

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL       DEEPEN       PLUG BACK

b. TYPE OF WELL  
 OIL WELL       GAS WELL       OTHER       SINGLE ZONE       MULTIPLE ZONE

2. NAME OF OPERATOR  
Pioneer Oil & Gas      (801) 566-3000

3. ADDRESS OF OPERATOR  
6925 Union Park Center \*145, Midvale, Ut. 84047

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)  
 At surface  
1940' FSL & 850' FWL (NWSW)  
 At proposed prod. zone  
Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
5 air miles SW of Montezuma Creek, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)      850'

16. NO. OF ACRES IN LEASE      800

17. NO. OF ACRES ASSIGNED TO THIS WELL      80

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.      1,707'

19. PROPOSED DEPTH      5,700' Akch

20. ROTARY OR CABLE TOOLS      Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)      4,607' ungraded ground

22. APPROX. DATE WORK WILL START\*      Jan. 5, 1989

5. LEASE DESIGNATION AND SERIAL NO.  
14-20-604-243

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo

7. UNIT AGREEMENT NAME  
 Gothic Mesa

8. FARM OR LEASE NAME  
Gothic Mesa Unit

9. WELL NO.  
16-13A

10. FIELD AND POOL, OR WILDCAT  
 Gothic Mesa      Greater Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
16-41s-23e SLBM

12. COUNTY OR PARISH      13. STATE  
San Juan      Ut.

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	16"	48* (H-40, ST&C)	40'	* 45 cu ft or to surface
11"	8-5/8"	28* (H-40, ST&C)	300'	*100 cu ft or to surface
7-7/8"	4-1/2"	10.5* (J-55, ST&C)	5,700'	*1,900 cu ft or to surface

RECEIVED  
SEP 7 1988

DIVISION OF  
OIL, GAS & MINING

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 R. H. [Signature] TITLE Land Manager DATE 9/1/88

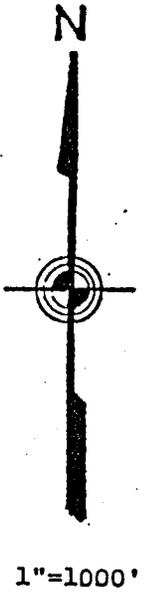
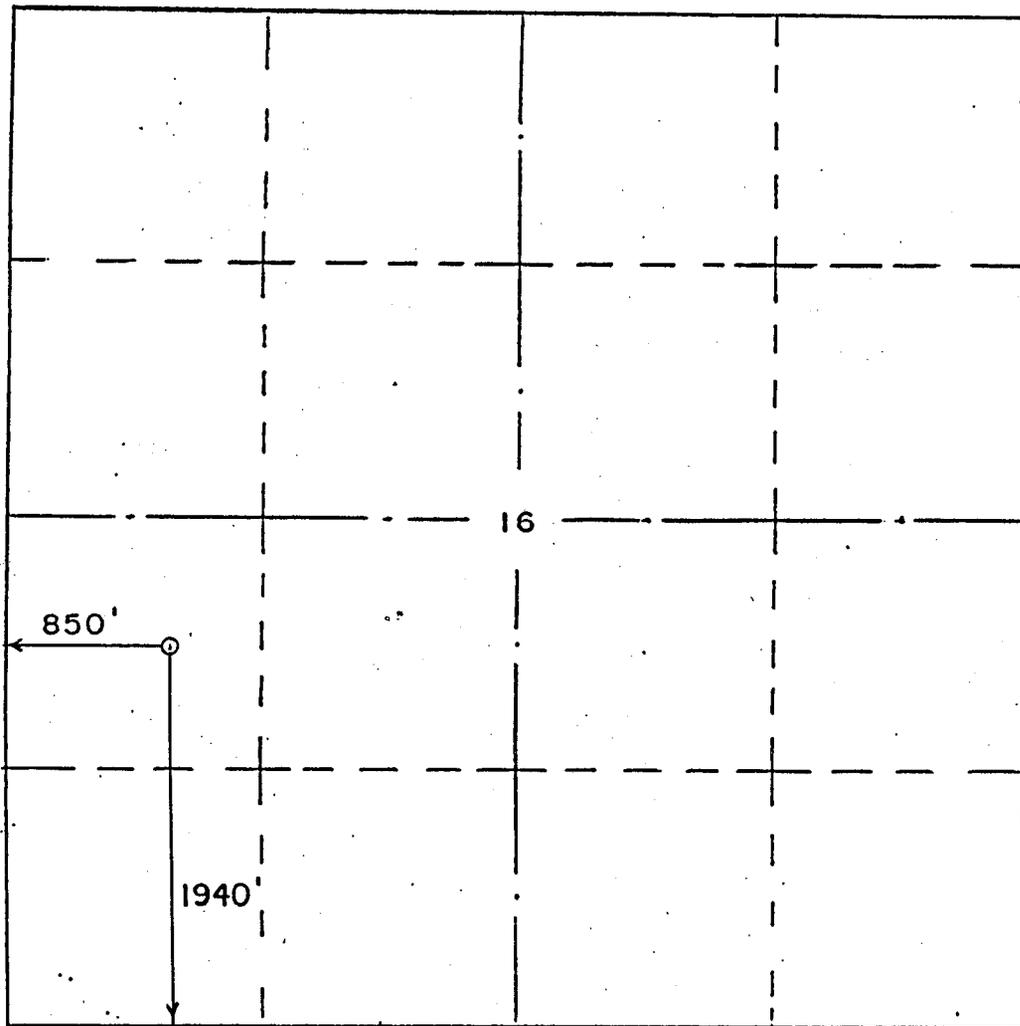
(This space for Federal or State office use)  
 PERMIT NO. 43-037-31454 APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE 9-28-88

CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_  
 BY: [Signature]  
 WELL SPACING: 2615-2-3

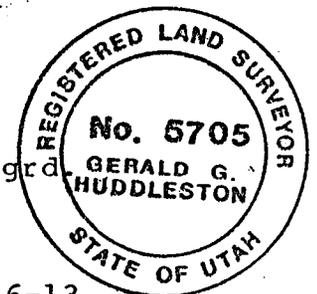
\*See Instructions On Reverse Side

WELL LOCATION AND ACREAGE DEDICATION PLAT



WELL LOCATION DESCRIPTION:

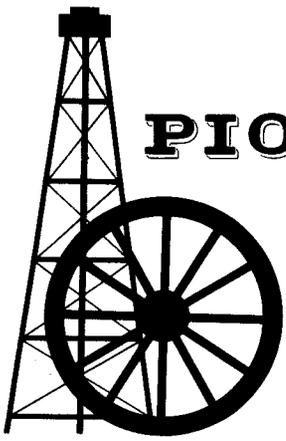
Pioneer Oil & Gas  
Gothic Mesa Unit 16-13-A  
1940' FSL & 850' FWL  
Section 16, T.41 S., R.23 E., SLM  
San Juan County, Utah  
4607' ground elevation  
Reference: #16-13, 1875' FS & 810' FW, 4606' grd



Survey based on record location and elevation of #16-13.  
The above plat is true and correct to my knowledge and belief.

23 June 1988

*Gerald G. Huddleston*  
Gerald G. Huddleston, LS



# PIONEER OIL & GAS

September 6, 1988

State of Utah Natural Resources  
Division of Oil, Gas & Mining  
3 Triad Center  
Suite 300  
SLC, UT 84180-1203

Re: APD  
Gothic Mesa Unit Well #16-13A  
16-41S-23E  
San Juan County, Utah

Gentlemen:

Enclosed herewith please find two fully executed copies of our APD for the above referenced well.

Sincerely,

A handwritten signature in black ink, appearing to read 'R. Heggie Wilson'.

R. Heggie Wilson  
Land Manager

RHW/tbp

Enc.

Pioneer Oil & Gas  
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All lease and unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil & Gas Order #1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

**8 Point Drilling Program**

**1. ESTIMATED FORMATION TOPS**

<u>Formation Name</u>	<u>Depth from GL*</u>	<u>Depth from KB</u>	<u>Subsea Depth</u>
Bluff Sandstone	000'	12'	+4,607'
Entrada Sandstone	400'	412'	+4,207'
Navajo Sandstone	900'	912'	+3,707'
Chinle Shale	1,363'	1,375'	+3,244'
Moenkopi	2,200'	2,212'	+2,407'
Organ Rock Shale	2,514'	2,526'	+2,093'
Cutler Evaporites	3,250'	3,262'	+1,357'
Hermosa Group	4,360'	4,372'	+ 247'
Ismay	5,285'	5,297'	- 678'
Desert Creek	5,494'	5,506'	- 887'
Akah Shale	5,624'	5,636'	-1,017'
Total Depth (TD)	5,700'	5,712'	-1,093'

\* ungraded GL

**2. NOTABLE ZONES**

The estimated depths from ungraded ground level at which water, oil, gas, or other mineral bearing zone formation tops are expected to be encountered are:

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Possible Water Zones

Entrada: 400'

Navajo: 900'

Chinle: 1,363'

Moenkopi: 2,200'

Possible Uranium Zones

Chinle: 1,363'

Possible Oil & Gas Zones

Ismay: 5,285'

Desert Creek: 5,494'

Water bearing zones will be protected with weighted mud. All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth, cased, and cemented. All oil and gas shows will be tested to determine commercial potential.

3. PRESSURE CONTROL (Also see "5." on PAGE 4)

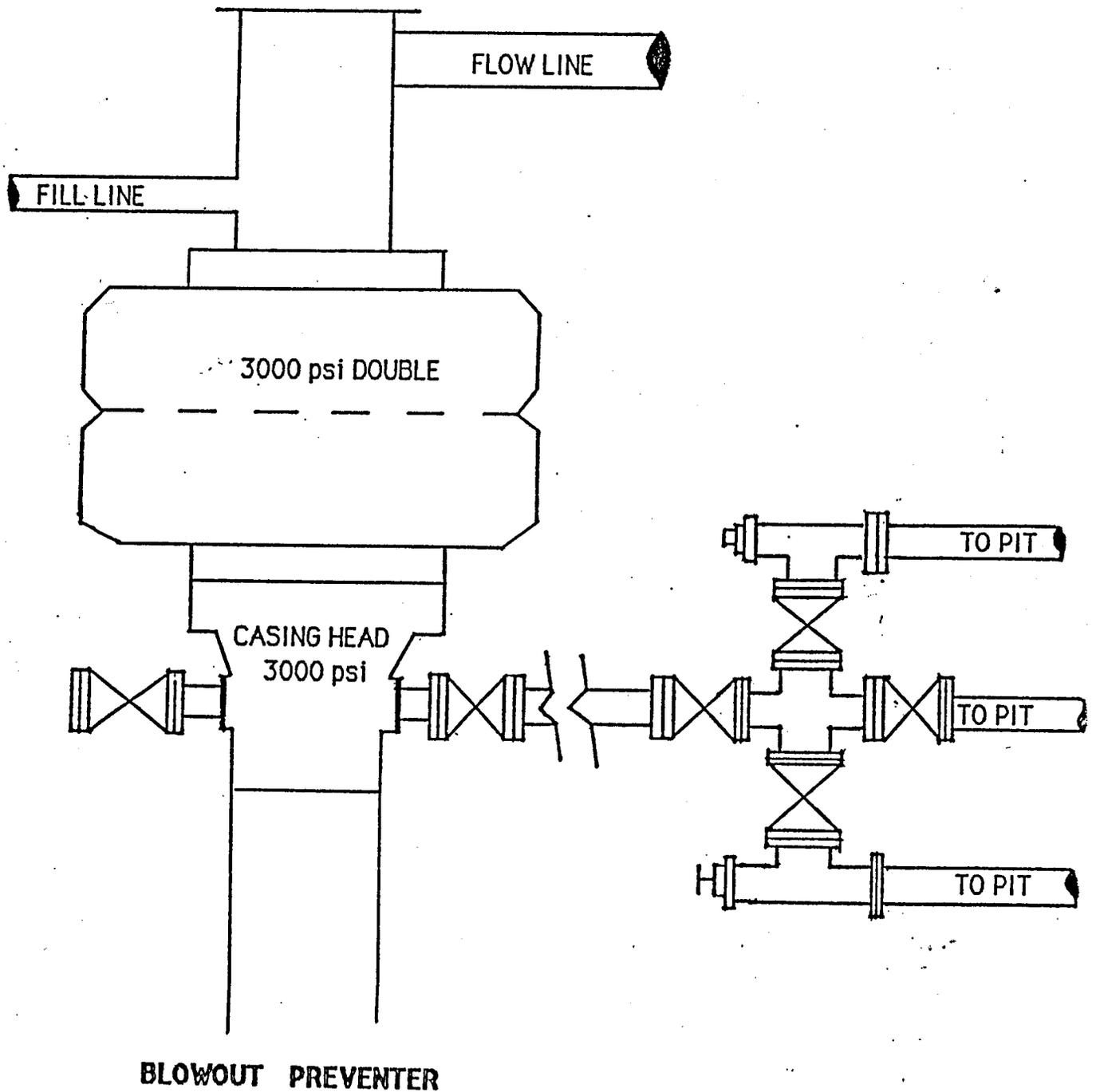
BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. BOP controls will be installed before drilling the surface casing plug, and will stay in use until the well is completed or abandoned. BOPs will be inspected and operated at least daily to assure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

A double gate hydraulic BOP Shaeffer type LWS 11" 3,000 psi with pipe rams and blind rams will be installed on the 8-5/8" casinghead. Stack will be tested to 1,000 psi before drilling under surface. Operational checks will be made daily on trips. A diagram of a typical BOP is on Page 3. Actual model will not be known until bid is let.

The BLM Farmington Area Office (505-327-5344) will be notified, with sufficient lead time, in order to have a BLM representative on location during pressure testing.

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4. CASING & CEMENTING

<u>Hole Size</u>	<u>O.D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>	<u>Age</u>	<u>Setting Depth (GL)</u>
17-1/2"	16"	48*	H-40	ST&C	New	0' - 40'
11"	8-5/8"	28*	H-40	ST&C	New	0' - 300'
7-7/8"	4-1/2"	10.5*	J-55	ST&C	New	0' - 5,700'

Conductor Pipe (0' - 40'): Cement to surface with ≈45 cu. ft. Redi-mix.

Surface Casing (0' - 300'): Cement to surface with ≈100 cu. ft. cement comprised of ≈36 sx 65-35 PozMix and ≈30 sx Class G with additives. One Texas Pattern guide shoe and insert float valve will be used for cementing.

Production Casing (0' - 5,700'): Cement from TD (5,700') to surface with ≈1,900 cu. ft. cement comprised of ≈900 sx 50-50 PozMix and Class G cement in a two stage job. DV tool is to be set at ≈3,500' and pipe is to be centralized through all potential pay zones, plus all corrosive water zones.

Casing strings will stand cemented until cement has reached a compressive strength of at least 500 psi at the shoe. Pressure tests will not begin until cement has been in place for at least 8 hours. WOC time will be recorded on the driller's log.

5. MUD PROGRAM

<u>Depth</u>	<u>Type</u>	<u>Weight (ppg)</u>	<u>Viscosity (sec/qt)</u>
0' - 300'	Spud mud gel & lime	8.8-9.0	40-50
300' - 5,400'	Dispersed to treat gypsum	8.8-9.0	36-40
5,400' - 5,700'	Salt base to stop hole enlargement	10.0-10.5	40-50

No chromate additives will be used in the mud system without prior BLM approval to ensure adequate protection of fresh water aquifers.

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#### 6. CORING, TESTING, & LOGGING

No cores are planned. Cuttings will be collected every 30' from the surface to 5,000'. Cuttings will be collected every 10' from 5,000' to 5,700' (TD). Drill stem tests may be run in the Ismay and Desert Creek and elsewhere if good shows and good hole conditions are found. The following logs may be run from the surface to TD:

DIL-SFL-SP-GR or DIL-MSFL-SP-GR  
LDT-CNL-GR

Productive zones will be swab tested. Completion will probably consist of perforating and acidizing where needed. Water produced during testing will be contained in the reserve pit. All possible oil will be stored and sold.

Whether the well is completed as a dry hole or producer, "Well Completion or Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well, or after completion of operations being performed, *per* 43 CFR 3164. Two copies of all logs, core descriptions & analyses, well test data, geologic summaries, sample descriptions, and all other data obtained during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. (If requested, sample cuttings, fluids, and/or gases will be submitted to BLM.)

#### 7. DOWNHOLE CONDITIONS

The maximum anticipated bottom hole pressure is 2,500 psi. No abnormal pressures, temperatures, or hydrogen sulfide are expected. Hydrogen sulfide measurements from unit wells show levels less than 20 ppm.

#### 8. MISCELLANEOUS

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Construction will begin ≈November 15, 1988. The anticipated spud date is ≈January 5, 1989. It is expected it will take ≈15 days to drill the well and ≈10 days to complete the well.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resuming operations.

The spud date will be phoned to the AO within 48 hours after spudding. If the spud is on a weekend or holiday, the report will be submitted on the following regular week day. The oral report will be followed up with a Sundry Notice (Form 3160-5) reporting the spud date and time.

Starting with the month in which operations begin, and continuing each month until the well is physically plugged and abandoned, a "Monthly Report of Operations" (Form 3160-6) will be sent in duplicate to the BLM's Farmington Area Office at 1235 LaPlata Highway, Farmington, NM 87401.

Immediate Report: Spills, blowouts, fires, leaks, life threatening accidents, deaths, or any other unusual events will be promptly reported to BLM and the Navajo Nation Utah Land Administration Office *per* NTL-3A.

