

UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
MINERALS MANAGEMENT SERVICE  
OIL & GAS OPERATIONS RECEIVED

5. LEASE DESIGNATION AND SERIAL NO.  
U-17064

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Squaw Canyon Federal

9. WELL NO.  
16-18

10. FIELD AND POOL, OR WILDCAT  
Lower Desert Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
SE, SE  
Sec. 18, T38S, R26E

12. COUNTY OR PARISH  
San Juan

13. STATE  
Utah

**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   
SALT LAKE CITY, UTAH

2. NAME OF OPERATOR  
Jerry Chambers Exploration Company

3. ADDRESS OF OPERATOR  
7800 E. Union Ave, Suite 1100, Denver, Colorado 80237

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface  
700' FSL 770' FEL  
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
24 miles S/SE Aneth, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
16. NO. OF ACRES IN LEASE  
320

17. NO. OF ACRES ASSIGNED TO THIS WELL  
160

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
19. PROPOSED DEPTH  
5800'

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
5015' GR

22. APPROX. DATE WORK WILL START\*  
June 1, 1982

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	100'	125 sx Class "B"
12 1/2"	8 5/8"	24#	1,400'	700 sx Lite + 200 sx "B"
7 7/8"	4 1/2"	10.5#	TD	300 sx 50/50 Pozmix

We propose to drill this well to test the Lower Desert Creek Formation. Should it be productive, a string of 4 1/2" 10.5# casing will be set through the pay. Selectively perforated and stimulated. The hole will be mud drilled. A double gate BOP will be employed for 1400' to TD.

There are no known problems expected during the drilling phase of the project.

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 James J. Ward TITLE Operation Supervisor DATE March 29, 1982

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
FOR E. W. GUYNN  
APPROVED BY [Signature] TITLE DISTRICT OIL & GAS SUPERVISOR DATE SEP 27 1982  
CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL  
CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY  
FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80  
State O & G

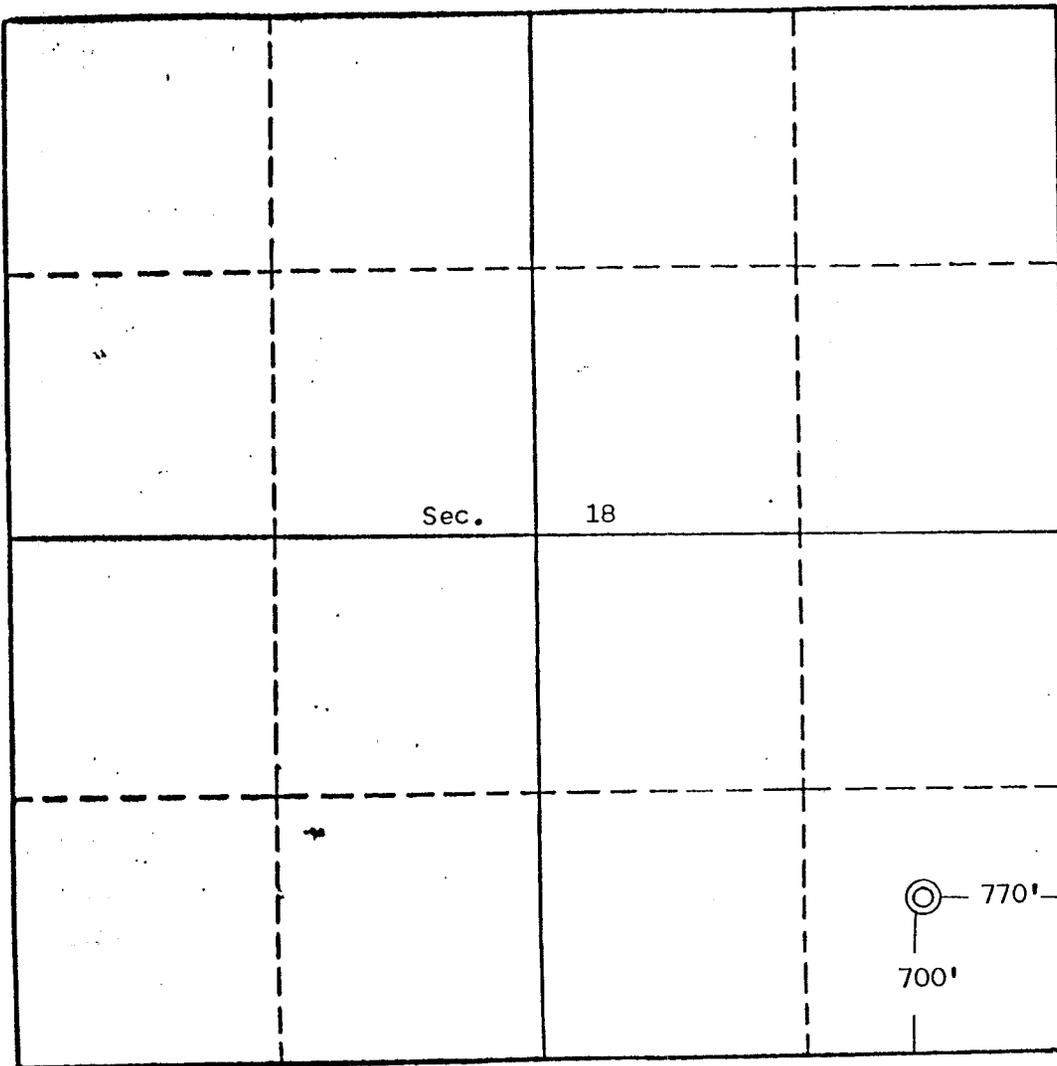
Company Jerry Chambers Exploration Company

Well Name & No. Squaw Canyon 16-18

Location 700' F/SL 770' F/EL

Sec. 18, T. 38 S., R. 26 E., S. L. M., County San Juan, Utah

Ground Elevation 5015



Scale, 1 inch = 1,000 feet

Surveyed March 8, 1982

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Seal:



*Edgar L. Risenhoover*

Edgar L. Risenhoover  
Registered Land Surveyor  
New Mexico Reg. No. 5979

Non-resident certification as authorized  
by Utah State Law 58-22-21(b)

Jerry Chambers Exploration Company  
Well No. 16-18  
Section 18-T38S-R26E  
San Juan County, Utah  
Lease No. U-17064

Supplemental Stipulations:

1. The dirt contractor will be furnished with an approved copy of the surface use plan and any additional BLM stipulations prior to any work.
2. If subsurface cultural material is exposed during construction, work in that spot will stop immediately and the Grand Resource Area Office will be contacted. Salvage or excavation of identified archaeological sites will be done only if damage occurs.
3. Use of water from sources such as wells, springs, streams or stock ponds for activities associated with this well will be approved prior to use, by the agency or individual holding the water rights.
4. The top 8 inches of topsoil will be removed from the location and stockpiled separate from the trees. Topsoil along the access will be reserved in place.
5. A trash pit, dug at least 6 feet into solid undisturbed material and with steep sides, will be constructed near the mud tanks. It will be totally enclosed with a fine mesh wire before the rig moves onto the location.
6. The reserve pit will be lined with commercial bentonite or plastic sufficient to prevent seepage. At least half of the capacity will be in cut.
7. Improvement to the existing access road will not be necessary. New construction will be limited to a total disturbed width of 16 feet. Road surface will be crowned, ditched and water bars will be installed as needed. The access will be upgraded to BLM Class III Road specifications, copy attached.
8. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance. Surfacing material will not be placed on the access road or location without prior BLM approval.
9. Enough topsoil will be retained to reclaim the remainder of the location at a future date. The remaining stockpile of topsoil will be seeded in place using the prescribed seed mixture. See attached rehabilitation requirements.
10. All above ground production facilities will be painted a neutral color to be approved by the BLM.

11. A burning permit will be acquired by contacting the State Fire Warden, John Baker at 801-587-2705

12. The San Juan County Road Department in Monticello will be contacted prior to the use of county roads, at 801-587-2231, Ext/43.

13. Adequate and sufficient electric/radioactive logs will be run to locate and identify the potash and saline minerals in the Paradox formation. Casing and cementing programs will be adjusted to eliminate any potential influence of the well bore or productive hydrocarbon zones on the potash and saline minerals resources. Surface casing program may require adjustment for protection of fresh water aquifers.

Rehabilitation:

1. Immediately on completion of drilling, the location and surrounding area will be cleared of all debris resulting from the operation. All trash will be disposed of in the trash pit. Non-burnable debris will be compacted and buried under a minimum of two feet of compacted soil.
2. All disturbed areas will be scarified with the contour to a depth of six inches.
3. Seed will be broadcast at a time to be specified by the BLM with the following seed prescription. When broadcast seeding, a harrow or similar implement will be dragged over the seeded area to assure seed cover.

2 lbs/acre Indian ricegrass (Oryzopsis hymenoides)  
1 lb/acre Fourwing saltbush (Atriplex canescens)  
1 lb/acre Sand dropseed (Sporobolus cryptandrus)  
1 lb/acre Alkali sacaton (Sporobolus airoides)

4. After seeding is complete, any stockpiled trees will be scattered evenly over the disturbed areas. The access will be blocked to prevent vehicular access.
5. Water bars will be constructed as follows to control erosion.

<u>Grade</u>	<u>Spacing</u>
2%	Every 200 feet
2-4%	Every 100 feet
4-5%	Every 75 feet

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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  
 Jerry Chambers Exploration Company

3. ADDRESS OF OPERATOR  
 7800 E. Union Ave, Suite 1100, Denver, Colorado 80237

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17. NO. OF ACRES ASSIGNED TO THIS WELL  
 160

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

19. PROPOSED DEPTH  
 5800' *Desert Creek*

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 5015' GR

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 June 1, 1982

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6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
 ANASAZI

8. FARM OR LEASE NAME  
 Squaw Canyon Federal

9. WELL NO.  
 16-18

10. FIELD AND POOL, OR WILDCAT  
*Undesignated*  
 Lower Desert Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 SE, SE  
 Sec. 18, T38S, R26E

12. COUNTY OR PARISH  
 San Juan

13. STATE  
 Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	100'	125 sx Class "B"
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There are no known problems expected during the drilling phase of the project.

**APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING**  
 DATE:                       
 BY:                     

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.

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(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

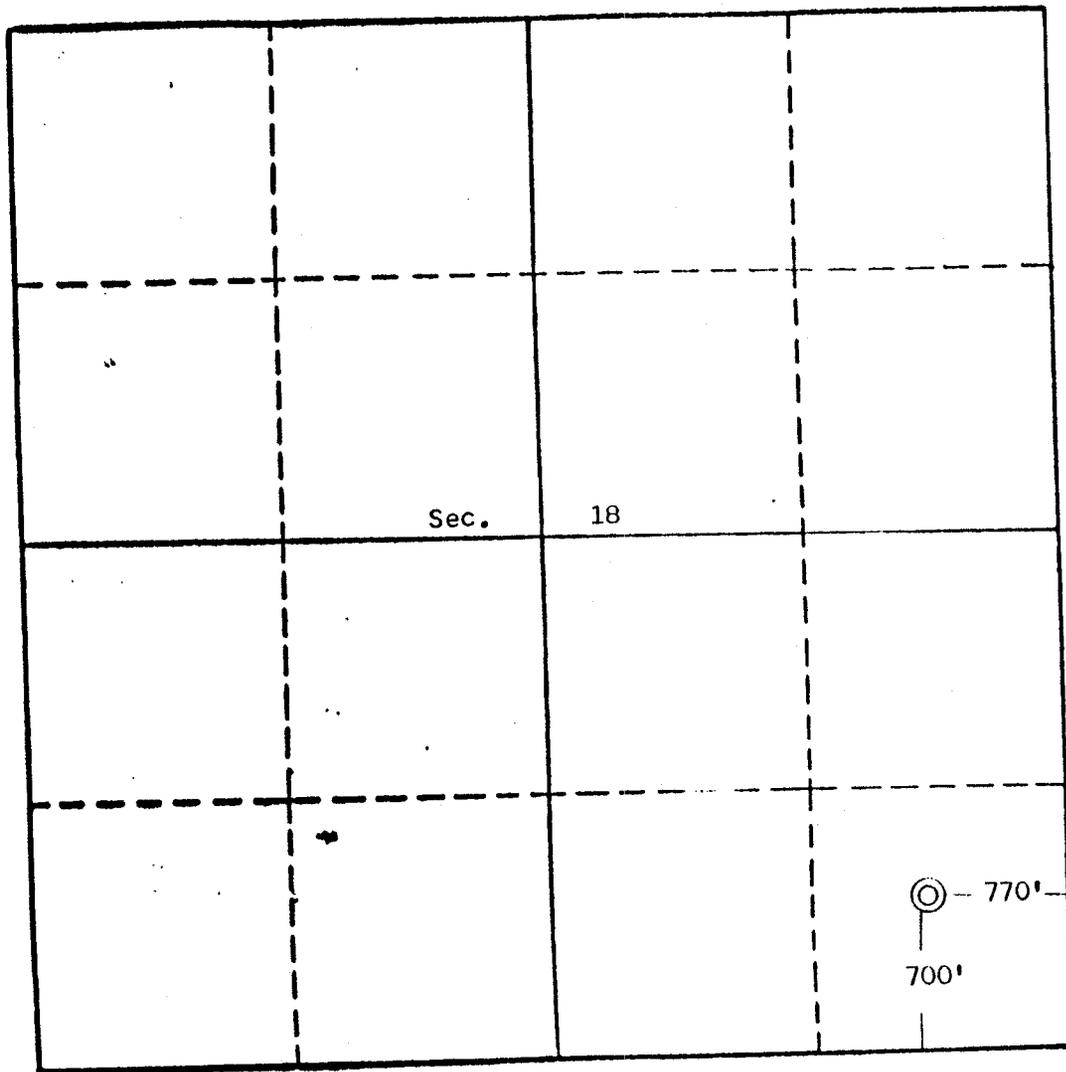
Company Jerry Chambers Exploration Company

