

NSL

~~12/24/98~~
1/4/99




ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting
Lease Management
Contract Pumping

7415 East Main
Farmington, New Mexico 87402
(505) 327-4892

December 9, 1998

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

DEC 14 1998

Re: Non-Standard Location
Williams Production Company
Rosa Unit #151A
1940' FSL, 920' FWL
Section 33, T32N R6W
San Juan County, NM
Blanco Mesa Verde

Dear Ms. Wrotenbery,

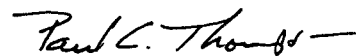
This is a request on behalf of Williams Production Company for administrative approval for a non-standard gas location in the Blanco Mesa Verde pool for the referenced well.

The proposed spacing unit is the west half of Section 33, T32N, R6W, which is 318.44 acres. The proposed location encroaches on the 790' setback required from the half section line. Williams moved this well to the present location at the request of the BLM to prevent the well from being placed at the top of a hill and to utilize part of an existing wellpad. Any other locations would require the construction of additional access road and unnecessary cuts in an area that is important for big game habitat.

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: 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 DD, Artesia, NM 88211-0719

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

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

98 JUN 11 PM 12:40

☐ AMENDED REPORT

070 FARMINGTON, NM
WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | | |
|------------------------------------|---|------------|----------------------|
| *API Number 3D-045-29631 | | *Pool Code | *Pool Name |
| *Property Code | *Property Name RQSA UNIT | | *Well Number 151A |
| *GRID No. | *Operator Name WILLIAMS PRODUCTION COMPANY | | *Elevation 6443' |

¹⁰ Surface Location

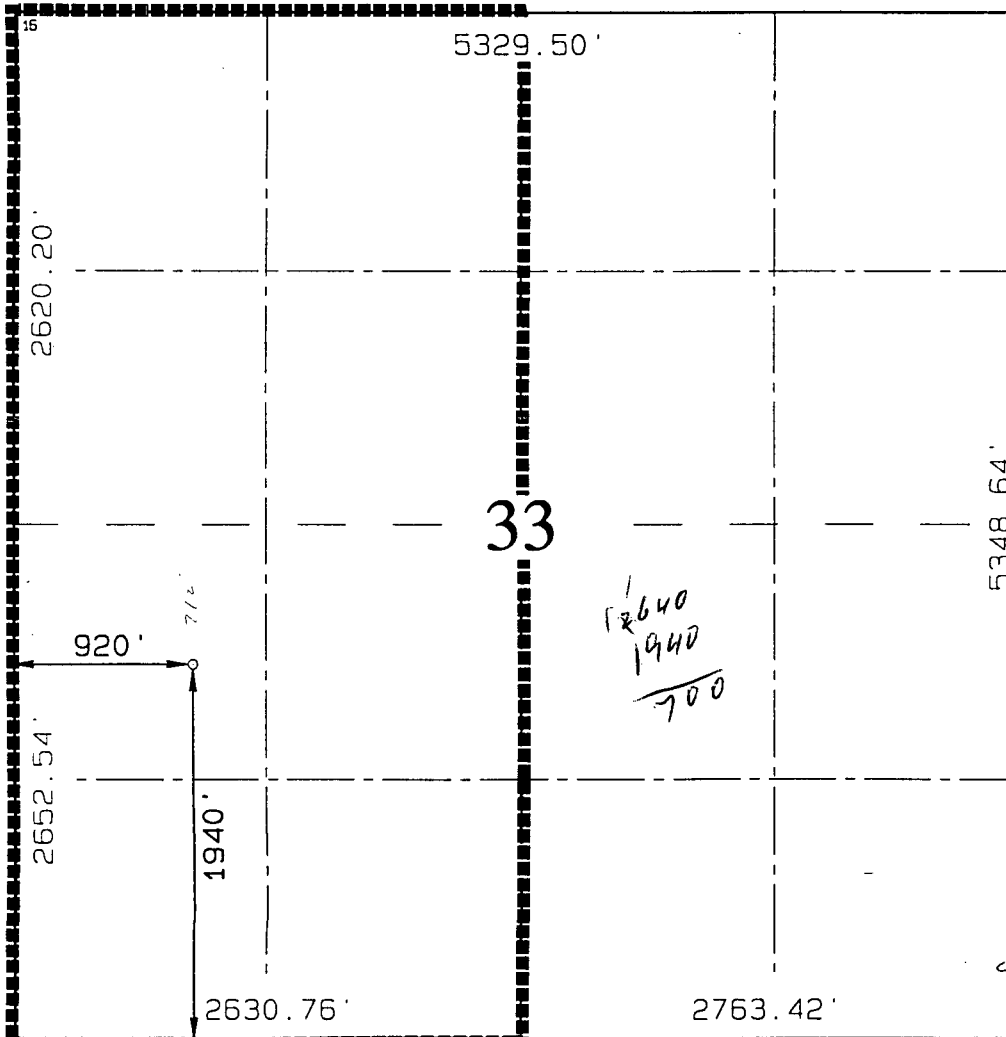
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| L | 33 | 32N | 6W | | 1940 | SOUTH | 920 | WEST | SAN JUAN |

