



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

July 21, 1999

# 10207  
17228

Williams Production Company  
c/o Walsh Engineering & Production Corporation  
7415 East Main  
Farmington, New Mexico 87402

Attention: Paul C. Thompson

**Re: Administrative application to establish a non-standard 303.88-acre gas spacing and proration unit within the Blanco-Mesaverde Pool comprising all of irregular Section 1, Township 31 North, Range 6 West, NMPM, Rio Arriba County, New Mexico.**

Dear Mr. Thompson:

The applicable rules governing the Blanco-Mesaverde Pool do not allow this type of non-standard unit to be processed administratively [see Division Order No. R-10987-A and Division Rule 104.D (2)]. However, I have caused this application to be placed on the next available examiner's hearing docket and have it advertised in the following manner:

***"Application of Williams Production Company for a non-standard gas proration, Rio Arriba County, New Mexico. Applicant seeks to establish a non-standard 303.88-acre gas spacing and proration unit within the Blanco-Mesaverde Pool comprising all of irregular Section 1, Township 31 North, Range 6 West, which is located approximately 5.5 miles south of the New Mexico/Colorado state line at mile corner marker No. 240. Blanco-Mesaverde gas production from both the Williams Production Company's: (i) Rosa Unit Well No. 164 (API No. 30-039-26151), located on the surface 1500 feet from the South line and 1310 feet from the East line (Unit J) of Section 1; and (ii) Rosa Unit Well No. 164-A (API No. 30-039-26080), located 1495 feet from the South line and 1210 feet from the East line (Unit J) of Section 1, is to be dedicated to this unit. IN THE ABSENCE OF OBJECTION, THIS APPLICATION WILL BE TAKEN UNDER ADVISEMENT."***

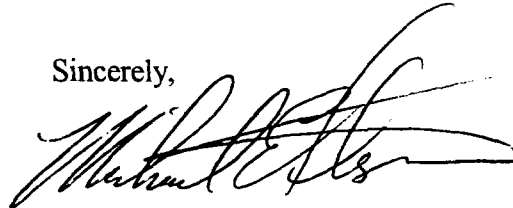
I anticipate that an order can be issued at that time without any further information or involvement by Williams Production Company.

Williams Production Company  
Paul C. Thompson  
July 21, 1999  
Page 2

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Should you have any questions or comments concerning this matter, please contact me in Santa Fe at (505) 827-8185. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael E. Stogner", with a large, sweeping flourish at the end.

Michael E. Stogner  
Chief Hearing Officer/Engineer

cc: New Mexico Oil Conservation Division - Aztec  
U. S. Bureau of Land Management - Farmington  
Ms. Florene Davidson, NMOCD – Santa Fe  
Kathy Valdes, NMOCD – Santa Fe

NSL

8/9/99



**WALSH**

ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting  
Lease Management  
Contract Pumping

7415 East Main  
Farmington, New Mexico 87402  
(505) 327-4892 • Fax: (505) 327-9834

July 16, 1999

Ms. Lori Wrotenbery  
New Mexico Oil Conservation Division  
2040 S. Pacheco  
Santa Fe, NM 87505

Re: Non-Standard Gas Unit  
Williams Production Company  
Rosa Unit #164  
Surface Location: 1500' FSL, 1310' FEL  
Bottom Hole Location: 1555' FSL, 1750' FWL  
Section 1, T31N R6W  
Rio Arriba, NM  
Blanco Mesa Verde

Dear Ms. Wrotenbery,

This is a request on behalf of Williams Production Company for administrative approval for a non-standard gas unit in the Blanco Mesa Verde pool for the referenced well. The proposed spacing unit is south half of Section 1, T31N, R6W, which is 303.88 acres due to a variation in the legal subdivision of the U.S. Public Land Surveys.

As the Unit Operator of the Rosa Unit, Williams Production is the only offset operator. Attached is a plat indicating the well location and proposed spacing unit.

Thank you for your consideration and approval of this application. If you have any questions please do not hesitate to call upon me.

Sincerely,

Paul C. Thompson, P.E.  
President, Walsh Engineering

cc: David Spitz, WPC  
NMOCD Aztec NM  
BLM Farmington NM

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 Dept

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

Form C-103  
Revised February 21, 1999  
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		*Pool Code 72319	*Pool Name Blanco Meas Verde
*Property Code 008480	*Property Name ROSA UNIT		*Well Number 164
*GRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY		*Elevation 6315'

#### <sup>10</sup> Surface Location

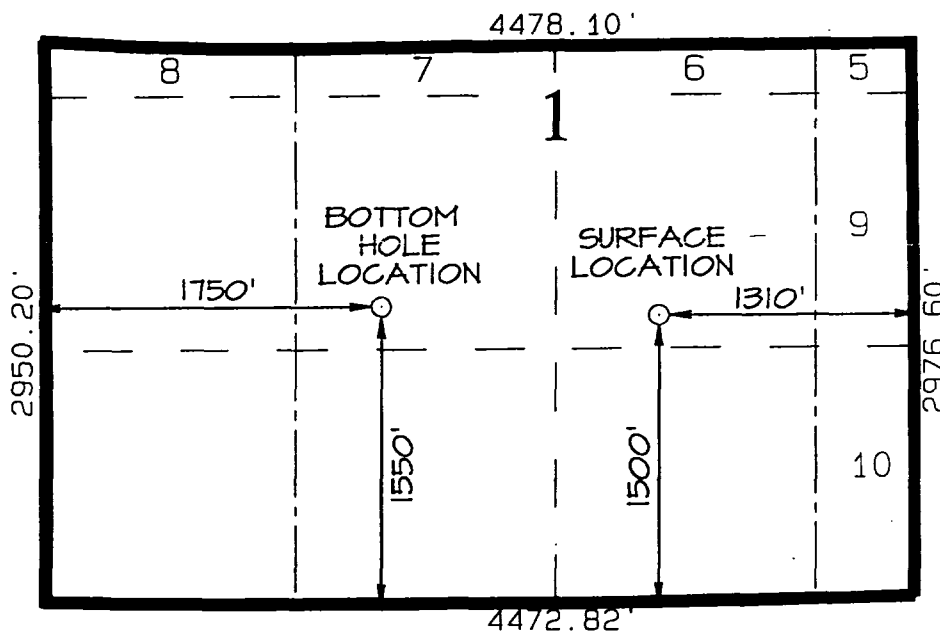
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	1	31N	6W		1500	SOUTH	1310	EAST	RIO ARriba

#### <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	1	31N	6W		1550	SOUTH	1750	WEST	RIO ARriba

<sup>12</sup> Dedicated Acres 303.88	<sup>13</sup> Joint or Infill Y	<sup>14</sup> Consolidation Code U	<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



#### <sup>17</sup> OPERATOR CERTIFICATION

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

*Paul C. Thompson*  
Signature  
Paul C. Thompson  
Printed Name  
Agent  
Title  
3/16/99  
Date

#### <sup>18</sup> 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.

FEBRUARY 3, 1999  
Date of Survey

Signature and Seal of Professional Surveyor

*Neale C. Edwards*  
NEALE C. EDWARDS  
NEW MEXICO  
6857  
Certificate Number 6857

NSL

8/9/99



**WALSH**

ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting  
Lease Management  
Contract Pumping

7415 East Main  
Farmington, New Mexico 87402  
(505) 327-4892 • Fax: (505) 327-9834

July 16, 1999

Ms. Lori Wrotenbery  
New Mexico Oil Conservation Division  
2040 S. Pacheco  
Santa Fe, NM 87505

Re: Non-Standard Gas Unit  
Williams Production Company  
Rosa Unit #164A  
1495' FSL, 1210' FEL  
Section 1, T31N R6W  
Rio Arriba, NM  
Blanco Mesa Verde

Dear Ms. Wrotenbery,

This is a request on behalf of Williams Production Company for administrative approval for a non-standard gas unit in the Blanco Mesa Verde pool for the referenced well. The proposed spacing unit is south half of Section 1, T31N, R6W, which is 303.88 acres due to a variation in the legal subdivision of the U.S. Public Land Surveys.

As the Unit Operator of the Rosa Unit, Williams Production is the only offset operator. Attached is a plat indicating the well location and proposed spacing unit.