If a replacement rig is contemplated for completion operations, a Sundry Notice (Form 3160-5) to that effect will be filed for prior approval of the AO. All conditions of this approved plan are applicable during all operations conducted with the replacement rig.

If the well is successfully completed for production, then the AO will be notified when the well is placed in a producing status. Written notification will be sent not later than 5 business days following the date on which the

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well is placed on production.

Pursuant to NTL-2B and with the approval of the AO, produced water will be temporarily disposed of in the reserve pit for a period of up to 90 days. During the period so authorized, an application for approval of the permanent disposal method along with the required water analysis and other information must be submitted to the BLM.

Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during initial well evaluation. This preliminary approval will not exceed 30 days or 50 MMcf of gas, whichever comes first. Approval to vent/flare beyond this initial period will require BLM's approval *per* NTL-4A.

A schematic facilities diagram as required by 43 CFR 3162.7-2/-4 will be submitted to the BLM within 60 days of installation or first production whichever occurs first. All site security regulations specified in 43 CFR 3162.7 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed *per* 43 CFR 3162.7-4.

No well abandonment operations will be begun without the prior approval of the AO. In case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A Sundry Notice will be sent to BLM within 30 days following completion of the well for abandonment. The Sundry will note where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until reclamation required by the approved APD or abandonment notice has been completed to the satisfaction of the BIA.

Once plugged, a regulation dry hole marker will be installed. The following information will be beaded on with a welding torch: Pioneer Oil & Gas, Gothic Mesa Unit 16-13A, NWSW 16-41s-23e, Tribal \*14-20-603-243.

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### 13 Point Surface Use Plan

#### 1. DIRECTIONS & EXISTING ROADS (See PAGES 15 - 18)

From the Montezuma Creek Post Office, go south 2.4 mi. on county and BIA road #N-5064.

Then turn right and go west 5.0 mi. on county and BIA road #N-5063.

Then turn left and go southeast 0.6 mi. on a unit road.

Then turn right and go southwest 0.2 mi. on the 16-13 well road.

Existing roads are successively county/BIA and on-lease (unit) tribal. The BIA and San Juan County Road Dept. share joint jurisdiction on the first 7.4 mi. Pioneer Oil & Gas is responsible for the last 0.8 mi. Roads will be maintained to a standard at least equal to or better their present condition. No improvement is needed other than to regrade a low water crossing on the last 0.2 mi. No fences are crossed. No culverts are needed.

An Encroachment Permit has been approved by the San Juan County Road Department.

#### 2. NEW ROADS

No new roads will be needed. No existing roads will be rebuilt.

#### 3. EXISTING WELLS (See PAGE 17)

Pioneer is the only operator with wells in a 1 mile radius. They are:

16-24 (WIWSI) is 1,707' away @ 660' FSL & 1980' FWL 16-41s-23e

16-22 (OSI) is 1,768' away @ 1980' FNL & 1980' FWL 16-41s-23e

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16-33 (POW) is 2,363' away @ 1820' FSL & 2070' FEL 16-41s-23e  
Water Supply Well (SI) is ≈2,711' away in NWSWNE 16-41s-23e  
16-11 (OSI) is 2,861' away @ 500' FNL & 500' FWL 16-41s-23e  
16-44 (WIWSI) is 3,934' away @ 660' FSL & 710' FEL 16-41s-23e  
9-24 (WIWSI) is 4,009' away @ 550' FSL & 1820' FWL 9-41s-23e  
9-13 (OSI) is 4,956' away @ 1607' FSL & 545' FWL 9-41s-23e

#### 4. PROPOSED PRODUCTION FACILITIES (See PAGE 18)

A steel surface flowline, maximum 4" O.D., will follow the existing road to a tank battery at the Gothic Mesa Unit 16-22 well (SENE 16-41s-23e). A 100' wide route was archaeologically inspected by Complete Archaeological Service Associates. No cultural resources were found.

The production facilities will make extensive use of Pioneer's existing tank battery at the Gothic Mesa Unit 16-22 well. No new tanks will be added, but the existing tanks will be replumbed to isolate production from the 16-13A well. A new treater, painted flat brown, will be installed.

The tank battery is surrounded by a dike of sufficient capacity to contain 150% of the storage capacity of the largest tank in the battery.

All site security guidelines in 43 CFR 3162.7-4 will be obeyed. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease must have prior written approval from BLM and BIA.

#### 5. WATER SUPPLY (See PAGES 16 & 18)

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Two potential water supplies may be used. The one selected will depend on cost and convenience.

Water may be trucked  $\approx$ 12 mi. from an artesian well on BLM land in NW 27-40s-23e. An Application to Appropriate Water (T63252) has been approved by the State of Utah Div. of Water Rights. The water hauler has permission from BLM to use the well.

Or, water may be piped from Pioneer's own existing water well in SWNE 16-41s-23e. A temporary surface plastic line  $\approx$ 0.6 mi. long would be laid between the two wells. A 50' wide route has been archaeologically inspected by Complete Archaeological Service Associates. No cultural resources were found. A water use application has been filed with the Navajo Nation Div. of Water Resources.

#### 6. CONSTRUCTION MATERIALS

Pad construction materials are native *in situ* soils on location.

#### 7. WASTE DISPOSAL

Cuttings, drilling fluids, and produced water will be placed in the reserve pit. Oil will be placed in temporary frac tanks during testing. Produced water will be confined to the reserve pit for a period not to exceed 90 days after initial production. During the 90 day period an NTL-2B application will be submitted for BLM's approval of a permanent disposal method and site.

The reserve pit will not be lined. Over 60% of the capacity will be in cut. All walls will be compacted with a bulldozer. The pit will be fenced sheep tight on 3 sides with woven wire (field fence or hog wire) topped with 1

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strand of barbed wire. The 4th side will be fenced once the rig moves off. The fence will be kept in good repair while the pit dries.

The road and pad will be kept litter free. All trash will be placed in a trash cage or burn pit near the mud tanks. If a trash cage is used, it will be hauled to an approved landfill. If a burn pit is used; it will be built in cut, fenced with chicken wire on all 4 sides and the top, barrels crushed before burial, and covered with 2 feet of compacted soil upon removal of the drill rig. A burning permit is required for burning trash between May 1 and October 31. Obtain a burning permit by calling the San Juan County Sheriff at (801) 587-2237.

Human waste will be disposed of in 10' deep ratholes or chemical toilets. The ratholes will be immediately filled when the trailers are removed.

#### **8. ANCILLARY FACILITIES**

There will be no airstrip or formal camp. Three camper trailers may be on site for the company man, mud logger, and tool pusher.

#### **9. WELL SITE LAYOUT & CONSTRUCTION**

See PAGES 19 - 21 for depictions of the well pad, cross sections, cut and fill diagrams, reserve pit, trash cage, access road onto the pad, parking, living facilities, and rig orientation.

The top 12" of topsoil will be stockpiled on the west side of the pad. A 12" deep diversion ditch will be built on the uphill (cut) sides and a 12" high berm will be built on the downhill (fill) sides of the pad. Cut slopes will not exceed a 2:1 grade. The Gothic Mesa Unit 16-13 dry hole marker will be left intact and in place.

10. RECLAMATION

Upon completion of drilling, all trash and debris will be collected from the pad and surrounding area and placed in the trash cage or burn pit.

The reserve pit will be completely dry before backfilling. All disturbed areas will be recontoured to blend as nearly as possible with the natural topography.

Compacted areas will be plowed or ripped to a depth of 12 to 16 inches before reseeding. Seed will be drilled to a depth of 0.5 to 0.75 inch. (If broadcast, a harrow or similar implement will be dragged over the area to assure seed cover.) The following mixture will be drilled (increase the rate 150% if broadcast):

<u>Species</u>	<u>Pure Live Seed Rate (lb/ac)</u>
Indian ricegrass ( <i>Oryzopsis hymenoides</i> )	2
Fourwing saltbush ( <i>Atriplex canescens</i> )	2
Sand dropseed ( <i>Sporobolus cryptandrus</i> )	1

If the well is productive, the reserve pit and that part of the pad not needed for production will be reclaimed as previously described. If the well is plugged and abandoned; then the pad, pit, and final 0.2 mi. of road will be reclaimed as described above. The road will be blocked and water barred as follows:

<u>Slope</u>	<u>Water Bar Spacing</u>
<1%	Every 400 feet
1% - 5%	Every 300 feet
5% - 10%	Every 200 feet
No road slope exceeds 10%	

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**11. SURFACE OWNER**

The Navajo Nation is the only surface owner of the pad and road. All is tribal land and is within the Red Mesa Chapter.

**12. OTHER INFORMATION**

All people in the area who are associated with the project will be informed that they can be prosecuted for disturbing archaeological or paleontological sites or collecting artifacts, arrowheads, or fossils. If any such resources are found, work in that spot will stop immediately and the BLM and BIA notified.

BLM's address is 1235 LaPlata Highway, Farmington, NM 87401. The phone number is (505) 327-5344.

The nearest hospital is an 80 minute drive to Monticello. Monticello's hospital is 3 blocks northwest of the intersection of US 666 and US 191. Phone number is (801) 587-2116. The nearest medical helicopter is in Grand Junction, Colorado, at St. Mary's Hospital. Call (303) 244-2550.

**13. REPRESENTATION AND CERTIFICATION**

Anyone having questions concerning the APD should contact:

Brian Wood, Consultant  
Permits West, Inc.  
37 Verano Loop  
Santa Fe, NM 87505  
(505) 984-8120

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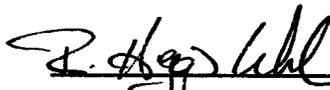
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The field representative for Pioneer Oil & Gas will be:

Eric Noblitt, Field Production Manager  
Pioneer Oil & Gas  
P. O. Box 505  
Palisade, Co. 81526  
(303) 464-5025

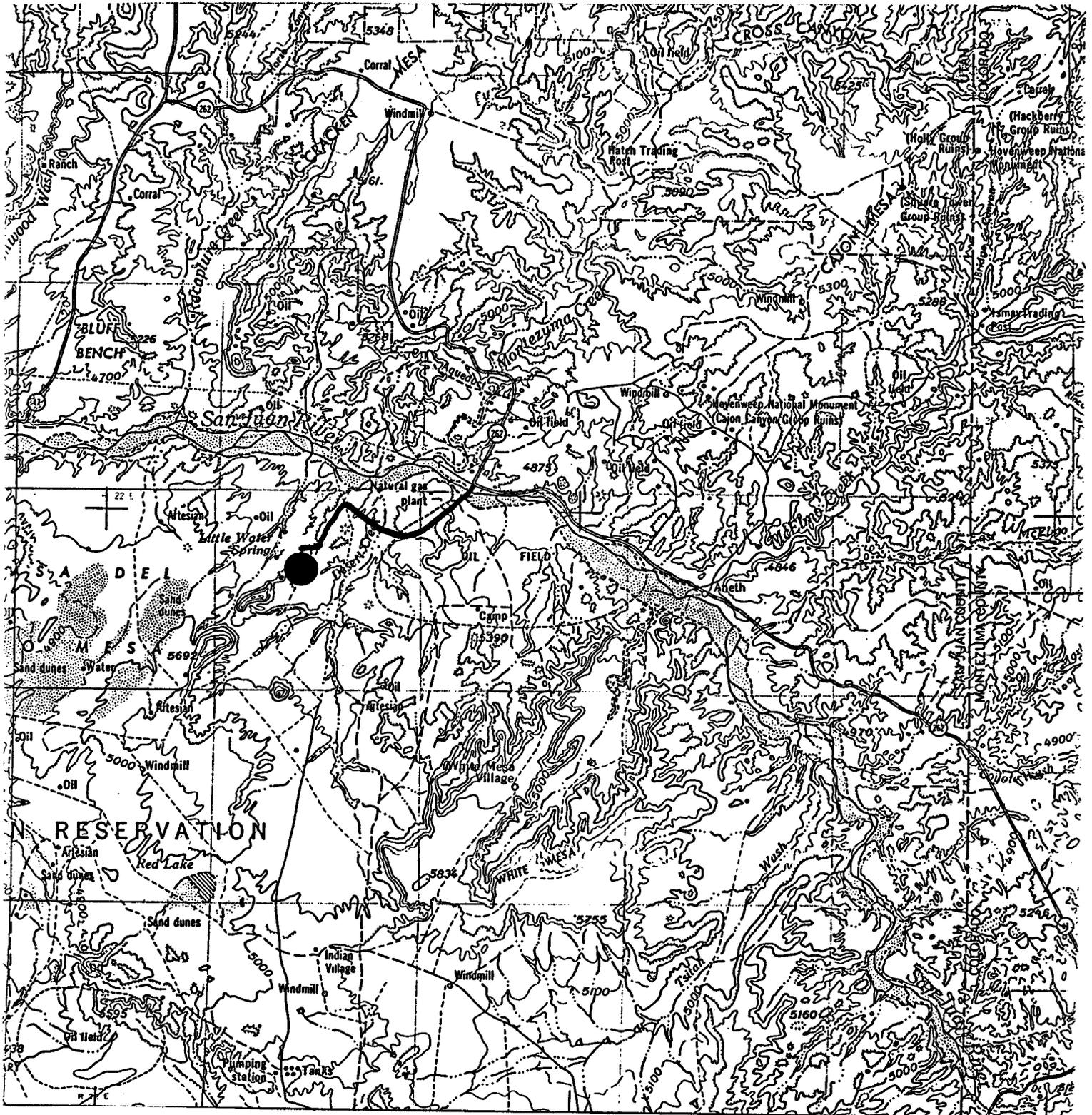
#### CERTIFICATION

I hereby certify that I have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Pioneer Oil & Gas and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

  
\_\_\_\_\_  
R. Heggie Wilson  
Land Manager

9/1/88  
Date

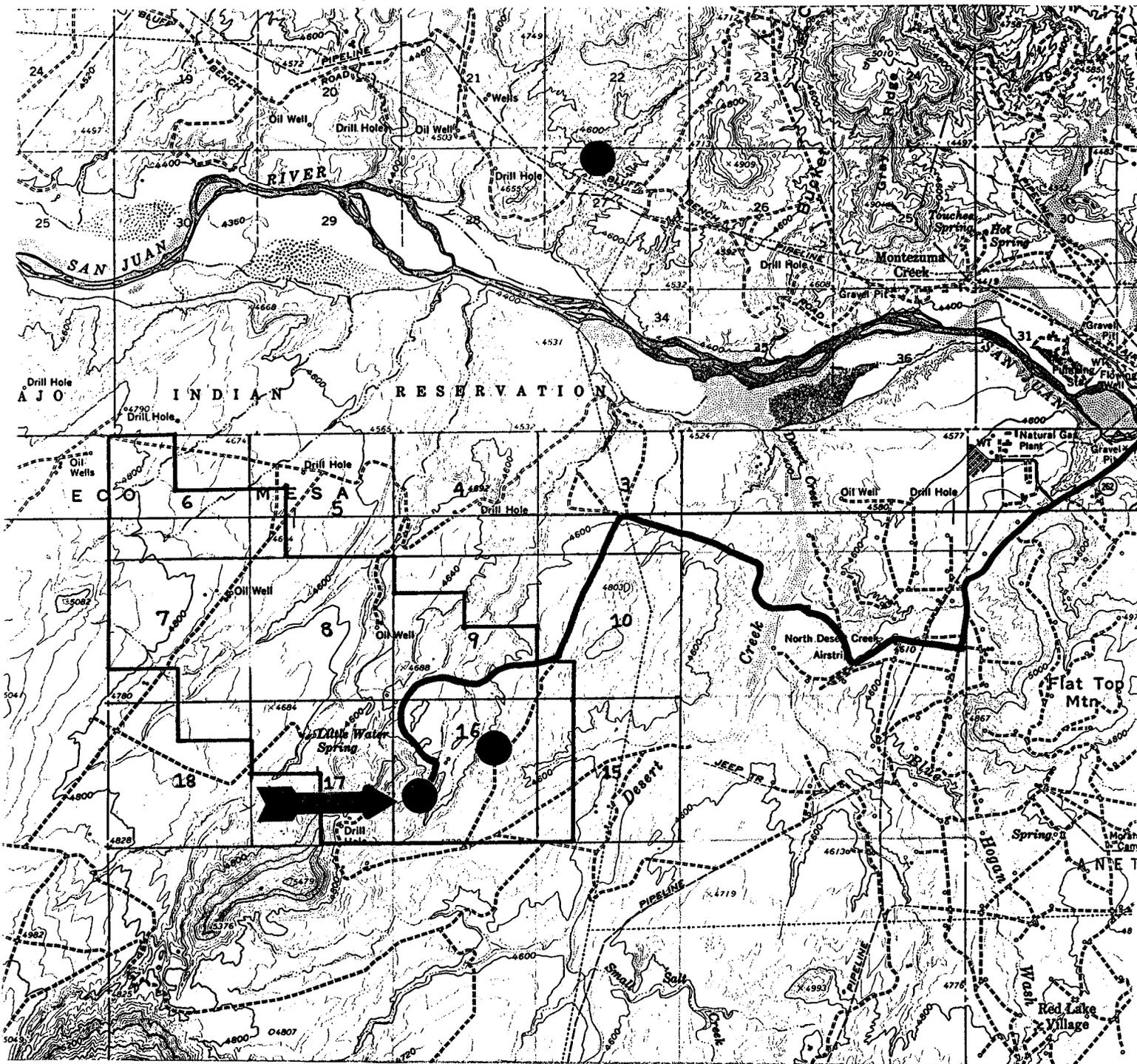
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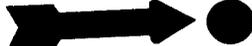