¹¹ Bottom Hole Location If Different From Surface

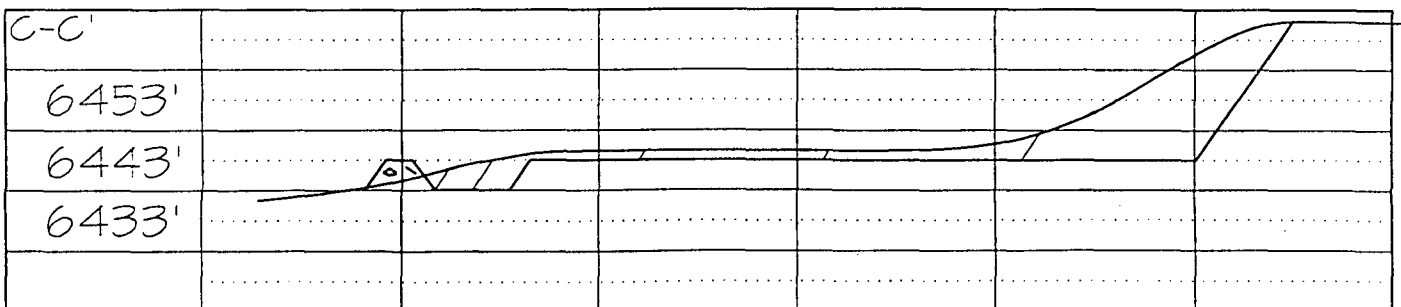
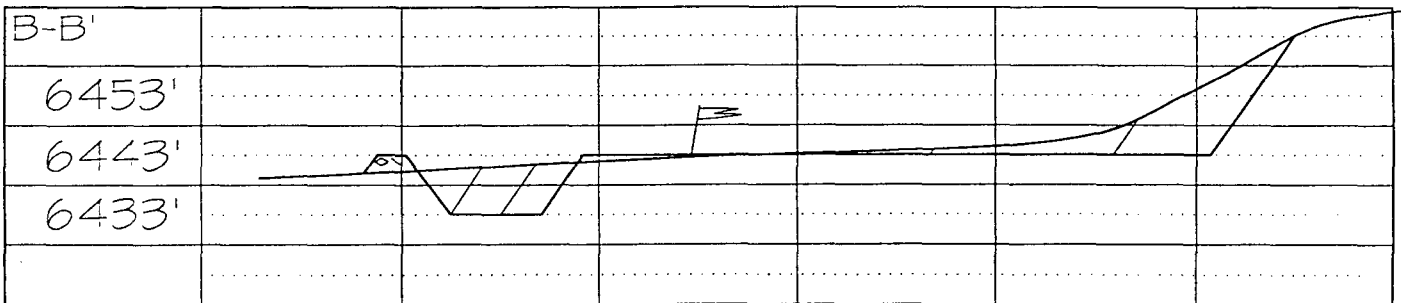
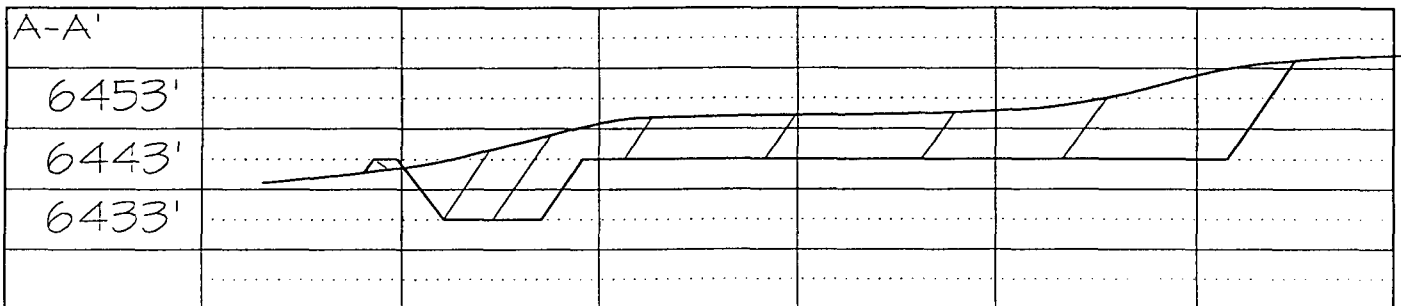
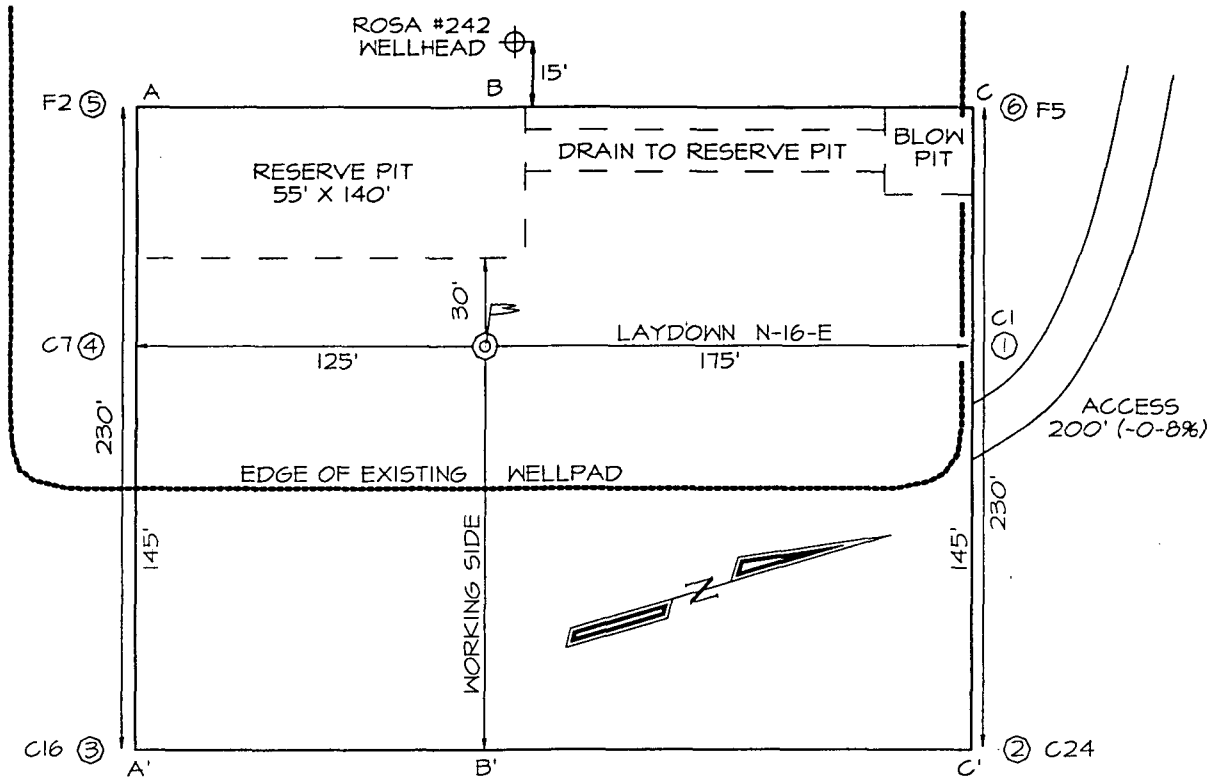
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| | | | | | | | | | |