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Sincerely,

Paul C. Thompson, P.E.  
President, Walsh Engineering

cc: David Spitz, WPC  
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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-1  
Revised February 21, 1999  
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	*Pool Code 72319	*Pool Name Blanco Mesa Verde
*Property Code 008480	*Property Name ROSA UNIT	*Well Number 164A
*OGRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY	*Elevation 6313'

<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
J	1	31N	6W		1495	SOUTH	1210	EAST	RIO ARriba

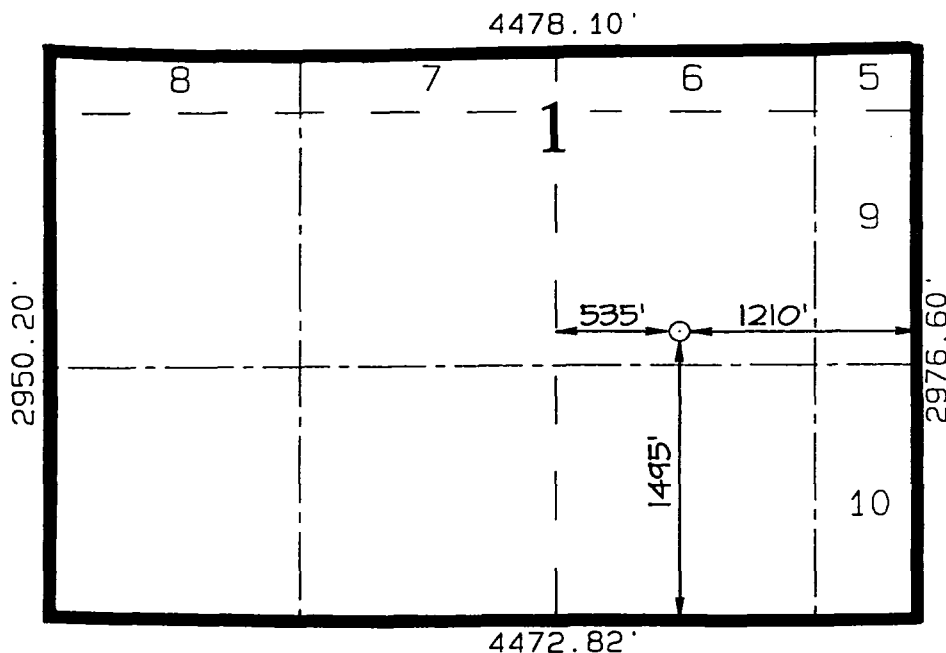
<sup>11</sup> Bottom Hole Location If Different From Surface

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

<sup>12</sup> Dedicated Acres 303.88	<sup>13</sup> Joint or Infill I	<sup>14</sup> Consolidation Code U	<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

16



<sup>17</sup> OPERATOR CERTIFICATION

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

Paul C. Thompson  
Signature  
Paul C. Thompson  
Printed Name  
Agent  
Title  
2/18/99  
Date

<sup>18</sup> 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.

FEBRUARY 3, 1999  
Date of Survey

Signature and Seal of Professional Surveyor

NEALE C. EDWARDS  
NEW MEXICO  
6857  
Certificate Number 6857

CMD :  
OG5SECT

ONGARD  
INQUIRE LAND BY SECTION

07/21/99 09:24:33  
OGOMES -TP0H  
PAGE NO: 2

Sec : 01 Twp : 31N Rng : 06W Section Type : NORMAL

L 40.00	K 40.00	J 40.00	9 15.54
Federal owned U	Federal owned U	Federal owned U A A A	Federal owned U
M 40.00	N 40.00	O 40.00	10 15.54
Federal owned U	Federal owned U	Federal owned U	Federal owned U

PF01 HELP  
PF07 BKWD

PF02  
PF08 FWD

PF03 EXIT  
PF09 PRINT

PF04 GoTo  
PF10 SDIV

PF05  
PF11

PF06  
PF12

303.88

CMD :  
OG5SECT

ONGARD  
INQUIRE LAND BY SECTION

07/21/99 09:24:28  
OGOMES -TP0F  
PAGE NO: 1

Sec : 01 Twp : 31N Rng : 06W    Section Type : NORMAL

8 9.42	7 9.56	6 9.89	5 3.93
Federal owned	Federal owned	Federal owned	Federal owned

PF01 HELP    PF02    PF03 EXIT    PF04 GoTo    PF05    PF06

PF07 BKWD    PF08 FWD    PF09 PRINT    PF10 SDIV    PF11    PF12



C

# **NEW MEXICO OIL CONSERVATION COMMISSION** **MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

Operator <b>Williams Production Company</b>					Lease or Unit Name <b>Rosa Unit</b>				
Test Type <b>X Initial</b> <b>Annual</b> <b>Special</b>			Test Date <b>7/11/99</b>		Well Number <b>#164</b>				
Completion Date		Total Depth		Plug Back TD		Elevation		Unit Sec Twp Rng <b>1 31N 6W</b>	
Casing Size		Weight	d	Set At	Perforations: From To				County <b>La Plata</b>
Tubing Size		Weight	d	Set At	Perforations: From To				Pool <b>Blanco MV</b>
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At		Formation <b>MV</b>		
Producing Thru Tubing		Reservoir Temp. oF		Mean Annual Temp. oF		Barometer Pressure - Pa		Connection	
L	H	Gq <b>0.6</b>	%CO2	%N2	%H2S	Prover <b>3/4"</b>		Meter Run Taps	

FLOW DATA				TUBING DATA		CASING DATA			
NO	Prover Line Size	X Orifice Size	Pressure p.s.i.q	Temperature oF	Pressure p.s.i.q	Temperature oF	Pressure p.s.i.q	Temperature oF	Duration of Flow
SI	<b>2" X 3/4"</b>				<b>1110</b>		<b>1112</b>		<b>0</b>
1					<b>401</b>	<b>58</b>	<b>1109</b>		<b>0.5 hr</b>
2					<b>353</b>	<b>64</b>	<b>968</b>		<b>1.0 hr</b>
3					<b>326</b>	<b>69</b>	<b>949</b>		<b>1.5 hrs</b>
4					<b>328</b>	<b>66</b>	<b>936</b>		<b>2.0 hrs</b>
5					<b>314</b>	<b>65</b>	<b>900</b>		<b>3.0 hrs</b>

RATE OF FLOW CALCULATION								
NO	Coefficient (24 Hours)	hwPm	Pressure Pm	Flow Temp. Factor Fl	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd	
1	<b>9.604</b>		<b>326</b>	<b>0.9952</b>	<b>1.29</b>	<b>1.036</b>	<b>4164</b>	
2								
3								
4								

NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ration	Mcf/bbl. Deq.
1					A.P.I Gravity of Liquid Hydrocabrons _____	<b>XXXXXX</b>
2					Specific Gravity Separator _____	
3					Specific Gravity Flowing Fluid <b>xxxxxxxxxx</b>	
4					Critical Pressure _____ p.s.i.a.	_____ p.s.i.a.
5					Critical Temperature _____ R	_____ R

NO	Pt1	Pw	Pw2	Pc2-Pw2	(1) $Pc2 = \frac{Pc2 - Pw2}{Pc2 - Pw2}$	(2) $Pc2^n = \frac{Pc2^n}{Pc2 - Pw2}$
1		<b>912</b>	<b>831744</b>	<b>431632</b>		<b>2.2377638</b>
2						
3						
4						

Absolute Open Flow <b>9318</b>		Mcf/d @ 15.025	Angle of Slope _____	Slope, n <b>0.75</b>
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Remarks:				
Approved By Commission:		Conducted By: <b>Chic Charley</b>	Calculated By: <b>Tracy Ross</b>	Checked By: <b>David Spitz</b>

In Lieu of  
Form 3160  
(June 1990)

UNITED STATES  
DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICE AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION TO DRILL" for permit for such proposals.

070 FARMINGTON, NM

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. SF-078772
2. Name of Operator WILLIAMS PRODUCTION COMPANY	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. PO BOX 3102 MS 37-2, TULSA, OK 74101 (918) 573-6254	7. If Unit or CA, Agreement Designation ROSA UNIT
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1500' FSL & 1310' FEL, NW/4 SE/4 SEC 1-31N-6W	8. Well Name and No. ROSA UNIT #164
	9. API Well No. 30-039-26151
	10. Field and Pool, or Exploratory Area BLANCO MV
	11. County or Parish, State RIO ARRIBA, NM

CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent <input checked="" type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input checked="" type="checkbox"/> Other <u>DRILLING OPERATIONS</u> <input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

5-09-1999 MOL & RU. Drill rat / mouse hole. Spud surface hole @ 0100 hrs. 5/9/99. Drilling @ report time

5-10-1999 TD surface hole with bit #1 (12-1/4", HP-43) at 510'. Circulate and TOH. Ran 12 joints (483.97') of 9-5/8" 36#, K-55, ST&C casing and set at 497' KB. BJ cemented with 300 sx (360 cu.ft.) of CI "B" with 2% CaCl<sub>2</sub> and 1/4# cello-flake/sk. Displaced plug with 35 bbls of water. Plug down at 1600 hrs 5/9/99. Circulated out 10 bbls of cement. WOC. Nipple up BOP and pressure test to 1500# - held OK. TIH with bit #2 (8-3/4", HTC, GTF09)

5-11-1999 Drill out cement & continue drilling new hole w/ bit #2 (8-3/4", HTC, GTF-09C). MD: 1505.65', TVD: 1483', Inc.: 23.700, Az., 274.00, Vertical section: 172.82', BH location 15.85 north & 172.24' west.