Well Name & No. Squaw Canyon 16-18

Location 700' F/SL 770' F/EL

Sec. 18, T. 38 S., R. 26 E., S. L. M., County San Juan, Utah

Ground Elevation 5015



Scale, 1 inch = 1,000 feet

Surveyed \_\_\_\_\_ March 8, 1982

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Seal:



*Edgar L. Risenhoover*

Edgar L. Risenhoover  
Registered Land Surveyor  
New Mexico Reg. No. 5979

Non-resilient certification as authorized  
by Utah State Law 58-22-21(b)

JERRY CHAMBERS EXPLORATION COMPANY  
SQUAW CANYON FEDERAL 16-18  
700' FSL, 770' FEL, Sec 18, T38S, R26E  
SAN JUAN COUNTY, UTAH

13 POINT SURFACE USE PLAN

I. Existing Roads

- A. Refer to Topographic maps for location as staked.
- B. From Hatch Trading Post, Utah, proceed approximately 8 miles Northeast on dirt road toward Cajon Lake. Turn left in northerly direction and proceed 2 miles on dirt road up Squaw Canyon to location.
- C. Refer to Topographic maps for access roads.
- D. Refer to Topographic maps for existing roads within a 3 mile radius of location.
- E. Refer to Topographic maps for existing roads within a 1 mile radius of location.
- F. Improvement to existing roads will not be necessary. New construction will be limited to a total disturbed width of 16 feet. Road surface will be crown bladed to remove brush, ditching and or water bars or culverts will be installed as needed.

II. Planned Access Road

- A. This location falls near the existing road and no new access road will be required.

III. Location of Existing Wells for 1 square mile radius of this planned development well.

- |                                |  |
|--------------------------------|--|
| 1) Water wells                 | 0  |
| 2) Abandoned wells             | 0  |
| 3) Temporarily abandoned wells | 0  |
| 4) Disposal wells              | 0  |
| 5) Drilling wells              | 0  |
| 6) Producing wells             | 2-3/4 mile to the SW and 1/2 mi to the south |
| 7) Shut-In wells               | 0  |
| 8) Injection wells             | 0  |
| 9) Monitoring wells            | 0  |

IV. Location of Existing and or Proposed Facilities

- A. There are no existing facilities owned or controlled by operator.
- B. Contemplated facilities in the event of production.
  - 1) Proposed production facilities will be located on the drilling location.
  - 2) Proposed facilities will require approximately 200' X 300'.
  - 3) The tank battery, if needed, will be constructed using a bulldozer to level the site, backhoes to dig trenches and bury lines; pole trucks, floats and roustabout crews to maneuver equipment. Construction materials will consist of surface soil, sand and gravel as required.
  - 4) With regard to protecting livestock and wildlife, the reserve pit will be fenced. The treater and/or dehydrator will be enclosed and surrounded by a dyke.
- C. Rehabilitation Plan  
Areas disturbed, but no longer needed for operations will be bladed to the approximately original contour and re-seeded with a seed mixture as required by the Bureau of Land Management. Stockpiled topsoil will be stored on the NWSW side of location and will be distributed over the area prior to reseeding. Immediately on completion of drilling, the location and surrounding area will be cleared of all debris resulting from the operation. All trash will be disposed of in the trash pit. The operator or his contractor will contact the San Juan Resource Area BLM office in Monticello, Utah, phone 801-587-2201, 48 hrs prior to starting rehabilitation work that involves earthmoving equipment and upon completion of restoration measures.

13 POINT SURFACE USE PLAN, PAGE 2

V. Location and Type of Water Supply

- a) Water from streams, ponds, and wells will be utilized on this well. The Wrights in Cortez, Colorado will truck water from source to location. They have permission to use water from various sources. No water wells will be drilled.

VI. Source of Construction Materials

- a) No construction materials will be needed to construct the location. Upon completion, all materials needed to set tanks and production equipment will be purchased in Farmington, New Mexico or Cortez, Colo. and hauled to the well site.

VII. Methods of Handling Waste Materials

- a) Cutting will be buried 3' below surface.
- b) Drilling fluid and produced fluids will be left in a fenced, open reserve pit to evaporate and will be backfilled when dry.
- c) Portable toilet to be provided.
- d) Trash will be burned in burn pit, then buried, enclosed with fine mesh wire.
- e) A burn permit will be required between May 1 and Oct. 1.
- f) After pit area is dry, cuttings will be pushed into pit and sub soil will be placed on any remaining fluid and cuttings, then top soil will be placed over both pit and location area. We will contact the San Juan Resource Area BLM office in Monticello, Utah (801-587-2201) 48 hrs prior to any rehabilitation is started. The location will be reseeded as instructed.

VIII. Ancillary Facilities

- a) No camps or airstrip will be associated with this project.

IX. Well Site Layout

- a) See attached plat. The reserve pit will be unlined.

X. Plans for Restoration

- a) Upon completion of the project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out as controlled by the regulatory body.

XI. Other Information

- a) None

XII. Operators Representative

The Operators representative responsible for compliance with the surface use plan is:

Jerry Chambers Exploration Company  
800 Warner Court, Suite 154  
Casper, Wyoming 82601  
Mr. Neal Leafdale  
Phone: 307/266-3856

Elledge Consulting & Production Company  
P. O. Box 819  
Bloomfield, New Mexico 87413  
Mr. Harold W. Elledge, President  
Phone: 505/632-3385

XIII. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made herein are, to the best of my knowledge, true and correct; that the work associated with the operations proposed herein will be performed by Jerry Chambers Exploration Company and its contractors and subcontractors in conformity with this plan and the terms under which it is approved.

JERRY CHAMBERS EXPLORATION COMPANY

DATE: 3-28-82

BY: Neal Leafdale  
Neal Leafdale  
Rocky Mountain Superintendent

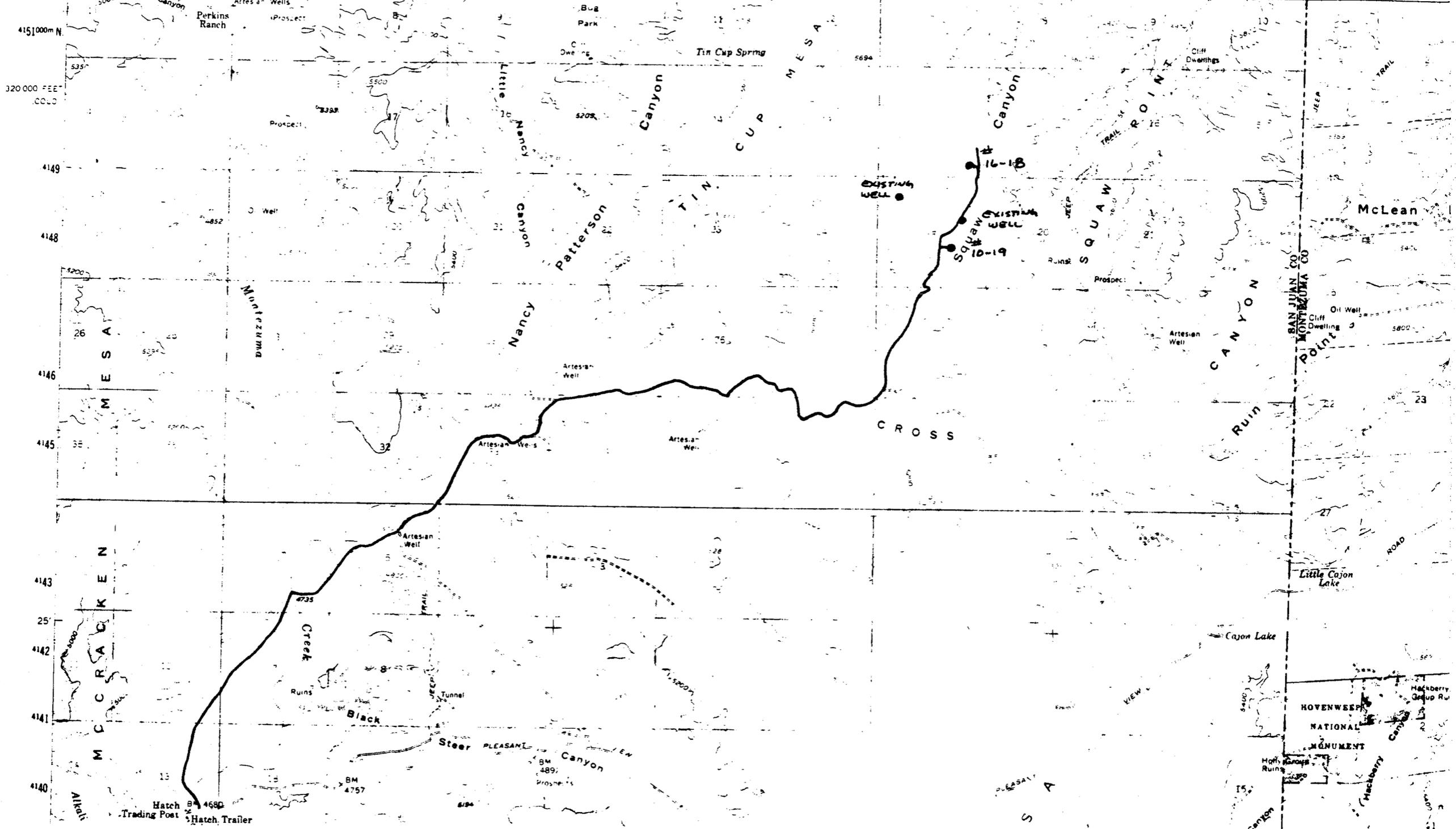
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BLANDING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