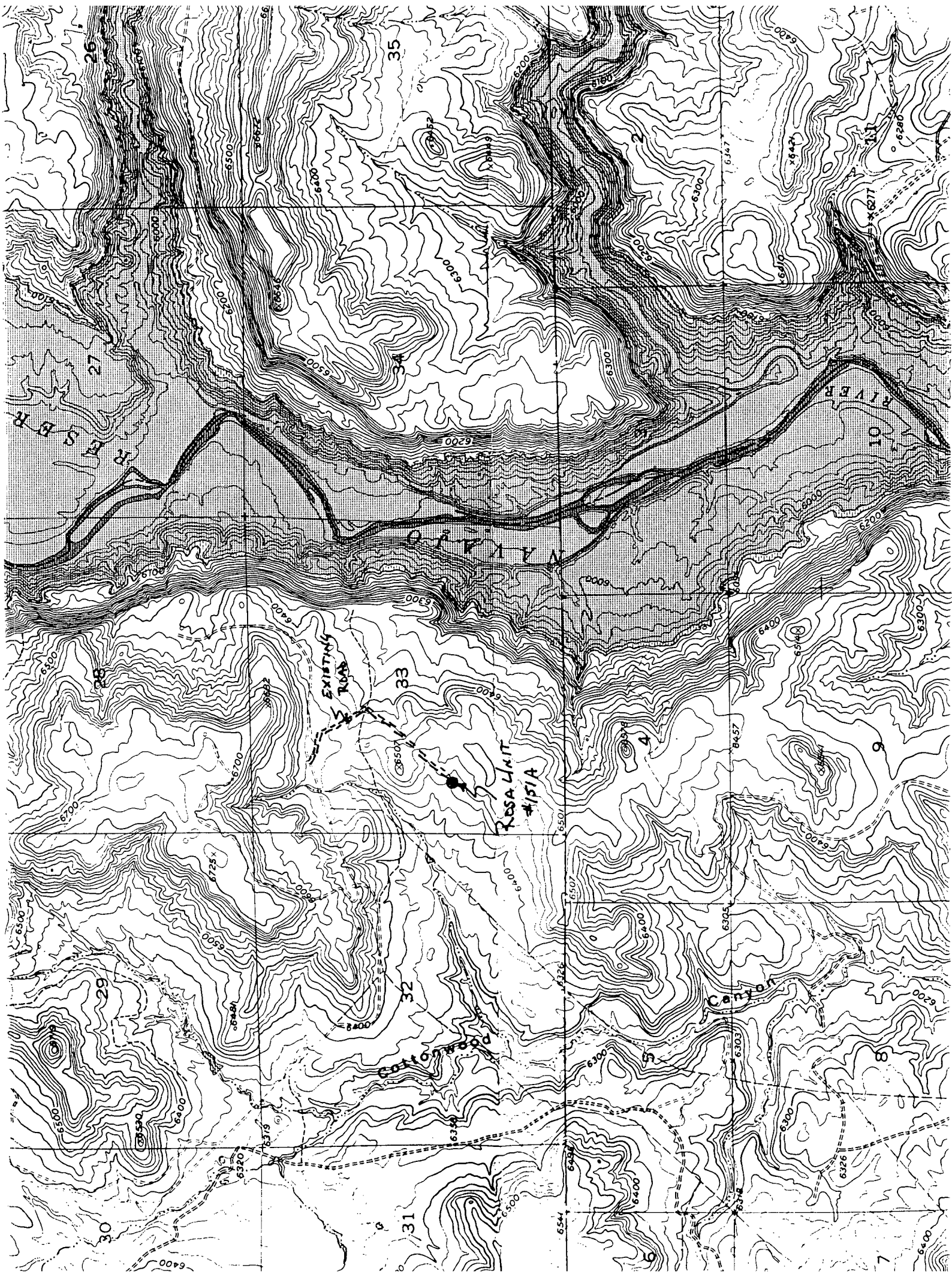
| | | | |
|-------------------------------|-------------------------------|----------------------------------|-------------------------|
| ¹² Dedicated Acres | ¹³ Joint or Infill | ¹⁴ Consolidation Code | ¹⁵ Order No. |
| | | | |

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

| | |
|---|---|
|  | <p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p><i>Paul C. Thompson</i> Signature Paul C. Thompson Printed Name Agent Title 6/8/98 Date</p> |
| | <p>¹⁸ SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>MAY 26, 1998 Date of Survey</p> <p>Signature and Seal of Professional Surveyor <i>Neale C. Edwards</i> NEALE C. EDWARDS NEW MEXICO 6857 6857 Certificate Number</p> |

**WILLIAMS PRODUCTION COMPANY
ROSA UNIT #151A, 1940' FSL & 920' FWL
SECTION 33, T32N, R6W, NMPM
SAN JUAN COUNTY, NEW MEXICO
GROUND ELEVATION: 6443'**







STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

June 1, 1995

Northwest Pipeline Corporation
c/o Walsh Engineering & Production Corp.
7415 East Main
Farmington, New Mexico 87402

Attention: Paul C. Thompson, P.E.

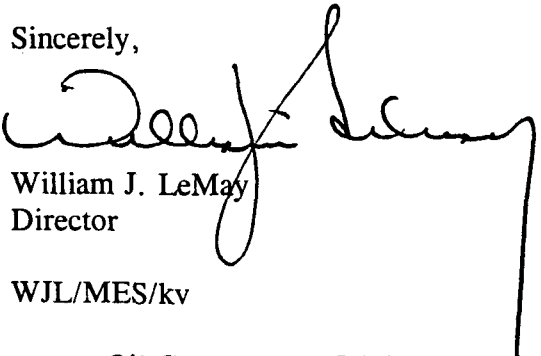
Administrative Order NSL-3537

Dear Mr. Thompson:

Reference is made to your application dated April 4, 1995 on behalf of the operator, Northwest Pipeline Corporation, for a non-standard gas well location in the Blanco-Mesaverde Pool for your proposed Rosa Unit Well No. 151 to be drilled 1150 feet from the North line and 2205 feet from the West line (Unit C) of Section 33, Township 32 North, Range 6 West, NMPM, San Juan County, New Mexico. The W/2 of said Section 33 shall be dedicated to the well forming a standard 320-acre gas spacing and proration unit for said pool.

By the authority granted me under the provisions of Rule 2(c) of the "Special Rules and Regulations for the Blanco-Mesaverde Pool", as promulgated by Division Order No. R-8170, as amended, the above-described unorthodox gas well location is hereby approved.