5-12-1999 Continue drilling new hole w/ bit #2 (8-3/4", HTC, GTF-09C). MD: 2279', TVD: 2144', Inc.: 33.6, Az., 268.9, Vertical section: 570.73', BH location 22.5 north & 573.2' west, 2.7 degrees/100' of dog leg severity

5-13-1999 Continue drilling new hole w/ bit #2 (8-3/4", HTC, GTF-09C). MD: 2740', TVD: 2530.94', Inc.: 34.1, Az.: 275.1, Vertical section: 822.51', BH location 34.5 north & 821.42' west, .788 degrees/100' of dog leg severity

Continued on reverse side

14. I hereby certify that the foregoing is true and correct

Signed Tracy Ross  
Tracy Ross

Title Production Analyst

Date May 28, 1999

(This space for Federal or State office use)

Approved by \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

ACCEPTED FOR RECORD

JUN 02 1999

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

5-14-1999 TFB #2 @ 3103'. TIH w/ bit #3 (8-3/4", HTC, 09C). Ream 75' back to bottom. Continue drilling new hole w/ bit #3 (8-3/4", HTC, 09C). MD: 3063.15', TVD: 2792.96', Inc.: 31.8, Az.: 277.2, Vertical section: 992', BH location 50 north & 991.2' west, 2.778 degrees/100' of dog leg severity

5-15-1999 Drilling ahead with bit #3 (8-3/4", HTC, 09C). MD: 3489', TVD: 3170.44', Inc.: 31.4, Az.: 279.100, Vertical section: 1209.56', BH location 87.21' north & 1201.69' west

5-16-1999 TD intermediate hole at 3881' with bit #3 (8-3/4", HTC, 09C). Circulate hole and start TOH for logs. MD: 3831.51', TVD: 3459.96', Inc.: 33.8, Az.: 268.200, Vertical section: 1391.71', BH location 97.36' north & 1388.56' west

5-17-1999 TOH & lay down directional tools. RU Halliburton & run IND/GR, DEN/NEUT. Logs. TIH. Circulate and condition hole. LDDP and DC's. Change out rams & RU casing crew. Ran 90 jts. (3878.83') of 7", 20#, K-55, ST&C casing and landed at 3881' KB. Float at 3833' KB. Rig up BJ and precede cement with 10 bbls of water and 10 bbls of scavenger cement. Cemented with 510 sx (1060 cu.ft.) of CI "H" 65/35 poz with 8% gel & 2% CaCl<sub>2</sub>. Tailed with 255 sx (302 cu.ft.) of CI "H" 50/50 poz with 1/4# celloflake/sk, and 2% CaCl<sub>2</sub>. Displaced plug with 154 bbls of water. Plug down at 0200 hrs 5/17/99. Circulated out 35 bbls of cement. ND BOP. Set slips w/ #68,000 and cut off casing. Nipple up BOP's @ report time

5-18-1999 NU bop and change rams. TIH with bit #4 (6-1/4", HTC, STR -09). Pressure test to 1500# - held OK. Drilled float and shoe. Unloaded hole with nitrogen and drilled 86' of new formation. Working pipe. Trying to dry up drill gas line

5-19-1999 Blew water and air from drill gas line. Drilling ahead with bit #4 (6-1/4", HTC, STR -09). Survey at MD = 4426.87', Inc. = 35.5, Az = 275.3, TVD = 3958.38, N = 97.89', E = 1713.62'

5-20-1999 TOH & change BHA. TIH. Blew water and air from drill gas line. Drilling ahead with bit #4 (6-1/4", HTC, STR -09). Survey at MD = 4668', Inc. = 36, Az = 283.30, TVD = 4154, 124' from North & 1851' from East

5-21-1999 TFB #4 (6-1/4", HTC, STR -09) at 4835'. Drilling ahead with bit #5 (6-1/4", HTC, STR -09). Survey at MD = 4732', Inc. = 37, Az = 289.30, TVD = 4205'. At MD = 4870', Inc. = 34.5, Az = 300.30, TVD = 4317, 169.09' north and 1961.02' west

5-22-1999 Drilling ahead with bit #5 (6-1/4", HTC, STR -09). TOH and unplug bit, bit sub, and monel collar. TIH and ream 45' to bottom. MD = 5126', Inc. = 27.0, Az = 311.30, TVD = 4537, 245.09' north and 2066.89' west

5-23-1999 Drilling ahead with bit #5 (6-1/4", HTC, STR -09). Torque converter on rig failed. Lay down 4 joints of drill pipe and circulate waiting on new torque converter. MD = 5219', Inc. = 24.0, Az = 317.30, TVD = 4621, 272.94' north and 2095.95' west. MD = 5314', Inc. = 21.5, Az = 321.30, TVD = 4709, 300.73' north and 2119.58' west. MD = 5410', Inc. = 18.0, Az = 323.30, TVD = 4799, 326.36' north and 2139.45' west

5-24-1999 Drilling ahead with bit #5 (6-1/4", HTC, STR -09). Torque converter on rig failed. Lay down 4 joints of drill pipe and circulate waiting on new torque converter. MD = 5219', Inc. = 24.0, Az = 317.30, TVD = 4621, 272.94' north and 2095.95' west. MD = 5314', Inc. = 21.5, Az = 321.30, TVD = 4709, 300.73' north and 2119.58' west. MD = 5410', Inc. = 18.0, Az = 323.30, TVD = 4799, 326.36' north and 2139.45' west

5-25-1999 Continue drilling with bit #5 (6-1/4", HTC, STR -09). MD = 6136', Inc. = 4.75, Az = 346.30, TVD = 5513, 437.61' north and 2194.65' west. MD = 6261', Inc. = 3.75, Az = 356.30, TVD = 5637, 446.72' north and 2196.14' west. TOH to lay down some drill collars

5-26-1999 TIH and TD well with gas and bit #5 (6-1/4", HTC, STR -09). Circulate hole clean and start TOH. MD = 6517', Inc. = 2.25, Az = 346.00, TVD = 5893, 460' north and 2197' west. MD = 6583', Inc. = 2.50, Az = 353.00, TVD = 5969, 462' north and 2198' west. MD = 6635', Inc. = 2.25, Az = 353.00, TVD = 6011, 464' north and 2198' west. Bottom hole location is 12' inside north boundary of the legal drilling window

5-27-1999 LDDP. RU casing crew and run 76 jts. (2894.25') of 4-1/2", 10.5#, K-55, ST&C casing and TIW 4-1/2"x7" liner hanger on drill pipe and landed at 6635' KB. Latch collar at 6609' KB and marker joint at 5896' KB. Top of liner @ 3741' - 140' of overlap into 7". Rig up BJ. Precede cement w/ 20 bbls of gel and 10 bbls of fresh water. Cement with 95 sx (126 cu.ft.) of CI "B" 50/50 poz with 2% Gel, 0.4% FL52, and 2% CaCl<sub>2</sub>. Tailed with 280 sx (378 cu.ft.) of CI "B" 50/50 poz with 2% Gel, 0.4% FL-52, 2% CaCl<sub>2</sub>, and 1/4# sk celloflake. Displaced plug with 72 bbls of water. Plug down at 1300 hrs 5/26/99. Set pack-off and circulate out 15 bbls of cement. Lay down DP and TIW setting tool. ND BOP's. Rig released at 1900 hrs. 5/26/99. Final Report

UNITED STATES  
DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICE AND REPORTS ON WELLS

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RECEIVED  
BLM  
99 MAY 17 PM 12:31

070 FARMINGTON, NM

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. SF-078772
2. Name of Operator WILLIAMS PRODUCTION COMPANY	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. PO BOX 3102 MS 37-2, TULSA, OK 74101 (918) 573-6254	7. If Unit or CA, Agreement Designation ROSA UNIT
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1500' FSL & 1310' FEL, NW/4 SE/4 SEC 1-31N-6W	8. Well Name and No. ROSA UNIT #164
	9. API Well No. 30-039-26151
	10. Field and Pool, or Exploratory Area BLANCO MV
	11. County or Parish, State RIO ARRIBA, NM

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MAY 24 1999

OIL CON. DIV.  
DIST. 3

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent <input checked="" type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input checked="" type="checkbox"/> Other <u>SPUD WELL</u> <input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

This well was spudded 0100 hrs 5-09-1999.

