



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

July 22, 1999

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

WA 228
12227

Attention: Paul C. Thompson

Re: Administrative application to establish a non-standard 352.87-acre, more or less, gas spacing and proration unit within the Blanco-Mesaverde Pool comprising all of irregular Section 3, Township 31 North, Range 6 West, NMPM, Rio Arriba and San Juan Counties, 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:

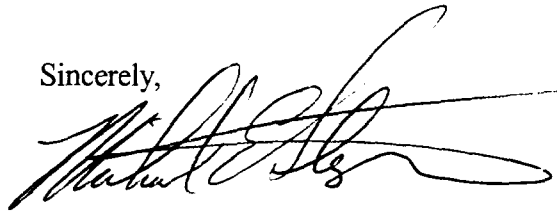
"Application of Williams Production Company for a non-standard gas proration, Rio Arriba County, New Mexico. Applicant seeks to establish a non-standard 352.87-acre gas spacing and proration unit within the Blanco-Mesaverde Pool comprising all of irregular Section 3, Township 31 North, Range 6 West, which lays in both Rio Arriba and San Juan Counties and is located approximately 12.5 miles northeast of the Navajo Lake Dam. Blanco-Mesaverde gas production from both the Williams Production Company's: (i) Rosa Unit Well No. 169 (API No. 30-039-26130), located 2375 feet from the South line and 1750 feet from the East line (Unit J) of Section 3; and (ii) Rosa Unit Well No. 169-A (API No. 30-039-26149), located on the surface 2460 feet from the South line and 1695 feet from the East line (Unit J) of Section 3, 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 22, 1999
Page 2

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 long horizontal flourish extending to the right.

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
Ms. Terry Ross, Williams Production Company – Telefax No. (918) 573-1298

**WALSH**

ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting
Lease Management
Contract Pumping7415 East Main
Farmington, New Mexico 87402
(505) 327-4892 • Fax: (505) 327-9834

July 19, 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 #169A
2375' FSL, 1750' FEL
Section 3, 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 3 and lots 5,6,7,8,9, and 37, T31N, R6W, which is 352.87 acres due to a variation in the legal subdivision of the U.S. Public Land Surveys. This is a directional well which will have a bottom hole location in the southwest quarter of Section 3.

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised February 21, 1994

District II
PO Drawer 00, Artesia, NM 88211-0719

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

Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

☐ 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 COM		*Well Number 169A
*OGRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY		*Elevation 6358'

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	3	31N	6W		2460	SOUTH	1695	EAST	RIO ARriba

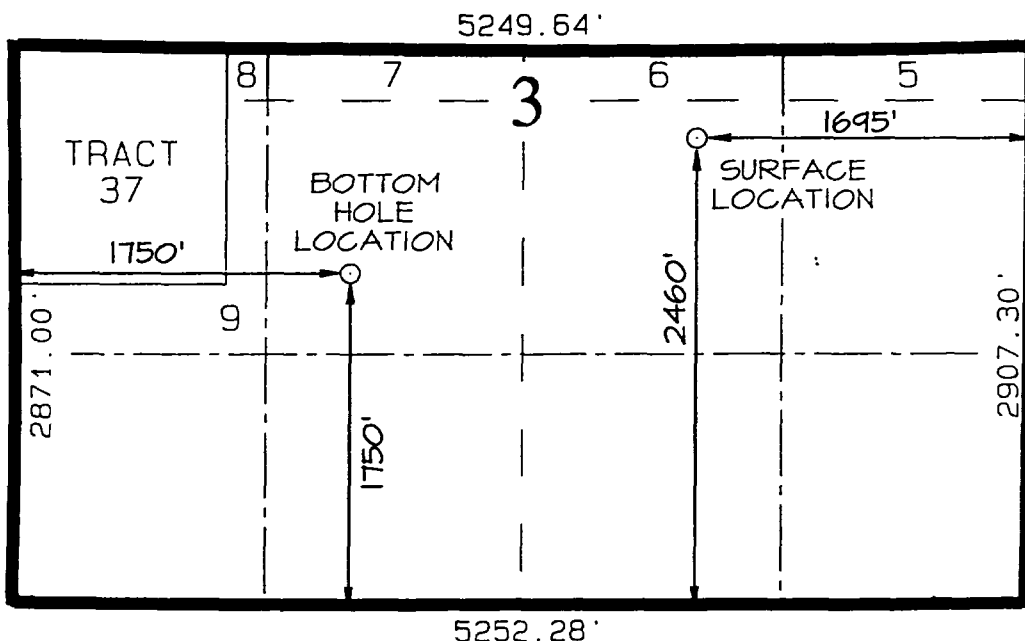
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	3	31N	6W		1750	SOUTH	1750	WEST	SAN JUAN

¹² Dedicated Acres 352.87	¹³ Joint or Infill Y	¹⁴ Consolidation Code U	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

15



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
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 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

NEALE C. EDWARDS
NEW MEXICO
6857
Certificate Number 6857

**WALSH**

ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting

Lease Management

Contract Pumping

7415 East Main

Farmington, New Mexico 87402

(505) 327-4892 • Fax: (505) 327-9634

July 19, 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 #169
2460' FSL, 1695' FEL
Section 3, 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 3 and lots 5,6,7,8,9, and 37, T31N, R6W, which is 352.87 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 1580, 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		*Pool Code	*Pool Name
		72319	Blanco Mesa Verde
*Property Code	*Property Name		*Well Number
008480	ROSA UNIT COM		169
*OGRID No.	*Operator Name		*Elevation
120782	WILLIAMS PRODUCTION COMPANY		6351'