Sincerely,


William J. LeMay
Director

WJL/MES/kv

cc: Oil Conservation Division - Aztec
U. S. Bureau of Land Management - Farmington

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

98 DEC -4 PM 2:19

070 FARMINGTON, 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) 561-6254

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1940' FSL & 920' FWL, NW/4 SW/4 SEC 33-T32N-R6W

5. Lease Designation and Serial No.
SF-078772

If Indian, Allottee or Tribe Name

If Unit or CA, Agreement Designation
ROSA UNIT

8. Well Name and No.
ROSA UNIT #151A

9. API Well No.
30-045-29631

10. Field and Pool, or Exploratory Area
BLANCO MV

11. County or Parish, State
SAN JUAN, NM

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 COMPLETION 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.)*

11/11/1998

Move rig on location on the freeze. Location is too muddy to drive rig. Wait on rig up truck to help spot unit. Spot rig, ND wellhead and NU BOPs. Pick up 3-7/8" bit on 2-3/8" tubing and TIH. SD due to darkness. SDON.

11/12/1998

Brace on hydraulic leg of rig broke. The ground under the leg was soft and the rig sank on one side causing the leg to break. Rigged down and respotted the rig on the opposite side of the wellhead. Wait on welder to repair brace. Rigged up. Picked up 3-7/8" bit on 2-3/8" tubing and TIH. Tagged PBTD at 6092'. POH to 6029'. SDON.

11/13/1998

Rig up BJ and pressure test to 3500# - held OK. Spotted 500 gals. of 15% HCl across perf interval. TOH and install frac head. Rig up Petro and perforate Point Lookout at 5714, 17, 20, 23, 26, 29, 32, 35, 38, 41, 44, 47, 50, 53, 56, 59, 62, 64, 68, 78, 81, 84, 87, 90, 93, 98, 5808, 10, 20, 22, 49, 52, 64, 72, 76, 5904, 08, 12, 16, 38, 42, 56, 58, 6016, and 18. Total of 45 (0.36") holes.

Continued on Reversed Side

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

Signed SUSAN GRIGUHN

Title CLERK

Date December 11, 1998

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

DEC 07 1998

FARMINGTON DISTRICT OFFICE

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.

NMOCD

In Lieu of
Form 3160-4
(July 1992)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN
DUPLICATE

(See other instructions on
reverse side)

FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

5. LEASE DESIGNATION AND LEASE NO.
SF-078772

6. IF INDIAN, ALLOTTEE OR

7. UNIT AGREEMENT NAME
ROSA UNIT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: ☐ OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER

b. TYPE OF COMPLETION:
☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER

2. NAME OF OPERATOR
WILLIAMS PRODUCTION COMPANY

3. ADDRESS AND TELEPHONE NO.
P.O. BOX 3102 MS 37-2 TULSA, OK 74101 (918) 561-6254

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At Surface 1940' FSL & 920' FWL
At top production interval reported below : At total depth:

8. FARM OR LEASE NAME, WELL NO.
ROSA UNIT #151A

9. APT WELL NO.
30-045-29631

10. FIELD AND POOL, OR WILDCAT
BLANCO MV

11. SEC. T.R.M. OR BLOCK AND
SURVEY OR AREA
NW/4 SW/4 SEC 33-32N-6W

12. COUNTY OR
SAN JUAN

13. STATE
NEW MEXICO

15. DATE
SPUDDED
10-15-1998

16. DATE T.D.
REACHED
10-20-1998

17. DATE COMPLETED (READY TO PRODUCE)
11-17-1998

14. PERMIT NO.

DATE ISSUED
6443' GR

19. ELEVATION CASINGHEAD

20. TOTAL DEPTH, MD & TVD
6134'

21. PLUG, BACK T.D., MD & TVD
6110'

22. IF MULTICOMP.,
HOW MANY

23. INTERVALS
DRILLED BY

ROTARY TOOLS
X

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*
BLANCO MV 5202' - 6018'

25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN
IES/GR and CDL/SNL

27. WAS WELL CORED
NO

28. CASING REPORT (Report all strings set in well)

| CASING SIZE/GRADE | WEIGHT, LB/FT | DEPTH SET (MD) | HOLE SIZE | TOP OF CEMENT, CEMENTING RECORD | AMOUNT PULLED |
|-------------------|---------------|----------------|-----------|---------------------------------|---------------|
| 4-5/8" K-55 | 36# | 267' | 12-1/4" | 150 SX - SURFACE | |
| 7" K-55 | 20# | 3613' | 8-3/4" | 610 SX - SURFACE | |

29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|--------|----------|-------------|---------------|-------------|--------|----------------|-----------------|
| 4-1/2" | 3491' | 6134' | 330 sx | | 2-3/8" | 6006' | |

31. PERFORATION RECORD (Interval, size, and number)

CH/Menefee: 5202', 04', 06', 18', 24', 48', 50', 5306', 08', 14', 5400', 02', 42', 46', 48', 50', 86', 90', 92', 94', 96', 98', 5500', 02', 04', 12', 14', 16', 18', 48', 50', 78', 80', 5656', 58', 60', 62' and 64'. Total of 38 (0.38") holes.

Pt Lookout: 5714', 17', 20', 23', 26', 29', 32', 35', 38', 41', 44', 47', 50', 53', 56', 59', 62', 64', 68', 78', 81', 84', 87', 90', 93', 98', 5808', 10', 20', 22', 49', 52', 64', 72', 76', 5904', 08', 12', 16', 38', 42', 56', 58', 6016' and 18'. Total of 45 (0.38") holes.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---------------------|---|
| 5202' - 5664' | 80,000# 20/40 Sand in 2608 BBIs slick water |
| 5714' - 6018' | 80,000# 20/40 Sand in 2130 BBIs slick water |

33. PRODUCTION

| DATE OF FIRST PRODUCTION | | PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump) Flowing | | | | WELL STATUS (PRODUCING OR SHUT IN) SHUT IN | |
|--------------------------|-----------------|---|------------------------|------------|-----------|---|----------------------|
| DATE OF TEST | TESTED | CHOKE SIZE | PROD'N FOR TEST PERIOD | OIL - BBL. | GAS - MCF | WATER - BBL. | GAS-OIL RATIO |
| 11-29-1998 | 3 HRS | | | | 542 | | |
| FLOW TBG PRESS | CASING PRESSURE | CALCULATED 24-HOUR RATE | | OIL - BBL. | GAS - MCF | WATER - BBL. | OIL GRAVITY-API (COR |
| 328# | 802# | | | | 4339 | | |

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): TO BE SOLD

TEST WITNESSED BY: CHIK CHALEY

35. LIST OF ATTACHMENTS: SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Susan Griguin

TITLE Drilling Clerk

DATE December 1, 1998

ACCEPTED FOR RECORD

DEC 07 1998

NMOCD

FARMINGTON DISTRICT OFFICE

38 GEOLOGIC MARKERS

37. SUMMARY OF POROUS ZONES (Show all important zones of porosity and contents thereof, cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries).

| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. | NAME | TOP | | |
|-----------------|-------|--------|-----------------------------|------|------|----------------|---------------------|
| | | | | | NAME | MEASURED DEPTH | TRUE VERTICAL DEPTH |
| OJO ALAMO | 2356' | 2980' | | | | | |
| FRUITLAND | 2980' | 3195' | | | | | |
| PICTURED CLIFFS | 3195' | 5125' | | | | | |
| CLIFF HOUSE | 5125' | 5474' | | | | | |
| MENEFEE | 5474' | 5705' | | | | | |
| POINT LOOKOUT | 5705' | 6105' | | | | | |
| MANCOS | 6105' | | | | | | |

ROSA UNIT #151A BLANCO MESAVERDE

Location: 1940' FSL, 920' FWL
NW/4 SW/4 Section 33L, T32N, R6W
San Juan Co., NM

Spud Date 10-15-1998
Completion Date 11-17-1998

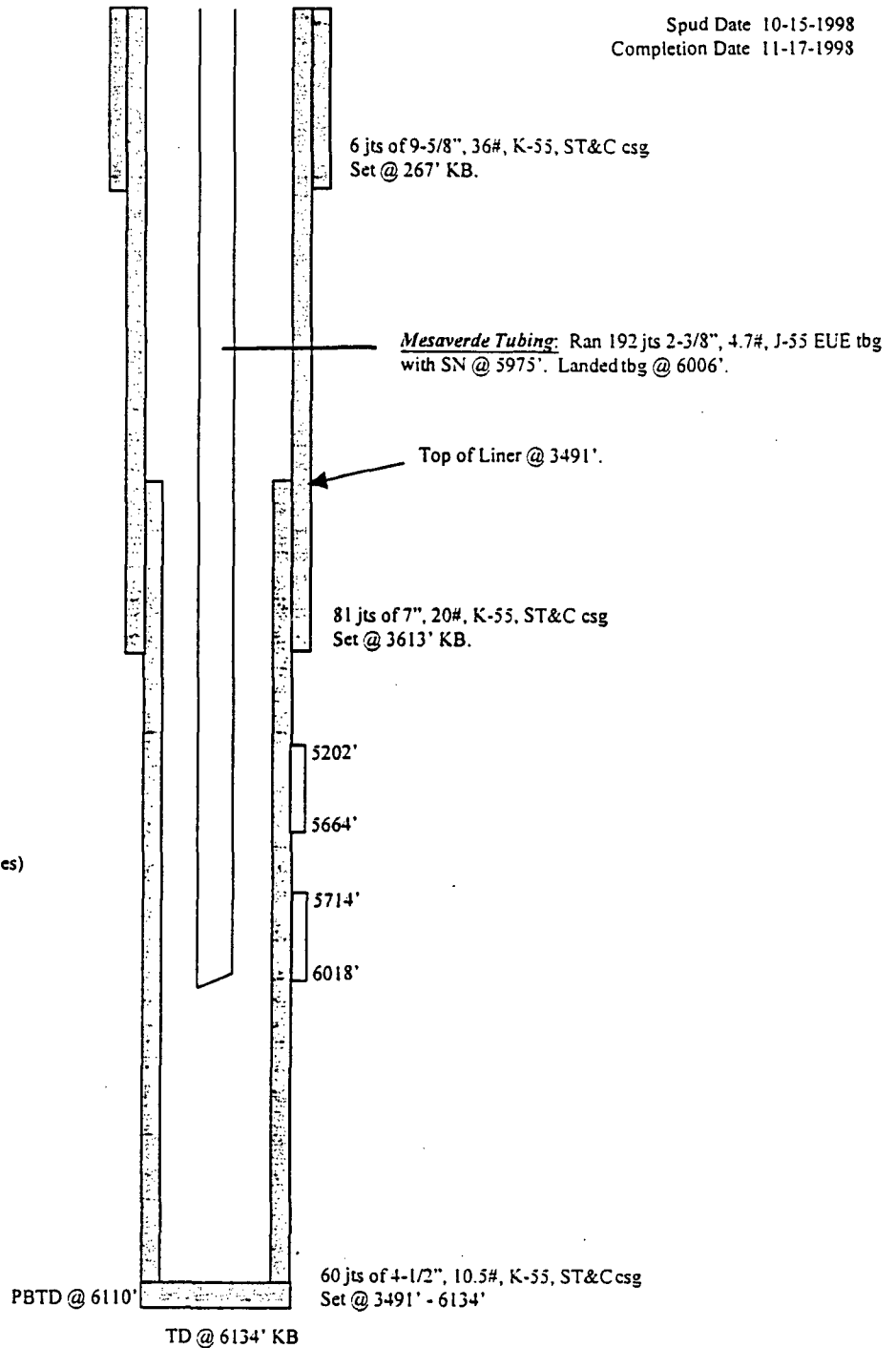
Elevation: 6443' GR
KB = 12'

| <i>Tops</i> | <i>Depth</i> |
|-----------------|--------------|
| Ojo Alamo | 2356' |
| Kirtland | 2490' |
| Fruitland | 2980' |
| Pictured Cliffs | 3195' |
| Cliff House | 5125' |
| Menefee | 5474' |
| Point Lookout | 5705' |
| Mancos | 6105' |

STIMULATION

Cliff House/Menefee 5202' - 5664' (38, 0.36" holes)
80,000# of 20/40 sand in 2608BBI's slick water.

Point Lookout 5714' - 6018' (45, 0.36" holes)
80,000# of 20/40 sand in 2130BBI's slick water.



| HOLE SIZE | CASING | CEMENT | CMT TOP |
|------------|-----------|---------|-------------|
| 12 - 1/4 " | 9 - 5/8 " | 150 s x | SURFACE |
| 8 - 3/4 " | 7 " | 610 s x | SURFACE |
| 6 - 1/4 " | 4 - 1/2 " | 330 s x | 3510' (CBL) |