14. I hereby certify that the foregoing is true and correct

Signed Tracy Ross  
Tracy Ross

Title Production Analyst

Date May 13, 1999

(This space for Federal or State office use)

Approved by \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

ACCEPTED FOR RECORD

MAY 19 1999

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

FARMINGTON FIELD OFFICE  
BY 3-279

NMOCD

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

59 MAR 18 AM 7:52

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>		1b. TYPE OF WELL <b>OIL</b> <input type="checkbox"/> <b>GAS</b> <input checked="" type="checkbox"/> <b>OTHER</b> <input type="checkbox"/> <b>SINGLE ZONE</b> <input checked="" type="checkbox"/> <b>MULTIPLE ZONE</b> <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. <b>SF- 078772</b>
2. NAME OF OPERATOR <b>Williams Production Company</b>		3. ADDRESS OF OPERATOR <b>c/o Walsh Engineering 7415 E. Main St., Farmington, NM 87402 (505) 327-4892</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At Surface <b>1500' FSL and 1310' FEL</b> At proposed Prod. Zone <b>1550' FSL and 1750' FWL</b>		7. UNIT AGREEMENT NAME <b>Rosa Unit</b>		8. FARM OR LEASE NAME <b>17033</b>
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <b>28 miles NE of Blanco, NM</b>		15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) <b>1310'</b>		9. WELL NO. <b>164 API # 30-039-26151</b>
16. NO. OF ACRES IN LEASE <b>2561.88</b>		17. NO. OF ACRES ASSIGNED TO THIS WELL <b>303.88 ALL</b>		10. FIELD AND POOL OR WILDCAT <b>Blanco Mesa Verde</b>
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT. <b>100'</b>		19. PROPOSED DEPTH <b>6100' TVD; 6820 MD</b>		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>J Sec. 1, T31N, R6W</b>
20. ROTARY OR CABLE TOOLS <b>Rotary</b>		21. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>6315' GR</b>		12. COUNTY OR PARISH <b>Rio Arriba</b>
22. APPROX. DATE WORK WILL START* <b>May 1999</b>		23. PROPOSED CASING AND CEMENTING PROGRAM		13. STATE <b>NM</b>
SIZE OF HOLE		SIZE OF CASING		QUANTITY OF CEMENT
12-1/4"		9-5/8"		312 cu.ft. Cl "H" with 2% CaCl <sub>2</sub>
8-3/4"		7"		942cu.ft.65/35 poz & 235cu.ft.50/50 poz
6-1/4"		4-1/2"		126cu.ft.50/50 poz & 378cu.ft.50/50 poz
WEIGHT/FOOT		SETTING DEPTH		
36#		500'		
20#		4028'		
10.5#		3928' - 6820'		

Williams Production Company proposes to drill a directional well to develop the Mesa Verde formation at the above described location in accordance with the attached drilling and surface use plans.

This location has been archaeologically surveyed by Moore Anthropological Research. Copies of their report have been submitted directly to your office.

This APD also is serving as an application to obtain BLM road and pipeline right-of-ways. This well will be accessed by the same road as the Rosa #164A. It will cross the E2NE of Sec. 26, T31N, R6W where it joins the main Rosa Road. The Rosa Road continues SE for 12 miles where it joins the Sims Mesa Highway.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout prevention program, if any.

24. SIGNED Paul C. Thompson TITLE Paul C. Thompson, Ager DATE 3/16/99

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE APR 19 1999

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY /s/ Duane W. Spencer TITLE Team Lead, Petroleum Management

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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 Dept

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

Form C-  
Revised February 21, 1999  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

99 MAR 18 AM 7:52

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-26151		*Pool Code 72319	*Pool Name Blanco Meas Verde
*Property Code 008480	*Property Name 17033 ROSA UNIT		*Well Number 164
*OGRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY		*Elevation 6315'

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
J	1	31N	6W		1500	SOUTH	1310	EAST	RIO ARriba

11 Bottom Hole Location If Different From Surface

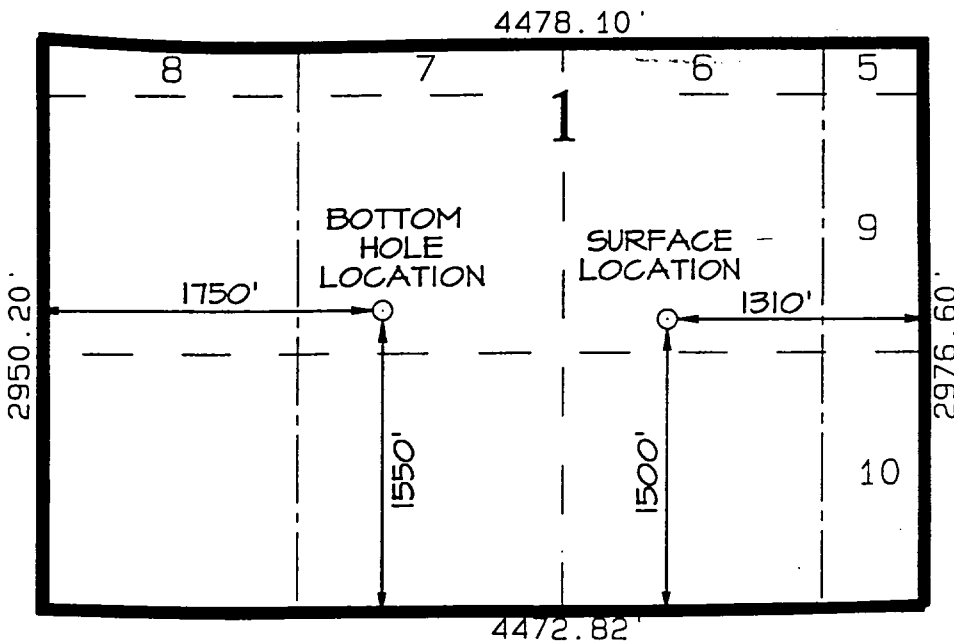
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	1	31N	6W		1550	SOUTH	1750	WEST	RIO ARriba

12 Dedicated Acres 303.88	13 Joint or Infill Y	14 Consolidation Code U	15 Order No.
------------------------------	-------------------------	----------------------------	--------------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNIT IF ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

RECEIVED  
APR 2 1 1999

OIL CON. DIV.  
DIST. 3



17 OPERATOR CERTIFICATION

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

Signature

Paul C. Thompson

Printed Name

Agent

Title

3/16/99

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 or under my supervision, and that the same is true and correct to the best of my belief.