UNITED STATES  
ATOMIC ENERGY COMMISSION

CAJON MESA  
UTAH-CO  
15 MINUTE SERIE

109° 15' 655000m E. 920000 FEET COLO 659 661 10' 664 MONUMENT CANYON 667 668 5' 671 673 2720000 FEET UTAH



MCCRAKEN

Hatch Trading Post Hatch Trailer

Creek

BM 4757

Steer Pleasant Canyon

BW 489

Prospect

5200

CUP MESA

Tin Cup Spring

Nancy Canyon  
Patterson Canyon  
Tin Cup

CROSS

DUSTING WELL

16-18

CRISTINA WELL

MEMBERS

10-19

JEEP

Cajon Lake

HOVENWEEP NATIONAL MONUMENT

Holly Springs Ruins

Cliff Dwelling

Oil Well

McLean

SAN JUAN CO  
MONTICUMA CO

Little Cajon Lake

ROAD

Hackberry Group Ru

Hackberry Canyon

Hackberry Canyon

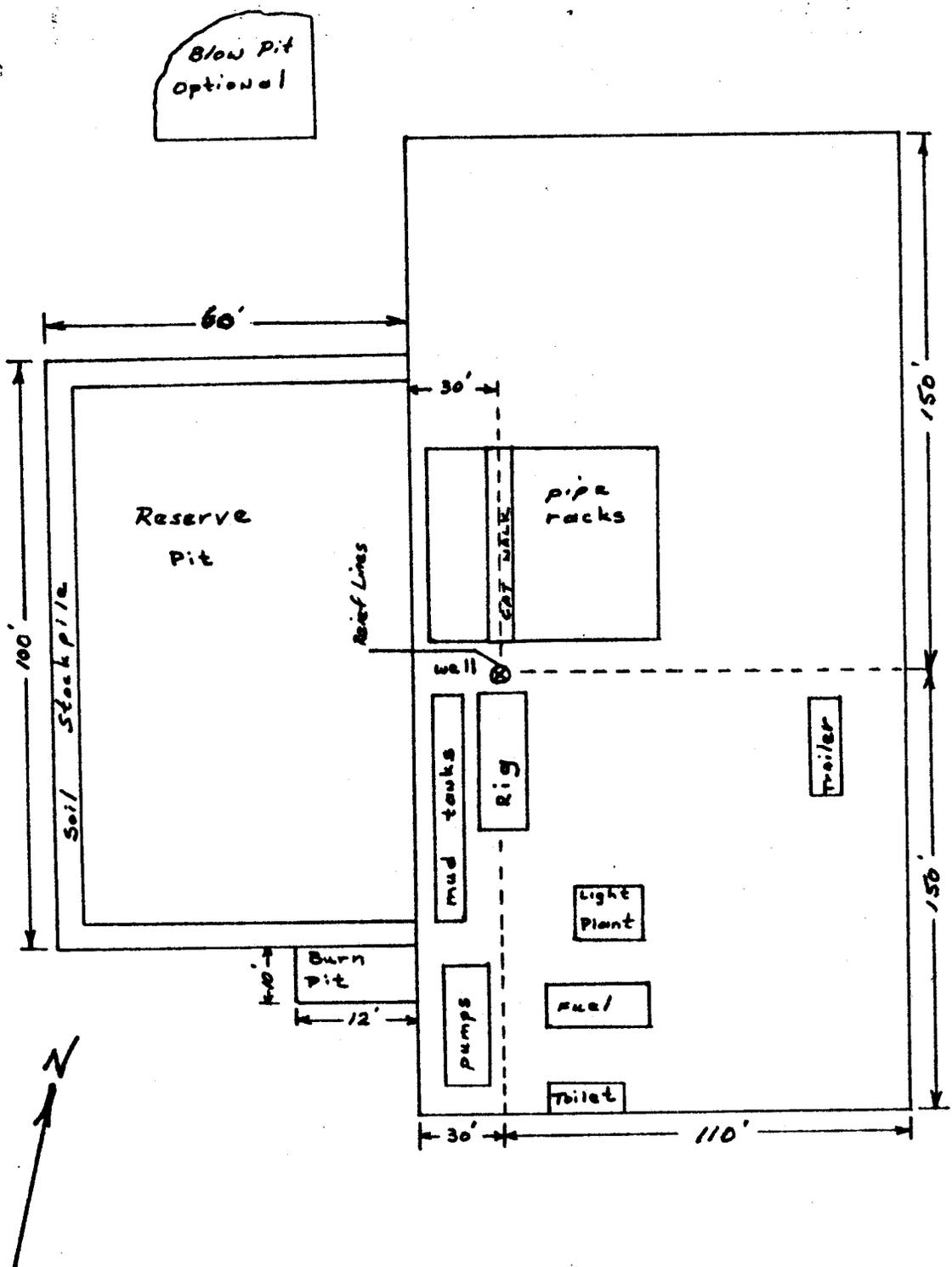
Hackberry Canyon

Hackberry Canyon

Hackberry Canyon

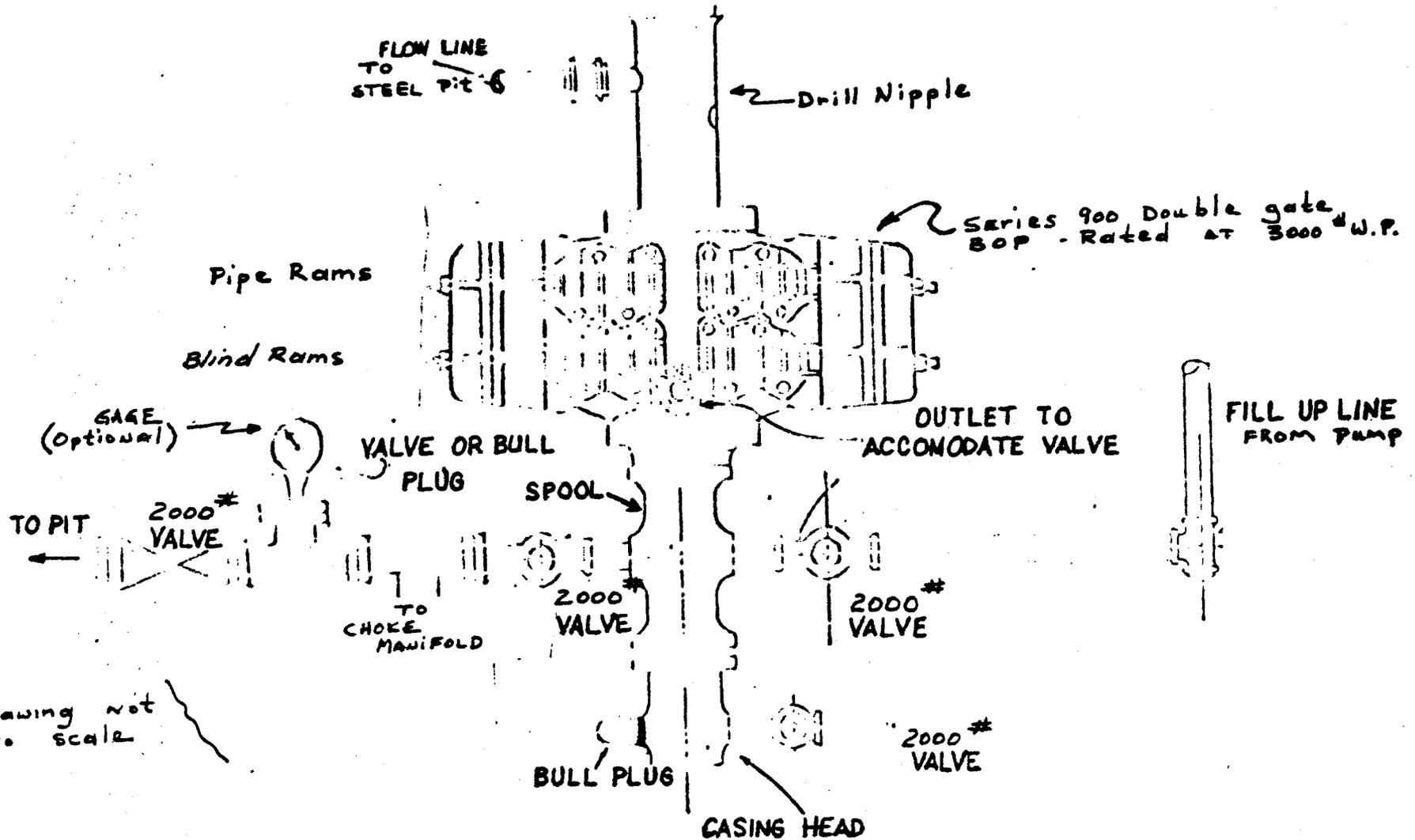


JERRY CH/ BEH3 EXPLORATION COMPANY  
SQUAW CAN, IN TEO. #16-18  
SESE SEC. 18, T38S, R26E  
SAN JUAN COUNTY  
Utah



Drillsite Layout

# Typical BOP Installation



JERRY CHAMBERS EXPLORATION COMPANY  
SQUAW CANYON FEDERAL #16-18  
700' FSL, 770' FEL SECTION 18, T38S, R26E  
SAN JUAN COUNTY, UTAH

10 POINTS OPERATION PLAN

1. Location: SESE Section 18, T38S, R26E  
Field: Lower Desert Creek  
Elevation: 5015' GR
2. Geology:
  - A. Formation Tops:

Entrada	600'
Carmel	730'
Navajo	750'
Kayenta	1000'
Wingate	1155'
Chinle	1500'
Shinarump	2300'
Cutler	2450'
Honaker Trail	4250'
Paradox	5200'
Upper Ismay	5350'
Lower Ismay	5550'
Desert Creek	5600'
TD	5800'
  - B. Logging Program: Dual Induction Laterlog and  
Compensated Neutron-Density Log
  - C. Coring Program: None anticipated.
3. Drilling: The operator expects to encounter hydrocarbons in the Lower Desert Creek formation at near 5600'. No other formations are expected to give up oil, gas, or water in measurable quantities.
4. The Proposed Casing Program (all new)

A. Casing Program:	<u>Hole Size</u>	<u>Depth</u>	<u>Casing Size</u>	<u>Wt &amp; Grade</u>
	17½"	100'	13 3/8"	48# H-40
	12¼"	1400'	8 5/8"	24# J-55
	7 7/8"	5800'	4½"	10.5# K-55

  - B. Float Equipment: Should the well be productive, the production casing will be run with a regular guide shoe, with float collar 1 jt up. The pay zones will be centralized.
  - C. Tubing: If commercial, a string of 2 3/8" 4.7# EUE tubing will be utilized.
  - D. Wellhead Equipment: A series 600 flanged tree will be used to accomodate 4½" casing and 2 3/8" tubing. A series 600 flanged casinghead will be utilized during the drilling phase.
  - E. Cementing: The 13 3/8" conductor pipe will be cemented from 100' to surface with 125 sx neat cement. The 8 5/8" surface casing will be cemented conventionally from 1400' to surface with 700 sx lite cement and tail in with 200 sx Class "B". The 4½" production string will be cemented from 5800' to 4000' with 300 sx 50/50 Pozmix.

5. Operators Minimum Requirement for Pressure Control Equipment:

<u>Depth</u>	<u>Size</u>	<u>Series</u>	<u>Type</u>	<u>Rams</u>
1400-5800	10"	900	Double Gate	Pipe and Blind

NOTE: A choke manifold is required with equivalent pressure rating as BOP prior to drilling out shoe. Test casing to 70% of internal yield, test pipe and blind rams to rated working pressures for 15 minutes. The BOP is to be actuated daily and noted on the tour report.

6. The Proposed Drilling Fluid Program:

<u>Depth</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0-100'	native	N/C	N/C	N/C
100'-1400'	native	9.0	30-32	N/C
1400'-5800'	Low Solids	8.8-9.1	30-35	10cc

10 POINTS OPERATION PLAN PAGE 2

7. Auxillary Equipment

- 1) Kelly Cock
- 2) Bit Floats will be available
- 3) Full opening floor valve with proper threads
- 4) Mud systems will be monitored visually

8. Drill Stem Tests may be taken based of show:

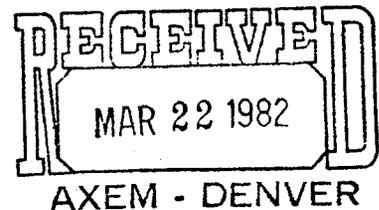
No cores are planned

The proposed completion program:

- 1) MI completion rig
  - 2) Run CBL-VDL and PDC log
  - 3) Pick up tubing
  - 4) Perforate productive interval
  - 5) Test
  - 6) Test formation as necessary. No hydraulic fracturing with hydrocarbons is anticipated. However, should this change, the wellbore, fluid tanks, and pumping equipment will be a minimum of 120' apart.
9. No abnormal pressures or temperatures are expected. No hydrogen sulfide is anticipated. No problems are foreseen.
10. The anticipated starting date is upon arrival of permits. An estimated 20 days will be required for operations.



# FORT LEWIS COLLEGE



DURANGO, COLORADO 81301

## MEMORANDUM

Date: March 15, 1982

To: ✓ Jerry Chambers Exploration Company, Suite 1100, 800 East Union Avenue,  
Denver, Colorado 80237  
Mr. Bruce Louthan, Moab District Office, Bureau of Land Management,  
Post Office Box 970, Moab, Utah 84532

From: Robert W. Biggs, Research Associate, Department of Anthropology, Fort  
Lewis College, Post Office Box 122, FLC, Durango, Colorado 81301

Subject: Reports for Surveys of Cultural Resources for Jerry Chambers Explora-  
tion Company's Proposed Squaw Canyon Nos. 10-19 and 16-18 Well Pads  
and Access Roads

Enclosed you will find the required number of copies of the subject reports for the cultural resources surveys conducted March 10, 1982. The proposed well pad locations are situated on Federally owned lands under the jurisdiction of the San Juan Canyon Resource Area Office of the Bureau of Land Management. No cultural resources are endangered by any of the proposed activities.