¹⁰ Surface Location

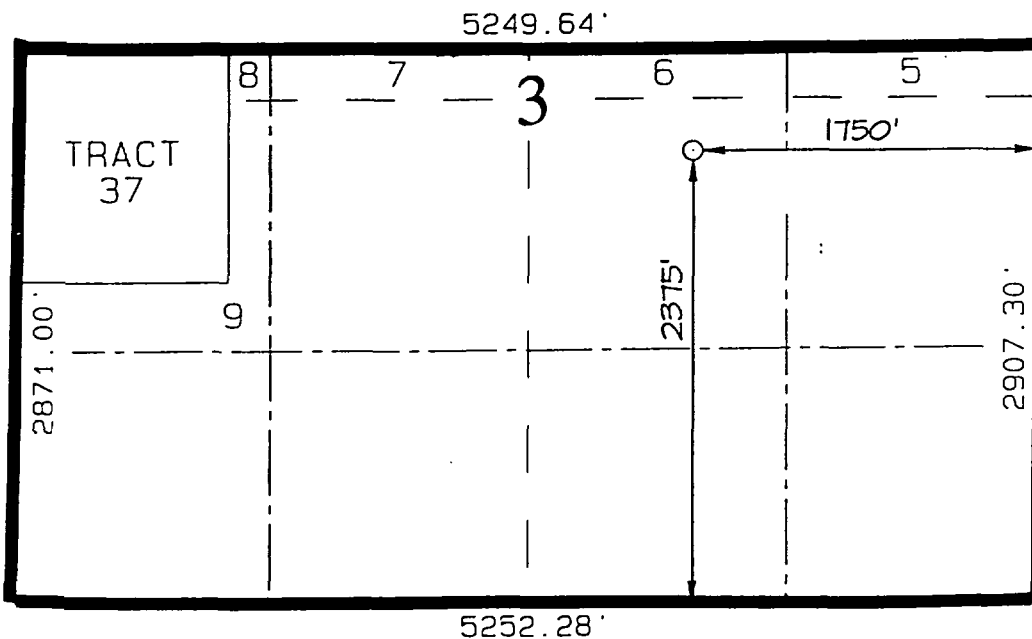
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	3	31N	6W		2375	SOUTH	1750	EAST	RIO ARriba

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
*Dedicated Acres		*Joint or Infill		*Consolidation Code		*Order No.			
352.87		Y		U					

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

15



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
2/25/99

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



CMD :
OG5SECT

ONGARD
INQUIRE LAND BY SECTION

07/22/99 13:26:32
OGOMES -TPX8
PAGE NO: 2

Sec : 03 Twp : 31N Rng : 06W Section Type : NORMAL

9 11.26 35.79	K 40.00	J 40.00	I 40.00
Mixed Non State U U	Federal owned U	Federal owned U A A A	Federal owned U
M 40.00	N 40.00	O 40.00	P 40.00
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

CMD :
OG5SECT

ONGARD
INQUIRE LAND BY SECTION

07/22/99 13:26:21
OGOMES -TPX8
PAGE NO: 1

Sec : 03 Twp : 31N Rng : 06W Section Type : NORMAL

8 37 0.43 35.79	7 7.41	6 7.69	5 7.96
Mixed Non State U U	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

352.87
350.54

2.33

CMD :
OG6IWCM

ONGARD
INQUIRE WELL COMPLETIONS

07/22/99 13:35:34
OGOMES -TPX8

API Well No : 30 39 26130 Eff Date : 07-02-1999 WC Status :
Pool Idn : 72319 BLANCO-MESAVERDE (PRORATED GAS)
OGRID Idn : 120782 WILLIAMS PRODUCTION COMPANY
Prop Idn : 17033 ROSA UNIT

Well No : 169
GL Elevation: 6351

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
	---	---	-----	-----	-----	-----	-----
B.H. Locn : J	3	31N	06W	FTG 2375	F S	FTG 1750	F E P

Lot Identifier:
Dedicated Acre: 386.33
Lease Type : F
Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) : U

M0025: Enter PF keys to scroll

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07	PF08	PF09	PF10 NEXT-WC	PF11 HISTORY	PF12 NXTREC

CMD :
OG6IWCM

ONGARD
INQUIRE WELL COMPLETIONS

07/22/99 13:35:49
OGOMES -TPXE

API Well No : 30 39 26149 Eff Date : 07-09-1999 WC Status :
Pool Idn : 72319 BLANCO-MESAVERDE (PRORATED GAS)
OGRID Idn : 120782 WILLIAMS PRODUCTION COMPANY
Prop Idn : 17033 ROSA UNIT

Well No : 169A
GL Elevation: 6358

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
	---	---	-----	-----	-----	-----	-----
B.H. Locn : J	3	31N	06W	FTG 2460	F S	FTG 1695	F E P

Lot Identifier:

Dedicated Acre: 386.33

Lease Type : F

Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) : U

M0025: Enter PF keys to scroll

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07	PF08	PF09	PF10 NEXT-WC	PF11 HISTORY	PF12 NXTREC

In Lieu of
Form 3160
(June 1990)

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

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 12-141 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	8. Well Name and No. ROSA UNIT #169A
2. Name of Operator WILLIAMS PRODUCTION COMPANY	9. API Well No. 30-039-26149
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) 2460' FSL & 1695' FEL, NE/4 SE/4 SEC 3-31N-6W	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 Complete</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.)*

5-28-1999 MIRU. Drill rat & mouse holes. Spud 8-3/4" pilot hole at 0230 hrs 5/28/99

