

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, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address. Williams Production Company LLC P.O. Box 316 Ignacio, Colorado 81137		² OGRID Number 120782
		³ API Number 30 - 0 45-32157
⁴ Property Code 17033	⁵ Property Name Rosa Unit	⁶ Well No. 150C

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
K	32	32N	6W		2530'	South	2155'	West	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 6356'
¹⁶ Multiple Yes	¹⁷ Proposed Depth 8063'	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	300'	225 sx	Surface
9-7/8"	7-5/8"	26.4 ppf	3583'	535 sx & 150 sx	Surface
6-3/4"	5-1/2"	17.0 ppf	8063'	50 sx & 215 sx	3483'

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. 300' and set 10-3/4", 32.75#, H-40 casing, cement to surface w/ 225 sx (356 cu.ft.) of Type III, w/ 2% CaCl2 & 1/4# of CF. Will then drill a 9-7/8" hole to approx. 3583' w/ clear water & Benex. and at 7-5/8", 26.4#, K-55 casing, cement w/ 535 sx (1,121 cu.ft.) of Premium Lite 65/35 Type III/Poz w/ 8% gel, & 1/4# x CF. Tail w/ 150 sx (209 cu.ft.) of Type III w/ 1/4# x CF. Cement volumes calculated to circulate cement to surface. Will then drill 6-3/4" hole to TD @ approx 8063' w/ air. Run open hole surveys. Set 5-1/2", 17#, N-80 casing and cement w/ 50 sx of Premium Light HS, 1% FL52, 0.2% CD32 & 0.1% R3 and 215 sx (460 cu.ft.) of Premium Light HS, 1% FL52, 0.2% CD32, 1/4# x CF, 4% Phenoseal & 0.1% R3. Cement volume calculated to bring TOC to approx. 3483' (100' 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 2-1/16" tbg.

Geologic Tops: Ojo Alamo - 2258', Kirtland - 2388', Fruitland - 2873', Pictured Cliffs - 3108', Lewis - 3398', Cliff House - 5313', Menefee - 5363', Point Lookout - 5593', Mancos - 5918', Gallup - 6933', Greenhorn - 7653', Graneros - 7698', Dakota - 7813'

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

Signature: *Larry Higgins*
Printed name: **Larry Higgins**
Title: **Drilling COM**
Date: **1-30-04**
Phone: **(970) 563-3308**

OIL CONSERVATION DIVISION	
Approved by: <i>[Signature]</i>	
Title: DEPUTY OIL & GAS INSPECTOR, DIST. #1	
Approval Date: JAN 30 2004	Expiration Date: JAN 30 2005
Conditions of Approval: Attached <input checked="" type="checkbox"/> <i>Need NSL order for MV & DK</i>	

HOLD C104 FOR NSL

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer 00, 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-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-32157		*Pool Code 72319 / 71599	*Pool Name BLANCO MESAVEREDE / BASIN DAKOTA
*Property Code 17033	*Property Name ROSA UNIT		*Well Number 150C
*OGRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY		*Elevation 6356'

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
K	32	32N	6W		2530	SOUTH	2155	WEST	SAN JUAN

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
¹² Dedicated Acres 320.0 Acres - (W/2)					¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.		

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

<div><p>¹⁶</p><p>2630.76'</p><p>2623.50'</p><p>2653.86'</p><p>2620.20'</p><p>2608.32'</p><p>2613.60'</p><p>2628.78'</p><p>2652.54'</p><p>2155'</p><p>2530'</p><p>STATE E-504</p><p>32</p></div>	<div><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><i>Larry Higgins</i> Signature</p><p>LARRY HIGGINS Printed Name</p><p>DRILLING COM Title</p><p>1-30-04 Date</p></div>
	<div><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>Survey Date: FEBRUARY 13, 2002</p><p>Signature and Seal of Professional Surveyor</p><div><p>JASON C. EDWARDS Certificate Number 15269</p></div></div>