I hereby certify that the field work and report preparation were carried out by a qualified archaeologist under my direction and, to the best of my knowledge, meet the applicable Historic Preservation Laws and FEO 11,593.

ROBERT W. BIGGS, Research Associate  
Department of Anthropology  
Fort Lewis College  
Antiquities Permit No. 82-UT-116

cc: Rich Fike, State Archaeologist, BLM, Salt Lake City, Utah  
Utah S.H.P.O.  
Elledge Engineering, Bloomfield, New Mexico  
Axem Resources, Inc., Casper, Wyoming  
San Juan Canyon Resource Area Office, BLM, Monticello, Utah

Enclosures

RWB/br

Antiquities Permit No. 82-UT-116

SURVEY OF CULTURAL RESOURCES  
FOR JERRY CHAMBERS EXPLORATION COMPANY'S  
PROPOSED SQUAW CANYON NO. 16-18 WELL PAD AND ACCESS ROAD  
SAN JUAN COUNTY, UTAH

Prepared by:

RUSSELL EBEL  
Staff Archaeologist  
Department of Anthropology  
Fort Lewis College  
Durango, Colorado 81301

ROBERT W. BIGGS, Principal Investigator

March 15, 1982

Prepared for:

JERRY CHAMBERS EXPLORATION COMPANY  
Denver, Colorado

SURVEY OF CULTURAL RESOURCES  
FOR JERRY CHAMBERS EXPLORATION COMPANY'S  
PROPOSED SQUAW CANYON NO. 16-18 WELL PAD AND ACCESS ROAD  
SAN JUAN COUNTY, UTAH

A survey of archaeological and historical resources was conducted for Jerry Chambers Exploration Company's proposed Squaw Canyon No. 16-18 well pad and access road. The proposed location of the well pad is 770 feet FSL and 700 feet FEL in the SE $\frac{1}{4}$  of the SE $\frac{1}{4}$  of Section 18, Township 38 South, Range 26 East, New Mexico Principal Meridian, San Juan County, Utah (see attached map). The proposed access route is approximately 450 feet long and will cross portions of the SE $\frac{1}{4}$  of the SE $\frac{1}{4}$  of Section 18 (same township and range) from an existing road. The proposed well pad location and access road are situated on Federally owned property under the jurisdiction of the Bureau of Land Management, San Juan Canyon Resource Area, Moab District.

On March 10, 1982, Russell Ebel, Staff Archaeologist, Fort Lewis College, accompanied a general inspection team to the location. The inspection team included: Neal Leafdale of Jerry Chambers Exploration, Don Englishman of Minerals Management Services, Bob Turrey and Paul Happle of the Bureau of Land Management, Steve McDonald of Perry McDonald Construction, and Ed Eisenhower, land surveyor.

This work was completed in order to comply with legal provisions contained in the Act for Preservation of American Antiquities of 1906 (34 Stat. 225, 16 U.S.C. 431 et seq.), the National Environmental Policy Act of 1969 (83 Stat. 852, 42 U.S.C. 431 et seq.), and Federal Executive Order 11,593.

#### ENVIRONMENTAL DESCRIPTION

The proposed well pad is situated on a small terrace west of the floodplain of Squaw Canyon. Vegetation on the pad location is plains-prairie community with pinyon-juniper association including fourwing saltbush, snakeweed, wolfberry, Russian thistle, indian ricegrass, and various annual grasses. Sparse pinyon-juniper forest borders the well pad on the west. Soils are sandy loam.

#### SURVEY METHODS

Prior to the initiation of the field survey a file search was conducted through the San Juan Canyon Resource Area Office of the Bureau of Land Management to determine if there were any previously recorded archaeological or historical sites within the proposed project area.

An area 400 by 400 feet around the centerstake of the proposed well pad location and an area extending 50 feet on either side of the centerline of the proposed access route were walked and examined for surface evidence of archaeological or historical resources which might be affected by preparation of the drilling pad and pits, construction of the access route, or by drilling activities. The areas surrounding the pad location and access route were given a cursory examination for the presence of cultural resources which might be subject to indirect impacts from construction or drilling activities.

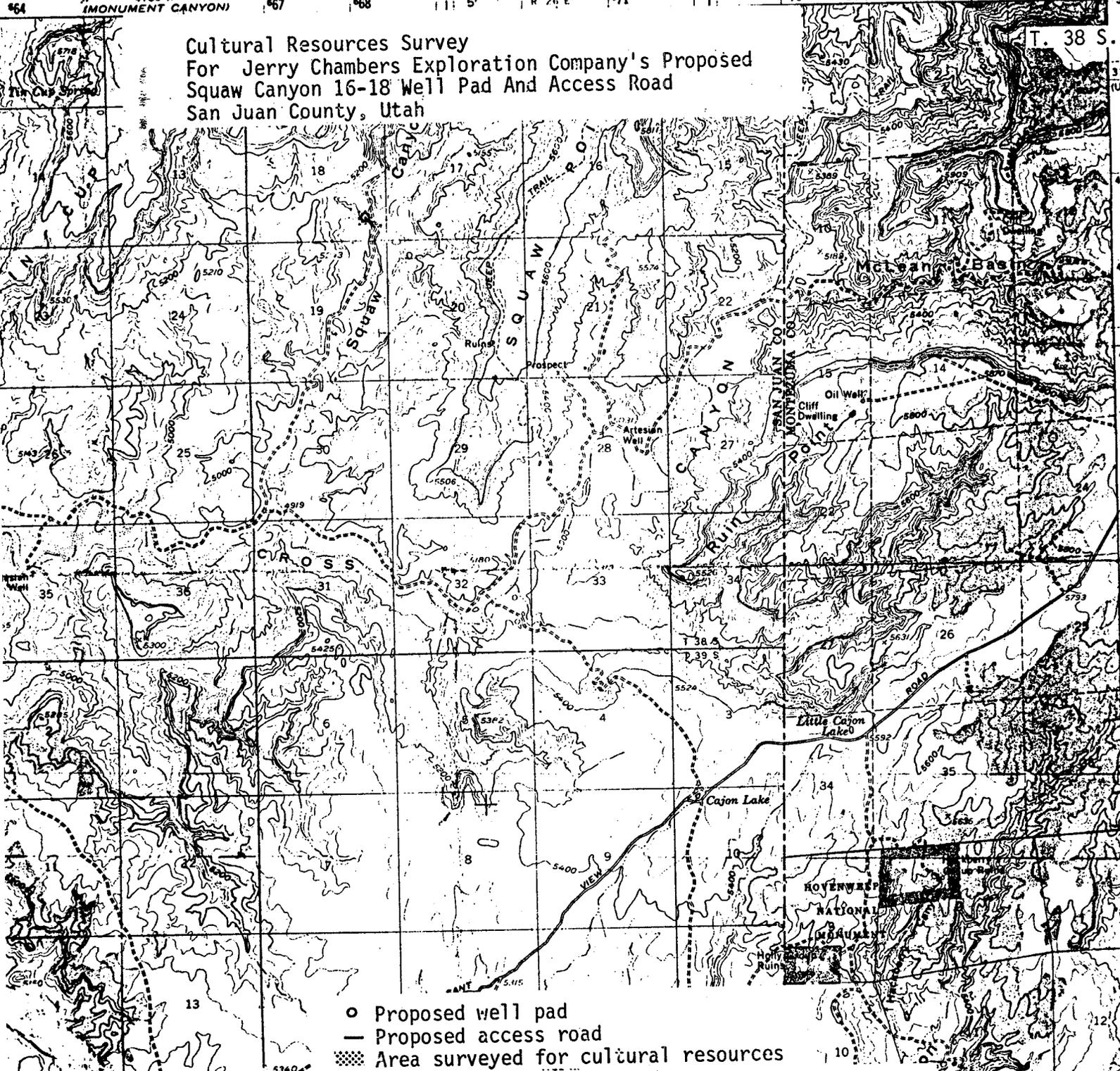
## RESULTS OF SURVEY

No significant surface evidence of archaeological or historical resources was found at the proposed location or along the access route. No evidence of cultural resources in adjacent areas was found which might be subject to indirect impacts from the preparation of the well pad or access route. No previously recorded sites or sites currently listed in the National Register of Historic Places are within the proximity of the work area.

## RECOMMENDATIONS

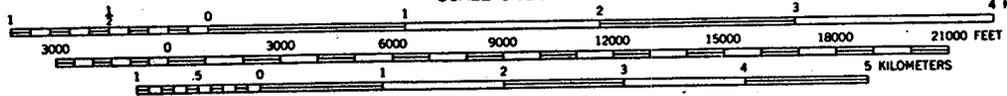
Since no significant evidence of archaeological or historical resources which would be endangered by well pad preparations, road construction, or drilling activities was found at the location or along the access route, no further cultural resource management is considered necessary. Should subsurface archaeological materials be encountered during the preparation of the well pad or construction of the access road, work should be halted and the San Juan Canyon Resource Area Office of the Bureau of Land Management notified.

Cultural Resources Survey  
For Jerry Chambers Exploration Company's Proposed  
Squaw Canyon 16-18 Well Pad And Access Road  
San Juan County, Utah

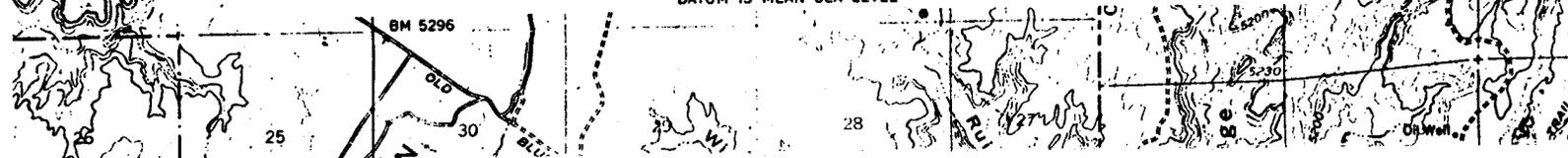


- Proposed well pad
- Proposed access road
- ▨ Area surveyed for cultural resources

SCALE 1:62500



CONTOUR INTERVAL 40 FEET  
DOTTED LINES REPRESENT 20-FOOT CONTOURS  
DATUM IS MEAN SEA LEVEL



7800 East Union Avenue  
Suite 1100  
Denver Technological Center  
Denver, Colorado 80237  
(303) 740-9000  
TWX 910-931-2667

# JERRY CHAMBERS



EXPLORATION CO.

April 29, 1982

State of Utah  
Division of Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, Utah 84114  
Attention: Arlene

Re: Squaw Canyon Federal #16-18  
SESE Section 18-T38S-R26E  
San Juan County, Utah  
  
Squaw Canyon Federal #10-19  
NWSE Section 19-T38S-R26E  
San Juan County, Utah

Dear Arlene:

Enclosed please find complete Applications for Permit to Drill including the 13 point plans and 10 point plans for both of the above referenced wells. Also enclosed are copies of the Archaeology Reports.

If there is anything further needed, please let me know. Thank you for bringing this oversight to my attention.

Sincerely,

JERRY CHAMBERS EXPLORATION CO.

Barbara Laughlin  
Senior Drilling Assistant

Encl.

RECEIVED  
MAY 04 1982

DIVISION OF  
OIL, GAS & MINING

\*\* FILE NOTATIONS \*\*

DATE: 4-29-82  
OPERATOR: Jerry Chambers Exploration Co.  
WELL NO: Snow Canyon Fed. 16-18  
Location: Sec. 18 T. 38S R. 26E County: San Juan

File Prepared:  Entered on N.I.D:   
Card Indexed:  Completion Sheet:

API Number 43-037-30784

CHECKED BY:

Petroleum Engineer: \_\_\_\_\_  
\_\_\_\_\_

Director: \_\_\_\_\_  
\_\_\_\_\_

Administrative Aide: OK for rule C-3 Unit Well  
\_\_\_\_\_  
\_\_\_\_\_

APPROVAL LETTER:

Bond Required:  Survey Plat Required:   
Order No. \_\_\_\_\_ O.K. Rule C-3

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site

Lease Designation Fed. Plotted on Map

Approval Letter Written   
Hot Line  P.I.