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

| | | | | | | | | | |
|--|---|--------------------|------------------------------|----------------------|--|---------------------------------------|-------------------------|--|------------|
| Operator Williams Production Company | | | | | Lease or Unit Name ROSA UNIT | | | | |
| Test Type X Initial Annual Special | | | Test Date 11/29/98 | | Well Number #151A | | | | |
| Completion Date 11/17/98 | | Total Depth | | Plug Back TD | | Elevation 5250 | | Unit Sec Twp Rng L 33 32N 6W | |
| Casing Size | | Weight d | | Set At | | Perforations: From To 11 12 | | County SAN JUAN | |
| Tubing Size | | Weight d | | Set At | | Perforations: From To 11 12 | | Pool BLANCO | |
| Type Well - Single-Bradenhead-GG or GO Multiple | | | | | Packer Set At DIST. 3 | | Formation MV | | |
| Producing Thru Tubing | | Reservoir Temp. oF | | Mean Annual Temp. oF | | | Barometer Pressure - Pa | | Connection |
| L | H | Gq 0.6 | %CO2 | %N2 | %H2S | | Prover 3/4" | 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 | 2" X 3/4" | | | | 1062 | | 1064 | | 0 |
| 1 | | | | | 387 | 58 | 944 | | 0.5 hr |
| 2 | | | | | 374 | 60 | 892 | | 1.0 hr |
| 3 | | | | | 355 | 62 | 864 | | 1.5 hrs |
| 4 | | | | | 337 | 64 | 836 | | 2.0 hrs |
| 5 | | | | | 328 | 66 | 802 | | 3.0 hrs |

| 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 | 9.604 | | | | | 340 | 0.9943 | 1.29 | 1.036 | 4339 |
| 2 | | | | | | | | | | |
| 3 | | | | | | | | | | |
| 4 | | | | | | | | | | |
| NO | Pr | Temp. oR | Tr | Z | Gas Liquid Hydrocarbon Ration A.P.I Gravity of Liquid Hydrocabrons _____ Specific Gravity Separator _____ Specific Gravity Flowing Fluid xxxxxxx Critical Pressure _____ p.s.i.a. Critical Temperature _____ R | | | | | Mcf/bbl. Deq. XXXXXX _____ p.s.i.a. _____ R |
| Pc | 1076 | Pc ² | 1157776 | | | | | | | |
| NO | PtI | Pw | Pw ² | Pc ² -Pw ² | (1) $\frac{Pc^2}{Pc^2 - Pw^2} = \underline{2.3380912}$ | | | | | (2) $\frac{Pc^{2.9n}}{Pc^2 - Pw^2} = \underline{1.8908}$ |
| 1 | | 814 | 662596 | 495180 | | | | | | |
| 2 | | | | | | | | | | |
| 3 | | | | | | | | | | |
| 4 | | | | | AOF = Q $\frac{Pc^{2.9n}}{Pc^2 - Pw^2} = \underline{8204}$ | | | | | |
| Absolute Open Flow | | 8204 | | Mcf/d @ 15.025 | | Angle of Slope _____ | | Slope, n | | 0.75 |

| | | | |
|-------------------------|---------------|----------------|-------------|
| Remarks: | | | |
| Approved By Commission: | Conducted By: | Calculated By: | Checked By: |

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

2. Name of Operator
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3. Address and Telephone No.
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7. If Unit or CA, Agreement Designation
ROSA UNIT

8. Well Name and No.
ROSA UNIT #151A

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10. Field and Pool, or Exploratory Area
BLANCO MV

11. County or Parish, State
SAN JUAN, NM

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

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- ☐ 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.)*

10-15-1998 MOL and RU. Spud surface hole @ 0000 hrs 10-15-1998. TD'd surface hole @ 0500 hrs 10-15-1998 with bit #3 (12-1/4", STC). Circulate and TOH. Running 9-5/8" surface casing @ report time. Deviation: 1° @ 275'.

10-16-1998 Ran 6 jts (253.13") of 9-5/8", 36#, K-55, ST&C csg. Set @ 267' KB. BJ cemented with 150 sx (179 cu.ft.) of cl "H" with 2% CaCl2 and 1/4# cello-flake/sk. Displaced plug with 18 BBIs of water. Plug down @ 0800 hrs 10-15-1998. Circulated out 9 BBIs of cmt. WOC. NU BOP's and PT to 1500#, OK. Drilled cmt and continued drilling new formation. Deviation: 1/4° @ 751'.

10-17-1998 Drilling ahead. Deviations: 3/4° @ 1217', 3/4° @ 1748', 1° @ 2238'.

10-18-1998 TD intermediate hole with bit #4 (8-3/4", RTC, HP51X) at 3605'. Circulate and TOH for logs. Rig up loggers and start logging. Deviations: 1/2° @ 2729', 2° @ 3235', 1/2° @ 3605'.

Continued on Reversed Side

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

Signed SUSAN GRIGUHN Title CLERK Date October 26, 1998

(This space for Federal or State office use)

Approved by _____ Title _____

Conditions of approval, if any:

ACCEPTED FOR RECORD

NOV 23 1998

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 DISTRICT OFFICE

NMOCD

BY

10-19-1998 Halliburton ran IES/GR and CDL/CNL logs. TIH. LDDP and DC's. Change out rams & RU casing crew. Ran 81 jts. (3598.97') of 7", 20#, K-55, ST&C casing and landed at 3613' KB. Float at 3567'. Rig up BJ and precede cement with 10 bbls of water and 10 bbls of scavenger cement. Cemented with 480 sx (979 cu.ft.) of CI "H" 65/35 poz with 10% gel, 2% CaCl₂ and 1/4# celloflake/sk. Tailed with 130 sx (189 cu.ft.) of CI "H" 50/50 poz with 4% gel, 1/4# celloflake/sk, 0.4% FL-52, and 2% CaCl₂. Displaced plug with 145 bbls of water. Plug down at 1700 hrs 10/18/98. Circulated out 19 bbls of cement. ND BOP. Set slips w/ #65,000 and cut off casing. Nipple up BOP's and pressure test to 1500# - held OK. Drilled float and cement. Unloaded hole with nitrogen and continued drilling.

10-20-1998 Drilling ahead. Deviations: 1-1/4° @ 4100', 3-3/4° @ 4559', 3-1/2° @ 4724', 3° @ 4941'.

10-21-1998 TD well with gas and bit #5 (6-1/4", RTC. STR09) at 6130'. Blow hole clean and TOH for logs. Rig up loggers and log. Deviations: 2-3/4° @ 5994'.