5-29-1999 TD surface hole with bit #2 (12-1/4", HTC) at 533'. Circulate and TOH. Ran 12 joints (497.59') of 9-5/8" 36#, K-55, ST&C csg and set at 511.59' KB. BJ cemented with 450 sx (535 cu.ft.) of Cl "B" with 3% CaCl₂ and 1/4# cello-flake/sk. Displaced plug with 31 bbls of water. Plug down at 1900 hrs 5/28/99. Circulated out 15 bbls of cement. WOC. Nipple up BOP'S and pressure test to 1500# - held OK

5-30-1999 Finish pressure test to 1500# - held OK. Re-drill mouse hole. TIH w/ bit #3 (8-3/4", HTC, GTS-09T) & test mud motor. Continue TIH. Tag up on cement. Break circulation & drill out cement. Continue drilling new hole @ report time

5-31-1999 Drilling ahead w/ bit #3 (8-3/4", HTC, GTS-09T)

6-01-1999 Drilling ahead w/ bit #3 (8-3/4", HTC, GTS-09T). At MD = 3175', Inc. = 36.1, Az = 244.900, TVD = 2870', 484.69' south & 1011.74' west

6-02-1999 TFB #3 (8-3/4", HTC, GTS-09T) @ 3910'. MD = 3858.51', Inc. = 36, Az = 238.700, TVD = 3422.40', 652.83' south and 1376.39' west

Continued on reverse side

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

Signed Tracy Ross
Tracy Ross

Title Production Analyst

Date June 8, 1999

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any:

FOR RECORD

JUN 14 1999

6-03-1999 TD intermediate hole with bit #4 (8-3/4", HTC, GTS-09T) at 4060'. Circulate hole clean. TOH and LDDP and DC. Change rams and rig up casing crew. Run 7" casing. Currently washing to bottom. Casing details on tomorrow's report

6-04-1999 Ran 97 jts. (4060.92') of 7", 20#, K-55, ST&C casing and landed at 4060' KB. Float at 4016'. Rig up BJ and precede cement with 10 bbls of water and 10 bbls of scavenger cement. Cemented with 480 sx (1031 cu.ft.) of Cl "B" 65/35 poz with 10% gel, 2% CaCl₂ and 1/4# celloflake/sk. Tailed with 290 sx (346 cu.ft.) of Cl "B" with 1/4# celloflake/sk, and 2% CaCl₂. Displaced plug with 162 bbls of water. Plug down at 0800 hrs 6/3/99. Circulated out 20 bbls of cement. ND BOP. Set slips w/ #80,000 and cut off casing. Nipple up BOP's and pressure test to 1500# - held OK. TIH with bit #5 (6-1/4", HTC, STR09) and drilled cement. Unloaded well with nitrogen and continued drilling new hole with gas. MD= 4301', Inc. = 19.5, Az = 252.3, TVD = 3814, 741.45' south, 1557.16' west

6-05-1999 Drilling ahead bit #5 (6-1/4", HTC, STR09). MD= 5347', Inc = 8.25, Az = 316.3, TVD = 4815.49' 673.21' south, 1826.77' west

6-06-1999 TD hole at 6607' with gas and bit #5 (6-1/4", HTC, STR09). Blow hole clean and prepare to TOH. MD= 6607', Inc.= 3.50, Az =326.30, TVD = 6070.32' 586.84' south, 1985.57' west

6-07-1999 TOH and stand back half of drill pipe. Lay down the remainder of the DP and DC. RU casing crew and run 62 jts. (2681.00') 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 6607' KB. Latch collar at 6588' KB and marker joint at 5877' KB. Top of liner @ 3926' - 134' of overlap into 7". Rig up BJ. Precede cement w/ 20 bbls of gel and 10 bbls of fresh water. Cement with 80 sx (110 cu.ft.) of Cl "B" 50/50 poz with 2% Gel, 0.4% FL52, and 2% CaCl₂. Tailed with 245 sx (331 cu.ft.) of Cl "B" 50/50 poz with 2% Gel, 0.4% FL-52, 2% CaCl₂, and 1/4#sk celloflake. Displaced plug with 70 bbls of water. Plug down at 1700 hrs 6/6/99. Set pack-off and circulate out 12 bbls of cement. Lay down DP and TIW setting tool. ND BOP's. Rig released

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

RECEIVED
BLM

99 JUN - 1 PM 1:14
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) 2460' FSL & 1695' FEL, NE/4 SE/4 SEC 3-31N-6W	8. Well Name and No. ROSA UNIT #169A
	9. API Well No. 30-039-26149
	10. Field and Pool, or Exploratory Area BLANCO MV
	11. County or Parish, State RIO ARRIBA, NM

RECEIVED
JUN - 4 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 0230 hrs 5-28-1999.

APD/ROW

RECEIVED
JUN - 4 1999
OIL CON. DIV.
DIST. 3

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 RECORDED FOR RECORD

Conditions of approval, if any:

JUN 1 1999

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

20 MAR 1991 AM 7:51

5. LEASE DESIGNATION AND SERIAL NO.

SF- 078772

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Rosa Unit 17033

8. FARM OR LEASE NAME

9. WELL NO.

169A APD# 30-03926149

10. FIELD AND POOL OR WILDCAT

Blanco Mesa Verde

11. SEC., T., R., M., OR BLK
AND SURVEY OR AREA

J Sec. 3, T31N, R6W

12. COUNTY OR PARISH

Rio Arriba

13. STATE

NM

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

1b. TYPE OF WELL

OIL
WELL ☐

GAS
WELL ☒

OTHER ☐

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Williams Production Company

3. ADDRESS OF OPERATOR

c/o Walsh Engineering 7415 E. Main St., Farmington, NM 87402 (505) 327-4892

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At Surface 2460' FSL and 1695' FEL

At proposed Prod. Zone

1750' FSL and 1750' FWL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

28 miles NE of Blanco, NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY
OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)

447

16. NO. OF ACRES IN LEASE

2561.86

17. NO. OF ACRES ASSIGNED TO THIS WELL

352.87 ALL

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL,
DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.

