

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

<sup>1</sup> Operator Name and Address. <b>Williams Production Company, LLC c/o Walsh Engineering</b> <b>7415 E. Main Street</b> <b>Farmington, NM 87401</b>		<sup>2</sup> OGRID Number 120782
		<sup>3</sup> API Number 30-045-31131
<sup>4</sup> Property Code 17033	<sup>5</sup> Property Name <b>Rosa Unit</b>	<sup>6</sup> Well No. <b>185B</b>

<sup>7</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	16	31N	6W	se nw	1725'	North	2155'	West	San Juan

<sup>8</sup> 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
K	16	31N	6W	ne sw	1980'	South	1975'	West	San Juan

<sup>9</sup> Proposed Pool 1 <b>Blanco Mesaverde</b>	<sup>10</sup> Proposed Pool 2 <b>Basin Dakota</b>
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<sup>11</sup> Work Type Code N	<sup>12</sup> Well Type Code M	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type Code S	<sup>15</sup> Ground Level Elevation 6428'
<sup>16</sup> Multiple Yes	<sup>17</sup> Proposed Depth 8628'	<sup>18</sup> Formation Dakota	<sup>19</sup> Contractor Aztec Well Service	<sup>20</sup> Spud Date When Permitted

<sup>21</sup> 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"	40.5 ppf	~500'	460 sx	Surface
9-7/8"	7-5/8"	26.4 ppf	~4148'	670 sx & 375 sx	Surface
6-3/4"	5-1/2"	17.0 ppf	~8628'	245 sx	~3098'

<sup>22</sup> 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 directional well w/ a 14-3/4" surface hole w/ water & benex to approx. 500' and set 10-3/4", 40.5#, K-55 casing, cement to surface w/ ~460 sx (626 cu.ft.) of Type III, w/ 2% CaCl<sub>2</sub> & 1/2% of CF. Will then drill a 9-7/8" hole to approx. 4148' (md) w/ clear water & Benex. and set 7-5/8", 26.4#, K-55 casing, cement w/ 670 sx (1401 cu.ft.) of "Premium lite" 65/35 Type III/Poz w/ 8% gel, & 1/2% of CF. Tail w/ 375 sx (381 cu.ft.) of Type III w/ 1/2% of CF. Cement volumes calculated to circulate cement to surface. Will then drill 6-3/4" hole to TD @ approx 8628' w/ air. Run open hole surveys. Set 5-1/2", 17#, N-80 casing and cement w/ 245 sx (478 cu.ft.) of "Premium lite" HS, 1% FL-52, 0.3% CD-32, 2% KCl, 0.25#/sk CF, 4% Phenoseal & 0.2% R3. Cement volume calculated to bring TOC to approx. 3098' (150' inside int. csg.). 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" thg w/ a production packer isolating the Dakota from the Mesaverde. The Mesaverde, if productive, will be produced thru 2-3/8" thg.

Geologic Tops (measure depths): Ojo Alamo - 2675', Kirtland - 2812', Fruitland - 3362', Pictured Cliffs - 3649', Lewis - 3969', Cliff House 5863', Menefee - 5913', Point Lookout - 6143', Mancos 6443', Gallup 7428', Greenhorn - 8188', Graneros - 8243', Dakota - 8378'

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

Signature: *John C. Thompson*

Printed name  
**John C. Thompson**

Title:  
**Agent / Engineer**

Date:  
**6/17/02**

Phone:  
**505-327-4892**

OIL CONSERVATION DIVISION

Approved by: *[Signature]*

Title:  
**SENIOR INSPECTOR**

Approval Date:

**JUN 18 2002**

Expiration Date:

**JUN 18 2003**

Conditions of Approval:

Attached ☐

*Directional Survey*

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Form C-102  
Revised February 21, 1994

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-045-31131</b>	<sup>2</sup> Pool Code 72319 \ 71599	<sup>3</sup> Pool Name BLANCO MESAVERDE \ BASIN DAKOTA
<sup>4</sup> Property Code 17033	<sup>5</sup> Property Name ROSA UNIT	<sup>6</sup> Well Number 185B
<sup>7</sup> GRID No. 120782	<sup>8</sup> Operator Name WILLIAMS PRODUCTION COMPANY	<sup>9</sup> Elevation 6428'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	16	31N	6W		1725	NORTH	2155	WEST	SAN JUAN

<sup>11</sup> 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
K	16	31N	6W		1980	SOUTH	1975	WEST	SAN JUAN

<sup>12</sup> Dedicated Acres 320.0 Acres - (S/2)	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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><sup>16</sup></p> <p>The map shows a survey area with a grid. A vertical line runs through the center, with a horizontal line intersecting it. The intersection is labeled 'SURFACE LOCATION'. Below this, another horizontal line intersects the vertical line, labeled 'BOTTOM-HOLE LOCATION'. The area is divided into lots: LOT 1, LOT 2, and LOT 3. Distances are marked: 5277.36' from the top to the surface location, 1725' from the surface location to the bottom-hole location, 1975' from the bottom-hole location to the bottom, and 1980' from the bottom-hole location to the bottom. A bearing of S06°20'W is shown. The area is labeled 'TRACT 40' and 'TRACT 39'. A well number 'SF-078766' is shown. The map is labeled '16' and '17'.</p>	<p><sup>17</sup> 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>[Signature]</i></p> <p>Signature John C. Thompson Printed Name Agent/Engineer Title 6/17/02 Date</p> <p><sup>18</sup> 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>Date of Survey: MAY 9, 2002</p> <p>Signature and Seal of Professional Surveyor</p> <p><i>[Seal]</i></p> <p><i>[Signature]</i></p> <p>Certificate Number 15269</p>
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WILLIAMS PRODUCTION COMPANY ROSA UNIT #185B

1725' FNL & 2155' FNL, SECTION 16, T31N, R6W, N.M.P.M.

SAN JUAN COUNTY, NEW MEXICO