Signature and Seal of Professional Surveyor

NEALE C. EDWARDS

NEW MEXICO

6857

Professional Surveyor

February 3, 1999

Date of Survey

Signature and Seal of Professional Surveyor

NEALE C. EDWARDS

NEW MEXICO

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6857

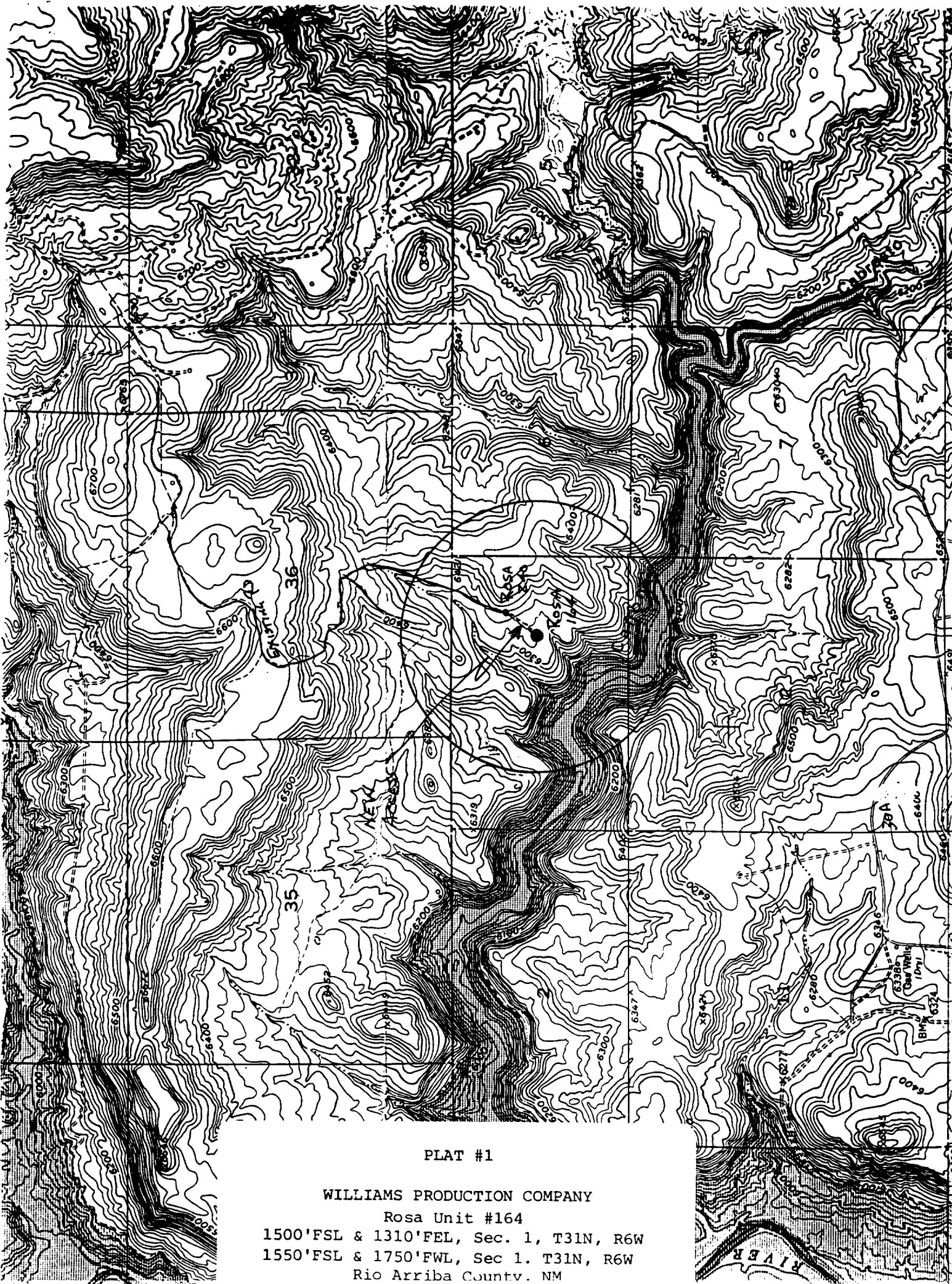
Professional Surveyor

February 3, 1999

Date of Survey

Signature and Seal of Professional Surveyor

NEALE C. EDWARDS



PLAT #1

WILLIAMS PRODUCTION COMPANY

Rosa Unit #164

1500'FSL & 1310'FEL, Sec. 1, T31N, R6W

1550'FSL & 1750'FWL, Sec 1. T31N, R6W

Rio Arriba Countv. NM

**NEW MEXICO OIL CONSERVATION COMMISSION**  
**MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

Operator <b>Williams Production Company</b>					Lease or Unit Name <b>Rosa Unit</b>				
Test Type <b>X Initial      Annual      Special</b>			Test Date <b>7/11/99</b>		Well Number <b>#164A</b>				
Completion Date		Total Depth		Plug Back TD		Elevation			
						Unit    Sec    Twp    Rng <b>J      1      31N    6W</b>			
Casing Size		Weight		d		Set At		Perforations: From To	
								County <b>La Plata</b>	
Tubing Size		Weight		d		Set At		Perforations: From To	
								Pool <b>Blanco MV</b>	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At		Formation <b>MV</b>		
Producing Thru <b>Tubing</b>		Reservoir Temp. oF		Mean Annual Temp. oF			Barometer Pressure - Pa		Connection
L	H	Gq	%CO2	%N2	%H2S	Prover	Meter Run	Taps	
		<b>0.6</b>				<b>3/4"</b>			

FLOW DATA					TUBING DATA		CASING DATA		
NO	Prover Line Size	X Orifice Size	Pressure p.s.i.q	Temperature oF	Pressure p.s.i.q	Temperature oF	Pressure p.s.i.q	Temperature oF	Duration of Flow
SI		<b>2" X 3/4"</b>			<b>1125</b>		<b>1126</b>		<b>0</b>
1					<b>421</b>	<b>63</b>	<b>1016</b>		<b>0.5 hr</b>
2					<b>411</b>	<b>68</b>	<b>977</b>		<b>1.0 hr</b>
3					<b>387</b>	<b>72</b>	<b>949</b>		<b>1.5 hrs</b>
4					<b>364</b>	<b>74</b>	<b>916</b>		<b>2.0 hrs</b>
5					<b>336</b>	<b>74</b>	<b>888</b>		<b>3.0 hrs</b>

RATE OF FLOW CALCULATION										
NO	Coefficient (24 Hours)				hwPm	Pressure Pm	Flow Temp. Factor Fl	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	<b>9.604</b>					<b>348</b>	<b>0.9868</b>	<b>1.29</b>	<b>1.026</b>	<b>4365</b>
2										
3										
4										

NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ration				Mcf/bbl.
1					A.P.I Gravity of Liquid Hydrocarbons _____				Deq.
2					Specific Gravity Separator _____				XXXXXXX
3					Specific Gravity Flowing Fluid xxxxxxxxxxxx				
4					Critical Pressure _____ p.s.i.a.				____ p.s.i.a.
5					Critical Temperature _____ R				____ R

Pc	1138	Pc2	1295044	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		<b>900</b>	<b>810000</b>	<b>485044</b>
2				
3				
4				

(1) $Pc2 = 2.6699516$		(2) $Pc2^n = 2.0887071$	
$Pc2 - Pw2$		$Pc2 - Pw2$	
AOF = Q $Pc2^n = 9117$		$Pc2 - Pw2$	

Absolute Open Flow <b>9117</b>		Mcf/d @ 15.025		Angle of Slope _____		Slope, n <b>0.75</b>	
--------------------------------	--	----------------	--	----------------------	--	----------------------	--

Remarks:			
Approved By Commission:		Conducted By: <b>Chic Charley</b>	
		Calculated By: <b>Tracy Ross</b>	
		Checked By: <b>David Spitz</b>	



UNITED STATES  
DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICE AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION TO DRILL" for permit for such proposals.

5. Lease Designation and Serial No.  
SF-078772

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation  
ROSA UNIT

Well Name and No.  
ROSA UNIT #164A

9. API Well No.  
30-039-26080

10. Field and Pool, or Exploratory Area  
BLANCO MV

11. County or Parish, State  
RIO ARRIBA, NM

SUBMIT IN TRIPLICATE

1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator  
WILLIAMS PRODUCTION COMPANY

3. Address and Telephone No.  
PO BOX 3102 MS 37-2, TULSA, OK 74101 (918) 573-6254

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1400 FSL & 1190 FEL, NW/4 SE/4 SEC 1-31N-6W

CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other DRILLING OPERATIONS

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water  
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

4-30-1999 Move on location and rig up. Drill rat and mouse holes. Spud 12-1/4" surface hole with bit #1 (12-1/4", SEC, S35J) at 2130 hrs 4/29/99. TFB #1 at 40'. Drilling ahead with spud mud and bit #2 (12-1/4", SEC, S35J).

5-01-1999 TD surface hole at 535' with bit #2 (12-1/4", SEC, S35J). Circulate hole clean and TOH. Ran 13 jts (509.26') of 9-5/8", 36#, J-55 casing and set at 523' KB. BJ cemented with 300 sx (360 cu.ft.) of CI "B" with 3% CaCl<sub>2</sub> and 1/4# cello-flake/sk. Displaced plug with 37 bbls of water. Plug down at 2115 hrs 4/30/99. Circulated out 8 bbls of cement. WOC. Nipple up BOP'S and pressure test to 1500#.

5-02-1999 Pressure test to 1500# - held OK. Drilling ahead with water and polymer and bit #3 (8-3/4", HTC, J11).

5-03-1999 Trip for #3 (8-3/4", HTC, J11) at 2565'. Drilling ahead with bit #5 (8-3/4", RTC, HP51).

5-04-1999 TD intermediate hole at 3606' with bit #5 (8-3/4", RTC, HP51). Circulate hole clean and wait on loggers. TOH and log.

Continued on reverse side

14. I hereby certify that the foregoing is true and correct

Signed

Tracy Ross  
Tracy Ross

Title Production Analyst

Date May 13, 1999

(This space for Federal or State office use)

Approved by

Title

Conditions of approval, if any:

ACCEPTED FOR RECORD

MAY 20 1999

5-05-1999 Halliburton finished running IES/GR and CDL/CNL logs. TIH and circulate hole. TOH and LDDP and DC. RU casing crew. Ran 82 jts. (3611.95') of 7", 20#, K-55, ST&C casing and landed at 3612' KB. Float at 3570'. Rig up BJ and cement with 460 sx (938 cu.ft.) of CI "B" 65/35 poz with 8% gel, 2% CaCl<sub>2</sub> and 1/4# celloflake/sk. Tailed with 220 sx (319 cu.ft.) of CI "B" 50/50 poz with 4% gel, 1/4# celloflake/sk, 0.4% FL-52, and 2% CaCl<sub>2</sub>. Displaced plug with 143 bbls of water. Plug down at 2000 hrs 5/4/99. Circulated out 5 bbls of cement. ND BOP. Nipple up BOP's and pressure test to 1500# held OK. TIH with bit #6 (6-1/4", HTC, STR -09).