May 5, 1982

Jerry Chambers Exploration Company  
7800 East Union Avenue, Suite 1100  
Denver, Colorado 80237

RE: Well No. Squaw Canyon Federal 16-18  
Sec. 18, T. 38 S, R. 26 E  
San Juan County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

CLEON B. FEIGHT - Director  
Office: 533-5771  
Home: 466-4455

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30784.

Sincerely,

DIVISION OF OIL, GAS AND MINING



R. J. Firth  
Chief Petroleum Engineer

RWF/as  
Encl.  
cc: Minerals Management Service

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: JERRY CHAMBERS EXPLORATION

WELL NAME: Squaw Canyon Federal 16-18

SECTION SESE 18 TOWNSHIP 38S RANGE 26E COUNTY San Juan

DRILLING CONTRACTOR Brinkerhoff Signal

RIG # 32

SPUDDED: DATE 11-24-82

TIME 10:00 AM

HOW Rotary

DRILLING WILL COMMENCE 2365' AS OF 11-29-82

REPORTED BY Barbara

TELEPHONE # 303-74-9000

DATE 11-29-82 SIGNED AS

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO.

U-17064

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**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  GAS WELL  OTHER

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR  
Jerry Chambers Exploration Co.

8. FARM OR LEASE NAME  
Squaw Canyon Federal

3. ADDRESS OF OPERATOR  
7800 East Union Ave, Suite 1100, Denver, CO 80237

9. WELL NO.  
16-18

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface  
700' FSL, 770' FEL  
SESE Section 18

10. FIELD AND POOL, OR WILDCAT  
Lower Desert Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 18-T38S-R26E

14. PERMIT NO.  
43-037-30784

15. ELEVATIONS (Show whether OF, RT, GR, etc.)  
5015' GR

12. COUNTY OR PARISH  
San Juan

13. STATE  
Utah

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 type="checkbox"/>	<input type="checkbox"/>

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) Report of spud & casing <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.)\*

Spud well at 10:00 a.m., 11/24/82.

Set 13-3/8" casing at 119.33' KB and cemented with 150 sx. Set 8-5/8" casing at 1510' KB and cemented with 830 sx.

Current operations as of 7:00 a.m., 12/3/82, drilling ahead at 3447'.

**RECEIVED**  
DEC 10 1982

DIVISION OF  
OIL, GAS & MINING

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

SIGNED Barbara Laughlin TITLE Sr. Drilling Tech DATE 12/6/82

(This space for Federal or State office use)

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

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO.  
U-17064

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Squaw Canyon Federal

9. WELL NO.  
16-18

10. FIELD AND POOL, OR WILDCAT  
Lower Desert Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 18-T38S-R26E

12. COUNTY OR PARISH  
San Juan

13. STATE  
Utah

**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  GAS WELL  OTHER

2. NAME OF OPERATOR  
Jerry Chambers Exploration Co.

3. ADDRESS OF OPERATOR  
7800 E. Union Ave., Suite 1100, Denver, CO 80237

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface  
700' FSL, 770' FEL  
SESE Section 18

14. PERMIT NO.  
API 43-007-30784

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
5015' GR

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) <u>December Operations</u>	
(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.)\*

Drilled to 5550', ran DST #1, 5526'-5550', Desert Creek.  
Times: 15-30-180-180. Recovered 40' SGCM, Sampler recovered 2150 cc mud, .2 cfg at 55#. IH 3271, IF 40-40, ISI 107, FF 40-54, FSI 2736, FH 3271', 12/14/82.

Drilled to a total depth of 5605' and logged, 12/15/82.

Set 5½" casing at 5605' KB and cemented with 150 sx.

Released drilling rig, 12/17/82.

Current operations as of 7:00 AM, 12/21/82, waiting on completion unit.

**RECEIVED**  
DEC 27 1982

DIVISION OF  
OIL GAS & MINING

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

SIGNED Barbara Laughlin TITLE Sr Drilling Tech DATE 12/21/82

(This space for Federal or State office use)

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



TICKET NO. 19624100  
20-DEC-82  
FARMINGTON

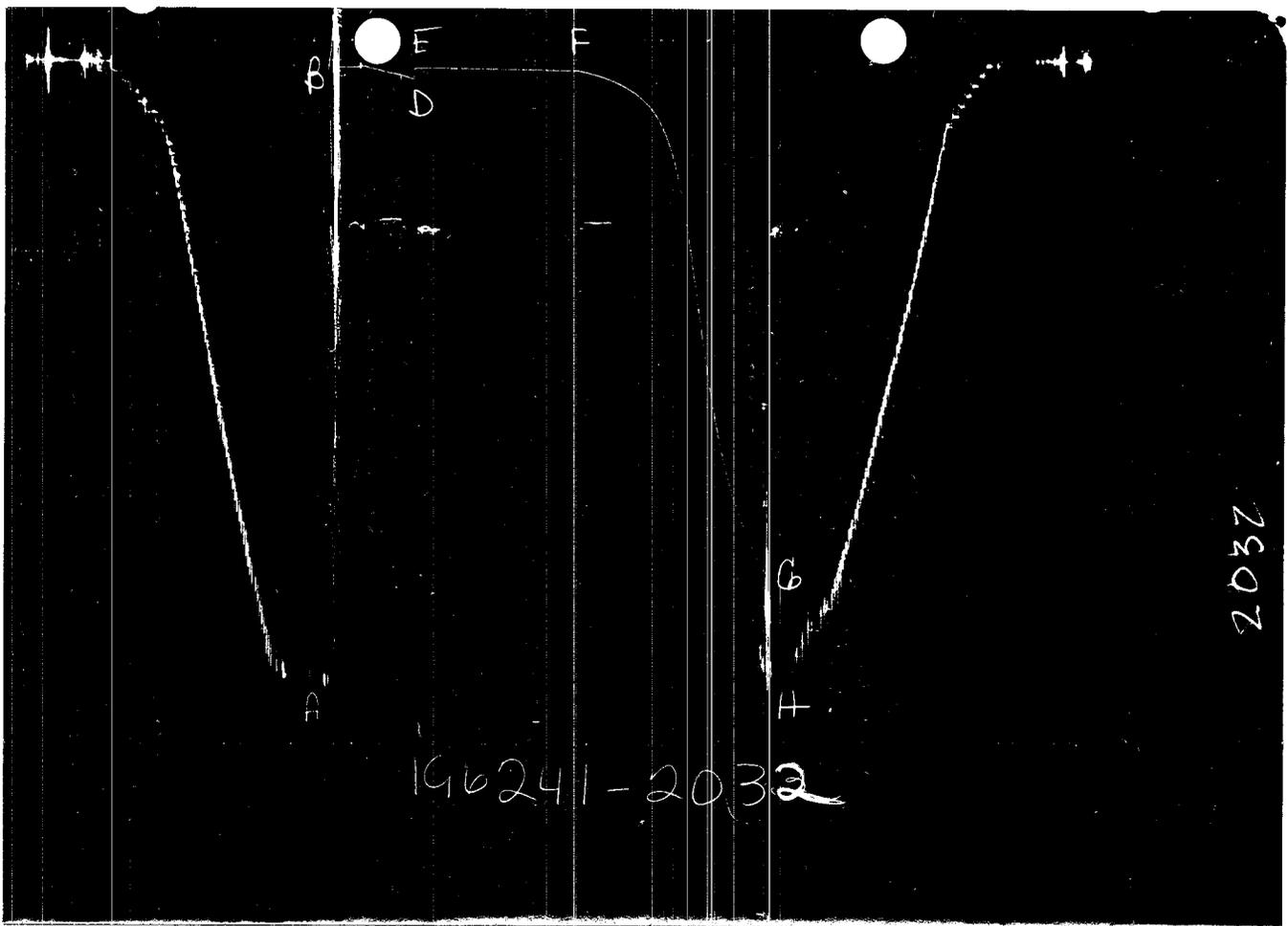
RECEIVED

DEC 27 1982

DIVISION OF  
OIL, GAS & MINING

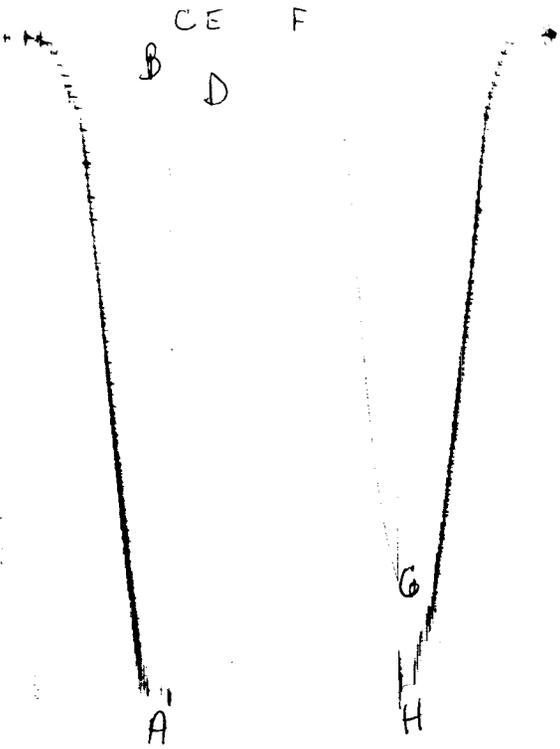
# FORMATION TESTING SERVICE REPORT

LEGAL LOCATION SECT. - TWP. - RANG.	18 - 38S-26E	FIELD AREA	WILDCAT	COUNTY	SAN JUAN	STATE	UTAH
SQUAW CANYON	16-18	TEST NO.	1	TESTED INTERVAL	5526.1 - 5551.1	LEASE OWNER/COMPANY NAME	CHAMBERS - AXEM
LEASE NAME	VELL NO.						



GAUGE NO: 2032 DEPTH: 5504.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3280	3276.1			
B	INITIAL FIRST FLOW	40	39.4			
C	FINAL FIRST FLOW	40	33.1	15.0	16.6	F
C	INITIAL FIRST CLOSED-IN	40	33.1			
D	FINAL FIRST CLOSED-IN	106	97.9	30.0	30.3	C
E	INITIAL SECOND FLOW	40	44.5			
F	FINAL SECOND FLOW	53	52.9	90.0	96.0	F
F	INITIAL SECOND CLOSED-IN	53	52.9			
G	FINAL SECOND CLOSED-IN	2749	2748.3	120.0	113.7	C
H	FINAL HYDROSTATIC	3267	3272.5			



196241 - 2033

GAUGE NO: 2033 DEPTH: 5548.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3271	3285.1			
B	INITIAL FIRST FLOW	40	51.2	15.0	16.6	F
C	FINAL FIRST FLOW	40	38.4			
C	INITIAL FIRST CLOSED-IN	40	38.4	30.0	30.3	C
D	FINAL FIRST CLOSED-IN	107	106.7			
E	INITIAL SECOND FLOW	40	59.4	90.0	96.0	F
F	FINAL SECOND FLOW	54	63.0			
F	INITIAL SECOND CLOSED-IN	54	63.0	120.0	113.7	C
G	FINAL SECOND CLOSED-IN	2736	2751.9			
H	FINAL HYDROSTATIC	3257	3273.9			

## EQUIPMENT & HOLE DATA

FORMATION TESTED: DESERT CREEK  
 NET PAY (ft): 15.0  
 GROSS TESTED FOOTAGE: 25.0  
 ALL DEPTHS MEASURED FROM: KELLY BUSHING  
 CASING PERFS. (ft): \_\_\_\_\_  
 HOLE OR CASING SIZE (in): 7.875  
 ELEVATION (ft): 0  
 TOTAL DEPTH (ft): 5551.0  
 PACKER DEPTH(S) (ft): 5520, 5526  
 FINAL SURFACE CHOKE (in): 0.125  
 BOTTOM HOLE CHOKE (in): 0.750  
 MUD WEIGHT (lb/gal): 11.20  
 MUD VISCOSITY (sec): 39  
 ESTIMATED HOLE TEMP. (°F): \_\_\_\_\_  
 ACTUAL HOLE TEMP. (°F): 130 @ 5547.0 ft