10-22-1998 Finish running IES/GR and CDL/SNL logs. TIH and LDDP & DC's. RU casing crew and run 60 jts. (2643.43') 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 6134' KB. Latch collar at 6110' KB and marker joint at 5016' KB. 121' of overlap into 7". Top of liner at 3491' KB. 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 "H" 50/50 poz with 4% Bentonite, 0.4% FL52 and 2% CaCl₂. Tailed with 250 sx (363 cu.ft.) of CI "H" 50/50 poz with 4% Bentonite, 0.4% FL-52, 2% CaCl₂, and 1/4#/sk celloflake. Displaced plug with 67.5 bbls of water. Plug down at 1800 hrs 10/21/98. Set pack-off and circulate out 5 bbls of cement. Lay down DP and TIW setting tool. ND BOP's. Rig released at 2400 hrs. 10/21/98. 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

RECEIVED
BLM
93 NOV -2 PM 1:55
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) 561-6254 | 7. If Unit or C.A. Agreement Designation ROSA UNIT |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1940' FSL & 920' FWL, NW/4 SW/4 SEC 33-T32N-R6W | 8. Well Name and No. ROSA UNIT #151A |
| | 9. API Well No. 30-045-29631 |
| | 10. Field and Pool, or Exploratory Area BLANCO MV |
| | 11. County or Parish, State SAN JUAN, 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 Spud Well <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 0000 hrs 10-15-1998.

RECEIVED
NOV 30 1998
OIL CON. DIV.
DIST. 3

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

Signed SUSAN GRIGUHN

Title CLERK

Date October 28, 1998

(This space for Federal or State office use)

Approved by _____

Title _____

Conditions of approval, if any:

ACCEPTED FOR RECORD

NOV 23 1998

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 DISTRICT OFFICE

NMOC

BY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTRECEIVED
BLM

APPLICATION FOR PERMIT TO DRILL OR DEEPEN 12:35

| | | | |
|--|---|---|---------------|
| 1A. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> | | 070 FARMINGTON, NM | |
| 1B. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> | | SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/> | |
| 2. NAME OF OPERATOR WILLIAMS PRODUCTION COMPANY | | OGRID 120782 | |
| 3. ADDRESS AND TELEPHONE NO. c/o Walsh Engr. & Prod. Corp. 7415 E. Main Farmington, NM 87402 | | (505) 327-4892 | |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1190' FSL & 795' FWL At proposed prod. zone Same | | RECEIVED JUN 29 1998 | |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE 25 miles NE of Blanco, New Mexico | | OIL CON. DIV. | |
| 16. NO. OF ACRES IN LEASE 2561.86 | 17. NO. OF ACRES ASSIGNED TO THIS WELL 320 | 12. COUNTY OR PARISH San Juan | |
| 18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1000' | 19. PROPOSED DEPTH 6235' | 13. STATE NM | |
| 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6498' GE | | 22. APPROX. DATE WORK WILL START June 1998 | |
| 23. This action is subject to technical and procedural review pursuant to 43 CFR 3105.3 and appeal pursuant to 43 CFR 3105.4. DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED GENERAL REQUIREMENTS. | | | |
| SIZE OF HOLE | GRADE SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH |
| 12 1/4" | 9 5/8" | 36# | 250 |
| 8 3/4" | 7" | 20# | 3645 |
| 6 1/4" | 4 1/2" | 10.5# | 3545 - 6235 |
| | | 157 cuft Cl "B" w/3% CaCl2 612 cuft 65/35 Poz184 cuft Cl "B" 442 cuft Cl "B" w/4% gel & additives | |

WILLIAMS PRODUCTION COMPANY proposes to drill a vertical well to develop the Mesa Verde Formation at the above described site in accordance with the attached drilling and surface use programs.

This location has been archaeologically surveyed by Southwest Archaeological Services. Copies of the report will be submitted directly to your office.

This APD also is serving as an application to obtain BLM road and pipeline ROW. This well will be accessed by a new road 20'x 1050' which crosses the SW/SW and NW/SW of Section 33, T32N, R6W where it joins an existing road. This road crosses the SE/NW, NE/NW, and NW/NW of Section 33, the S/2 SE/4 SE/NW, N/2 NW/4, of Section 32, SW/SW of Section 29, SE/SE, NW/SE, SE/NW, and NW/NW of Section 30, all of T32N, R6W and the NE/NE of Section 25, T32N, R7W where it joins NM CR 4020. The pipeline route is shown on Plat #4.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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, Agent DATE 3/24/98

(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 Chanada TITLE Geologist DATE 6/24/98

*See Instructions On Reverse Side

NMOCD

I hereby certify that the above information is true and correct and willfully make to any department or agency of the

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

98 JUN 11 PM 12:41

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | | |
|-----------------------------|---|---------------------|-------------------------|
| *API Number 30-045-29631 | | *Pool Code 72319 | *Pool Name Blaine MW |
| *Property Code 17033 | *Property Name ROSA UNIT | | *Well Number 151A |
| *OGRID No. 120782 | *Operator Name WILLIAMS PRODUCTION COMPANY | | *Elevation 6443' |