5-06-1999 TIH and tag cement at 3565'. Drill cement. Unload hole with nitrogen and continue drilling with gas and bit #6 (6-1/4", HTC, STR -09).

5-07-1999 TD well with gas and bit #6 (6-1/4", HTC, STR -09) at 6060'. Blow hole clean. Start TOH for logs.

5-08-1999 Finish TOH. Wait on HLS from 0645 to 1700 hrs. RU Halliburton & run IND/GR and DEN/NEU/TEMP logs. RD Halliburton. RU casing crew and run 68 jts. (2597.32') of 4-1/2", 10.5#, K-55, ST&C casing and TIW 4-1/2"x7" liner hanger on drill pipe and landed at 6060' KB. Latch collar at 6039' KB and marker joint at 5501' KB. Top of liner @ 3461' - 119' of overlap into 7". Rig up BJ. Precede cement w/ 20 bbls of gel and 10 bbls of fresh water. Cement with 80 sx (116 cu.ft.) of CI "B" 50/50 poz with 4% Gel, 0.4% FL52, and 2% CaCl<sub>2</sub>. Tailed with 245 sx (343 cu.ft.) of CI "B" 50/50 poz with 4% Gel, 0.4% FL-52, 2% CaCl<sub>2</sub>, and 1/4#/sk celloflake. Displaced plug with 68 bbls of water. Plug down at 0700 hrs 5/8/99. Set pack-off and circulate out 12 bbls of cement. Lay down DP and TIW setting tool. ND BOP's. Rig released at 1200 p.m. 5/8/99. Final Report.

UNITED STATES  
DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICE AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION TO DRILL" for permit for such proposals

5. Lease Designation and Serial No.  
SF-078772

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.  
ROSA UNIT #164A

2. Name of Operator  
WILLIAMS PRODUCTION COMPANY

9. API Well No.  
30-039-26080

3. Address and Telephone No.  
PO BOX 3102 MS 37-2, TULSA, OK 74101 (918) 573-6254

10. Field and Pool, or Exploratory Area  
BLANCO MV

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
4951420' FSL & 1490' FEL, NW/4 SE/4 SEC 1-31N-6W

11. County or Parish, State  
RIO ARRIBA, NM

12.10

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other SPUD WELL

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water  
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

This well was spudded 2130 hrs 4-29-1999.

RECEIVED  
MAY 13 1999  
OIL CON. DIV.  
DIST. 3

COPIES TO FILE: 51  
MAY 10 1999

14. I hereby certify that the foregoing is true and correct

Signed Tracy Ross  
Tracy Ross

Title Production Analyst

Date May 5, 1999

(This space for Federal or State office use)

Approved by \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

ACCEPTED FOR RECORD

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MMOCD

MAY 11 1999

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals

93 FEB 19 AM 8:52

070 FEB 19 1993

Lease Designation and Serial No.  
SF - 078772

If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

RECEIVED  
APR 15 1999

1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator  
Williams Production Company

3. Address and Telephone No. C/O Walsh Engineering & Production Corp.  
7415 East Main Farmington, NM 87402 505-327-4892

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1495' FSL & 1210 FEL, Section 1, T31N, R6W

7. If Unit or CA, Agreement Designation  
Rosa Unit

8. Well Name and No.  
Rosa Unit #164A

9. API Well No.  
30-039-26280

10. Field and Pool, or Exploratory Area  
Blanco Mesa Verde

11. County or Parish, State  
Rio Arriba County, NM

CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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TYPE OF ACTION

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- ☒ Change of Plans  
☐ New Construction  
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☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Williams Production proposes to change the location of this well slightly to accommodate another well which will be directionally drilled from this pad. Old location: 1480 FSL and 1190 FEL. New location: 1495 FSL and 1210 FEL. All other aspects of the APD package remain the same.

RHS  
4/12/99

14. I hereby certify that the foregoing is true and correct

Signed Paul C. Thompson Title Agent Date May 8, 1998

(This space for Federal or State office use)

Approved by Chip Harwood  
Conditions of approval, if any.

Title Acting Team Lead Date 4/12/99

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-10

Revised February 21, 1999

Instructions on back  
Submit to Appropriate District Office

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Fee Lease - 3 Copies

99 FEB 19 11:00 AM AMENDED REPORT

070 FACILITY, NM

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number		*Pool Code 72319	*Pool Name Blanco Mesa Verde	
*Property Code 008480	*Property Name ROSA UNIT			*Well Number 164A
*GRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY			*Elevation 6313'

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
J	1	31N	6W		1495	SOUTH	1210	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

12 Dedicated Acres 303.88	13 Joint or Infill I	14 Consolidation Code U	15 Order No.
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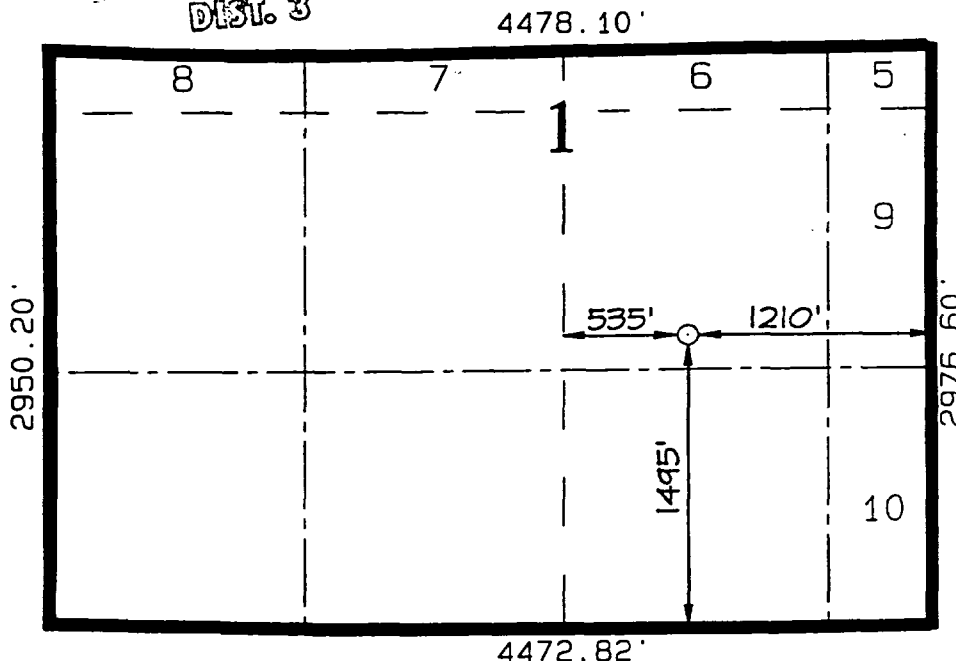
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16

RECEIVED

APR 15 1999

OIL CON. DIV.  
DIST. 3



17 OPERATOR CERTIFICATION

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

*Paul C. Thompson*  
Signature

Paul C. Thompson

Printed Name

Agent

Title

2/18/99

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.