TICKET NUMBER: 19624100  
 DATE: 12-14-82 TEST NO: 1  
 TYPE DST: OPEN HOLE  
 HALLIBURTON CAMP: FARMINGTON  
 TESTER: DAVID DAVIS  
 WITNESS: DENNIS HOEFLER  
 DRILLING CONTRACTOR: BRINKERHOFF SIGNAL # 32

## FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
MUD PIT	<u>0.640 @ 70 °F</u>	<u>5758 ppm</u>
TOP	<u>0.450 @ 84 °F</u>	<u>9697 ppm</u>
SAMPLER	<u>0.155 @ 65 °F</u>	<u>31515 ppm</u>
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm

## SAMPLER DATA

Pstg AT SURFACE: 55  
 cu.ft. OF GAS: 0.20  
 cc OF OIL: 0  
 cc OF WATER: 0  
 cc OF MUD: 2150  
 TOTAL LIQUID cc: 2150

## HYDROCARBON PROPERTIES

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

## CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

### RECOVERED:

40 FEET OF SLIGHTLY GAS CUT MUD

MEASURED FROM TESTER VALVE

### REMARKS:



TICKET NO: 19624100  
 CLOCK NO: 12118 HOUR: 12



GAUGE NO: 2032  
 DEPTH: 5504.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B	1	0.0	39.4		
	2	3.0	34.4	-5.0	
	3	6.0	33.2	-1.2	
	4	9.0	33.9	0.7	
	5	12.0	33.5	-0.4	
C	6	15.0	33.5	0.0	
	7	16.6	33.1	-0.4	
FIRST CLOSED-IN					
C	1	0.0	33.1		
D	2	30.3	97.9	64.8	10.7 0.190
SECOND FLOW					
E	1	0.0	44.5		
	2	16.0	41.0	-3.4	
	3	32.0	42.1	1.1	
	4	48.0	44.9	2.8	
	5	64.0	48.7	3.8	
	6	80.0	51.2	2.5	
F	7	96.0	52.9	1.7	
SECOND CLOSED-IN					
F	1	0.0	52.9		
	2	8.0	66.9	14.0	7.5 1.177
	3	16.0	88.1	35.2	14.0 0.906
	4	24.0	115.8	62.9	19.8 0.755
	5	32.0	154.1	101.2	24.9 0.655
	6	40.0	207.9	155.0	29.5 0.582
	7	48.0	292.0	239.1	33.7 0.524
	8	56.0	449.1	396.2	37.4 0.479
	9	64.0	752.4	699.5	40.8 0.441
	10	72.0	1234.5	1181.6	43.9 0.409
	11	80.0	1738.0	1685.1	46.8 0.382
	12	88.0	2126.8	2073.9	49.4 0.358
	13	96.0	2393.6	2340.7	51.8 0.337
	14	104.0	2578.5	2525.6	54.1 0.319
	15	112.0	2724.6	2671.7	56.2 0.302
G	16	113.7	2748.3	2695.4	56.6 0.299

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
(Empty table)					

REMARKS:

TICKET NO: 19624100  
 CLOCK NO: 14283 HOUR: 24



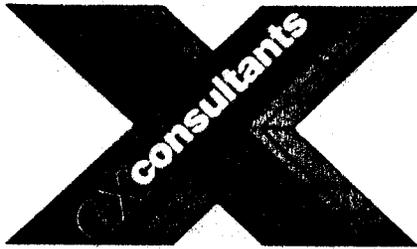
GAUGE NO: 2033  
 DEPTH: 5548.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$	REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
<b>FIRST FLOW</b>											
B	1	0.0	51.2								
	2	3.0	40.8	-10.4							
	3	6.0	38.4	-2.4							
	4	9.0	37.6	-0.8							
	5	12.0	38.1	0.5							
	6	15.0	38.5	0.4							
C	7	16.6	38.4	-0.1							
<b>FIRST CLOSED-IN</b>											
C	1	0.0	38.4								
D	2	30.3	106.7	68.3	10.7	0.190					
<b>SECOND FLOW</b>											
E	1	0.0	59.4								
	2	16.0	49.7	-9.6							
	3	32.0	52.0	2.3							
	4	48.0	54.9	2.9							
	5	64.0	57.5	2.5							
	6	80.0	60.7	3.2							
F	7	96.0	63.0	2.3							
<b>SECOND CLOSED-IN</b>											
F	1	0.0	63.0								
	2	8.0	77.0	14.0	7.5	1.178					
	3	16.0	97.9	34.9	14.0	0.905					
	4	24.0	124.7	61.8	19.8	0.756					
	5	32.0	162.3	99.3	24.9	0.655					
	6	40.0	217.6	154.7	29.5	0.582					
	7	48.0	311.4	246.4	33.7	0.525					
	8	56.0	483.6	420.6	37.4	0.479					
	9	64.0	807.7	744.7	40.8	0.441					
	10	72.0	1294.3	1231.3	43.9	0.409					
	11	80.0	1765.8	1702.8	46.8	0.382					
	12	88.0	2137.5	2074.6	49.4	0.358					
	13	96.0	2396.6	2333.6	51.8	0.337					
	14	104.0	2582.5	2519.6	54.1	0.319					
	15	112.0	2720.5	2657.6	56.2	0.302					
G	16	113.7	2751.9	2688.9	56.6	0.299					

REMARKS:

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	4923.1	
3		DRILL COLLARS.....	6.000	2.250	474.9	
50		IMPACT REVERSING SUB.....	5.750	3.000	1.0	5398.0
3		DRILL COLLARS.....	6.000	2.250	92.0	
13		DUAL CIP SAMPLER.....	5.030	0.870	7.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	5502.0
80		AP RUNNING CASE.....	5.000	2.250	5.0	5504.0
15		JAR.....	5.030	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	6.500	1.530	6.0	5520.0
70		OPEN HOLE PACKER.....	6.500	1.530	6.0	5526.0
20		FLUSH JOINT ANCHOR.....	5.000	2.370	15.0	
20		FLUSH JOINT ANCHOR.....	5.750	3.000	4.0	
81		BLANKED-OFF RUNNING CASE.....	5.750		4.0	5548.0
TOTAL DEPTH						5551.0

EQUIPMENT DATA



A GEOSCIENCE EXTENSION OF XCO

910 Sixteenth Street, #522, Denver, Colorado 80202 (303) 893-8138

✓ JERRY CHAMBERS EXPLORATION COMPANY  
SQUAW CANYON AXEM FEDERAL #16-18  
SE SE SECTION 18-T38S-R26E  
SAN JUAN COUNTY, UTAH

RECEIVED  
JAN 07 1983

DIVISION OF  
OIL, GAS & MINING

GEOLOGIST: Rick Steele  
GX Consultants

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RESUME

OPERATOR: Jerry Chambers Exploration Company  
WELL NAME & NUMBER: Squaw Canyon Axem Federal #16-18  
LOCATION: SE SE Section 18 - T38S - R26E  
COUNTY & STATE: San Juan County, Utah  
SPUD DATE: November 24, 1982  
COMPLETION DATE (TD): December 14, 1982  
ELEVATIONS: 5,015' GL                    5,025' KB  
TOTAL DEPTH: 5,613' LOGS                5,605' DRLR  
CONTRACTOR: Brinkerhoff-Signal  
RIG: #32  
TYPE RIG: Triple-Fixed Mast  
GEOLOGIST: Richard G. Steele, GX Consultants  
ENGINEER: Dennis Hoefer  
TOOL PUSHER: Gene Kramer  
TYPE DRILLING MUD: LSND  
MUD COMPANY: Magcobar  
MUD ENGINEER: Gary Sunderland  
HOLE SIZES: 17-1/2" to 129'  
              12-1/2" to 1,504'  
              7-7/8" to TD  
CASING: 13-7/8" set at 129'  
              8-5/8" set at 1,504'  
MUD LOGGING BY: Analex  
TYPE UNIT: 2-Man Continuous  
CORE INTERVALS: None  
DST DEPTHS: #1: 5,526'-5,550'  
DST COMPANY: Halliburton  
ELECTRIC LOGS BY: Schlumberger  
TYPE LOGS RUN: DIL/GR (Sfc csg - TD)  
                  GR/CAL/SONIC (5,000' - TD)  
                  GR/CAL/FDC/CNL (5,000' - TD)  
LOGGING ENGINEER: M.C. Bain  
BOTTOM FORMATION: Akah  
WELL STATUS: Awaiting completion

## SUMMARY AND CONCLUSIONS

The Chambers Exploration Company Squaw Canyon #16-18 was spudded on November 24, 1982 and reached a total depth of 5,613' (Logger) on December 14, 1982. The primary objective was the Desert Creek dolomite pay zone.

The Desert Creek was drilled at 5,468' (Logger). From 5,538' to 5,549' the drilling rate increased from 8 minutes per foot to 3 minutes per foot. Background gas increased from 35 units to 350 units. Lithology was Dolomite - light-medium brown, very fine to microcrystalline, sugary in part, soft-firm, slightly argillaceous, poor porosity. Electric log cross-plot showed a porosity of 16.8% at 5,545'. On the basis of the gas show, the zone was drill stem tested but only recovered slightly gas cut mud.

The secondary objective of the Squaw Canyon #16-18 was the Ismay  $\emptyset$  Zone. This zone was encountered from 5,376'-5,388' (Driller). No significant drilling break was seen. Background gas rose from 2 units to 65 units. Lithology was Dolomite - light brown, very fine crystalline, sucrosic, soft, poor porosity. On the basis of the poor gas show and lack of fluorescence, the zone was not tested.

Electric logs were run on December 15, 1982 and the well is awaiting completion at the time of this report.

FORMATION TOPS

Squaw Canyon Field

<u>FORMATION</u>	<u>16-18</u>		<u>19-1</u>
Cutler	2,258	+2,767	+2,726
Hermosa	4,173	+ 852	+ 912
Upper Ismay	5,280	- 255	- 213
Ismay ø	5,392	- 367	- 306
Lower Ismay	5,401	- 376	- 406
Gothic Shale	5,452	- 427	- 456
Desert Creek	5,467	- 442	- 470
Pay	5,538	- 513	- 536
Akah	5,572	- 547	- 579

DAILY CHRONOLOGY

1982 DATE	12:01AM DEPTH	DAILY ACTIVITY
11/24	0	Spud, drilling 17-1/2" hole w/Bit #1, run 13-7/8" casing set at 129', cement casing.
11/25	129	WOC, Drilling 12-1/2" hole w/Bit #2.
11/26	600	Drilling.
11/27	1,447	Drilling, run 8-5/8" casing, set at 1,504', WOC.
11/28	1,504	WOC, nipple up, drilling 7-7/8" hole w/Bit #3.
11/29	1,980	Drilling.
11/30	2,496	Drilling.
12/1	2,865	Drilling, trip for bit, drilling w/Bit #4.
12/2	3,104	Drilling.
12/3	3,380	Drilling.
12/4	3,678	Drilling.
12/5	3,892	Drilling.
12/6	4,112	Drilling, trip for bit, drilling w/Bit #5.
12/7	4,308	Drilling, trip for bit, drilling w/Bit #6.
12/8	4,431	Drilling.
12/9	4,670	Drilling.
12/10	4,860	Drilling.
12/11	5,042	Drilling.
12/12	5,220	Drilling.
12/13	5,415	Drilling, trip for bit, drilling w/Bit #7, trip for DST #1.
12/14	5,550	Run DST #1, drilling, TD 5,607' (DRLR) 8:20 p.m. 12/14/82.
12/15	5,607	Run E-logs.