Proposed Well: ●

Access Route: ~

**Pioneer Oil & Gas  
 Gothic Mesa Unit 16-13A  
 1940' FSL & 850' FWL  
 Sec. 16, T. 41 S., R. 23 E.  
 San Juan County, Utah**



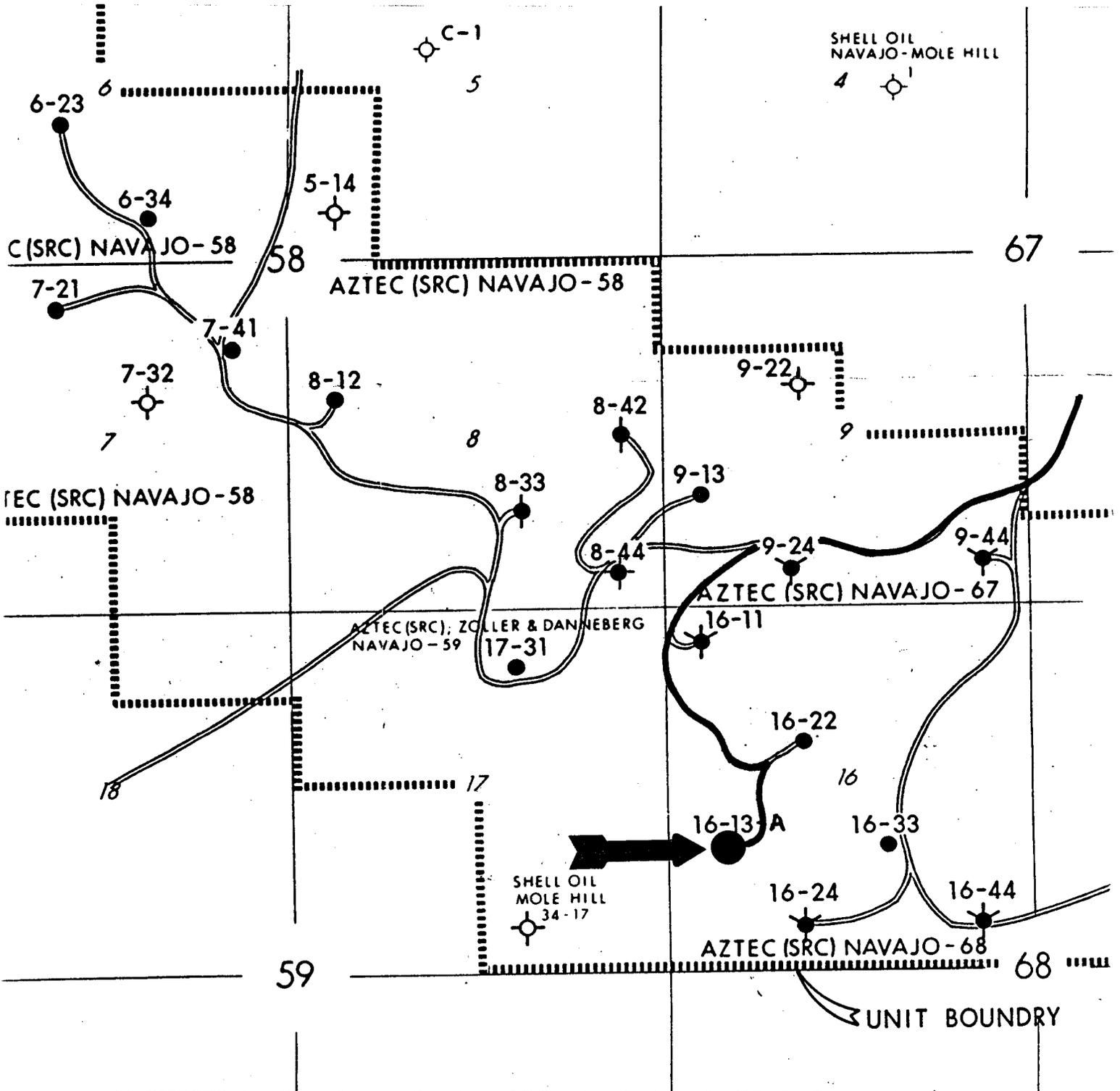
Proposed Well: 

Unit Boundary: 

Access Route: 

Water Source: 

Pioneer Oil & Gas  
 Gothic Mesa Unit 16-13A  
 1940' FSL & 850' FWL  
 Sec. 16, T. 41 S., R. 23 E.  
 San Juan County, Utah



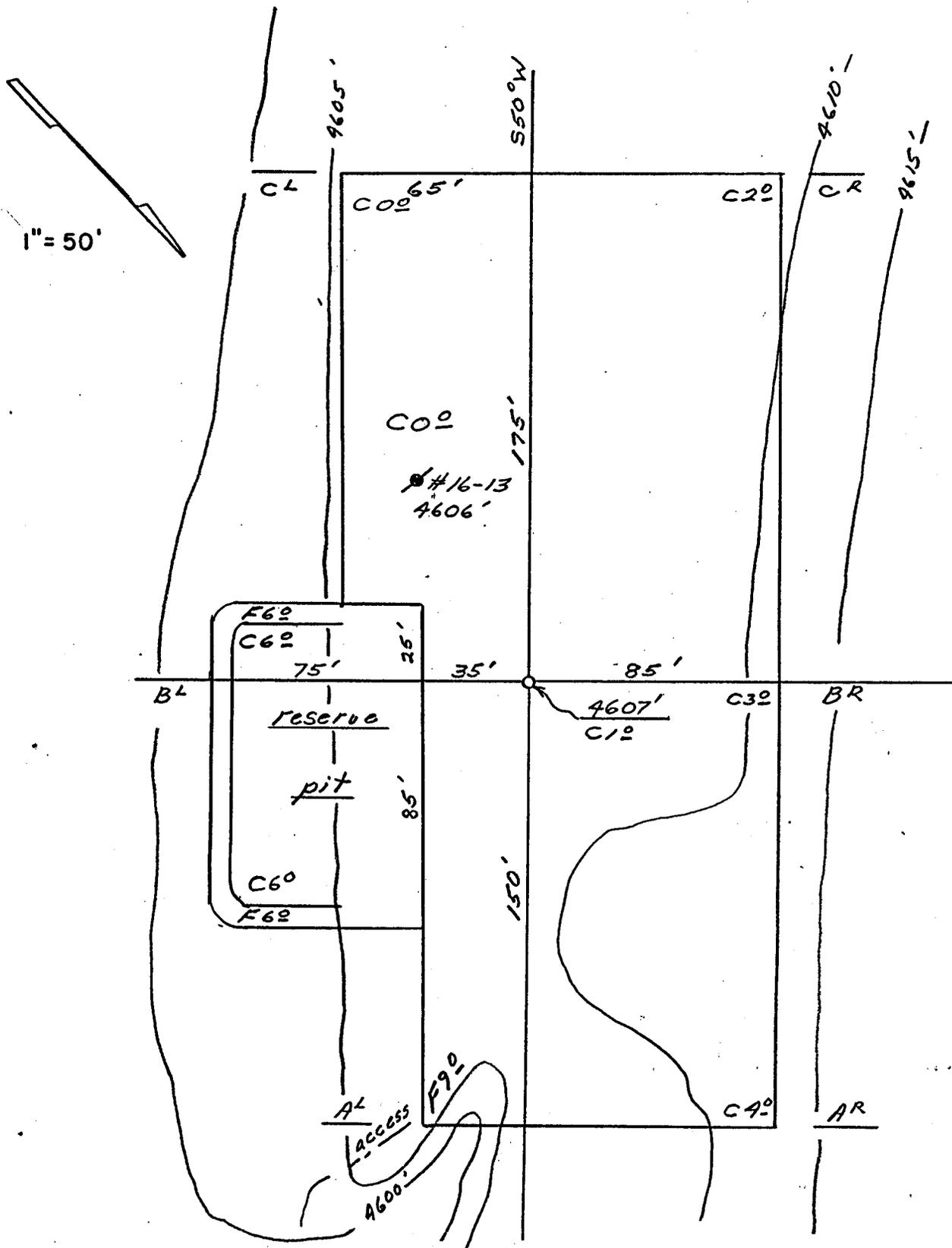
Proposed Well: 

Access Route: 



Plan View Sketch

Gothic Mesa Unit 16-13-A

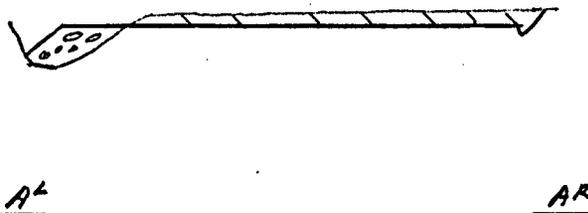
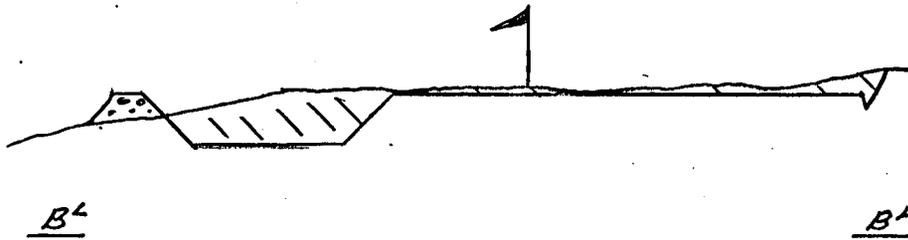
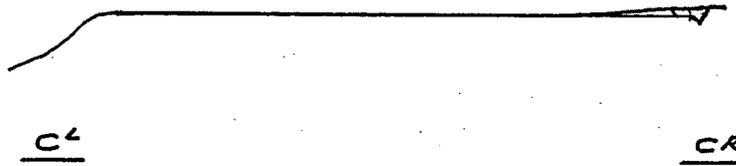


Cross Section

Gothic Mesa Unit 16-13-A

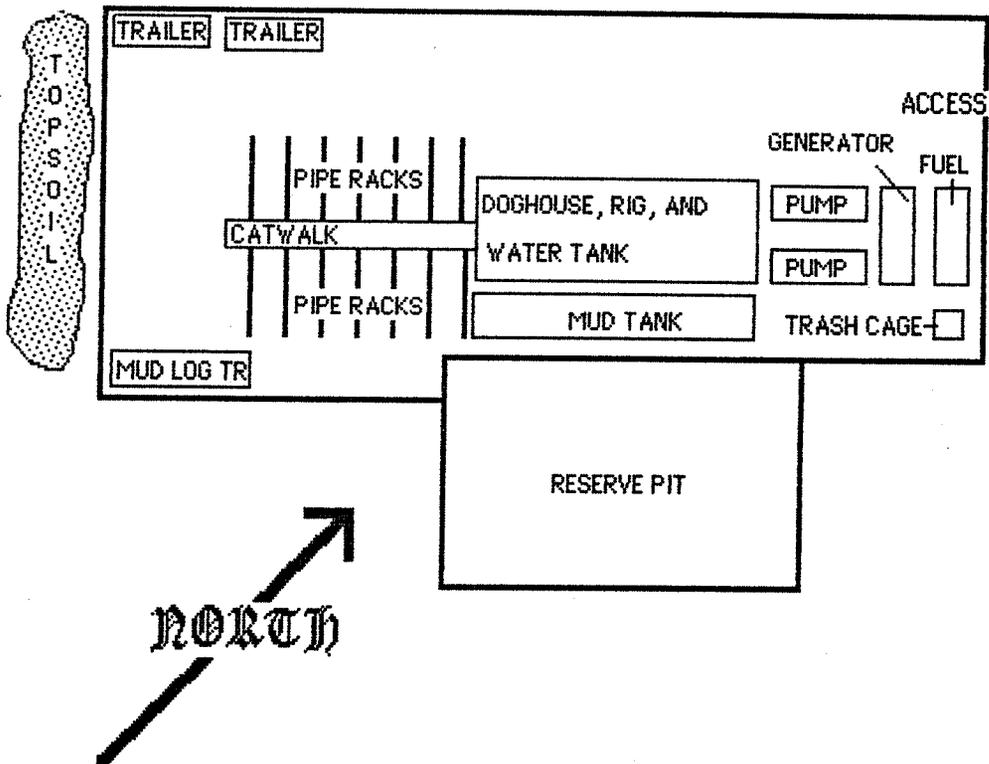
Cut   
Fill 

1"=50' Horz. & Vert.



Pioneer Oil & Gas  
Gothic Mesa Unit 16-13A  
1940' FSL & 850' FWL  
Sec. 16, T. 41 S., R. 23 E.  
San Juan County, Utah

PAGE 21



OPERATOR Pioneer Oil & Gas DATE 9-7-88

WELL NAME Gothic Mesa Unit 116-13A

SEC N7SW 116 T 41S R 23E COUNTY San Juan

43-037-31454  
API NUMBER

Indian  
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

Nearest well ok under Unit spacing  
Need water permit (1) T63252 transport from Bfm land (2) Application filed  
with Navajo Nation Div. of Water Resources.  
1988 P.O.D. Gothic Mesa / Received 9-12-88

APPROVAL LETTER:

SPACING:  R615-2-3 Gothic Mesa  
UNIT

R615-3-2

CAUSE NO. & DATE

R615-3-3

STIPULATIONS:

1-Water Permit



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

September 20, 1988

Pioneer Oil & Gas  
6925 Union Park Center #145  
Midvale, Utah 84047

Gentlemen:

Re: Gothic Mesa Unit 16-13A - NW SW Sec. 16, T. 41S, R. 23E - San Juan County, Utah  
1940' FSL, 850' FWL

Approval to drill the referenced well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule R615-2-3, Oil and Gas Conservation General Rules, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form OGC-8-X.
4. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-22, Gas Flaring or Venting, Oil and Gas Conservation General Rules.

Page 2  
Pioneer Oil & Gas  
Gothic Mesa Unit 16-13A  
September 20, 1988

6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31454.

Sincerely,



R. J. Firth  
Associate Director, Oil & Gas

lr  
Enclosures  
cc: Branch of Fluid Minerals  
D. R. Nielson  
8159T

**GENERAL  
ATLANTIC****RESOURCES, INC.**

July 20, 1989

State Engineer  
State of Utah  
Division of Water Rights  
1036 W. No. Temple  
Salt Lake City, Utah 84116  
Attn: Mr. Bob Berger

Re: Application to Temporarily Appropriate Water

Dear Mr. Berger: *538-7408 or Robin Campbell 538-7410*

As per our conversation on Tuesday 10, July 1989 General Atlantic Resources, Inc. is resubmitting an application to appropriate water to drill an oil well. The original application is enclosed which expired 14 July, 1989. Unfortunately, it has been a lengthy process to deal with the Navajo Indian tribe to drill the well and the application expired a month before the well can get started. It would be greatly appreciated if the application could be extended or a new application granted so that the oil well can be drilled. Due to the dead lines enforced by the tribe on conducting operations it would be very helpful if a verbal approval could be given to appropriate the water.

Also enclosed is the form to Apply to Appropriate Water and the \$30.00 application fee. If any questions should arise, please feel free to call.

Sincerely,

GENERAL ATLANTIC RESOURCES, INC.

  
Phillip A. Kriz  
Senior Operations Engineer

PAK:jkc

Enclosures



# GENERAL ATLANTIC

## RESOURCES, INC.

### TELECOPY COVER PAGE

DATE: 8-8-89 TIME: \_\_\_\_\_

Following this cover sheet, 4 additional page(s) are being sent to you via telecopy.

PLEASE DELIVER AT YOUR EARLIEST CONVENIENCE TO:

FIRM NAME: LISHA ROMERO

PARTY'S NAME: \_\_\_\_\_

TELEPHONE: \_\_\_\_\_ EXT: \_\_\_\_\_

TELECOPY NUMBER: 801-359-394

FROM: PAUL KRIZ

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

If you have any problems receiving these pages, please call  
Judy Coley at (303) 573-5100 - Extension: 212.  
FAX: (303) 572-3034



DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

API NO. 43-037-31454

NAME OF COMPANY: PIONEER OIL & GAS

WELL NAME: GOTHIC MESA 16-13A

SECTION NWSW 16 TOWNSHIP 41S RANGE 23E COUNTY SAN JUAN

DRILLING CONTRACTOR EXETER

RIG # 33

SPUDDED: DATE 8/7/89

TIME 12:00 midnight

HOW ROTARY

DRILLING WILL COMMENCE \_\_\_\_\_

REPORTED BY JAMES HATCHER

TELEPHONE # 505-327-7259

DATE 8/7/89 SIGNED TAS

DIVISION OF OIL, GAS AND MINING

CORRECTED COPY

SPUDDING INFORMATION

API NO. 43-037-31454

NAME OF COMPANY: PIONEER OIL & GAS

WELL NAME: GOTHIC MESA UNIT 16-13A

SECTION NWSW 16 TOWNSHIP 41S RANGE 23E COUNTY SAN JUAN

DRILLING CONTRACTOR EXETER RIG

RIG # 8

SPUDDED: DATE 8-9-89

TIME 5:00 a.m.