100'

19. PROPOSED DEPTH

This action is subject to technical review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6358' GR

22. APPROX. DATE WORK WILL START*

May 1999

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	500'	312 cu.ft. Cl "H" with 2% CaCl ₂
8-3/4"	7"	20#	3767'	885cu.ft.65/35 poz & 217cu.ft.50/50 poz
6-1/4"	4-1/2"	10.5#	3667' - 6648'	130cu.ft.50/50 poz & 390cu.ft.50/50 poz

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 road as the Rosa #169, which crosses the SE/4 of Sec.34, the SW/NW of Sec. 35, E2/NE of Sec. 34, the SE/SE of Sec. 27 the, S/2S/2 of Sec. 26, the S2/S2 of Sec. 25 all of T32N, R6W, the SW/SW of Sec. 30, W2/W2 and SE/SW of Sec. 32 all of T32N, R5W, the NW/SE and NE/se of Sec. 5, T31N, R5W, where it joins the main Rosa Road.

The Rosa Road continues SE for 19 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.

24.

SIGNED

Paul C. Thompson

TITLE Paul C. Thompson, Ager.

DATE

3/15/99

(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 /S/ Duane W. Spencer

TITLE Team Lead, Petroleum Management

DATE

APR 27 1999

*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.

WILD C104 FOR NISP

NMCCD

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

Form C-102
Revised February 21, 1992
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

99 MAR 18 AM 7:51

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-26149	*Pool Code 72319	*Pool Name Blanco Mesa Verde
*Property Code 008480 17033	*Property Name ROSA UNIT COM	*Well Number 169A
*OGRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY	*Elevation 6358'

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	3	31N	6W		2460	SOUTH	1695	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	3	31N	6W		1750	SOUTH	1750	WEST	SAN JUAN

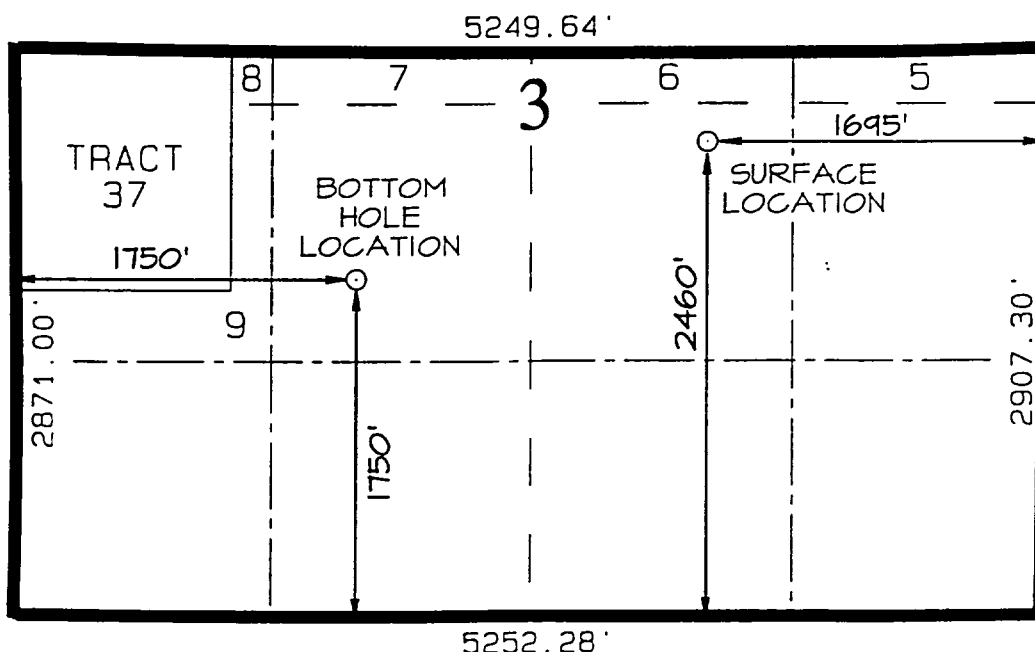
¹² Dedicated Acres 352.87	¹³ Joint or Infill Y	¹⁴ Consolidation Code U	¹⁵ Order No.
---	------------------------------------	---------------------------------------	-------------------------

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

16

APR 23 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
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 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
REGISTERED PROFESSIONAL SURVEYOR
Certificate Number 6857

WILLIAMS PRODUCTION COMPANY
OPERATIONS PLAN

DATE: 3/8/99

WELLNAME: ROSA #169A **FIELD** Blanco MV

SURFACE LOCATION: NW4/SE4 Sec. 3, T31N, R06W **SURFACE:** BOR
Rio Arriba, NM

BOTTOM HOLE LOCATION: NE4/SW4 Sec. 3, T31N, R06W
Rio Arriba, NM

ELEVATION: 6358' GR **MINERALS:** Federal

TRUE VERTICAL DEPTH: 6100' **LEASE #** SF-078772

MEASURED DEPTH: 6648'

I. GEOLOGY: Surface formation - San Jose

A. FORMATION TOPS: (KB)

	<u>TVD</u>	<u>MD</u>		<u>TVD</u>	<u>MD</u>
Ojo Alamo	2349'	2435'	Cliff House	5389'	5900'
Kirtland	2474'	2579'	Menefee	5434'	5947'
Fruitland	2874'	3043'	Point Lookout	5629'	6153'
Pictured Cliffs	3149'	3361'	Mancos	5844'	6589'
Lewis	3454'	3714'	Total Depth	6100'	6648'

B. LOGGING PROGRAM: IND/GR, CDL/SNL. Log the Pictured Cliffs from TD to the Kirtland. Log the Mesa Verde from TD to 500' above the top of the Cliff House.

