

District I

1625 N. French Dr., Hobbs, NM 88240

District II

301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Road, Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural ResourcesOil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101

March 4, 2004

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 Property Code 17033	⁴ Property Name Rosa Unit	⁵ Well No. 181C

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
M	2	31N	6W		140	South	340	West	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
B	10	31N	6W	H. E. 4709	330	North	1650	East	Rio Arriba

⁹ Proposed Pool 1 Blanco Mesaverde	¹⁰ Proposed Pool 2
---	-------------------------------

Drilling Pit Location and Other Information

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	2	31N	6W		205	South	270	West	Rio Arriba

Depth to ground water 260 ft	Distance from nearest fresh water well More than 1000'	Distance from nearest surface water 890'
--	--	--

¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 6404' GR
¹⁶ Multiple No	¹⁷ Proposed Depth 6934'	¹⁸ Formation Mesaverde	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
12-1/4"	9-5/8"	36#	+/- 300'	150 sx	Surface
8-3/4"	7"	20#	+/- 4419'	505 sx & 100 sx	Surface
6-1/4"	4-1/2"	10.5#	+/- 4319'-6934'	140 sx	4319'

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 directional well W/a 12-1/4" surface hole w/ water & benex to approx 300' and set 9-5/8", 36#, K-55 csg. Cement to surface W/150sx (205 cuft) of type III +2%CaCl2+1/4#CF. Will the drill a 8-3/4" hole to approx 4419' W/ clear water & benex an set 7", 20#, K-55 csg. Cement W/505sx (1050 cuft) of Type III 65/35 poz w/8% gel, 1%CaCl&1/4# CF. Tail 100sx (139 cuft) Type III w/1/4#CF&1%CaCL. Use 100% excess in lead slurry to circ to surface. No excess in tail slurry. Will then drill 6-1/4" hole to TD at approx 6934' W/air. Set 4-1/2" 10.5#, K-55 csg & cement w/50sx of Premium Light HS+1%FL-52+.2%CD-32, 1%R-3, 3#/sx CSE. Tail w/ 90sx(187cuft)) of PL HS=1%FL-52+.2%CD-32, 0.1%R-3, 3#/sk CSE, 1/4# CF&4%Phenoseal.Cement volume calculated to cover 100ft in intermediate csg. After 9-5/8" surface is set a 2M double ram BOP will be installed & pressure tested to 1500#. A 2" kill line and 2" line to a choke manifold will also be installed.

Will test the Mesaverde through perforated casing. Will fracture stimulate the Mesaverde in two stages. A RBP will isolate the PLO from the CH/Men during the stimulation. If productive the Mesaverde will be produced through 2-3/8" tubing.

Geologic Top (measured depth: Ojo Alamo - 2952', Kirtland - 3105', Fruitland - 3652', Picture Cliffs - 3931', Lewis - 4262', Cliff House - 5869', Menefee - 6194, Point Lookout - 6239', Mancos - 6459'.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCDD guidelines X, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Signature:

Larry Aggins

OIL CONSERVATION DIVISION

Approved by:

RT Hays

Printed name: Larry Higgins		Title: DEPUTY OIL & GAS INSPECTOR, DIST. #3	
Title: Drilling COM		Approval Date: APR 29 2004	Expiration Date: APR 29 2005
E-mail Address: larry.higgins@williams.com			
Date: 4-28-04	Phone: (970) 563-3308	Conditions of Approval: <i>Consult w/ Denny Faust on pit rule</i>	
		Attached <input type="checkbox"/>	

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-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 30-039-27714		*Pool Code 72319	*Pool Name BLANCO MESAVERDE
*Property Code 17033	*Property Name ROSA UNIT		*Well Number 181C
*OGRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY		*Elevation 6404'

¹⁰ Surface Location

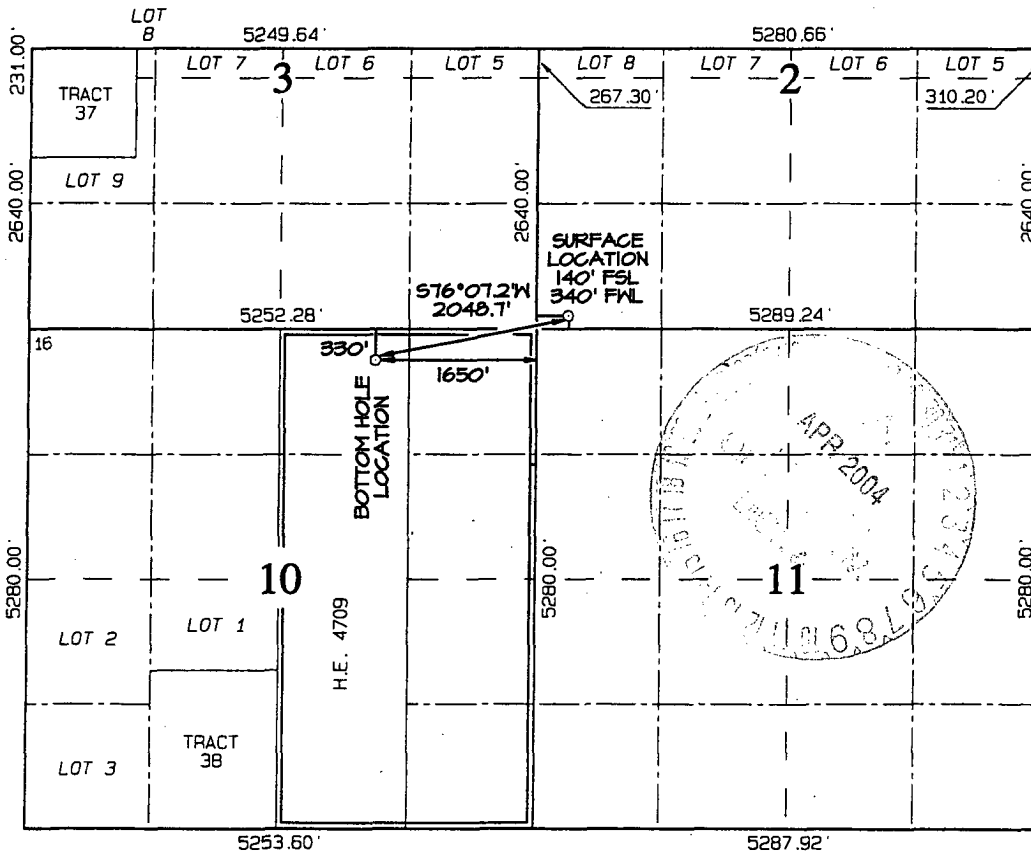
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	2	31N	6W		140	SOUTH	340	WEST	RIO ARriba