How ROTARY

DRILLING WILL COMMENCE \_\_\_\_\_

REPORTED BY PHILLIP KRIZ

TELEPHONE # 303-573-5100

DATE 8/9/89 SIGNED TAS

**RECEIVED**  
AUG 11 1989

OPERATOR Pioneer Oil & Gas

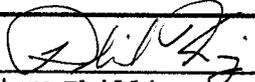
OPERATOR ACCT. NO. N3025

ADDRESS 6925 Union Park Center #145  
Midvale, Utah 84047

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER OF OIL, GAS & MINING	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	06008	43-037-31454	Gothic Mesa Unit #16-13A	NWSW	16	41S	23E	San Juan	8-9-89	
<b>WELL 1 COMMENTS:</b> The above referenced well was spud 5 AM 8-9-89 by Exeter Rig #68. Projected total depth is 5600' and it will be a Desert Creek /Ismay test.											
<b>WELL 2 COMMENTS:</b> Indian-lease Proposed Zone-Akah (TD) Field-Gothic mesa (No P.A.'s within Gothic mesa unit, other wells operated by Pioneer Oil & Gas, same) Unit-Gothic mesa formation share entity 06008. Assign same on 8-14-89. LCR											
<b>WELL 3 COMMENTS:</b>											
<b>WELL 4 COMMENTS:</b>											
<b>WELL 5 COMMENTS:</b>											

- ACTION CODES (See instructions on back of form)**
- A - Establish new entity for new well (single well only)
  - B - Add new well to existing entity (group or unit well)
  - C - Re-assign well from one existing entity to another existing entity
  - D - Re-assign well from one existing entity to a new entity
  - E - Other (explain in comments section)

**NOTE:** Use COMMENT section to explain why each Action Code was selected.

  
 Signature Phillip A. Kriz  
 Title Sr. Op. Engineer Date  
 Phone No. (303 ) 573-5100

RECEIVED  
AUG 14 1989

# FILING FOR WATER IN THE STATE OF UTAH

1989

Rec. by \_\_\_\_\_  
Fee Rec. 3040  
Receipt # 51205  
Microfilmed \_\_\_\_\_  
Roll # \_\_\_\_\_

## APPLICATION TO APPROPRIATE WATER

DIVISION OF  
OIL, GAS & MINING

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of Title 73, Chapter 3 of the Utah Code Annotated (1953, as amended).

\* WATER RIGHT NO. 09 - 11649

\* APPLICATION NO. T 64105

1. \* PRIORITY OF RIGHT: \_\_\_\_\_ \* FILING DATE: \_\_\_\_\_

2. OWNER INFORMATION PIONEER OIL & GAS  
Name(s): General Atlantic Resources, Inc. \* Interest: \_\_\_\_\_ %  
Address: 410 17th Street - Suite 1400  
City: Denver State: Colorado Zip Code: 80202  
Is the land owned by the applicant? Yes \_\_\_\_\_ No XXX  
(If "No", please explain in EXPLANATORY section.)

3. QUANTITY OF WATER: \_\_\_\_\_ cfs and/or Two ac-ft

4. SOURCE: BLM Artesion Well \* DRAINAGE: \_\_\_\_\_  
which is tributary to San Juan River  
which is tributary to Colorado  
POINT(S) OF DIVERSION: \_\_\_\_\_ COUNTY: San Juan  
South 1050 ft and east 1575 feet from the NW corner of Sec. 27-T40S-R23E

Description of Diverting Works: Water will be pumped into 85 bbl tank trucks  
\* COMMON DESCRIPTION: 10 miles East of Bluff Montezuma Creek'Quad

5. POINT(S) OF REDIVERSION  
The water will be rediverted from \_\_\_\_\_ at a point:  
\_\_\_\_\_  
\_\_\_\_\_  
Description of Rediverting Works: \_\_\_\_\_

6. POINT(S) OF RETURN  
The amount of water consumed will be \_\_\_\_\_ cfs or 2.0 ac-ft  
The amount of water returned will be \_\_\_\_\_ cfs or \_\_\_\_\_ ac-ft  
The water will be returned to the natural stream/source at a point(s): \_\_\_\_\_

7. STORAGE  
Reservoir Name: N/A Storage Period: from \_\_\_\_\_ to \_\_\_\_\_  
Capacity: \_\_\_\_\_ ac-ft. Inundated Area: \_\_\_\_\_ acres  
Height of dam: \_\_\_\_\_ feet  
Legal description of inundated area by 40 acre tract(s): \_\_\_\_\_

\* These items are to be completed by the Division of Water Rights

Appropriate

8. List any other water rights which will supplement this application  
Applicant Supplements other entities (e.g. Hay Hot Oil) water rights  
Stock watering, etc.

9. NATURE AND PERIOD OF USE

Irrigation: From \_\_\_\_\_ to \_\_\_\_\_  
Stockwatering: From \_\_\_\_\_ to \_\_\_\_\_  
Domestic: From \_\_\_\_\_ to \_\_\_\_\_  
Municipal: From \_\_\_\_\_ to \_\_\_\_\_  
Mining: From \_\_\_\_\_ to \_\_\_\_\_  
Power: From \_\_\_\_\_ to \_\_\_\_\_  
Other: From July 19, 89 to July 18, 1990

10. PURPOSE AND EXTENT OF USE

Irrigation: \_\_\_\_\_ acres. Sole supply of \_\_\_\_\_ acres.  
Stockwatering (number and kind): \_\_\_\_\_  
Domestic: \_\_\_\_\_ Families and/or \_\_\_\_\_ Persons  
Municipal (name): \_\_\_\_\_  
Mining: \_\_\_\_\_ Mining District in the \_\_\_\_\_ Mine  
Ores mined: \_\_\_\_\_  
Power: Plant name: \_\_\_\_\_ Type: \_\_\_\_\_ Capacity: \_\_\_\_\_  
Other (describe): Water will be used for oil well drilling mud, dust control,  
compaction, etc.

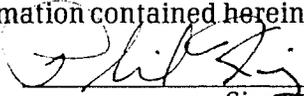
11. PLACE OF USE

Legal description of place of use by 40 acre tract(s):  
North 990' and East 990' from the SW corner of Sec. 6-T41S-R23E, SLBM at  
the Gothic Mesa Unit 6-14 oil well (SW SW 6-41S-23E) and north 1950' and east  
750' from the SW corner of Sec. 16-T41S-R23E at the Gothic Mesa Unit 16-13-A  
oil well (NW SW 16-41S-23E)

12. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. (Use additional pages of same size if necessary):  
From #2: Land is public (federal) and administered  
by Bureau of Land Management, Monticello, Utah.

\*\*\*\*\*  
The applicant(s) hereby acknowledges that he/she/they are a citizen(s) of the United States of America or intends to become such a citizen(s). The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purposes herein described. The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, at the time of filing, rests with the applicant(s).

  
\_\_\_\_\_  
Signature of Applicant(s)

STATE ENGINEER'S ENDORSEMENT

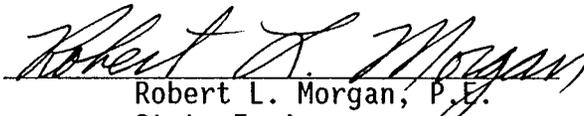
WATER RIGHT NUMBER: 09 - 1649

APPLICATION NO. T64105

1. July 21, 1989            Application received.
  2. July 31, 1989            Application designated for APPROVAL by MP and KLJ.
  3. Comments:
- 
- 

Conditions:

This application is hereby APPROVED, dated August 11, 1989, subject to prior rights and this application will expire on August 11, 1990.

  
Robert L. Morgan, P.E.  
State Engineer

**RECEIVED**  
AUG 28 1989

DIVISION OF  
OIL, GAS & MINING

**GENERAL ATLANTIC RESOURCES, INCORPORATED**

**LEASE : GOTHIC MESA**

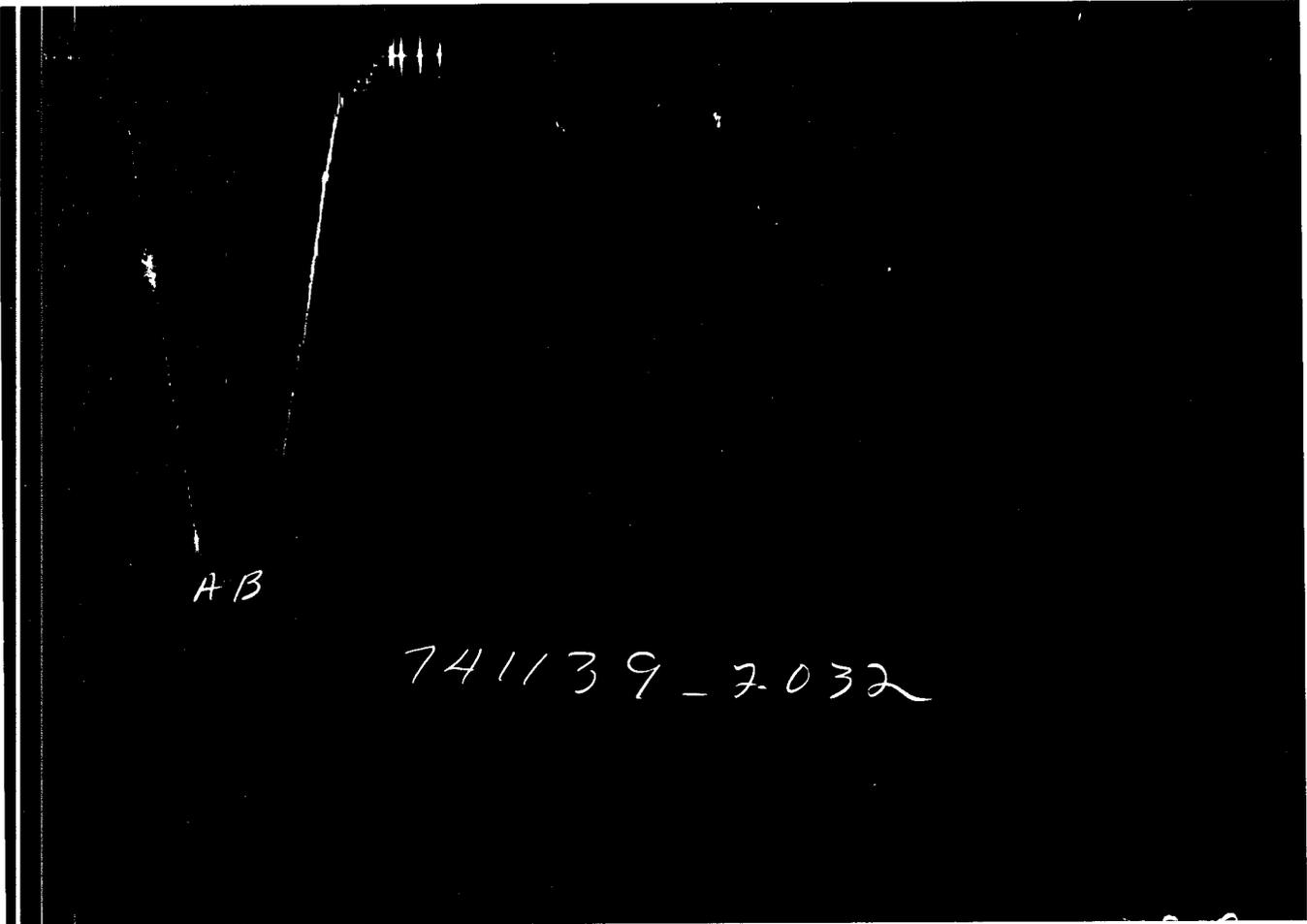
**WELL NO. : 16-13A**

**TEST NO. : 2**

**TICKET NO. 74113900**  
**22-AUG-89**  
**FARMINGTON**

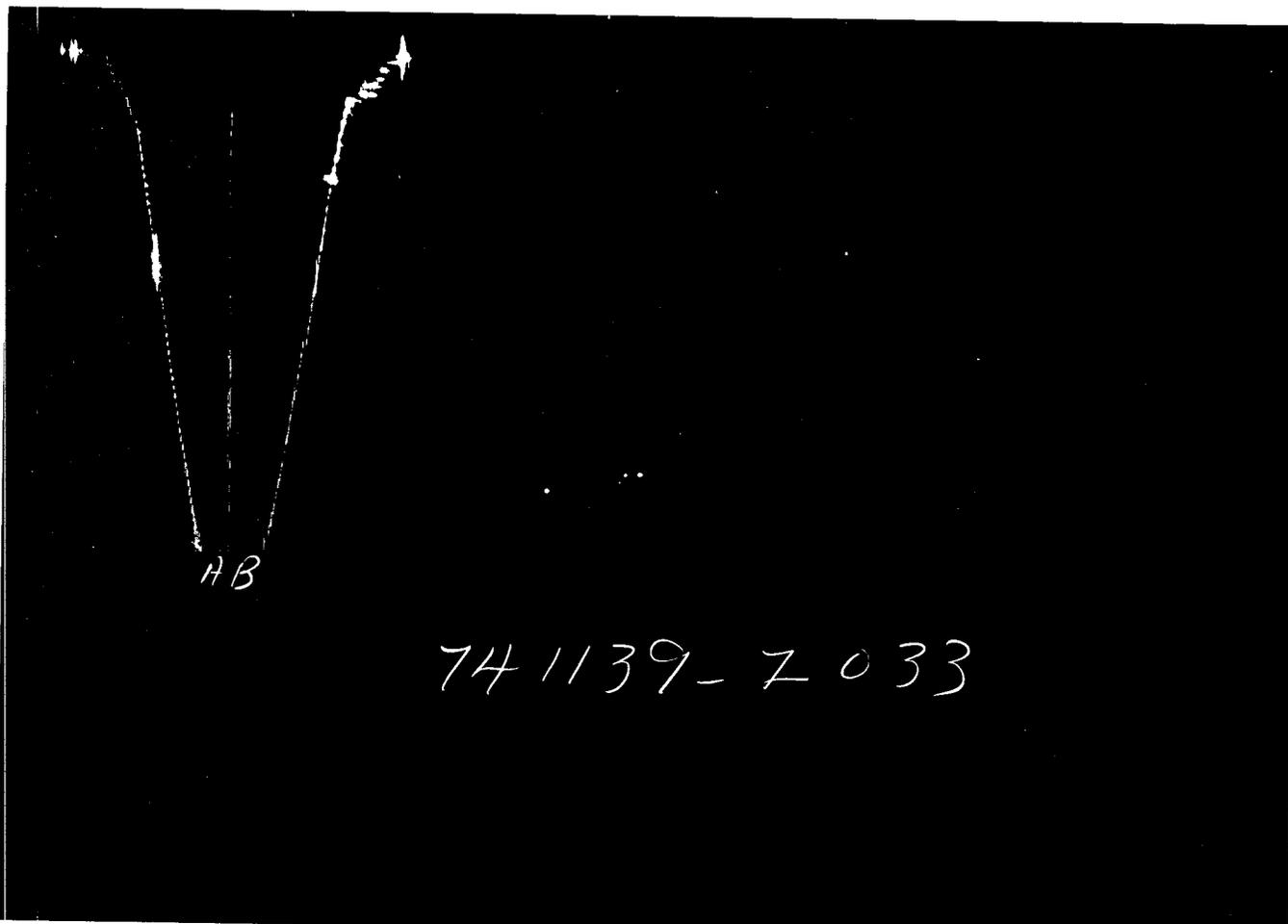
LEGAL LOCATION: 16-418-23E  
LEASE NAME: GOTHIC MESA  
WELL NO.: 16-13A  
TEST NO.: 2  
FIELD AREA: GREATER ANETH  
COUNTY: SAN JUAN  
STATE: UTAH DR  
TESTED INTERVAL: 5317.0 - 5347.0  
LEASE OWNER/COMPANY NAME: GENERAL ATLANTIC RESOURCES, INCORPORATED

*PIONEER OIL & GAS*



GAUGE NO: 2032 DEPTH: 5296.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2588	2601.9			
B	FINAL HYDROSTATIC	2588	2601.9			



GAUGE NO: 2033 DEPTH: 5344.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2623	2630.0			
B	FINAL HYDROSTATIC	2623	2630.0			



### EQUIPMENT & HOLE DATA

FORMATION TESTED: UPPER ISMAY  
 NET PAY (ft): 8.0 (5332.5-5340.5)  
 GROSS TESTED FOOTAGE: 30.0  
 ALL DEPTHS MEASURED FROM: KELLY BUSHING  
 CASING PERFS. (ft): \_\_\_\_\_  
 HOLE OR CASING SIZE (in): 7.875  
 ELEVATION (ft): \_\_\_\_\_  
 TOTAL DEPTH (ft): 5347.0  
 PACKER DEPTH(S) (ft): 5311, 5317  
 FINAL SURFACE CHOKE (in): \_\_\_\_\_  
 BOTTOM HOLE CHOKE (in): 0.750  
 MUD WEIGHT (lb/gal): 9.30  
 MUD VISCOSITY (sec): 34  
 ESTIMATED HOLE TEMP. (°F): 100  
 ACTUAL HOLE TEMP. (°F): 115 @ 5343.0 ft

TICKET NUMBER: 74113900  
 DATE: 8-20-89 TEST NO: 2  
 TYPE DST: OPEN HOLE  
 FIELD CAMP: FARMINGTON  
 TESTER: GENE ROBERTS  
 WITNESS: JAMES HATCHER  
 DRILLING CONTRACTOR: EXETER #68

### FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm

### SAMPLER DATA

P<sub>sig</sub> AT SURFACE: \_\_\_\_\_  
 cu.ft. OF GAS: \_\_\_\_\_  
 cc OF OIL: \_\_\_\_\_  
 cc OF WATER: \_\_\_\_\_  
 cc OF MUD: \_\_\_\_\_  
 TOTAL LIQUID cc: \_\_\_\_\_

### HYDROCARBON PROPERTIES

OIL GRAVITY (°API): \_\_\_\_\_ @ \_\_\_\_\_ °F  
 GAS/OIL RATIO (cu.ft. per bbl): \_\_\_\_\_  
 GAS GRAVITY: \_\_\_\_\_

### CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

### RECOVERED :

MEASURED FROM TESTER VALVE

### REMARKS :

NO PACKER SEAT--UNSUCCESSFUL TEST.