MUD RECORD

MUDED UP AT 140' ON 11/25/82

1982 DATE	DEPTH	WT.	F.VIS	P.VIS	YIELD	GEL STRNT	PH	FILTR	CK.	ALKA	SALT	CHLO	CALCIUM	GYP/SAND	SOLID/%WTR.	CUMULATIVE COST
11/25	140	9.1	36	12	7	5/14	12	--	--	--	--	400	20	1/2%	5.3/4	\$ 902
11/26	1,175	9.3	36	7	6	4/10	9.0	--	2/32	--	--	400	80	1-1/2	7/4	1,555
11/27	No Report -----															
11/28	1,510	8.4	28	2	2	1/4	9.5	--	1/32	--	--	800	1200	--	.1	2,835
11/29	2,270	9.5	42	9	17	15/57	8.5	--	2/32	--	--	800	800	1/2	8	5,392
11/30	2,659	10.1	42	13	12	11/33	9.0	--	2/32	--	--	1400	440	3/4	9	10,090
12/1	3,048	10.8	40	8	21	10/40	7.5	--	3/32	--	--	8800	520	1	11	13,212
12/2	3,261	11.2	44	12	18	7/21	9.5	--	2/32	--	--	11,000	360	3/4	15	17,510
12/3	3,513	11.1	41	11	13	6/18	10.5	--	2/32	--	--	8000	160	1/2	13	20,758
12/4	3,785	11.2	39	12	14	6/29	10.5	--	2/32	--	--	5800	160	3/4	15	25,992
12/5	3,975	11.1	45	13	20	10/55	10.5	--	3/32	--	--	7000	--	1	15	29,758
12/6	4,195	11.2	38	12	13	11/52	11.0	--	2/32	--	--	7400	240	1/4	18	33,452
12/7	4,390	11.3	42	12	12	14/45	11.0	--	2/32	--	--	7400	120	1/4	17	39,993
12/8	4,510	10.8	37	13	12	4/22	10.5	--	2/32	--	--	8400	1-0	TR	13	42,267
12/9	4,756	11.1	45	22	18	4/27	10	--	2/32	--	--	10,000	160	TR	12	47,351
12/10	4,926	10.9	43	20	12	5/25	10	--	2/32	--	--	9600	160	1/4	11	50,600
12/11	5,096	10.9	44	21	14	6/27	10	--	2/32	--	--	10,800	120	1/4	13	54,073
12/12	5,300	11.1	45	20	16	5/32	11.5	12.0	2/32	3.0	--	10,700	160	1/4	13	57,764
12/13	5,480	11.3	39	16	12	4/18	10.5	11.4	2/32	1.6	--	9800	260	TR	13	62,300
12/14	5,604	11.2	44	18	15	5/18	10.5	12.4	2/32	1.8	--	10,600	240	1/4	14	66,449







DRILL STEM TEST #1

Formation: Desert Creek

Interval: 5,526' to 5,551'

Reason for Test: 375 unit gas kick, main objective pay zone for this well.

Type Test: Conventional on bottom

Testing Company: Halliburton

Water Cushion: None

IF 15 Minutes: Weak blow, 2 oz., died to 1 oz. in 15 minutes.

ISI 30 Minutes: Died immediately.

FF 90 Minutes: Weak blow 2", died in 75 minutes.

FSI 120 Minutes: --

Recovery: 40' slightly gas cut mud

Bottom Hole Sampler: Pressure - 55 psi  
Recovery - 2150 cc mud  
.2 cu. ft. gas

Resistivity Data: Drill Pipe Recovery:  
Top: 45 @ 64° 9,696 PPM Cl  
Middle: -- --  
Bottom: -- --  
Sampler: .155 @ 65° 31,515 PPM Cl  
Mud Pit: .64 @ 70° 5,757 PPM Cl

Pressures: Top Chart (5504) Bottom Chart (5548)

IH: 3271	IH: 3280
IF: 40 to 40	IF: 40 to 40
ISI: 107	ISI: 106
FF: 40 to 54	FF: 40 to 53
FSI: 2736	FSI: 2749
FH: 3257	FH: 3267

Top Choke: 1/8" Bottom Choke: 3/4"

Bottom Hole Temperature: 130°

SHOW REPORT & LOG ANALYSIS

INTERVAL	FORMATION	Rw	Rt	ØN	ØD	ØAVG	Sw%	TG	C1	C2	C3	iC4	nC4
5,391-92	Ismay Ø	.025	35.9	19%	2%	10.8%	24%	65u	30u	5u	2u	1u	
5,392-93	Ismay Ø	.025	38.96	20.1%	5.4%	12.9%	19.6%	65u	30u	5u	2u	1u	
5,393-94	Ismay Ø	.025	44.4	16.6%	5.4%	11.3%	20.9%	65u	30u	5u	2u	1u	
5,394-95	Ismay Ø	.025	49.03	15.1%	4.3%	10.1%	22%	65u	30u	5u	2u	1u	
5,395-96	Ismay Ø	.025	50.37	15.2%	4.7%	10.3%	21.6%	65u	30u	5u	2u	1u	
5,396-97	Ismay Ø	.025	54.31	16.8%	4.4%	10.9%	19.6%	65u	30u	5u	2u	1u	
5,397-98	Ismay Ø	.025	62.62	17.8%	5.8%	12.1%	16.5%	65u	30u	5u	2u	1u	
5,398-99	Ismay Ø	.025	80.0	25.4%	5.8%	15.7%	11.2%	65u	30u	5u	2u	1u	
5,538-39	Desert Creek	.025	1.9	15.6%	12.7%	8.8%	100%	375u	150u	35u	14u	3u	
5,539-40	Desert Creek	.025	1.3	28.6%	8.2%	18.7%	57%	375u	150u	35u	14u	3u	
5,540-41	Desert Creek	.025	1.1	24.2%	7.1%	15.7%	55%	375u	150u	35u	14u	3u	
5,541-42	Desert Creek	.025	1.3	23.2%	6.7%	15.0%	71%	375u	150u	35u	14u	3u	
5,542-43	Desert Creek	.025	1.8	22.5%	5.3%	14.0%	65%	375u	150u	35u	14u	3u	
5,543-44	Desert Creek	.025	2.8	20.2%	6.1%	13.2%	55%	375u	150u	35u	14u	3u	
5,544-45	Desert Creek	.025	4.0	21.6%	11.9%	16.8%	36%	375u	150u	35u	14u	3u	
5,545-46	Desert Creek	.025	4.6	17.9%	8.0%	13.1%	43%	375u	150u	35u	14u	3u	
5,546-47	Desert Creek	.025	5.3	19.4%	10.8%	15.2%	35%	375u	150u	35u	14u	3u	
5,547-48	Desert Creek	.025	6.5	18.6%	6.8%	12.8%	37%	375u	150u	35u	14u	3u	
5,548-49	Desert Creek	.025	7.0	10.5%	1.6%	6%	77%	375u	150u	35u	14u	3u	