C. NATURAL GAUGES: Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

II. DRILLING

A. MUD PROGRAM: Clear water with benex to 7" casing point. LSND to log and run pipe.

B. BOP TESTING: While drill pipe is in use, the pipe rams will be tested not less than once each day. The blind rams will be tested once each trip. The drum brakes will be inspected and tested each tour. All tests and inspections will be recorded in the tour book as to time and results.

III. MATERIALS

A. CASING PROGRAM:

<u>CASING TYPE</u>	<u>HOLE SIZE</u>	<u>DEPTH(MD)</u>	<u>CASING SIZE</u>	<u>WT. & GRADE</u>
Surface	12-1/4"	500'	9-5/8"	36# K-55
Intermediate	8-3/4"	3767'	7"	20# K-55
Prod. Liner	6-1/4"	3667'-6648'	4-1/2"	10.5# K-55

B. FLOAT EQUIPMENT:

1. **SURFACE CASING:** 9-5/8" notched regular pattern guide shoe.

2. **INTERMEDIATE CASING:** 7" cement nose guide shoe with a self- fill insert float. Place float one(1) joint above the shoe and one centralizer, spaced every joint, starting with the float collar. Place turbulent centralizers, at 120' intervals, starting at 2625' to the surface. Total centralizers = 28 regular and 22 turbulent.

3. PRODUCTION CASING: 4-1/2" whirler type cement nose guide shoe with a latch collar on top of 20' bottom joint. Place marker joint above 5700'. Place one positive standoff turbolizer every other joint. Total turbolizers is 36.

C. CEMENTING:

1. SURFACE: Use 260 sx (312 cu.ft.) of class "H" with 2% CaCl₂ and 1/4# of cello-flake/sk (Yield = 1.20 cu.ft./sk, Weight = 15.6 #/gal.). Use 100% excess to circulate the surface. WOC 12 hours. Test to 1500#.

2. INTERMEDIATE: Lead - 435 sx (885 cu.ft.) of class "H" 65/35 poz with 10% gel, 2% CaCl₂, and 1/4# cello-flake/sk (Yield = 2.04 cu.ft./sk, Weight = 12.3 #/gal.). Tail - 150sx (217 cu.ft.) of class "H" 50/50 Poz with 4% gel, 0.4% FL-52, 2% CaCl₂, 1/4# cello-flake/sk, (Yield = 1.45 cu.ft./sk, Weight = 13.2#/gal.). Use 100% excess in lead and 75% excess in tail to circulate to surface. Total volume = 1102 cu.ft. WOC 12 hours. Test to 1500#.

3. PRODUCTION LINER: Lead-90sx (130 cu.ft.) of class "H" 50/50 poz with 4 % gel, 0.4% FL-52, 2% CaCl₂, (Yield = 1.45 cu.ft./sk, Weight = 13.2 #/gal.) Tail-270 sx (390 cu.ft.) of class "H" 50/50 poz with 4 % gel, 0.4% FL-52, 2% CaCl₂, 1/4# celloflake/sk (Yield = 1.45 cu.ft./sk, Weight = 13.2 #/gal.) Displace cement at a minimum of 8 BPM. Use 70% excess in lead and tail to cover liner top. Total volume 520 cuft. WOC 12 hours.

IV COMPLETION

A. CBL

1. Run Cement Bond Log across all intervals to be perforated and find Top of Cement behind all casing strings.

B. PRESSURE TEST

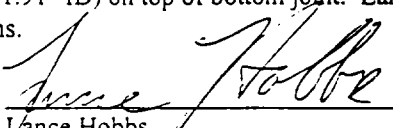
1. Pressure test 7" & 4-1/2" casing to 3300# for 15 minutes.

C. STIMULATION

1. Stimulate Point Lookout with approximately 80,000# of 20/40 sand in slick water.
2. Isolate Point Lookout with a RBP.
3. Perforate the Menefee/Cliff House as determined from the open hole logs.
4. Stimulate with approximately 80,000# of 20/40 sand in slick water.
5. Test each zone before removing bridge plugs.

D. RUNNING TUBING

1. Mesa Verde: Run 2-3/8", 2.9#, J-55, EUE tubing with a SN (1.91" ID) on top of bottom joint. Land tubing approximately 25' above the bottom Point Lookout perforations.