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE .....	4.500	3.826	4580.0	
4		FLEX WEIGHT .....	4.500	2.764	91.0	
3		DRILL COLLARS .....	6.250	2.750	520.0	
50		IMPACT REVERSING SUB .....	6.000	3.000	1.0	5191.5
3		DRILL COLLARS .....	6.250	2.750	90.0	
5		CROSSOVER .....	6.000	3.000	1.0	
13		DUAL CIP SAMPLER .....	5.030	0.870	7.0	
60		HYDROSPRING TESTER .....	5.000	0.750	5.0	5294.0
80		AP RUNNING CASE .....	5.000	2.250	4.0	5296.0
15		JAR .....	5.030	1.750	5.0	
16		VR SAFETY JOINT .....	5.000	1.000	3.0	
70		OPEN HOLE PACKER .....	7.000	1.530	6.0	5311.0
70		OPEN HOLE PACKER .....	7.000	1.530	6.0	5317.0
20		FLUSH JOINT ANCHOR .....	5.750	3.000	24.0	
81		BLANKED-OFF RUNNING CASE .....	5.750		4.0	5344.0
TOTAL DEPTH						5347.0

EQUIPMENT DATA

RECEIVED

AUG 28 1989

DIVISION OF  
OIL, GAS & MINING

GENERAL ATLANTIC RESOURCES, INCORPORATED

LEASE : GOTHIC MESA

WELL NO. : 16-13A

TEST NO. : 1

43-037-31454

TICKET NO. 74113800  
22-AUG-89  
FARMINGTON

LEGAL LOCATION 16-41S-23E

LEASE NAME GOTHIC MESA

WELL NO. 16-13A

TEST NO. 1

FIELD AREA GREATER ANETH

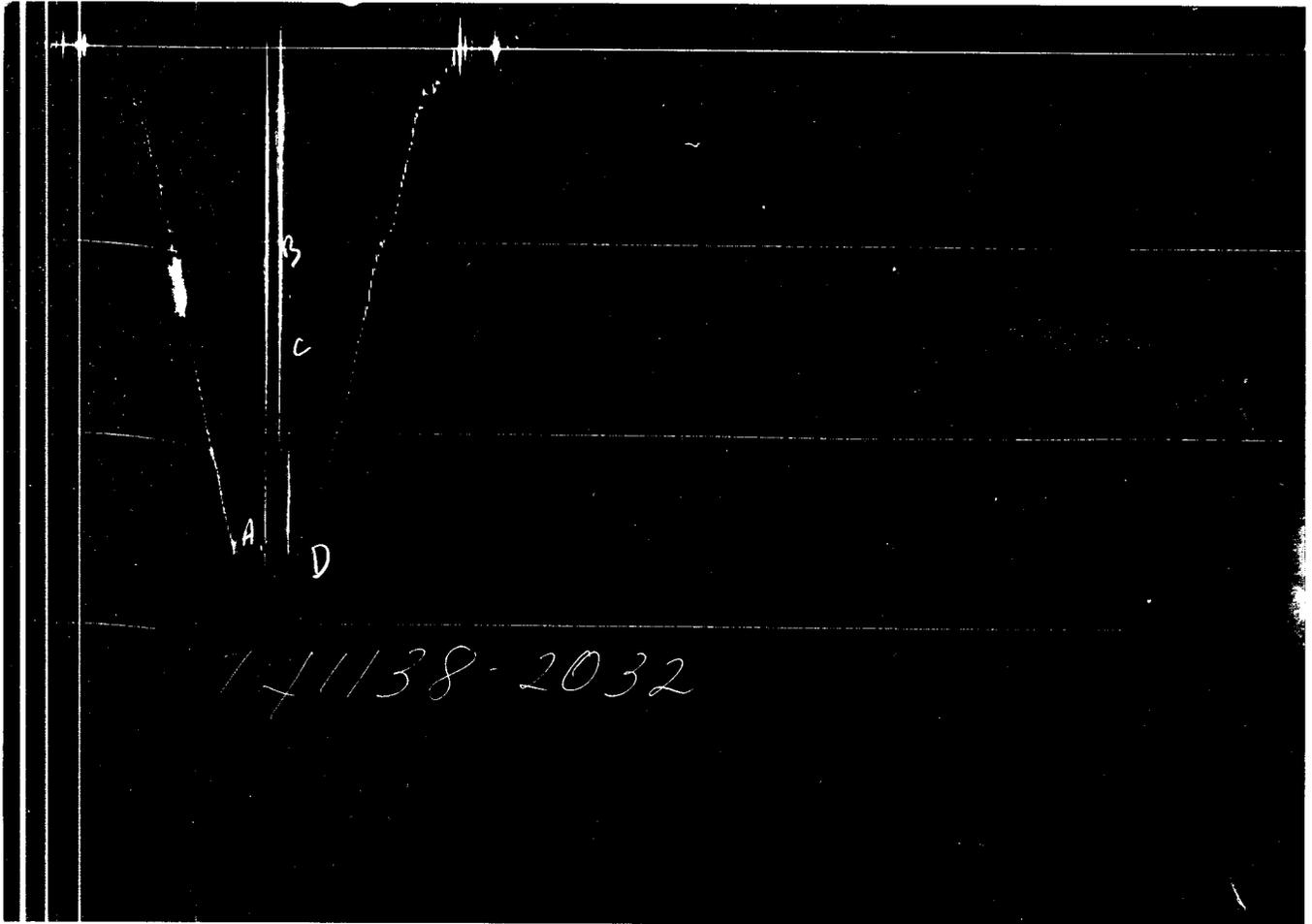
COUNTY SAN JUAN

STATE UTAH

SM

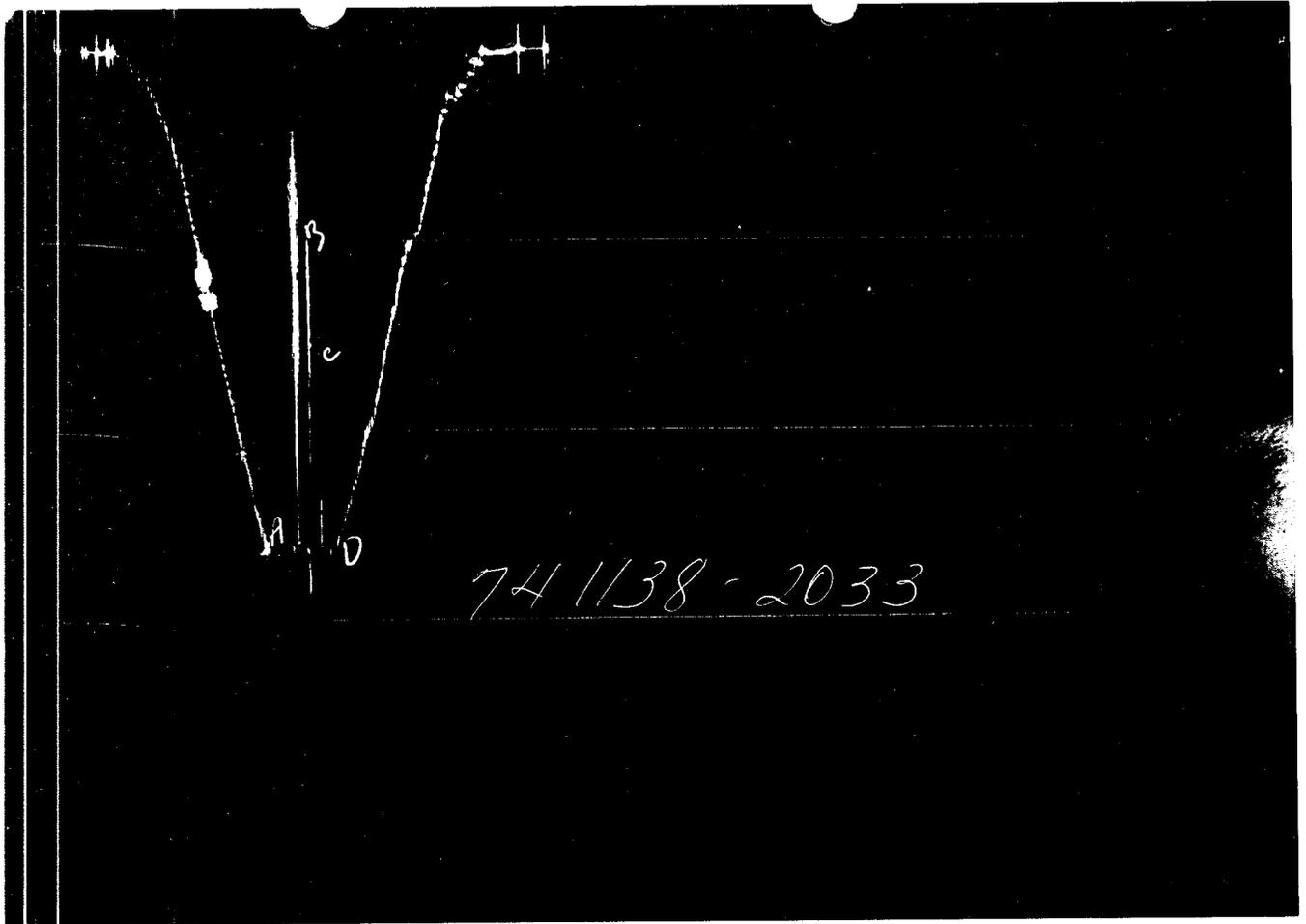
TESTED INTERVAL 5327.0 - 5342.0

LEASE OWNER/COMPANY NAME PIONEER OIL & GAS GENERAL ATLANTIC RESOURCES, INCORPORATED



GAUGE NO : 2032 DEPTH : 5306.0 BLANKED OFF : NO HOUR OF CLOCK : 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2615.6			
B	INITIAL FIRST FLOW		1036.2	13.0	13.0	F
C	FINAL FIRST FLOW		1569.1			
D	FINAL HYDROSTATIC		2614.1			



GAUGE NO: 2033 DEPTH: 5339.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2631.2			
B	INITIAL FIRST FLOW		993.9	13.0	13.0	F
C	FINAL FIRST FLOW		1603.0			
D	FINAL HYDROSTATIC		2629.8			

EQUIPMENT & HOLE DATA		TICKET NUMBER: <u>74113800</u>	
FORMATION TESTED: <u>UPPER ISMAY</u>		DATE: <u>8-19-89</u> TEST NO: <u>1</u>	
NET PAY (ft): <u>8.0</u> (5332.5-5340.5)		TYPE DST: <u>OPEN HOLE</u>	
GROSS TESTED FOOTAGE: <u>15.0</u>		FIELD CAMP: <u>FARMINGTON</u>	
ALL DEPTHS MEASURED FROM: <u>KELLY BUSHING</u>		TESTER: <u>GENE ROBERTS</u>	
CASING PERFS. (ft): _____		WITNESS: <u>JAMES HATCHER</u>	
HOLE OR CASING SIZE (in): <u>7.875</u>		DRILLING CONTRACTOR: <u>EXETER RIG #68</u>	
ELEVATION (ft): _____			
TOTAL DEPTH (ft): <u>5342.0</u>			
PACKER DEPTH(S) (ft): <u>5321, 5327</u>			
FINAL SURFACE CHOKE (in): _____			
BOTTOM HOLE CHOKE (in): <u>0.750</u>			
MUD WEIGHT (lb/gal): <u>9.30</u>			
MUD VISCOSITY (sec): <u>34</u>			
ESTIMATED HOLE TEMP. (°F): <u>130</u>			
ACTUAL HOLE TEMP. (°F): _____ @ _____ ft			
FLUID PROPERTIES FOR RECOVERED MUD & WATER		SAMPLER DATA	
SOURCE	RESISTIVITY	CHLORIDES	Psig AT SURFACE: _____
_____	@ _____ °F	_____ ppm	cu.ft. OF GAS: _____
_____	@ _____ °F	_____ ppm	cc OF OIL: _____
_____	@ _____ °F	_____ ppm	cc OF WATER: _____
_____	@ _____ °F	_____ ppm	cc OF MUD: _____
_____	@ _____ °F	_____ ppm	TOTAL LIQUID cc: _____
_____	@ _____ °F	_____ ppm	
HYDROCARBON PROPERTIES		CUSHION DATA	
OIL GRAVITY (°API): _____ @ _____ °F		TYPE	AMOUNT WEIGHT
GAS/OIL RATIO (cu.ft. per bbl): _____		_____	_____
GAS GRAVITY: _____		_____	_____
RECOVERED :			MEASURED FROM TESTER VALVE
REMARKS :			
LOST PACKER SEAT....UNSUCCESSFUL TEST.			



TICKET NO. 74113800

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	4591.0	
4		FLEX WEIGHT.....	4.500	2.764	91.0	
3		DRILL COLLARS.....	6.250	2.250	519.0	
50		IMPACT REVERSING SUB.....	6.000	3.000	1.0	5201.5
3		DRILL COLLARS.....	6.250	2.250	90.0	
5		CROSSOVER.....	6.000	3.000	1.0	
13		DUAL CIP SAMPLER.....	5.030	0.870	7.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	5304.0
80		AP RUNNING CASE.....	5.000	2.250	4.0	5306.0
15		JAR.....	5.030	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	5321.0
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	5327.0
20		FLUSH JOINT ANCHOR.....	5.750	3.000	9.0	
81		BLANKED-OFF RUNNING CASE.....	5.750		4.0	5339.0
TOTAL DEPTH						5342.0

EQUIPMENT DATA

12 July

RECEIVED  
AUG 28 1989

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
DRILLING AND WELL PLUGGING INSPECTION FORM

DIVISION OF  
OIL, GAS & MINING

COMPANY: Pioneer COMPANY MAN: \_\_\_\_\_

WELL NAME: Gothic mesa U. 16-13A API #: 43-037-31454

QTR/QTR: nw/sw SECTION: 16 TWP: 41S RANGE: 23E

CONTRACTOR: Exter #68 PUSHER/DRLR: \_\_\_\_\_

INSPECTOR: Glenn DATE: 8/22 OPERATIONS: Running Pipe

SPUD DATE: 8/9/89 TOTAL DEPTH: 5650'

DRILLING AND COMPLETIONS

<input checked="" type="checkbox"/> APD	<input checked="" type="checkbox"/> WELL SIGN	<input checked="" type="checkbox"/> BOPE	<input checked="" type="checkbox"/> RESERVE PIT
<input checked="" type="checkbox"/> FLARE PIT	<input checked="" type="checkbox"/> BURN PIT	<input checked="" type="checkbox"/> H2S	<input checked="" type="checkbox"/> BLOOIE LINE
<input checked="" type="checkbox"/> SANITATION	<input checked="" type="checkbox"/> HOUSEKEEPING	____ VENTED/FLARED	

PLUGGING AND ABANDONMENT

PRODUCING FM(S): \_\_\_\_\_

PLUGS:

TYPE/SIZE

INTERVAL

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

PERFORATIONS: \_\_\_\_\_

CASING SIZE: \_\_\_\_\_ PULLED: YES / NO CUT AT: \_\_\_\_\_

PLUGS TESTED: \_\_\_\_\_ HOW: \_\_\_\_\_ WOC: \_\_\_\_\_

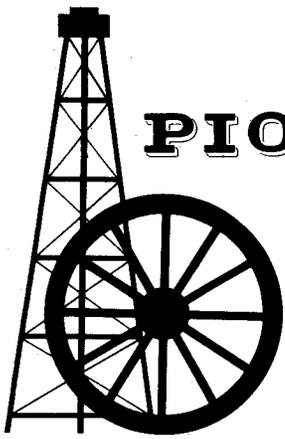
MARKER: \_\_\_\_\_ SURFACE: \_\_\_\_\_ PLATE: \_\_\_\_\_

RECLAMATION:

CONTOURED: \_\_\_\_\_ RIPPED: \_\_\_\_\_ REHAB'D: \_\_\_\_\_

LEGEND: (Y)-YES (P)-PROBLEM (U)-UNKNOWN (BLANK)-NOT APPLICABLE

REMARKS: TD 8/21/89 will be rigging down 8/23/89  
\*meaning - well will be waiting on completion



# PIONEER OIL & GAS

**RECEIVED**  
SEP 01 1989

DIVISION OF  
OIL, GAS & MINING

August 30, 1989

Ron Firth, Director  
Director - Oil & Gas  
Utah Division of Oil, Gas & Mining  
3 Triad Center, Suite 350  
SLC, UT 84180-1203

Re: Status Report  
Gothic Mesa Unit #16-13A

Dear Mr. Firth:

Please find enclosed the required copies of a Sundry Notice for a status report on the Gothic Mesa Unit #16-13A well located in Section 16-T41S-R23E, San Juan County, Utah.

Please be advised that the completion of the well will commence on Tuesday, September 5, 1989.

Should there be any questions, please don't hesitate to call.

Sincerely,

A handwritten signature in black ink, appearing to read "Jason G. Blake".

Jason G. Blake  
Field Operations Mgr.

JGB/tbp

Enc.