FEBRUARY 3, 1999

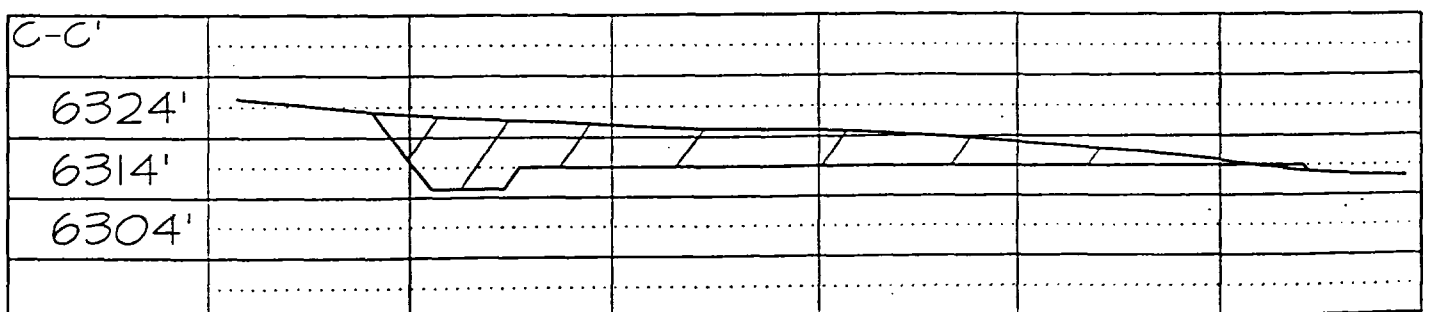
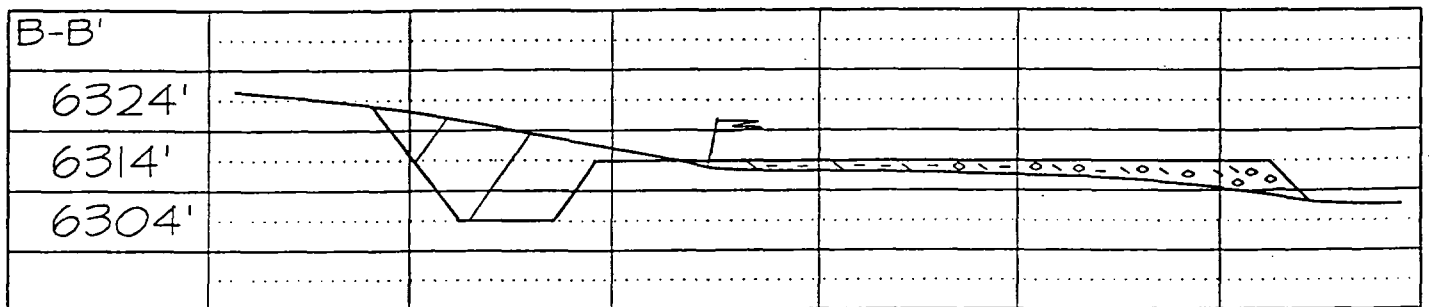
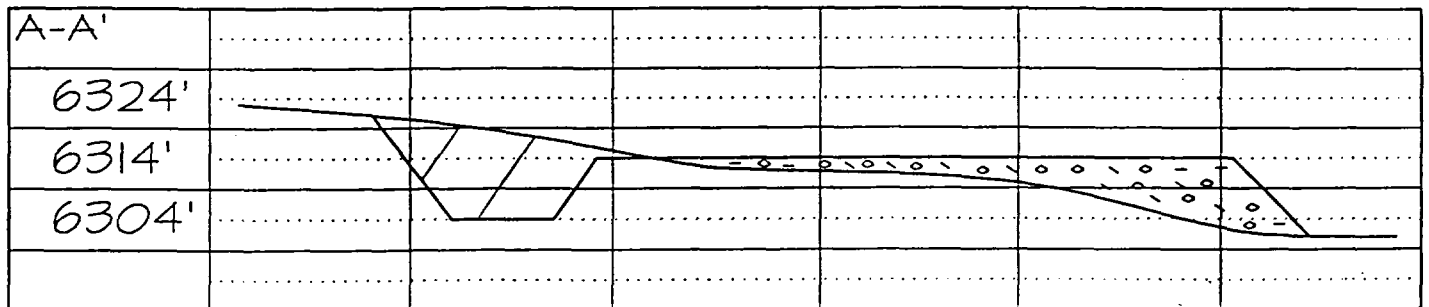
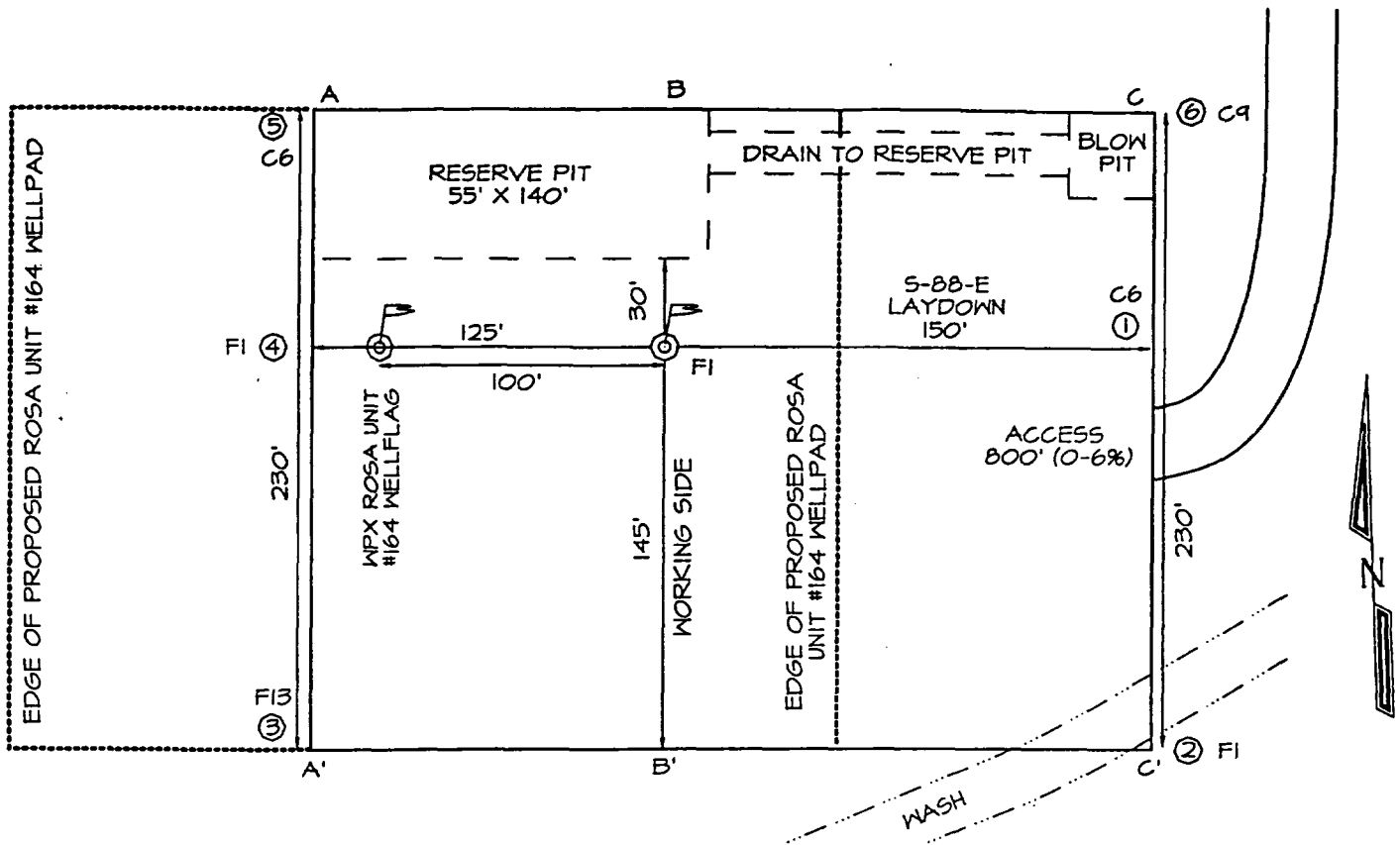
Date of Survey

Signature and Seal of Professional Surveyor

*NEALE C. EDWARDS*  
NEW MEXICO  
6857  
Certificated Number 6857

HOLD CTM FOR NSP

**WILLIAMS PRODUCTION COMPANY ROSA UNIT #164A**  
**1495' FSL & 1210' FEL, SECTION 1, T31N, R6W, NMPM**  
**RIO ARriba COUNTY, NEW MEXICO**  
**GROUND ELEVATION: 6313'**



SUBMIT IN TRIPPLICATE\*  
(Other instructions on  
RECEIVED  
BLM  
reverse side)

Form approved.  
Budget Bureau No. 1004-0136  
Expires December 31, 1991

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>		1b. TYPE OF WELL <b>OIL</b> <input type="checkbox"/> <b>GAS</b> <input checked="" type="checkbox"/> <b>OTHER</b> <input type="checkbox"/> <b>SINGLE ZONE</b> <input checked="" type="checkbox"/> <b>MULTIPLE ZONE</b> <input type="checkbox"/>	
2. NAME OF OPERATOR <b>Williams Production Company</b>		5. LEASE DESIGNATION AND SERIAL NO. <b>SF- 078772</b>	
3. ADDRESS OF OPERATOR <b>c/o Walsh Engineering 7415 E. Main St., Farmington, NM 82402-(505) 327-4892</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements *) <b>At Surface 1480' FSL and 1190' FEL</b> <b>At proposed Prod. Zone</b>		7. UNIT AGREEMENT NAME <b>Rosa Unit</b> <b>17033</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <b>28 miles NE of Blanco, NM</b>		8. FARM OR LEASE NAME <b>API # 30-039-26080</b>	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) <b>1190'</b>	16. NO. OF ACRES IN LEASE <b>2561.86</b>	9. WELL NO. <b>164A</b>	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT. <b>700'</b>	19. PROPOSED DEPTH <b>6060'</b>	10. FIELD AND POOL OR WILDCAT <b>Blanco Mesa Verde</b>	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>6312' GR</b>		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>J Sec. 1, T31N, R6W</b>	
23. PROPOSED CASING AND CEMENTING PROGRAM		12. COUNTY OR PARISH <b>Rio Arriba</b>	
17. NO. OF ACRES ASSIGNED TO THIS WELL <b>303.88</b>		13. STATE <b>NM</b>	
20. ROTARY OR CABLE TOOLS <b>Rotary</b>		22. APPROX. DATE WORK WILL START* <b>April 1999</b>	

This action is **6-1/4"** to **4-1/2"** and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.

