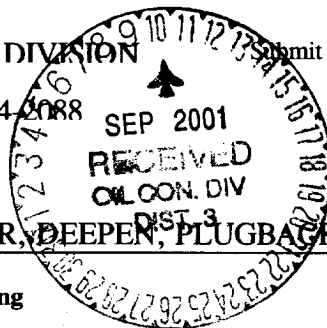


District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

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

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



☐ AMENDED REPORT

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

¹ Operator Name and Address. Williams Production Company LLC c/o Walsh Engineering 7415 E. Main Street Farmington, NM 87401		² OGRID Number 120782
		API Number 30-045-30816
⁴ Property Code 17033	⁵ Property Name Rosa Unit	⁶ Well No. 167B

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
B	8	31N	6W	nw ne	955'	North	2205'	East	San Juan

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 6219'
¹⁶ Multiple Yes	¹⁷ Proposed Depth 7946'	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	250'	165 sx	Surface
9-7/8"	7-5/8"	26.4 ppf	3481'	560 sx & 235 sx	Surface
6-3/4"	5-1/2"	17.0 ppf	7946' -	260 sx & 100 sx	~ 3331' -

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. 250' and set 10-3/4", 32.75#, H-40 casing, cement to surface w/ ~ 165 sx (225 cu.ft.) of Type III, w/ 2% CaCl2 & 1/4% of CF. Will then drill a 9-7/8" hole to approx. 3481' w/ clear water & Benex. and set 7-5/8", 26.4#, K-55 casing, cement w/ 560 sx (1,169 cu.ft.) of 65/35 Type III/Poz w/ 8% gel, & 1/4#/sx CF. Tail w/ 235 sx (326 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 7946' w/ air. Run open hole surveys. Set 5-1/2", 17#, N-80 casing and cement w/ 260 sx (359 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. 3331' (150' inside int. casing). 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 PLO & 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 - 2161', Kirtland - 2286', Fruitland - 2821', Pictured Cliffs - 3006', Lewis - 3311', Cliff House 5211', Menefee - 5256', Point Lookout - 5486', Mancos 5811', Gallup 6826', Greenhorn - 7541', Graneros - 7581', Dakota - 7696'

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:
8/30/01

Phone:
505-327-4892

OIL CONSERVATION DIVISION

Approved by:

Title:

DEPUTY OIL & GAS INSPECTOR, DIST. #3

Approval Date:

SEP 10 2001

Expiration Date:

SEP 10 2002

Conditions of Approval :

Attached ☐

HOLD C104 FOR NSK in Dakota

5

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State of New Mexico
Energy, Minerals & Natural Resources Department

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
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Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30045-30816	*Pool Code 72319 - 71599	*Pool Name Blanco Mesaverde - Basin Dakota
*Property Code 17033	*Property Name ROSA UNIT	*Well Number 167B
*GRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY	*Elevation 6219'

¹⁰ Surface Location

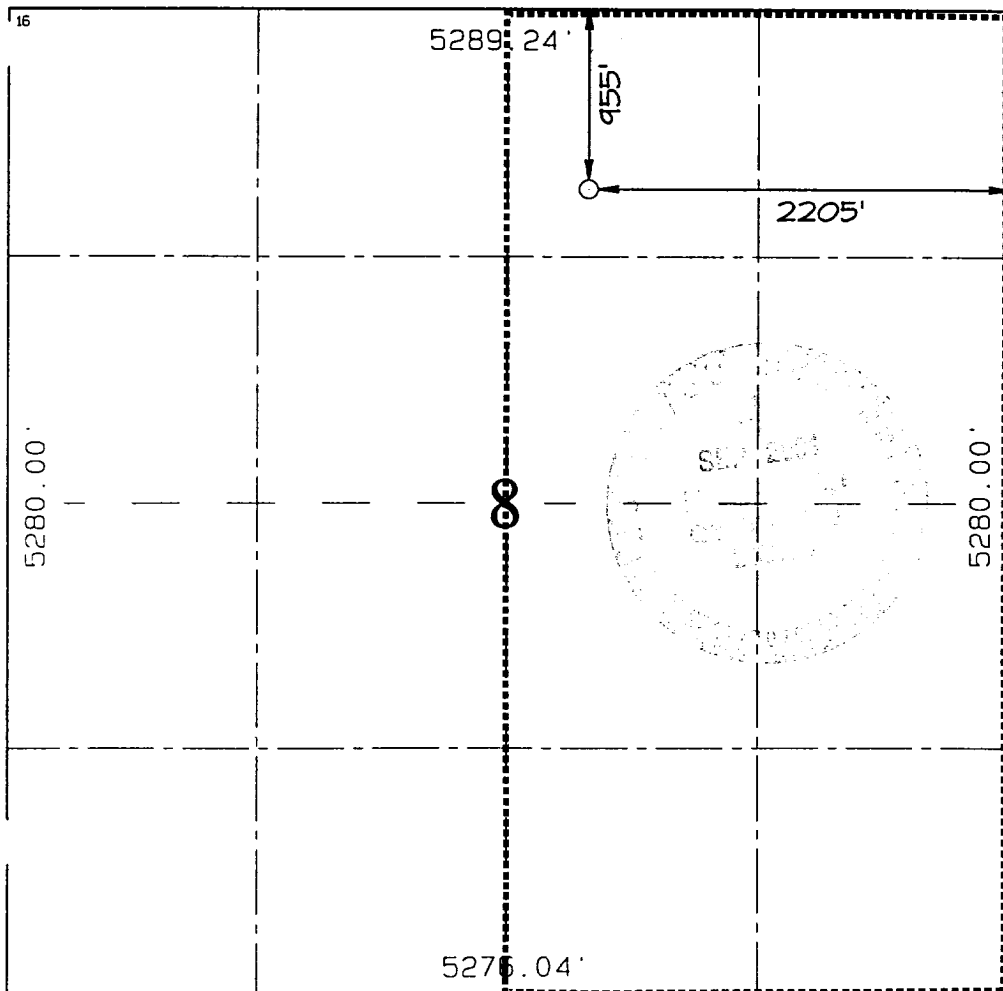



UL or lot no. B	Section 8	Township 31N	Range 6W	Lot Idn	Feet from the 955	North/South line NORTH	Feet from the 2205	East/West line EAST	County SAN JUAN
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres E/2 320	¹³ Joint or Infill Y	¹⁴ Consolidation Code U	¹⁵ 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

¹⁶		¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature John C. Thompson Printed Name Agent Title 8/30/01 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. DECEMBER 23, 2000 Date of Survey  Signature and Seal of Professional Surveyor  Certificate Number 6857

WILLIAMS PRODUCTION COMPANY ROSA UNIT #167B

955' FN : 2205' FEL, SECTION 8, T31N, R14W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