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

SUBMIT IN TRIPLICATE  
(Other instructions reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.  
14-20-604-243

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo

7. UNIT AGREEMENT NAME  
Gothic Mesa Unit

8. FARM OR LEASE NAME

9. WELL NO.  
#16-13A

10. FIELD AND POOL, OR WILDCAT  
Gothic Mesa

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 16-T41S-R23E SLM

12. COUNTY OR PARISH  
San Juan

13. STATE  
Utah

**RECEIVED**  
SEP 01 1989

DIVISION OF  
OIL, GAS & MINING

OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Pioneer Oil & Gas

3. ADDRESS OF OPERATOR  
6925 Union Park Center, Suite 145, Midvale, UT 84047

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface  
1940' FSL & 850' FWL (NW SW)

14. PERMIT NO.  
API 43-037-31454

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
4607 Gr., 4619 KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input checked="" type="checkbox"/> Well Status Report	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

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

17. 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.)\*

The Gothic Mesa Unit #16-13A reached TD of 5654' in the Akah fm. on 8-22-89. 5½", 15.5# production casing was run to 5653' and cemented with 1175 sacks of cement in a two stage job with the DV tool set at 3500'. Completion of this well is expected to commence on 9-5-89 and will consist of a single completion in the Upper Ismay from 5532'-5540'.

A Well Completion Report form 3160-4 will be executed and forwarded following the completion of the well.

OIL AND GAS	
DRN	RJF
JRB	GLH
DTS	SLS
I-TAS	
MICROFILM	
0 - FILE	

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

SIGNED Jason G. Blake  
Jason G. Blake

TITLE Field Operations Manager

DATE 8-30-89

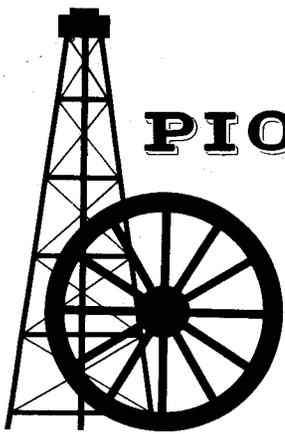
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side



# PIONEER OIL & GAS

RECEIVED  
SEP 18 1989

DIVISION OF  
OIL, GAS & MINING

September 15, 1989

Ron Firth, Director  
Utah Division of Oil, Gas & Mining  
3 Triad Center  
Suite 350  
SLC, UT 84180-1203

Re: Completion Report  
Gothic Mesa Unit #16-13A

Dear Mr. Firth:

Please find enclosed the requested copies of the completion report on the Gothic Mesa Unit #16-13A well recently drilled in Sec. 16-T41S-R23E, San Juan County, Utah.

As shown on the report, the required log copies should already have been forwarded to your office directly from Halliburton Logging Service.

Should you be lacking any information in your files or have any questions, please don't hesitate to call.

Sincerely,

A handwritten signature in black ink, appearing to read "Jason G. Blake".

Jason G. Blake  
Field Operations Mgr.

JGB/tbp

Enc.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

12

WELL COMPLETION OR RECOMPLETION REPORT

**RECEIVED**  
SEP 18 1989

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other \_\_\_\_\_

2. NAME OF OPERATOR: Pioneer Oil & Gas

3. ADDRESS OF OPERATOR: 6925 Union Park Center, Suite 145, Midvale, UT 84047

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements):  
At surface 1940' FSL & 850' FWL (NW SW)  
At top prod. interval reported below  
At total depth same as above

5. LEASE DESIGNATION AND SERIAL NO. 14-20-604-243

6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo

UNIT AGREEMENT NAME Gothic Mesa Unit

7. FARM OR LEASE NAME

9. WELL NO. #16-13A

10. FIELD AND POOL, OR WILDCAT Gothic Mesa

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec.16-T41S-R23E SLM

12. COUNTY OR PARISH San Juan

13. STATE Utah

14. PERMIT NO. API 43-037-31454

DATE ISSUED

15. DATE SPUDDED 8-9-89

16. DATE T.D. REACHED 8-21-89

17. DATE COMPL. (Ready to prod.) 9-9-89

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 4607 Gr., 4619 KB

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 5648'

21. PLUG, BACK T.D., MD & TVD 5584'

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY ROTARY TOOLS 0-5648'

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* Upper Ismay 5323'-5331'

25. WAS DIRECTIONAL SURVEY MADE NO

26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Induction, Comp. Neutron-Density *mud*

27. WAS WELL CORED NO

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	1400'	12 1/4"	410 sx "D" & 15 sack top job	none
5 1/2"	15.5#	5647'	7 7/8"	2 stage job: 1st stage- 325 sx "G", second stage- from 3500' to surf. w 850 sx "lite"	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					23/8"	5320'	5304'

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number) 5323'-5331' with 2 shots/foot

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5323'-5331'	1000 gal. 15% HCL with H-911, A-250 & W-54 additives

33.\* PRODUCTION

DATE FIRST PRODUCTION 9-12-89

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing

WELL STATUS (Producing or shut-in) Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9-14/15-89	24	24/64"	→	9.7	60	trace	

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
30#		→				38.6

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) sold

TEST WITNESSED BY Ray Maxheimer

35. LIST OF ATTACHMENTS logs already sent under separate cover

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

SIGNED Jason G. Blake TITLE Field Operations Manager DATE 9-15-89

\*(See Instructions and Spaces for Additional Data on Reverse Side)

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.
DeChelly	2378'	2508'	Sandstone- salt water flow- cemented off behind production casing during 2nd stage cement job
Upper Ismay porosity	5323'	5331'	Oolitic Limestone- interoolitic and oocastic porosity with saturated live oil stain, free oil, good gas show DST #1 Upper Ismay 5328-5343' Misrun-no recoveries
			DST #2 Upper Ismay 5318-5348' Packer Failure- recovered 1100' O&GCM- no pressures recorded
Desert Creek	5560'	5595'	Limestone & Dolomite- up to 10% brown-black stain, no free oil, good gas show- Not Tested

OIL AND GAS	
DRN	RJF
JRB	GLH
DTS	SLS
1-TAS	
2- MICROFILM	✓
3- FILE	✓

38. GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TOP	
		TRUE VERT. DEPTH	TRUE VERT. DEPTH
Chinle Shl.	est 1325	(3293)	
Moenkopi Fm.	2175	(2443)	
DeChelly SS	2378	(2240)	
Organ Rock Shl.	2507	(2111)	
Cutler Evap.	3281	(1337)	
Honaker Trail Fm.	4437	( 182)	
Ismay Mbr.	5271	(-652)	
Desert Creek Mbr.	5485	(-866)	
Akah Mbr.	5614	(-995)	

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

SUBMIT IN TRIPLICATE  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		3. LEASE DESIGNATION AND SERIAL NO. 14-20-603-243	
2. NAME OF OPERATOR Pioneer Oil and Gas		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo	
3. ADDRESS OF OPERATOR 6925 Union Park Center, Suite 145, Midvale, UT 84047		7. UNIT AGREEMENT NAME Gothic Mesa	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  See attached Exhibit "A"		8. FARM OR LEASE NAME	
14. PERMIT NO.		9. WELL NO. See attached Exhibit "A"	
15. ELEVATIONS (Show whether DF, ST, CR, etc.)		10. FIELD AND POOL, OR WILDCAT Gothic Mesa	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA T41S-R23E	
		12. COUNTY OR PARISH San Juan	13. STATE Utah

AUG 15 1990

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	(Other) _____
(Other) _____	Change of Operator <input checked="" type="checkbox"/>	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. 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.)\*

Pioneer Oil and Gas has assigned all its ownership in the subject leases effective August 1, 1990. Pioneer Oil and Gas shall no longer be the Operator of the subject properties.

Giant Exploration & Producing Company shall therefore be the Operator effective August 1, 1990.

Former Operator:  
Pioneer Oil and Gas

New Operator:  
Giant Exploration & Production Company  
P.O. Box 2810  
Farmington, NM 87499

Signed: Gregg B. Colton  
Gregg B. Colton, Vice President  
Date: July 30, 1990

Signed: Aldrich L. Kuchera  
Title: Aldrich L. Kuchera, President and CEO  
Date: August 13, 1990

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

SIGNED R. Heggie Wilson TITLE Land Manager DATE 7-31-90  
R. Heggie Wilson

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

**EXHIBIT "A"**  
**Gothic Mesa Unit Area**  
**Unit Number 94-004216**  
**San Juan County, Utah**

<u>Well Name</u>	<u>Legal Description</u>	<u>Well Type</u>	<u>Status</u>	<u>API Number</u>	<u>Tribal Lease #</u>
6-23	NESW 6-41S-23E	P	SI	43-037-15039-	14-20-603-239
6-34	SWSE 6-41S-23E	P	OP	43-037-15034-	14-20-603-239A
7-21	NENW 7-41S-23E	P	OP	43-037-15036-	14-20-603-239A
7-41	NENE 7-41S-23E	P	OP	43-037-15032-	14-20-603-239A
8-12	SWNW 8-41S-23E	P	OP	43-037-15035-	14-20-603-239
8-33	NWSE 8-41S-23E	P	SI	43-037-15037-	14-20-603-239
8-42	SENE 8-41S-23E	P	TA	43-037-15033-	14-20-603-239-
9-13	NWSW 9-41S-23E	P	TA	43-037-15041-	14-20-603-242
9-24	SESW 9-41S-23E	INJ	SI	43-037-16452-	14-20-603-242-
WSW 1	SENW 9-41S-23E	WSW	SI		14-20-603-242
16-11	NENW 16-41S-23E	P	SI	43-037-15042-	14-20-603-243
16-13A	NWSW 16-41S-23E	P	OP	43-037-31452 <sup>4</sup> -	14-20-603-243
16-22	SENW 16-41S-23E	P	TA	43-037-15043-	14-20-603-243-
16-33	NWSE 16-41S-23E	P	G	43-037-15044-	14-20-603-243
16-44	SESE 16-41S-23E	P	SI	43-037-16453-	14-20-603-243
17-31	NWNE 17-41S-23E	P	SI	43-037-15040-	14-20-603-240

*\* Changes made 9-26-90*

Routing:

1- LCR	<input checked="" type="checkbox"/>
2- DTS/DTS	<input checked="" type="checkbox"/>
3- VLC	<input checked="" type="checkbox"/>
4- RJF	<input checked="" type="checkbox"/>
5- RWM	<input checked="" type="checkbox"/>
7- LCR	<input checked="" type="checkbox"/>

Attach all documentation received by the division regarding this change.  
 Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold)       Designation of Agent  
 Designation of Operator             Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 8-1-90 )

TO (new operator) <u>GIANT EXPLOR. &amp; PROD. CO.</u>	FROM (former operator) <u>PIONEER OIL AND GAS</u>
(address) <u>P. O. BOX 2810</u>	(address) <u>6925 UNION PARK CTR. #145</u>
<u>FARMINGTON, NM 87499</u>	<u>MIDVALE, UT 84047</u>
phone <u>(505 ) 326-3325</u>	phone <u>(801 ) 566-3000</u>
account no. <u>N 0075</u>	account no. <u>N 3025</u>

Well(s) (attach additional page if needed):

Name: <u>SENTINEL PEAK 22-34 (TSMY)</u>	API: <u>4303730748</u>	Entity: <u>00546</u>	Sec <u>22</u> Twp <u>41S</u> Rng <u>26E</u>	Lease Type: <u>INDIAN</u>
Name: <u>MCCELMO CR Q-29 (DSCR)</u>	API: <u>4303715524</u>	Entity: <u>05995</u>	Sec <u>29</u> Twp <u>41S</u> Rng <u>25E</u>	Lease Type: <u>INDIAN</u>
Name: <u>NAVAJO TR 125 #1 (DSCR)</u>	API: <u>4303715541</u>	Entity: <u>05990</u>	Sec <u>21</u> Twp <u>41S</u> Rng <u>25E</u>	Lease Type: <u>INDIAN</u>
Name: <u>NAVAJO TRE 125 #2 (DSCR)</u>	API: <u>4303715542</u>	Entity: <u>05990</u>	Sec <u>28</u> Twp <u>41S</u> Rng <u>25E</u>	Lease Type: <u>INDIAN</u>
Name: <u>NAVAJO TR 125 #4 (DSCR)</u>	API: <u>4303715543</u>	Entity: <u>05990</u>	Sec <u>28</u> Twp <u>41S</u> Rng <u>25E</u>	Lease Type: <u>INDIAN</u>
Name: <u>SENTINEL PEAK #27-14 (TSMY)</u>	API: <u>4303720292</u>	Entity: <u>99991</u>	Sec <u>27</u> Twp <u>41S</u> Rng <u>26E</u>	Lease Type: <u>INDIAN</u>
Name: <u>SENTINEL PEAK 27-21 (TSMY)</u>	API: <u>4303730747</u>	Entity: <u>06020</u>	Sec <u>27</u> Twp <u>41S</u> Rng <u>26E</u>	Lease Type: <u>INDIAN</u>

CONTINUED-----

**OPERATOR CHANGE DOCUMENTATION**

- 1 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form).
- 2 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no)      If yes, show company file number:     .
- 3 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- 3 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above.
- 3 6. Cardex file has been updated for each well listed above.
- 3 7. Well file labels have been updated for each well listed above.
- 3 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission.
- 3 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) NO (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- 2. A copy of this form has been placed in the new and former operators' bond files.
- 3. The former operator has requested a release of liability from their bond (yes/no) \_\_\_\_\_. Today's date \_\_\_\_\_ 19\_\_\_\_. If yes, division response was made by letter dated \_\_\_\_\_ 19\_\_\_\_.

EASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated \_\_\_\_\_ 19\_\_\_\_, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- 2. Copies of documents have been sent to State Lands for changes involving State leases.

MICROFILMING

- 1. All attachments to this form have been microfilmed. Date: October 9 1990.

FILED

- 1. Copies of all attachments to this form have been filed in each well file.
- 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

8-20-90 Earl Beecher / Bfm Farmington Nm - No documentation as of yet.

8-29-90 Earl Beecher - Informed me that these wells are under the jurisdiction of EPA.

(2 wells - 43-037-30511 (wiw) and 43-037-31144 (wdw) are still listed under MEPNA)

900926 Per DTS re: MEPNA telephone verification (see phone doc.) ok to change (2) wells listed above!





Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

Routing:

1-
2-
3-
4-
5-
6-

Attach all documentation received by the division regarding this change.  
 Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold)       Designation of Agent  
 Designation of Operator       Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 8-1-90)

TO (new operator)	<u>GIANT EXPLOR. &amp; PROD. CO.</u>	FROM (former operator)	<u>PIONEER OIL AND GAS</u>
(address)	_____	(address)	_____
	_____		_____
	_____		_____
	phone ( ) _____		phone ( ) _____
	account no. <u>N 0075</u>		account no. <u>N3025</u>

Well(s) (attach additional page if needed):

CONTINUED

Name: <u>GOTHIC MESA 16-33 (DSCP) <sup>LSM</sup></u>	API: <u>4303715044</u>	Entity: <u>06008</u>	Sec <u>16</u> Twp <u>41S</u> Rng <u>23E</u>	Lease Type: <u>INDIAN</u>
Name: <u>GOTHIC MESA 16-44 (DSCP)</u>	API: <u>4303716453</u>	Entity: <u>06008</u>	Sec <u>16</u> Twp <u>41S</u> Rng <u>23E</u>	Lease Type: <u>INDIAN</u>
Name: <u>GOTHIC MESA 17-31 (DSCP)</u>	API: <u>4303715040</u>	Entity: <u>06008</u>	Sec <u>17</u> Twp <u>41S</u> Rng <u>23E</u>	Lease Type: <u>INDIAN</u>
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: <u>**SENTINEL PK #27-23</u>	API: <u>4303731144</u>	Entity: <u>99990</u>	Sec <u>27</u> Twp <u>41S</u> Rng <u>26E</u>	Lease Type: <u>INDIAN</u>
Name: <u>**MCELMO CR 28-23</u>	API: <u>4303730511</u>	Entity: <u>05980</u>	Sec <u>28</u> Twp <u>41S</u> Rng <u>25E</u>	Lease Type: <u>INDIAN</u>
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

- \_\_\_ 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form).
- \_\_\_ 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- \_\_\_ 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) \_\_\_ If yes, show company file number: \_\_\_\_\_.
- \_\_\_ 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- \_\_\_ 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above.
- \_\_\_ 6. Cardex file has been updated for each well listed above.
- \_\_\_ 7. Well file labels have been updated for each well listed above.
- \_\_\_ 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission.
- \_\_\_ 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:

14-20-603-243

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.

Use APPLICATION FOR PERMIT TO DRILL OR DEEPEEN form for such proposals.

6. If Indian, Allottee or Tribe Name:

Navajo

7. Unit Agreement Name:

Gothic Mesa

1. Type of Well:

OIL  GAS  OTHER:

8. Well Name and Number:

Gothic Mesa 16-13A

2. Name of Operator:

Central Resources, Inc.

9. API Well Number:

43-037-31454

3. Address and Telephone Number:

1775 Sherman Street, Suite 2600 Denver, CO 80203 303-830-0100

10. Field and Pool, or Wildcat:

Ismay

4. Location of Well:

Footages: 1940' FSL & 850' FWL

County: San Juan

QQ, Sec., T.,R.,M.: NW SW Sec. 16-T41S-R23E

State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

**NOTICE OF INTENT**

(Submit in Duplicate)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Multiple Completion
- Other \_\_\_\_\_
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate date work will start \_\_\_\_\_

**SUBSEQUENT REPORT**

(Submit Original Form Only)

- Abandonment \*
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other Change of Operator
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

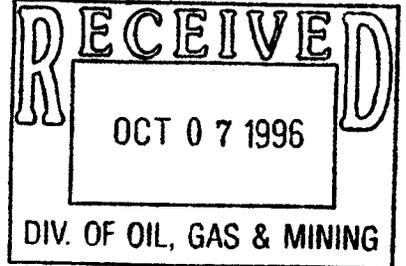
Date of work completion \_\_\_\_\_

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Effective 9/1/96 operations of the subject well were transferred from Giant Exploration & Production Company to Central Resources, Inc.