**Williams Production Company proposes to drill a vertical well to develop the Mesa Verde formation at the above described location in accordance with the attached drilling and surface use plans.**

**This location has been archaeologically surveyed by Moore Anthropological Research. Copies of their report have been submitted directly to your office.**

**This APD also is serving as an application to obtain BLM road and pipeline right-of-ways. This well will be accessed by a new access road which will be 300' long and 20' wide. It will cross the E2NE of Sec. 26, T31N, R6W where it joins the main Rosa Road. The Rosa Road continues SE for 12 miles where it joins the Sims Mesa Highway.**

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED Paul C. Thompson TITLE Paul C. Thompson, Ager DATE 1/19/99

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY Chip Hanader TITLE Acting Team Lead DATE 4/9/99

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

HOLD 0704 FOR ALSP

NMOCD

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 Dept

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

Form C-102  
Revised February 21, 1994  
Instructions on back  
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93 JAN 25 PM 1:20 AMENDED REPORT

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*OGRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY		*Elevation 6312'

<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
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<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
<sup>12</sup> Dedicated Acres 303.88		<sup>13</sup> Joint or Infill I		<sup>14</sup> Consolidation Code U		<sup>15</sup> Order No.			

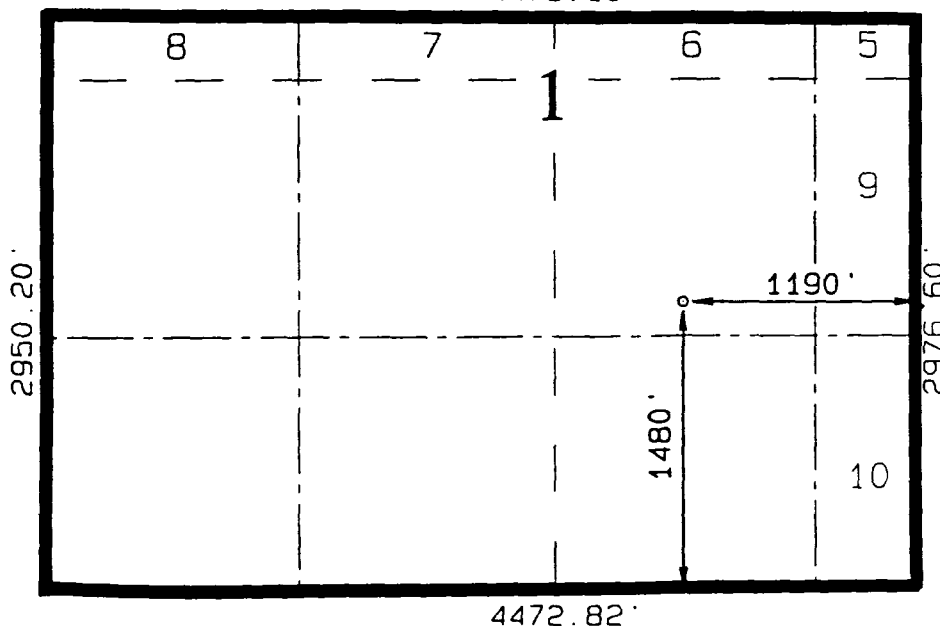
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16

APR 12 1993

OIL CON. DIV.  
DATE

4478.10'



<sup>17</sup> OPERATOR CERTIFICATION

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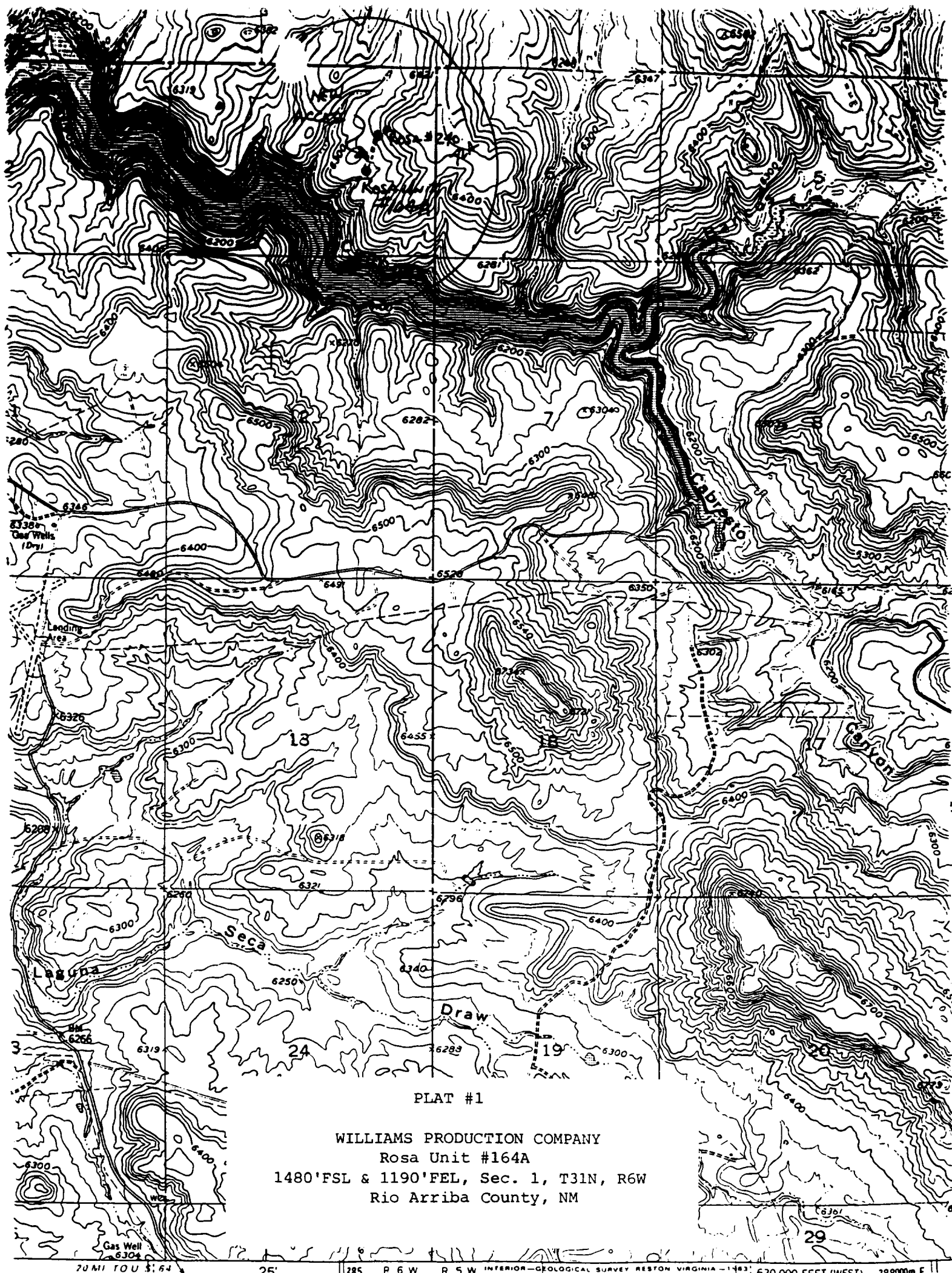
*Paul C. Thompson*  
Signature  
Paul C. Thompson  
Printed Name  
Agent  
Title  
1/21/99  
Date

<sup>18</sup> SURVEYOR CERTIFICATION

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NOVEMBER 11 1997  
Date of Survey  
Signature and Seal of Professional Surveyor  
NEALE C. EDWARDS  
NEW MEXICO  
6857  
REGISTERED PROFESSIONAL SURVEYOR  
Certificate Number





PLAT #1

WILLIAMS PRODUCTION COMPANY  
Rosa Unit #164A  
1480'FSL & 1190'FEL, Sec. 1, T31N, R6W  
Rio Arriba County, NM

# ROSA

RIO ARRIBA & SAN JUAN COUNTIES  
NEW MEXICO

No. I-SEC. No. 587

EFFECTIVE 6-24-48