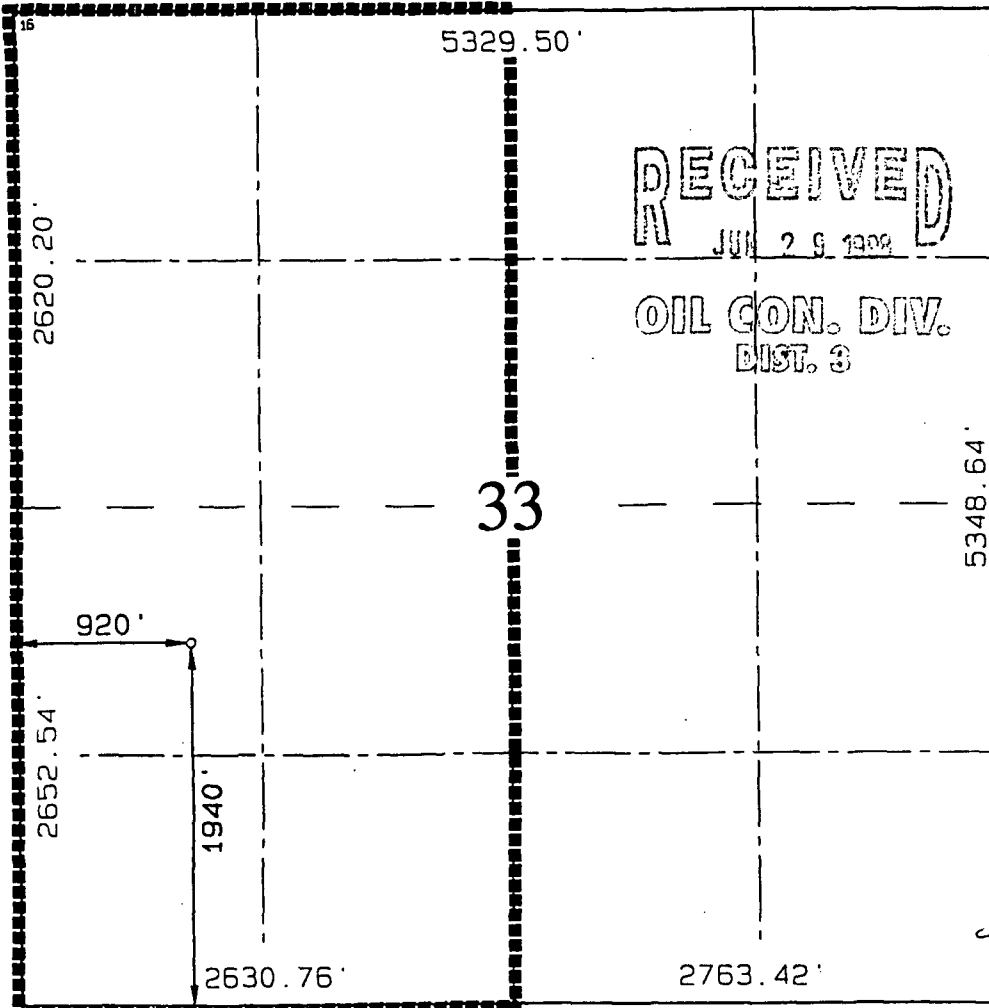
10 Surface Location

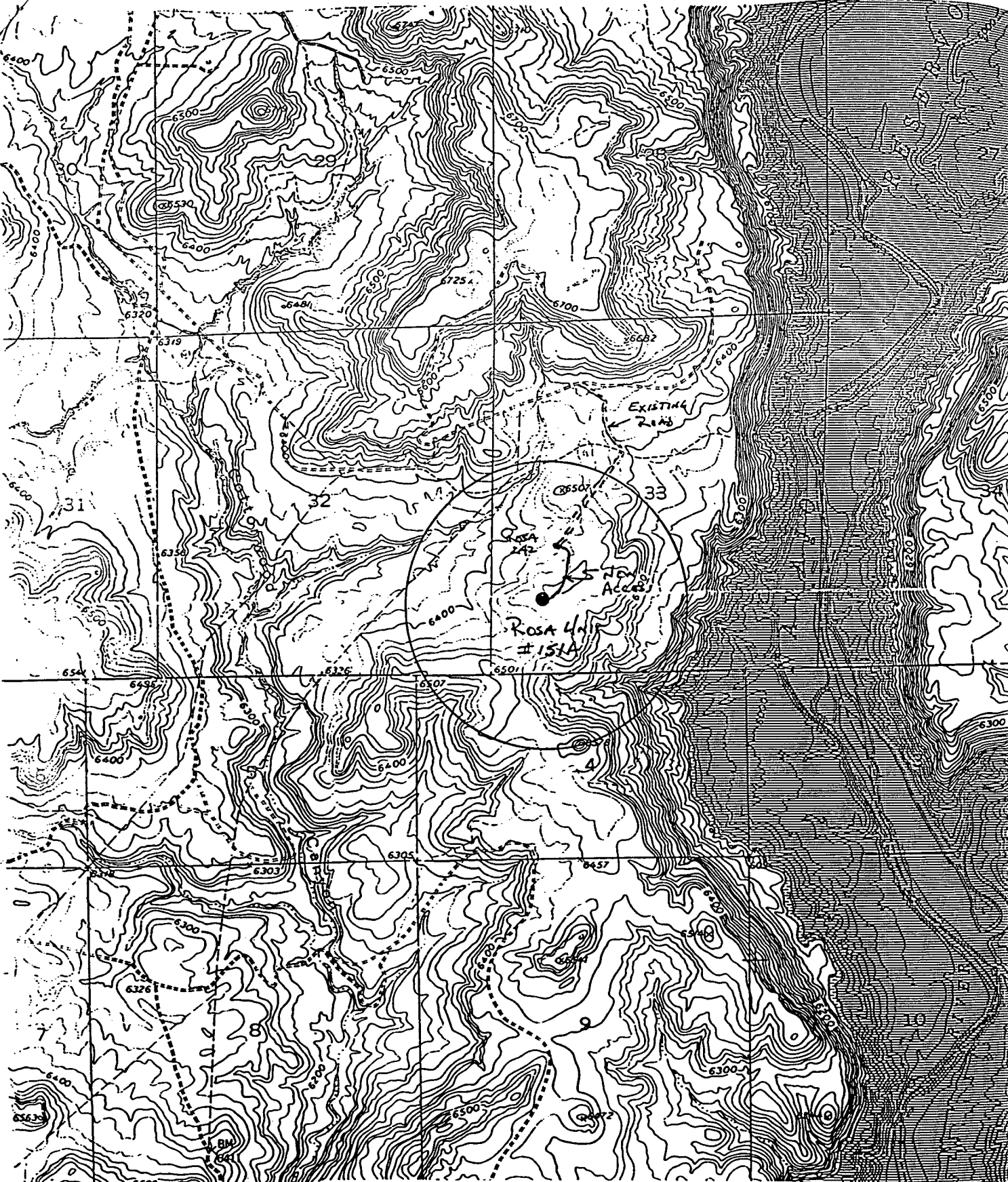
| U. or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| L | 33 | 32N | 6W | | 1940 | SOUTH | 920 | WEST | SAN JUAN |

11 Bottom Hole Location If Different From Surface

| U. or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------------------|---------|--------------------|-------|-----------------------|---------------|------------------|---------------|----------------|--------|
| | | | | | | | | | |
| 12 Dedicated Acres 320 | | 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

| | | |
|---|--|--|
|  | 16 5329.50' | |
| | RECEIVED JUN 2 9 1998 OIL CON. DIV. DIST. 3 | |
| | 33 | |
| | 5348.64' | |
| 17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature: <u>Paul C. Thompson</u> Printed Name: <u>Paul C. Thompson</u> Agent Title: <u>6/8/98</u> Date: <u>6/8/98</u> | | |
| 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. MAY 26, 1998 Date of Survey Signature and Seal of Professional Surveyor: <u>NEALE C. EDWARDS</u> Certificate Number: <u>6857</u> | | |



PLAT #1

WILLIAMS PRODUCTION COMPANY
Rosa Unit #151A
1190'FSL & 795'FWL, Sec. 33, T32N, R6W
San Juan County, NM