622', Mancos 5892', Gallup 6917', Greenhorn - 7642', Graneros - 7697', Dakota - 7807'

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name:

John C. Thompson

Title:

Agent / Engineer

Date:

7/3/01

Phone:

505-327-4892

OIL CONSERVATION DIVISION

Approved by:

Title:

DEPUTY OIL & GAS INSPECTOR, DIST. 3

Approval Date:

JUL - 2 2001

Expiration Date:

JUL - 2 2002

Conditions of Approval:

Attached ☐

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 PO Drawer 00, Artesia, NM 88211-0719

District III
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-26971		*Pool Code 72319 / 71599		*Pool Name Blanco Mesaverde / Basin Dakota	
*Property Code 17033		*Property Name ROSA UNIT			*Well Number 328
*GRID No. 120782		*Operator Name WILLIAMS PRODUCTION COMPANY			*Elevation 6320'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	21	31N	6W		1900	NORTH	1760	EAST	RIO ARriba

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

*Dedicated Acres N/2 320	*Joint or Infill I	*Consolidation Code U	*Order No.
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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

	<p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p>Signature: <i>John C. Thompson</i></p> <p>Printed Name: John C. Thompson</p> <p>Title: Agent</p> <p>Date: 7/3/01</p>
	<p>¹⁸ SURVEYOR CERTIFICATION</p> <p>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.</p> <p>MAY 18, 2001</p> <p>Date of Survey</p> <p>Signature and Seal of Surveyor: <i>Neale O. Edwards</i></p> <p>Certificate No. 6857</p>

WILLIAMS PRODUCTION COMPANY ROSA UNIT #32B

1900' FNL & 1760' FEL, SECTION 21, T31N, R6W, N.M.P.M.
RIO ARriba COUNTY, NEW MEXICO