Giant Exploration & Production Company

Name & Signature *Daniel D. Prumilla*

Title: Production/Regulatory Manager Date: August 30, 1996

13. Central Resources, Inc.

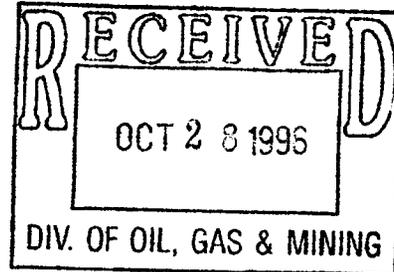
Name & Signature *Gene Martens*

Title: Engineering Technician Date: August 30, 1996

# CENTRAL

RESOURCES, INC.

October 23, 1996



Ms. Lesha Cordova  
State of Utah  
Division of Oil, Gas & Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Re: Monthly Oil & Gas Production Report

Dear Ms. Cordova:

Central Resources, Inc. purchased all assets from Giant Exploration & Production Company effective September 1, 1996.

Central is in the process of acquiring a Utah Account Number. However, to avoid mailing the enclosed Monthly Oil and Gas Production Report late, the account number on the report has been left blank.

If you have any questions regarding this matter, please contact Edna Wageman or myself at (505) 326-3325.

Sincerely,

*Diane G. Jaramillo by EW*

Diane G. Jaramillo  
Office Supervisor

DGJ/

*\* 9/6/98 notified Oper. NL935 "Central Res. Inc."  
(Clg. not finalized yet!)*

Enclosure

**STATE OF UTAH**  
**DIVISION OF OIL, GAS AND MINING**  
 1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

DIANE G JARAMILLO  
 GIANT EXPLOR & PROD CO  
 PO BOX 2810  
 FARMINGTON NM 87499

UTAH ACCOUNT NUMBER: N0075

REPORT PERIOD (MONTH/YEAR): 11 / 97

AMENDED REPORT  (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
NAVAJO TRE 125 #2								
4303715542	05990	41S 25E 28	DSCR			1420603700		
NAVAJO TR 125 #4						"		
4303715543	05990	41S 25E 28	DSCR					
MCELMO CR Q-29						"		
4303715524	05995	41S 25E 29	DSCR					
GOTHIC MESA 7-41						1420603239	Gothic mesa Unit	
4303715032	06008	41S 23E 7	DSCR					
GOTHIC MESA 6-34						1420602243	"	
4303715034	06008	41S 23E 6	DSCR					
GOTHIC MESA 8-12						1420603239	"	
4303715035	06008	41S 23E 8	IS-DC					
GOTHIC MESA 7-21						1420603239A	"	
4303715036	06008	41S 23E 7	DSCR					
GOTHIC MESA 8-33						1420603239	"	
4303715037	06008	41S 23E 8	DSCR					
GOTHIC MESA 6-23						"	"	
4303715039	06008	41S 23E 6	DSCR					
GOTHIC MESA 17-31						1420603240	"	
4303715040	06008	41S 23E 17	DSCR					
GOTHIC MESA UNIT 16-13A						1420604243	"	
4303731454	06008	41S 23E 16	ISMY					
GOTHIC MESA UNIT #6-43						1420603239	"	
4303731643	06008	41S 23E 6	DSCR					
Gothic mesa 16-11						"	"	
4303715042		41S 23E 16	DSCR	/w/w		1420602243		
<b>TOTALS</b>								

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

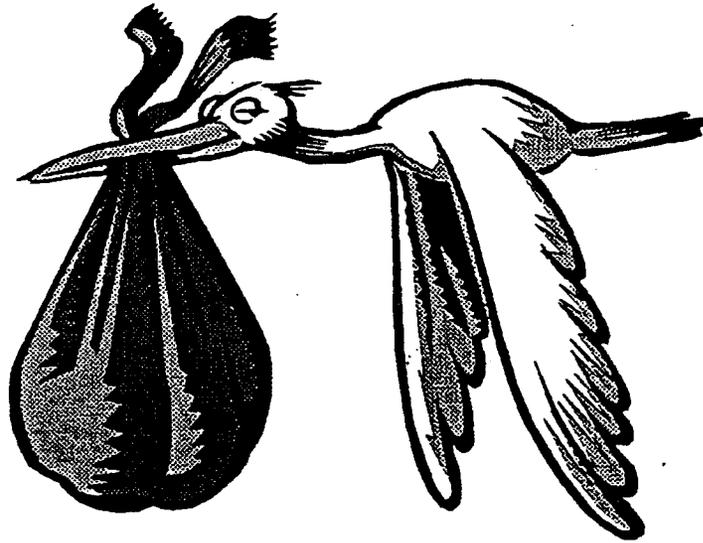
I hereby certify that this report is true and complete to the best of my knowledge.

Date: \_\_\_\_\_

Name and Signature: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

**BUREAU OF LAND MANAGEMENT  
FARMINGTON DISTRICT OFFICE**



*It's a FAX!*

**1235 La Plata Hwy., Suite A  
Farmington, NM 87401  
Fax: 505-599-8998**

<b>TO:</b> Lisha	
<b>FROM:</b> Duane Spencer, Farmington BLM office	
<b>DATE:</b> 12-23-97	<b>No. Pages (Incl. Cover):</b> 7
<b>Comment:</b>	



# United States Department of the Interior

BUREAU OF INDIAN AFFAIRS  
NAVAJO AREA OFFICE

P. O. Box 1060  
Gallup, New Mexico 87305-1060

IN REPLY  
REFER TO:

ARES/543

**CERTIFIED MAIL - RETURN RECEIPT REQUESTED**

Ms. Carrie E. Schwarz  
Central Resources, Inc.  
2600 Mellon Center  
1775 Sherman Street  
Denver, CO. 80203-4313

Dear Ms. Schwartz:

Enclosed for your information and file is the original copy of the approved Designation of Successor Unit Operator for the Gothic Mesa Unit Agreement No. SWI-4216.

We are providing your company with the "Operator" copy and request that you furnish the other parties to the agreement with a copy of the approved document.

By a copy of this letter, we are providing copies of the approved agreement to the Bureau of Land Management, Farmington District Office and the Navajo Nation, Minerals Department.

If you have any questions, please contact Ms. Bertha Spencer, Realty Specialist, at telephone number (520) 871-5938.

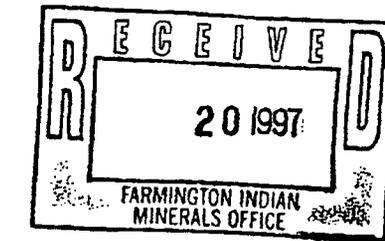
Sincerely,

**/s/ DALE UNDERWOOD**

**ACTING Area Realty Officer**

Enclosures

cc: BLM, Farmington District Office ✓  
Navajo Tribal Minerals Department  
Giant Exploration & Producing Company, 2200 Bloomfield Hwy., Farmington, NM 87499



AGRI	RESOURCES
BLM	
OFFICE	
NOV 17 1997	250
LAND RESOURCES	
ENVIRONMENT	
FILES	

RECEIVED  
BLM  
97 NOV 20 PM 1:44  
070 FARMINGTON, NM  
NOV 17 1997

RECEIVED  
RESIGNATION OF UNIT OPERATOR  
97 NOV 20 PM  
070 FARMINGTON, UTAH  
GOthic MESA UNIT AREA  
COUNTY OF SAN JUAN

RECEIVED  
BLM  
96 OCT 24 PM 2:15

RECEIVED  
DEC - 6 1995  
NAVAJO AREA OFFICE  
REAL ESTATE SECTION

STATE OF UTAH

UNIT AGREEMENT NO. SWI-4216

Under and pursuant to the provisions of Section 5 of the Unit Agreement for the Development and Operation of the Gothic Mesa Unit Area, San Juan County, Utah,

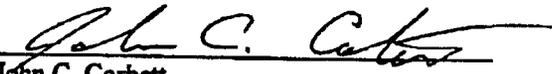
Giant Exploration & Production Company the designated Unit Operator under said Unit Agreement, does hereby resign as Unit Operator, effective upon the selection and approval of a successor Unit Operator.

EXECUTED with effect as aforesaid the 30th day of August, 1996.

ATTEST:

  
\_\_\_\_\_  
Steven K. Smith  
Assistant Secretary

Giant Exploration & Production Company

  
\_\_\_\_\_  
John C. Corbett  
Sr. Vice President

DESIGNATION OF  
SUCCESSOR UNIT OPERATOR

GOthic MESA UNIT AREA

COUNTY OF SAN JUAN

STATE OF UTAH

UNIT AGREEMENT NO. SWI-4216

THIS INDENTURE, dated as of the 30th day of August, 1996, by and between Central Resources, Inc., hereinafter designated as "First Party," and the owner of unitized working interests, hereinafter designated as "Second Parties,"

RECEIVED

DEC 6 1996

NAVAJO AREA OFFICE  
BRANCH OF REAL ESTATE SERVICES

## WITNESSETH:

WHEREAS, under the provisions of the Act of February 25, 1920, 41 Stat. 437, 30 U.S.C. Secs. 181, et seq., as amended by the Act of August 8, 1946, 60 Stat. 950, the Secretary of the Interior, on the 20th day of May, 1965, approved a Unit Agreement for the Gothic Mesa Unit Area, wherein Aztec Oil & Gas Company is designated as Unit Operator, and

WHEREAS said, Giant Exploration & Production Company has resigned as such Operator and the designation of a successor Unit Operator is now required pursuant to the terms thereon; and

WHEREAS the First Party has been and hereby is designated by Second Parties as Unit Operator, and said First Party desires to assume all the rights, duties and obligations of Unit Operator under the said Unit Agreement:

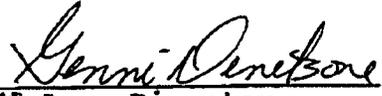
NOW, THEREFORE, in consideration of the premises hereinbefore set forth and the promises hereinafter stated, the First party hereby covenants and agrees to fulfill the duties and assume the obligation of Unit Operator under and pursuant to all the terms of the Gothic Mesa Unit Agreement, and the Second Parties covenant and agree that, effective upon approval of this indenture by the Chief, Branch of Fluid Minerals, Bureau of Land Management, First Party shall be granted the exclusive right and privilege of exercising any and all rights and privileges as Unit Operator, pursuant to the terms and conditions of said Unit Agreement; said Unit Agreement being hereby incorporated herein by reference and made a part hereof as fully and effectively as though said Unit Agreement were expressly set forth in this instrument.

IN WITNESS WHEREOF, the parties hereto have executed this instrument as of the date hereinabove set forth.

FIRST PARTY  
Central Resources, Inc.

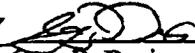
BY   
Gary D. Davis  
Vice President, Business Development

APPROVED, PURSUANT TO SECRETARY'S REDELEGATION ORDER 209 DM, 8, SECRETARY'S ORDER NOS. 3150 AND 3177, AND 10 BLM BULLETIN 13, AS AMENDED.

  
ACTING Area Director

Date: NOV 17 1997

SECOND PARTIES  
Central Resources, Inc.

BY   
Gary D. Davis  
Vice President, Business Development

Execution Date: August 30, 1996

CORPORATE ACKNOWLEDGMENT

COLORADO  
STATE OF ~~New Mexico~~)  
DENVER ) SS.  
COUNTY OF ~~San Juan~~ )

The foregoing instrument was acknowledged before me this 30<sup>th</sup> day of August, 1996, by Maury D. Davis, and by Maury D. Davis

WITNESS my hand and official seal.

My Commission Expires:

6-15-98

Carrie E. Schwarz  
Notary Public

Place of Residence:

Denver, CO



CORPORATE ACKNOWLEDGMENT

STATE OF New Mexico )  
 ) SS.  
COUNTY OF San Juan )

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 1996, by \_\_\_\_\_, and by \_\_\_\_\_.

WITNESS my hand and official seal.

My Commission Expires:

\_\_\_\_\_

\_\_\_\_\_  
Notary Public

Place of Residence:

\_\_\_\_\_



## United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Farmington District Office  
1235 La Plata Highway  
Farmington, New Mexico 87401

IN REPLY REFER TO:

Gothic Mesa Unit (UA)  
3180 (07400)

November 7, 1996

## Memorandum

To: Area Director, Bureau of Indian Affairs, Gallup NM  
From: Team Leader, Petroleum Management Team  
Subject: Designation of Successor Operator for the Gothic Mesa Unit

Submitted for your approval is a Self Certification for Resignation of Unit Operator and Designation of Successor Operator for the Gothic Mesa Unit, which only includes Indian leases. Upon approval, please return one copy to this office for our records and for posting to all record keeping systems.

If you have any questions, please call Geneva McDougall at (505) 599-6355.

/s/ Duane Spencer  
Duane W. Spencer

cc:  
UA file- Gothic Mesa Unit  
DOM Reader  
07327:GMcDougall:gm:11/7/96

15 wells producing } Gothic Mesa  
3 wells shut in }  
recommend increase in bonding since  
Central Resources already has a significant  
number of wells in the Stoneham-Shiprock unit

# CENTRAL

---

## RESOURCES, INC.

RECEIVED  
BLM

55 NOV -1 PM 1:31

070 FARMINGTON, NM

October 29, 1996

Bureau of Land Management  
Farmington District Office  
1235 La Plata Highway  
Farmington, New Mexico 87401

Re: Self Certification for Resignation of Unit Operator and  
Designation of Successor Operator for the Gothic Mesa  
Unit Agreement in San Juan County, New Mexico

Gentlemen:

Giant Exploration & Production Company has resigned as operator of the Gothic Mesa Unit located in the following legal description and designates Central Resources, Inc. as Successor Operator:

T41S, R23E, SLM,  
Sections: 6, 5, 7, 8, 9, 10, 15, 16, 17, 18

Central Resources, Inc., as the designated successor operator under the Gothic Mesa Unit Agreement, hereby certifies that the requisite approvals of the current working interest owners in the agreement have been obtained to satisfy the requirements for the selection of a successor operator as set forth under the terms and provision of the agreement. All operations within the Gothic Mesa Unit will be covered under Central's nationwide BIA Bond No. BO5377

Sincerely

  
GARY D. DAVIS  
Vice President, Business Development

GDD/im

**OPERATOR CHANGE WORKSHEET**

Routing	
1-LEC ✓	6-IFC ✓
2-GLH ✓	7-KAS ✓
3-DPS ✓	8-SI ✓
4-VLD ✓	9-FILE ✓
5-JRB ✓	

Attach all documentation received by the division regarding this change.  
Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold)
- Designation of Operator
- Designation of Agent
- Operator Name Change Only

The operator of the well(s) listed below has changed, effective: 9-1-96

<p><b>TO:</b> (new operator) <u>CENTRAL RESOURCES INC</u></p> <p>(address) <u>1775 SHERMAN ST STE 2600</u></p> <p><u>DENVER CO 80203-4313</u></p> <p><u>IRENE MARTINEZ</u></p> <p>Phone: <u>(303)830-0100</u></p> <p>Account no. <u>N6935</u></p>	<p><b>FROM:</b> (old operator)</p> <p>(address)</p>	<p><u>GIANT EXPLOR &amp; PROD CO</u></p> <p><u>PO BOX 2810</u></p> <p><u>FARMINGTON NM 87499</u></p> <p><u>DIANE JARAMILLO</u></p> <p>Phone: <u>(505)326-3325</u></p> <p>Account no. <u>N0075</u></p>
---	---	---

**WELL(S)** attach additional page if needed: **\*GOTHIC MESA UNIT**

Name: <b>**SEE ATTACHED**</b>	API: <u>43-037-31454</u>	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

**OPERATOR CHANGE DOCUMENTATION**

- 1 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form). *(rec'd 10-7-96)*
- 2 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). *(rec'd 10-7-96)*
- 3 3. The **Department of Commerce** has been contacted if the new operator above is not currently operating any wells in Utah. Is the company **registered with the state?** (yes/no) \_\_\_\_\_ If yes, show company file number: \_\_\_\_\_
- 4 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of **Federal** and **Indian** well operator changes should ordinarily take place prior to the division's approval, and before the completion of **steps 5 through 9** below.
- 5 5. Changes have been entered in the **Oil and Gas Information System (3270)** for each well listed above. *(12-23-97) \* UIC DBASE E. Quattro Pro.*
- 6 6. **Cardex** file has been updated for each well listed above. *(12-23-97)*
- 7 7. **Well file labels** have been updated for each well listed above. *(12-23-97)*
- 8 8. Changes have been included on the monthly "Operator, Address, and Account Changes" **memo** for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc.
- 9 9. A folder has been set up for the **Operator Change file**, and a copy of this page has been placed there for reference during routing and processing of the original documents.

**ENTITY REVIEW**

- Yes 1. (r649-8-7) **Entity assignments have been reviewed** for all wells listed above. Were entity changes made? (yes/no) no If entity assignments were changed, attach copies of Form 6, Entity Action Form.
- N/A 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been **notified** through normal procedures of entity changes.

**BOND VERIFICATION - (FEE WELLS ONLY)**

- N/A 1. (r649-3-1) The **NEW** operator of any fee lease well listed above has furnished a proper bond.
- Yes 2. A **copy of this form** has been placed in the new and former operator's bond files.
- 3. The **FORMER** operator has requested a release of liability from their bond (yes/no)    , as of today's date    . If yes, division response was made to this request by letter dated    .

**LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY**

- N/A 1. Copies of documents have been sent on     to     at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
- N/A 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated 25 1/2/98 19    , of their responsibility to notify all interest owners of this change.