Lance Hobbs
Engineer, Production & Drilling

Sperry-Sun Drilling Services

Proposal Report for Rosa # 169A - Plan 3/3/99

Data Source: Information from Lance Hobbs



Williams Production Company
New Mexico

Rio Arriba County
Sec. 3-T31N-R06W

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (*100ft)
0.00	0.000	0.000	0.00	0.00 N	0.00 E	0.00	
800.00	0.000	0.000	800.00	0.00 N	0.00 E	0.00	0.000
900.00	2.000	250.253	899.98	0.59 S	1.64 W	1.75	2.000
1000.00	4.000	250.253	999.84	2.36 S	6.57 W	6.98	2.000
1100.00	6.000	250.253	1099.45	5.30 S	14.77 W	15.69	2.000
1200.00	8.000	250.253	1198.70	9.42 S	26.24 W	27.88	2.000
1300.00	10.000	250.253	1297.47	14.70 S	40.96 W	43.52	2.000
1400.00	12.000	250.253	1395.62	21.15 S	58.92 W	62.60	2.000
1500.00	14.000	250.253	1493.06	28.75 S	80.09 W	85.10	2.000
1600.00	16.000	250.253	1589.64	37.50 S	104.45 W	110.98	2.000
1700.00	18.000	250.253	1685.27	47.37 S	131.97 W	140.21	2.000
1800.00	20.000	250.253	1779.82	58.37 S	162.61 W	172.77	2.000
1900.00	22.000	250.253	1873.17	70.48 S	196.34 W	208.60	2.000
2000.00	24.000	250.253	1965.21	83.68 S	233.11 W	247.67	2.000
2100.00	26.000	250.253	2055.84	97.96 S	272.88 W	289.93	2.000
2200.00	28.000	250.253	2144.94	113.30 S	315.61 W	335.33	2.000
2300.00	30.000	250.253	2232.39	129.68 S	361.24 W	383.81	2.000
2312.28	30.246	250.253	2243.02	131.76 S	367.04 W	389.97	2.000
2400.00	30.246	250.253	2318.80	146.69 S	408.63 W	434.16	0.000
2500.00	30.246	250.253	2405.18	163.70 S	456.03 W	484.53	0.000
2600.00	30.246	250.253	2491.57	180.72 S	503.44 W	534.90	0.000
2700.00	30.246	250.253	2577.96	197.74 S	550.85 W	585.27	0.000
2800.00	30.246	250.253	2664.34	214.76 S	598.26 W	635.64	0.000
2900.00	30.246	250.253	2750.73	231.78 S	645.67 W	686.01	0.000
3000.00	30.246	250.253	2837.12	248.80 S	693.08 W	736.38	0.000
3100.00	30.246	250.253	2923.51	265.82 S	740.49 W	786.75	0.000
3200.00	30.246	250.253	3009.89	282.83 S	787.90 W	837.12	0.000
3300.00	30.246	250.253	3096.28	299.85 S	835.30 W	887.49	0.000
3400.00	30.246	250.253	3182.67	316.87 S	882.71 W	937.86	0.000
3500.00	30.246	250.253	3269.06	333.89 S	930.12 W	988.24	0.000
3600.00	30.246	250.253	3355.44	350.91 S	977.53 W	1038.61	0.000
3700.00	30.246	250.253	3441.83	367.93 S	1024.94 W	1088.98	0.000
3800.00	30.246	250.253	3528.22	384.95 S	1072.35 W	1139.35	0.000
3900.00	30.246	250.253	3614.61	401.96 S	1119.76 W	1189.72	0.000
4000.00	30.246	250.253	3700.99	418.98 S	1167.17 W	1240.09	0.000
4100.00	30.246	250.253	3787.38	436.00 S	1214.57 W	1290.46	0.000
4200.00	30.246	250.253	3873.77	453.02 S	1261.98 W	1340.83	0.000
4300.00	30.246	250.253	3960.16	470.04 S	1309.39 W	1391.20	0.000
4400.00	30.246	250.253	4046.54	487.06 S	1356.80 W	1441.57	0.000
4500.00	30.246	250.253	4132.93	504.08 S	1404.21 W	1491.94	0.000
4600.00	30.246	250.253	4219.32	521.09 S	1451.62 W	1542.31	0.000
4700.00	30.246	250.253	4305.71	538.11 S	1499.03 W	1592.68	0.000
4800.00	30.246	250.253	4392.09	555.13 S	1546.44 W	1643.06	0.000
4900.00	30.246	250.253	4478.48	572.15 S	1593.84 W	1693.43	0.000
4990.12	30.246	250.253	4556.34	587.49 S	1636.57 W	1738.82	0.000

Continued...

Sperry-Sun Drilling Services

Proposal Report for Rosa # 169A - Plan 3/3/99

Data Source: Information from Lance Hobbs



Williams Production Company
New Mexico

Rio Arriba County
Sec. 3-T31N-R06W

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (*100ft)
5000.00	30.097	250.253	4564.87	589.16 S	1641.24 W	1743.79	1.500
5100.00	28.597	250.253	4652.04	605.72 S	1687.37 W	1792.80	1.500
5200.00	27.097	250.253	4740.45	621.50 S	1731.33 W	1839.51	1.500
5300.00	25.597	250.253	4830.06	636.50 S	1773.10 W	1883.89	1.500
5400.00	24.097	250.253	4920.80	650.70 S	1812.65 W	1925.91	1.500
5500.00	22.597	250.253	5012.61	664.08 S	1849.95 W	1965.53	1.500
5600.00	21.097	250.253	5105.43	676.66 S	1884.98 W	2002.75	1.500
5700.00	19.597	250.253	5199.19	688.41 S	1917.70 W	2037.52	1.500
5800.00	18.097	250.253	5293.82	699.32 S	1948.11 W	2069.82	1.500
5806.50	18.000	250.253	5300.00	700.00 S	1950.00 W	2071.83	1.500
5900.00	18.000	250.253	5388.93	709.76 S	1977.19 W	2100.73	0.000
6000.00	18.000	250.253	5484.03	720.20 S	2006.28 W	2131.63	0.000
6100.00	18.000	250.253	5579.14	730.64 S	2035.36 W	2162.53	0.000
6200.00	18.000	250.253	5674.24	741.08 S	2064.45 W	2193.43	0.000
6300.00	18.000	250.253	5769.35	751.52 S	2093.53 W	2224.34	0.000
6400.00	18.000	250.253	5864.45	761.97 S	2122.62 W	2255.24	0.000
6500.00	18.000	250.253	5959.56	772.41 S	2151.70 W	2286.14	0.000
6600.00	18.000	250.253	6054.67	782.85 S	2180.79 W	2317.04	0.000
6647.67	18.000	250.253	6100.00	787.82 S	2194.65 W	2331.77	0.000

All data is in feet unless otherwise stated. Directions and coordinates are relative to True North.
Vertical depths are relative to RKB. Northings and Eastings are relative to Wellhead.