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
B	10	31N	6W		330	NORTH	1650	EAST	RIO ARriba

¹² Dedicated Acres 320.0 Acres - E/2 Section 10	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



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

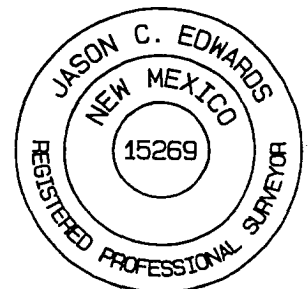
Larry Higgins
Signature
LARRY HIGGINS
Printed Name
DRILLING COM
Title
4-28-04
Date

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 5, 2004

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144
March 4, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Type of action: Registration of a pit or below-grade tank ☒ Closure of a pit or below-grade tank

Operator: Williams Production Company Telephone: (970) 563-3308 e-mail address: larry.higgins@williams.com

Address: P.O. Box 316 - Ignacio, Colorado

Facility or well name: Rosa Unit #169C/#181C API #: U/L or Qtr/Qtr SW/SW Sec 2 T 31N R 6W

County: Rio Arriba Latitude Longitude Surface Owner Federal ☒ State Private Indian

Note: This pit will be shared by the Rosa #169C and the Rosa #181C

Pit Type: Drilling <input checked="" type="checkbox"/> Production Disposal Vorkover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input checked="" type="checkbox"/> Thickness 20 mil Clay <input type="checkbox"/> Volume 13715 bbl	Below-grade tank Volume: bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not. 	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet	(20 points)
	50 feet or more, but less than 100 feet	(10 points)
	100 feet or more <input checked="" type="checkbox"/>	(0 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes	(20 points)
	No <input checked="" type="checkbox"/>	(0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet	(20 points)
	200 feet or more, but less than 1000 feet <input checked="" type="checkbox"/>	(10 points)
	1000 feet or more	(0 points)
	Ranking Score (Total Points)	10

If this is a pit closure:

- attach a diagram of the facility showing the pit's relationship to other equipment and tanks.
- Indicate disposal location: onsite ☐ offsite ☐ If offsite, name of facility
- Attach a general description of remedial action taken including remediation start date and end date.
- Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface ft. and attach sample results.
- Attach soil sample results and a diagram of sample locations and excavations.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank will be constructed or closed according to NMOCD guidelines.

Date: 4-28-04

Printed Name/Title Larry Higgins Signature *Larry Higgins*

Our certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Date:

Printed Name/Title Signature

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144
March 4, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Type of action: Registration of a pit or below-grade tank ☒ Closure of a pit or below-grade tank

Operator: Williams Production Company Telephone: (970) 563-3308 e-mail address: larry.higgins@williams.com
Address: P.O. Box 316 - Ignacio, Colorado
Facility or well name: Rosa Unit #169C/#181C API #: U/L or Qtr/Qtr SW/SW Sec 2 T 31N R 6W
County: Rio Arriba Latitude Longitude Surface Owner Federal ☒ State Private Indian

Note: This pit will be shared by the Rosa #169C and the Rosa #181C

Pit Type: Drilling Production <input checked="" type="checkbox"/> Disposal Vorkover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined Unlined <input type="checkbox"/> Liner type: Synthetic Thickness mil Clay <input type="checkbox"/> Volume bbl	Below-grade tank Volume: 120 bbl Type of fluid: produced water Construction material: fiberglass Double-walled, with leak detection? Yes <input checked="" type="checkbox"/> If not, explain why not.	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet	(20 points)
	50 feet or more, but less than 100 feet	(10 points)
	100 feet or more <input checked="" type="checkbox"/>	(0 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes	(20 points)
	No <input checked="" type="checkbox"/>	(0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet	(20 points)
	200 feet or more, but less than 1000 feet <input checked="" type="checkbox"/>	(10 points)
	1000 feet or more	(0 points)
Ranking Score (Total Points)		10

If this is a pit closure:

- attach a diagram of the facility showing the pit's relationship to other equipment and tanks.
- Indicate disposal location: onsite ☐ offsite ☐ If offsite, name of facility
- Attach a general description of remedial action taken including remediation start date and end date.
- Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface ft. and attach sample results.
- Attach soil sample results and a diagram of sample locations and excavations.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank will be constructed or closed according to NMOCD guidelines.

Date: 4-28-04

Printed Name/Title Larry Higgins

Signature

Larry Higgins

Our certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Date:

Printed Name/Title

Signature