**FILMING**

- Yes 1. All attachments to this form have been **microfilmed**. Today's date: 1.20.98.

**FILING**

- 1. **Copies** of all attachments to this form have been filed in each **well file**.
- 2. The **original of this form**, and the **original attachments** are now being filed in the Operator Change file.

**COMMENTS**

971223 BIA/Farmington Nm Aprv. 11-17-97

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>	5. Lease Designation and Serial Number: 14-20-603-243
Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.	6. If Indian, Allottee or Tribe Name: Navajo
1. Type of Well: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER: _____	7. Unit Agreement Name: Gothic Mesa
2. Name of Operator: Elm Ridge Resources, Inc.	8. Well Name and Number: Gothic Mesa 16-13A
3. Address and Telephone Number: 312 W. LaPlata Street, Farmington, New Mexico (505) 326-7099	9. API Well Number: 43-037-31454
4. Location of Well: Footages: 1940' FSL & 850' FWL County: San Juan QQ, Sec., T.,R.,M.: NW SW Sec. 16-T41S-R23E State: Utah	10. Field and Pool, or Wildcat: Isamy

**11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandonment <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Recompletion <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Other _____  Approximate date work will start _____	<input type="checkbox"/> Abandonment * <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Water Shut-Off <input checked="" type="checkbox"/> Other <u>Change of Operator</u>  Date of work completion _____  <small>Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.</small>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Effective October 1, 2000, operations of the subject well were transferred from Central Resources, Inc. to Elm Ridge Resources, Inc.

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OCT 10 2000

DIVISION OF  
OIL, GAS AND MINING

Central Resources, Inc.  
Name & Signature *Steve Martin* Title: Engineering Technician Date: 09/29/00

13. Elm Ridge Resources, Inc.  
Name & Signature *Doug Eubley* Title: Operations Manager Date: 09/29/00

(This space for State use only)

**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. GLH
2. CDW
3. FILE

**X Change of Operator (Well Sold)**

Designation of Agent/Operator

Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective:							<b>10/01/2000</b>	
<b>FROM: (Old Operator):</b>				<b>TO: ( New Operator):</b>				
Central Resources, Inc.				Elm Ridge Resources, Inc.				
1775 Sherman St, Suite 2600				Address: 12225 Greenville Avenue, Suite 950				
Denver, CO 80203				Dallas, TX 75243				
Phone: 1-(303) 830-0100				Phone: 1-(972) 889-2100 x 103				
Account No. N6935				Account No. N1440				
<b>CA No.</b>			<b>N/A</b>		<b>Unit:</b>		<b>Gothic Mesa</b>	
<b>WELL(S)</b>								
<b>NAME</b>	<b>SEC</b>	<b>TWN</b>	<b>RNG</b>	<b>API NO</b>	<b>ENTITY NO</b>	<b>LEASE TYPE</b>	<b>WELL TYPE</b>	<b>WELL STATUS</b>
Gothic Mesa 6-34	6	41S	23E	43-037-15034	6008	INDIAN	OW	P
Gothic Mesa 6-43	6	41S	23E	43-037-31643	6008	INDIAN	OW	P
Gothic Mesa 7-41	7	41S	23E	43-037-15032	6008	INDIAN	OW	P
Gothic Mesa 7-21	7	41S	23E	43-037-15036	6008	INDIAN	OW	S
Gothic Mesa 8-12	8	41S	23E	43-037-15035	6008	INDIAN	OW	PA
Gothic Mesa 8-33	8	41S	23E	43-037-15037	6008	INDIAN	OW	S
Gothic Mesa 6-23	16	41S	23E	43-037-15039	6008	INDIAN	OW	S
Gothic Mesa 16-11	16	41S	23E	43-037-15042	6008	INDIAN	WD	A
Gothic Mesa 16-13A	16	41S	23E	43-037-31454	6008	INDIAN	OW	S
Gothic Mesa 17-31	17	41S	23E	43-037-15040	6008	INDIAN	OW	S
Navajo 125-2	28	41S	25E	43-037-15542	5990	INDIAN	OW	S
Navajo 125-4	28	41S	25E	43-037-15543	5990	INDIAN	OW	PA
SE McElmo Creek Q29	29	41S	25E	43-037-15524	5995	INDIAN	OW	S

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 10/10/2000
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 10/10/2000
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database** on 05/23/2003
4. Is the new operator registered in the State of Utah: YES Business Number: 4836017-0143
5. If **NO**, the operator was contacted on: \_\_\_\_\_
6. (R649-9-2)Waste Management Plan has been received on: IN PLACE

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian le BLM (no approval) \_\_\_\_\_ BIA(no approval) \_\_\_\_\_

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: \_\_\_\_\_ NO \_\_\_\_\_

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: \_\_\_\_\_ NO \_\_\_\_\_

10. **Underground Injection Contr:** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: \_\_\_\_\_ 05/28/2003 \_\_\_\_\_

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: \_\_\_\_\_ 06/12/2003 \_\_\_\_\_

2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: \_\_\_\_\_ 06/12/2003 \_\_\_\_\_

3. Bond information entered in RBDMS on N/A

4. Fee wells attached to bond in RBDMS on N/A

**STATE WELL(S) BOND VERIFICATION:**

1. State well(s) covered by Bond Number: \_\_\_\_\_ N/A \_\_\_\_\_

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: \_\_\_\_\_ N/A \_\_\_\_\_

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: \_\_\_\_\_ 886936C \_\_\_\_\_

**FEE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number \_\_\_\_\_ N/A \_\_\_\_\_

2. The **FORMER** operator has requested a release of liability from their bond on: \_\_\_\_\_ N/A \_\_\_\_\_  
The Division sent response by letter on: \_\_\_\_\_ N/A \_\_\_\_\_

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: \_\_\_\_\_ N/A \_\_\_\_\_

**COMMENTS:**

Gothic Mesa 16-11 has ownership dispute; no approval from BIA nor BLM for operator change

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
SUNDRY NOTICES AND REPORTS ON WELLS

FORM APPROVED  
OMB No. 1004-0135  
Expires July 31, 1996

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.  
14-20-603-243

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

**SUBMIT IN TRIPLICATE – Other instructions on reverse side**

1. Type of Well  
 Oil Well     Gas Well     Other

8. Well Name and No.  
Gothic Mesa 16 #13 A

2. Name of Operator  
Central Resources, Inc. C/O Elm Ridge Resources, Inc.

9. API Well No.  
43-037-31454

3a. Address  
PO Box 189 Farmington, NM 87499

3b. Phone No. (include area code)  
505-632-3476

10. Field and Pool, or Exploratory Area  
Ismay/Dessert Creek

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1940' FSL & 850' FWL  
Sec. 16-T41S-R23E

11. County or Parish, State  
San Juan, Utah

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize <input type="checkbox"/> Deepen <input type="checkbox"/> Production (Start/Resume) <input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Reclamation <input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair <input type="checkbox"/> New Construction <input type="checkbox"/> Recomplete <input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans <input checked="" type="checkbox"/> Plug and Abandon <input type="checkbox"/> Temporarily Abandon                      _____
	<input type="checkbox"/> Convert to Injection <input type="checkbox"/> Plug Back <input type="checkbox"/> Water Disposal                      _____

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomplate in a new interval, a Form 3160-4 shall be filed once Testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Elm Ridge Resources, Inc. plugged and abandoned the Gothic Mesa 16 #13A on August 20, 2002 as follows: SEE ATTACHED SHEET FOR DETAILS

RECEIVED  
AUG 01 2005

DIV. OF OIL, GAS & MINING

Certified Return Receipt # 7001 0320 0002 6707 0081

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

Name (Printed/Typed) Trudy Grubelnik	Title Production Technician
Signature 	Date September 2, 2002

THIS SPACE FOR FEDERAL OR STATE USE

Approved by	Title	Date
-------------	-------	------

Conditions of approval, if any, are attached. Approval of this notice 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.

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.

**Elm Ridge Resources Inc.  
Plug and Abandon Report**

Operator: **Elm Ridge Resources, Inc.**  
Date: September 2, 2002  
Field:  
Contractor: Triple P  
Supervisor: Doug Endsley

Well Name: Gothic Mesa 16-13A  
Internal Well No.:  
Report No.: 1 through 5  
Location: Sec. , TS, RE  
Foreman: Tim Duggan

**Work Summary:**

**Tuesday, August 20, 2002:** MIRU Triple Rig #5. Got stuck in sand two times – wait on winch truck. SDON

**Wednesday, August 21, 2002:** Winch truck – pull rig to location. Rig up. POOH – laying down 70 7/8 rods, 158 3/4 rods, 2 x 1-1/2x16 pump. Release anchor. NU BOP. Need hot oil truck. SDON

**Thursday, August 22, 2002:** Rig up hot oil truck and pump 35 bbls water, drop SV. Pump 30 bbls – pressure test – no good. TOH – found 6-bad joints. TIH 5-1/2 bit and scrapper, SN, SV. Pressure test every 20-stands – good. Pressure test to 1000 PSI, 5305, 164-jts. AJL 3235. SDON

**Friday, August 23, 2002:** RIH w/swab line – retrieve SV. TOH 164-jts 2-3/8 5-1/2 bit and scrapper.

**Monday, August 26, 2002:** TIH w/5-1/2 CIBP Set 5273. Roll hole 120 bbls water. Pressure test to 500 PSI – okay. Pump 12 sx, 2.5 bbls, 2% Cal. Displace 19.5 bbls. TOH – laying down 26-joints. EOT @ 4432'. Pump 20 sx, 4.2 bbls. Displace 16.0 bbls. TOH – laying down 58-joints. EOT @ 2557'. Pump 17 sx, 3.6 bbls. Displace 9.0 bbls. TOH – laying down 34-joints. EOT @ 1456'. Pump 26 sx, 5.5 bbls. Displace 4.5 bbls. TOH – laying down 32-joints. EOT @ 64'. Pump 8 sx, 1.7 bbls. Circulate cement to surface. ND BOP. Top off cement. Rig down. All cement Class "B", 15.6 PPG. Inspector Wallace Ashley – Navajo Nation Mineral Dept.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
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

SUBMIT IN TRIPLICATE

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	8. Well Name and No. Gothic Mesa Well No. 16-13A
2. Name of Operator Central Resources, Inc.	9. API Well No. 43-037-31454
3. Address and Telephone No. P.O. Box 1247, Bloomfield, New Mexico 87413 (505)-632-3476	10. Field and Pool, or Exploratory Area Ismay / Dessert Creek
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1940' FSL, 850' FWL, Sec 16, T41S, R23E	11. County or Parish, State San Juan, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	
TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other _____
	<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 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.)\*

Central Resources, Inc. intends to plug the well in accordance with regulations. Production equipment will be removed and the well will be plugged as specified. Perforate and squeeze will be used unless casing can be recovered over the specified interval or there is evidence cement is in place behind the casing.

**SEE ATTACHED FOR CONDITIONS OF APPROVAL**

Proposed procedure:

- Notify the Farmington BLM office at 505-599-8907 24 hours prior to commencement of plugging operations.
- Pull all retrievable downhole production equipment.
- Set a CIBP at 5270' and spot 50' of cement on top at top of Ismay at 5271'.
- Spot a 100' cement plug from <sup>4416</sup>527' to <sup>4210</sup>4427' across the top of the Hermosa at ~~4437~~ 4360.
- Spot a 100' cement plug from 2557' to 2457' across the top of the Organ Rock at 2507'.
- Spot a 175' cement plug from 1450' to 1275' across the top of the Chinle at 1325' and the intermediate shoe at 1400'.
- Spot a 50' cement plug from 50' to surface.
- Cut wellhead and install dry hole marker. Clear and remediate location.

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

Signed Rodney L. Seale Title District Manager Date June 14, 2000

(This space for Federal or State office use)

Approved by [Signature] Title PE Date 8/23/00

Conditions of approval, if any:

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 manner within its jurisdiction.

\*See Instruction on Reverse Side

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AUG 01 2005

DIV. OF OIL, GAS & MINING

OPERATOR

CENTRAL RESOURCES, INC.

Gothic Mesa Well No. 16-13A

Review Date:

9-3-91 by Giant

Elevation: 4607' GL, 4619' KB

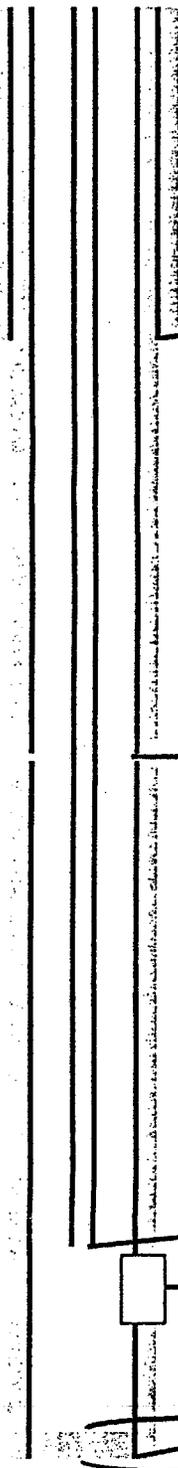
Location: 1940' FSL, 850' FWL, Sec 16, 41-S, 23-E, San Juan County, Utah

200 JUN 20 PM 1:10

Field: OYO FARMINGTON, NM  
Zone: Ismay & Dessert Creek

Perfs: 5323'-5586

Spud Date: August 9, 1989 12:00 AM



8 5/8" 24# J55 ST&C SA 1400' w/ 661sx, topped out

Stage tool set at w/ 850 sx in 2nd stg, circ

tbg - 2 3/8" 1 jt OETP, PS, SN, 10 jts, TAC, 161 jts @ 5570' w/ RWAC 2"x1 1/2"x16", 144-3/4", 75-7/8"

Perf 2 SPF over 5323-31 & 4 JSPF over 5557-65 & 5578-86

PBSD: 5602'  
5 1/2" 15.5# J55 CSA 5653' w/ 1 st stg 325 sx  
TD: 5654'

  
Rod Seale, Printed on 6/16/00

## BLM CONDITIONS OF APPROVAL

The following surface rehabilitation Conditions of Approval must be complied with as applicable, before this well can be approved for final abandonment (see 43 CFR 3162.3-4). **Surface rehabilitation work shall be completed within one year of the actual plugging date. Notification for completion of this work can be submitted with a Sundry Notice.**

1. All fences, production equipment, purchaser's equipment, concrete slabs, deadman (anchors), flowlines, risers, debris and trash must be removed from the location.
2. Production pits will be closed according to the Unlined Surface Impoundment Closure Guidelines, as approved in the Environmental Assessment of December 1993. Any oil stained soils may be remediated on-site according to these guidelines or disposed of in an approved disposal facility.
3. The well pad will be shaped to the natural terrain and left as rough as possible. All compacted areas and areas devoid of vegetation shall be ripped to a minimum of 12" before seeding.
4. Access roads will be shaped to conform to the natural terrain and left as rough as possible to detour vehicular travel. Access will be ripped to a minimum of 12" in depth and waterbarred prior to seeding. All erosion problems created by the development must be corrected prior to acceptance of release. Waterbars should be spaced as shown below:

% Slopes	Spacing Interval
Less than 20%	200'
2 to 5%	150'
6 to 9%	100'
10 to 15%	50'
Greater than 15%	30'

All water bars should divert to the downhill side of the road.

5. All disturbed areas will be seeded with the prescribed certified seed mix (reseeding may be required).
6. Notify Surfacing Managing Agency seven (7) days prior to seeding so that they may be present for that option.
7. The period of liability under the bond of record will not be terminated until the lease is inspected and the surface rehabilitation approved.

Other SMA's may vary slightly in their restoration requirements. It is your responsibility, as the operator, to obtain surface restoration requirements from other SMA's. We need to be provided with a copy of these requirements. Any problems concerning stipulations received from other SMA's should be brought to us.

On private land, we should be provided with a letter from the fee owner stating that the surface restoration is satisfactory.

**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
FARMINGTON DISTRICT OFFICE  
1235 LA PLATA HIGHWAY  
FARMINGTON, NEW MEXICO 87401**

Attachment to notice of  
Intention to Abandon:

Re: Permanent Abandonment  
Well: 16-13A Gothic Mesa

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. Mike Flanikan with the Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 599-8907.
3. The following modifications to your plugging program are to be made:
  - a) Place the Hermosa plug from 4410' - 4310'.

You are also required to place cement excesses per 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.

**GENERAL REQUIREMENTS FOR  
PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES  
FARMINGTON DISTRICT OFFICE**

1.0 The approved plugging plans may contain variances from the following minimum general requirements.

1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Farmington District office, *Branch of Drilling & Production*.

1.2 Requirements may be added to address specific well conditions.

2.0 Materials used must be accurately measured.

3.0 A tank or approved pit must be used for containment of any fluids from the wellbore during plugging operations and all unattended pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.

3.1 Pits are not to be used for disposal of any constituent(s) of concern.

4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.

4.1 The cement shall be as specified in the approved plugging plan.

4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or *annular void(s) between casings*, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.3 Surface plugs may be no less than 50' in length.

4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, *calculated using the bit size*, or 100' of annular capacity, *determined from a caliper log*, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, *as calculated from a caliper log*, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.

5.0 All cement plugs spotted across, or above, any exposed zone(s), when; the wellbore is not full of fluid or the fluid level will not remain static, and in the case of lost circulation or partial returns during cement placement, shall be tested by: (1) tagging with the work string, or: (2) for cased holes only; pressuring to a minimum surface pressure of 500 PSI, with no more than a 10% drop during a 15-minute period.

5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.