The Dogleg Severity is in Degrees per 100ft.

Vertical Section is from Wellhead and calculated along an Azimuth of 250.253° (True).

Based upon Minimum Curvature type calculations, at a Measured Depth of 6647.67ft.,
The Bottom Hole Displacement is 2331.77ft., in the Direction of 250.253° (True).

Comments

Measured Depth (ft)	Station TVD (ft)	Coordinates Northings (ft)	Eastings (ft)	Comment
800.00	800.00	0.00 N	0.00 E	Kick-Off Point - 800.00ft
800.01	800.01	0.00 N	0.00 E	Build 2.0°/100' to 30.246° Inc & 250.253° Azm to 2312.28' md
2312.28	2243.02	131.76 S	367.04 W	Hold 30.246° Inc & 250.253° Azm to 4990.12' md
4990.12	4556.33	587.49 S	1636.57 W	Drop 1.5°/100' & to 18.0° Inc & 250.253° Azm to 5806.50' md
5806.50	5300.00	700.00 S	1950.00 W	Target Intersection Point @ 5806.50' md & 5300' TVD

Continued...

Sperry-Sun Drilling Services



Proposal Report for Rosa # 169A - Plan 3/3/99
Data Source: Information from Lance Hobbs

Williams Production Company
New Mexico

Rio Arriba County
Sec. 3-T31N-R06W

Measured Depth (ft)	Station Coordinates			Comment
	TVD (ft)	Northings (ft)	Eastings (ft)	

Comments (Continued)

5806.51	5300.01	700.00 S	1950.00 W	Hold 18° Inc & 250.253° Azm to 6647.67' md
6647.67	6100.00	787.82 S	2194.65 W	TD of Well @ 6647.67' md & 6100' TVD

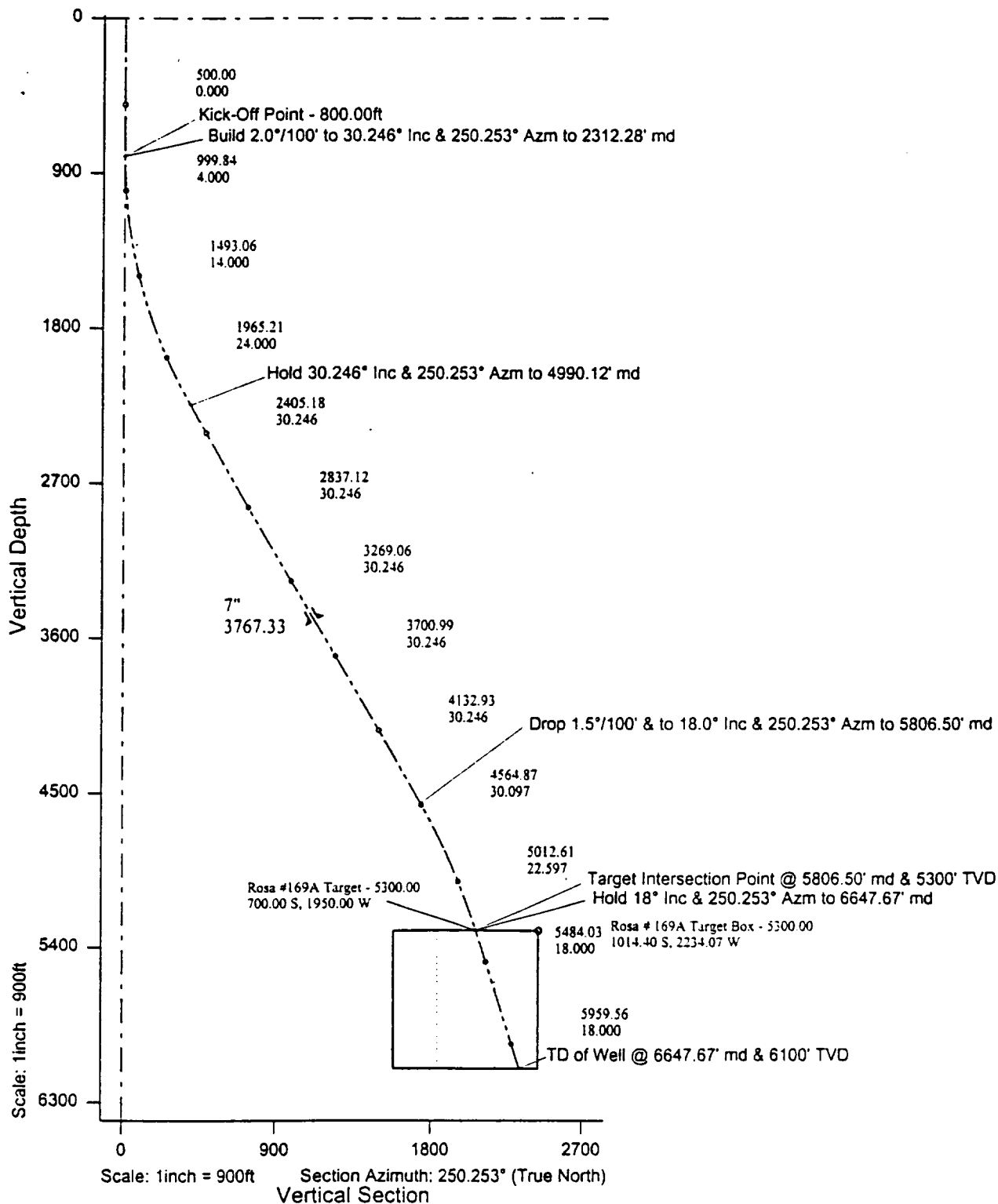
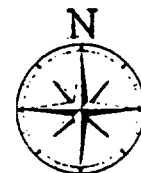
Casing details

From		To		Casing Detail
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	
<Surface>	<Surface>	3767.33	3500.00	7" Casing

Targets associated with this wellpath

Target Name	Target Entry Coordinates			Target Shape	Target Type
	TVD (ft)	Northings (ft)	Eastings (ft)		
Rosa # 169A Target Box	5300.00	1014.40 S	2234.07 W	Polygon	
Rosa #169A Target	5300.00	700.00 S	1950.00 W	Point	

New Mexico
 Rio Arriba County
 Sec. 3-T31N-R06W
 Rosa # 169A



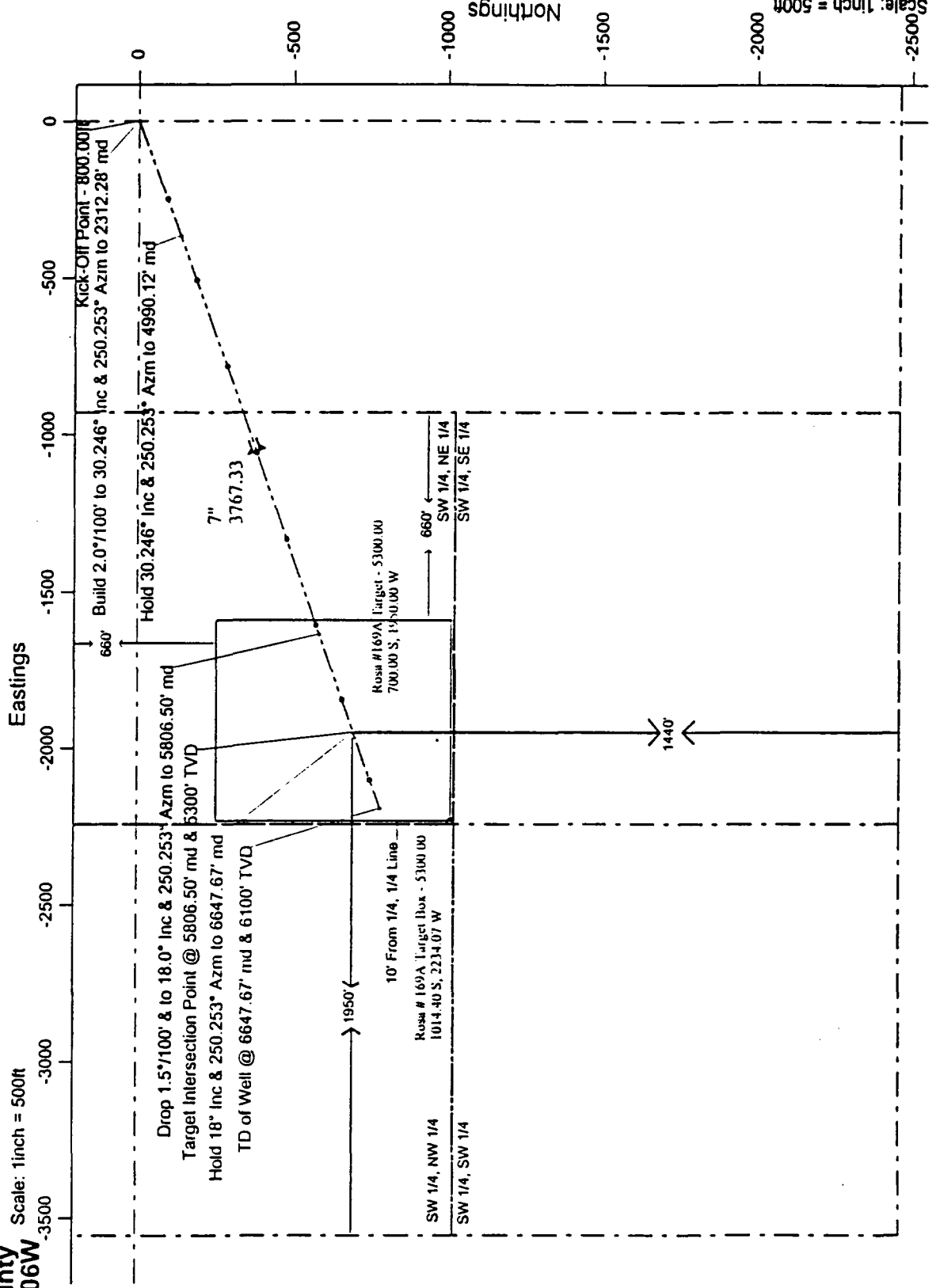
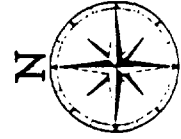
New Mexico

Rio Arriba County

Sec. 3-T31N-R06W

Rosa # 169A

Scale: 1 inch = 500ft



Scale: 1 inch = 500ft



PLAT #1

WILLIAMS PRODUCTION COMPANY

Rosa Unit #169A

2460'FSL & 1695'FEL, Sec. 3, T31N, R6W

1750'FSL & 1750'FWL, Sec. 3, T31N, R6W

Rio Arriba County, NM