LR<sup>6</sup>

5000

CALIPR

GAMMA  
RAY

10  
FT<sup>3</sup>  
V

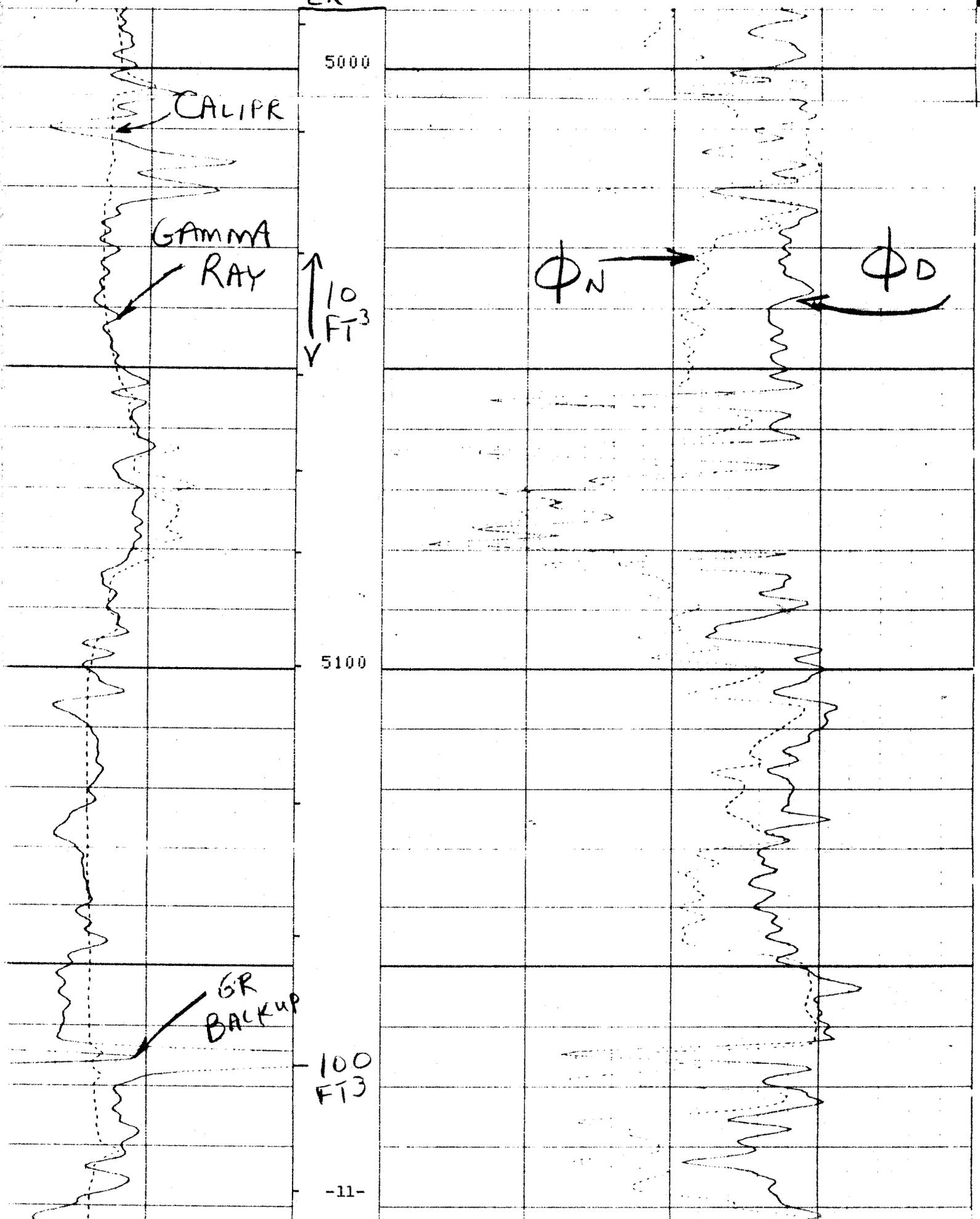
$\phi_N$

$\phi_D$

5100

GR  
BACKUP

100  
FT<sup>3</sup>



BACKUP

100 FT3

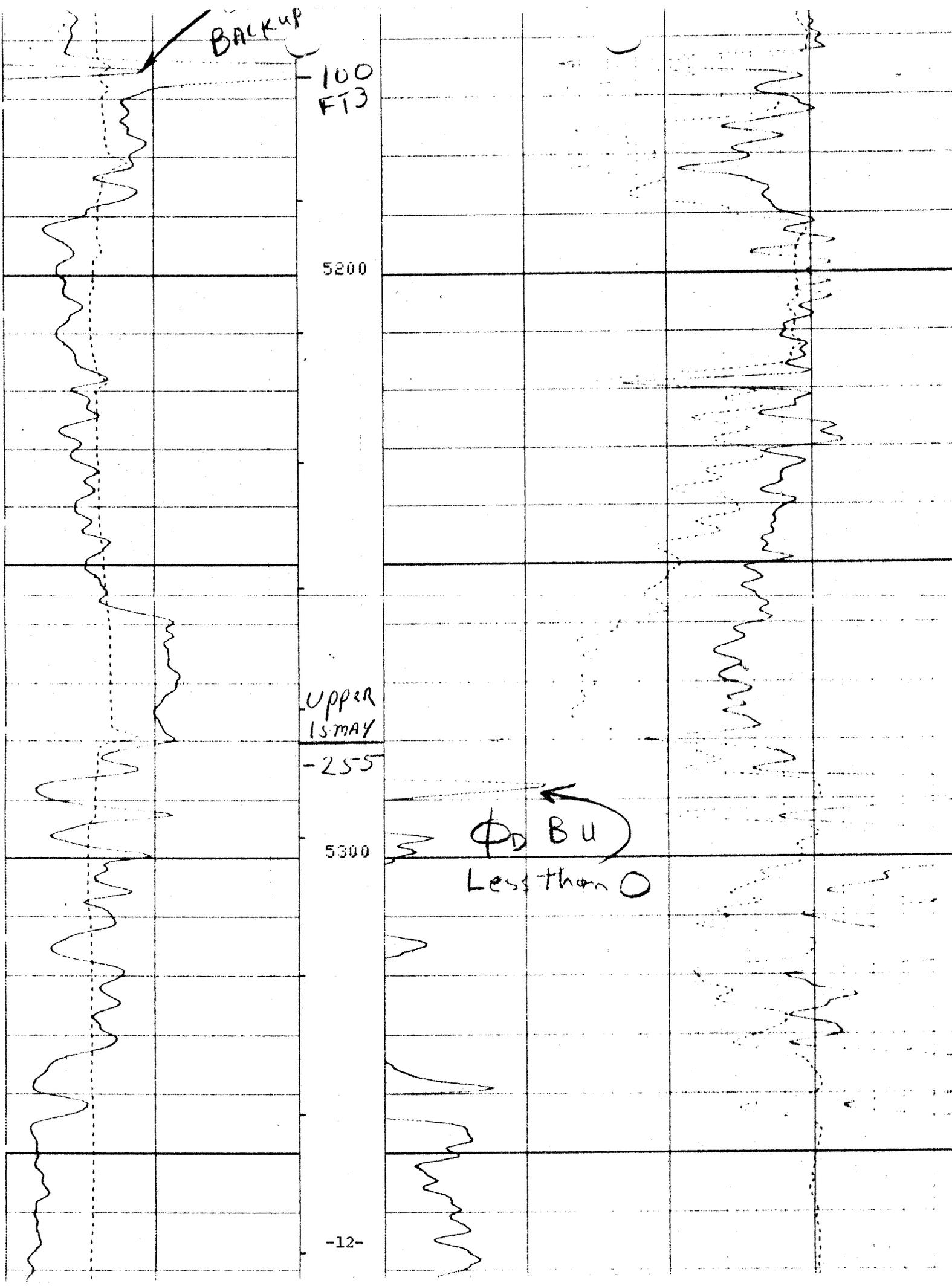
5200

UPPER  
ISMAY

-255

5300

$\phi_D$  BU  
Less than 0



UPPER  
15 MAY

-255

5300

$\phi_D$  BU

Less than 0

~~110~~  
FT 3  
367  
5400

~~15 MAY~~

DESERT  
CREEK

-442

5500

GAMMA  
RAY

Pay  
↑ -513  
10  
↓ FT<sup>3</sup>

GR BU

$\phi_N$

$\phi_D$

$\phi_N$   
BACKUP

CALIPER

FR GR  
-547  
FR  $\phi_N$

5600

FR  $\phi_D$ , CALI

TD  
5613

FILE

LITHOLOGY

4,000-4,010 SHALE - redbrn, gn, frm-sft, wxy, sl calc.  
4,010-4,020 SHALE - a/a.  
4,020-4,030 SHALE - rdbrn, gn, frm, wxy, sl calc.  
4,030-4,040 SHALE - a/a.  
4,040-4,050 SHALE - a/a.  
SILTSTONE - gybrn, sft, blk, sl calc, mic.  
4,050-4,060 SHALE, SILTSTONE - a/a.  
4,060-4,070 SHALE - rdbrn, occ gn, frm-sft, wxy, sl calc, mic.  
4,070-4,080 SHALE - rdbrn, gygn, frm-sft, blk, wxy, sl calc.  
4,080-4,090 SHALE - a/a.  
Tr LIMESTONE.  
4,090-4,100 SHALE - rdbrn, frm-sft, blk, sl calc.  
Tr LIMESTONE.  
4,100-4,110 SHALE - a/a.  
4,110-4,120 SHALE - a/a.  
LIMESTONE - gy-lav, micxln, hd, cln, p Ø.  
4,120-4,150 SHALE, LIMESTONE - a/a.  
4,150-4,180 SHALE - rdbrn, gn, frm, blk, sl calc.  
LIMESTONE - gy, lt gy, crm, micxln-vf grn, frm, sl aren,  
p Ø, NSFOC.  
4,180-4,210 SHALE - a/a.  
Tr LIMESTONE.  
4,210-4,240 SHALE - a/a.  
LIMESTONE - lt gy, gybrn, frm-sft, f xln, slty, v sdy, p Ø,  
NSFOC.  
4,240-4,270 SHALE, LIMESTONE - a/a.  
4,270-4,300 LIMESTONE - gy, gygn, vf-cryp xln, frm-hd, slty-sdy, tr fos,  
p Ø, NSFOC.  
4,300-4,330 LIMESTONE - crm, wh, crypxln-micxln, frm-hd, sl aren-cln, tr  
fos, p Ø, NSFOC.

LITHOLOGY (Cont.)

- 4,330-4,360 LIMESTONE - wh, crm, lt gy, micxln-crypXln, cln-sl aren  
tr fos, p Ø, NSFOC.
- 4,360-4,390 LIMESTONE - a/a.  
SHALE - rdbrn, gygn, frm, blkY, sl calc.
- 4,390-4,420 SHALE - rdbrn, gygn, frm, blkY, sl calc.
- 4,420-4,450 SHALE - rdbrn, gygn, frm, blkY, sl calc.  
LIMESTONE - gy, gybrn, crypXln, frm-hd, sl arg, p Ø.
- 4,450-4,480 SHALE - rdbrn, brn, frm, blkY, sl calc.  
SILTSTONE - brn, vfgr, w srt, sbang, v calc, NSFOC.  
LIMESTONE - tr.
- 4,480-4,510 SHALE - a/a.  
Tr LIMESTONE - gygn, lt gy, frm-hd, crypXln, p Ø, NSFOC.
- 4,510-4,540 SHALE - rdbrn, gy, frm, sl calc.  
Tr LIMESTONE.
- 4,540-4,570 SILTSTONE - gy, gybrn, dk gy, frm, v calc, abnt mic.
- 4,570-4,600 SHALE - gy, dk gy, frm, blkY, v calc.  
Tr LIMESTONE.
- 4,600-4,630 SHALE - a/a.  
SANDSTONE - wh, clr, lt tan, f gr, ang, m srt, calc cmt,  
f Ø, NSFOC.
- 4,630-4,660 LIMESTONE - gy, dk gy, vf-fxln, frm, sl arg, p Ø.
- 4,660-4,690 LIMESTONE - a/a.
- 4,690-4,720 LIMESTONE - dk gy, gy, occ wh, vfxln, frm-hd, arg, p Ø,  
NSFOC, tr ool.
- 4,720-4,750 LIMESTONE - a/a.  
SHALE - rdbrn, gygn, frm, blkY, sl calc.
- 4,750-4,780 LIMESTONE - lt gy, gy, wh, micxln-crypXln, frm-hd, sl arg,  
ool, p Ø, occ sdy, NSFOC.
- 4,780-4,810 LIMESTONE - a/a, tr fos.  
SANDSTONE - wh, lt gy, f-m, sbang-sbrd, m srt, calc cmt, NSFOC.
- 4,810-4,840 LIMESTONE - crm, wh, micxln-crypXln, frm-hd, v cln, p Ø, NSFOC.
- 4,840-4,870 LIMESTONE - a/a.  
SHALE - gy, dk gy, frm, blkY, calc.

LITHOLOGY (Cont.)

- 4,870-4,900 LIMESTONE - gy, lt gy, gybrn, frm-hd, mic-crypnl, arg,  
p Ø, NSFOC.
- 4,900-4,930 LIMESTONE - gy, dk gy, vfxln, frm-hd, arg-slty, p Ø, NSFOC.
- 4,930-4,960 LIMESTONE - lt gy, gy, crypnl-vfxln, frm-hd, sl arg, p Ø,  
tr fos, NSFOC.  
Tr SHALE.
- 4,960-4,990 LIMESTONE - gy, dk gy, occ wh, micxln, cln-sl arg, p Ø,  
NSFOC.  
SHALE - rdbrn, frm, blk, sl calc.
- 4,990-5,000 LIMESTONE - gy, gybrn, lt brn, wh, micxln, frm-hd, cln, tr  
fos, p Ø, NSFOC,  
Tr COAL.
- 5,000-5,010 LIMESTONE - wh, crm, crypnl, frm, v cln, tr ool, p Ø, NSFOC.  
Tr COAL.
- 5,010-5,020 LIMESTONE - wh, lt gy, gy, crypnl, frm-hd, cln, p Ø, NSFOC.
- 5,020-5,030 LIMESTONE - a/a.
- 5,030-5,040 LIMESTONE - gy, lt gy, crypnl, frm-hd, cln-sl arg.
- 5,040-5,050 LIMESTONE - wh, lt gy, gy, crypnl, frm, cln-arg, p Ø, NSFOC,  
tr fos.  
Tr SHALE.
- 5,050-5,060 SHALE - gygn, gy, rdbrn, frm-hd, blk, v calc.  
Tr LIMESTONE.
- 5,060-5,070 SHALE, LIMESTONE - a/a.
- 5,070-5,080 SHALE - gygn, lt gy, wh, rdbrn, frm-sft, blk, slty in pt,  
v calc.
- 5,080-5,090 LIMESTONE - gy, lt gy, wh, gygn, fxln, sdy in pt, cln, p Ø,  
NSFOC.
- 5,090-5,100 LIMESTONE - a/a.
- 5,100-5,110 LIMESTONE - crm, lt gy, micxln, frm-hd, cln-arg, p Ø, NSFOC.
- 5,110-5,120 LIMESTONE - a/a.  
Tr SHALE.
- 5,120-5,130 LIMESTONE - gy, lt gy, micxln, frm-hd, sl arg, slty, p Ø,  
NSFOC.

LITHOLOGY (Cont.)

- 5,130-5,140 SHALE - rdbrn, frm, blk, sl calc.  
LIMESTONE - lt brn, crm, micxln, frm-hd, cln-sl arg, p  $\emptyset$ , NSFOC.
- 5,140-5,150 LIMESTONE, SHALE - a/a.
- 5,150-5,160 LIMESTONE - lt gy, gy, crm, micxln, frm-hd, v cln, p  $\emptyset$ , NSFOC.
- 5,160-5,170 LIMESTONE - gy, gygn, crypxln, frm-hd, cln-sl arg, p  $\emptyset$ , NSFOC.  
SHALE - rdbrn, frm, blk, sl calc.
- 5,170-5,180 SHALE, LIMESTONE - a/a.
- 5,180-5,190 LIMESTONE - crm, lt brn, gybrn, micxln, frm-hd, cln, p  $\emptyset$ , NSFOC.
- 5,190-5,200 LIMESTONE - a/a.
- 5,200-5,210 LIMESTONE - a/a.
- 5,210-5,220 LIMESTONE - gy, gybrn, dk crm, micxln, frm-hd, cln, p  $\emptyset$ , NSFOC.
- 5,220-5,230 LIMESTONE - a/a.
- 5,230-5,240 LIMESTONE - dk gy, gybrn, micxln, frm-hd, cln-sl arg, p  $\emptyset$ ,  
NSFOC, tr ool.
- 5,240-5,250 SHALE - dk gy-blk, frm-hd, blk, v calc.  
Tr LIMESTONE.
- 5,250-5,260 SHALE - a/a.
- 5,260-5,270 SHALE - dk gy-blk, frm-hd, blk, v calc.
- 5,270-5,280 SHALE - a/a.
- 5,280-5,290 SHALE - blk, dk gy, hd, blk, calc, tr ANHY.
- 5,290-5,300 LIMESTONE - dk gy, gy, crypxln, frm-hd, arg, p  $\emptyset$ , NSFOC.  
SHALE - dk gy-blk, frm, blk, calc.  
Tr ANHYDRITE.
- 5,300-5,310 LIMESTONE - gybrn, dk brn, micxln, frm-hd, sl slty, p  $\emptyset$ , NSFOC.  
Tr ANHYDRITE.
- 5,310-5,320 LIMESTONE, SHALE - a/a.  
Tr ANHYDRITE.
- 5,320-5,330 LIMESTONE - gy, gybrn, crm, micxln, frm-hd, sl arg, p  $\emptyset$ , NSFOC.  
Tr ANHYDRITE.
- 5,330-5,340 LIMESTONE - a/a.  
Decreasing ANHYDRITE.

LITHOLOGY (Cont.)

- 5,340-5,350 SHALE - blk, dk gy, frm, calc, abnt ANHY.
- 5,350-5,360 ANHYDRITE.  
Tr SHALE.
- 5,360-5,370 SHALE - a/a.  
ANHYDRITE.
- 5,370-5,380 DOLOMITE - lt gy, gy, gybrn, vfxln, frm-hd, cln, p  $\emptyset$ , NSFOC.  
Tr SHALE.  
Tr ANHYDRITE.
- 5,380-5,390 SHALE - dk gy, gy, crypxln, frm, v arg, p  $\emptyset$ , NSFOC.  
LIMESTONE - dk gy, gy, crypxln, frm, v arg, p  $\emptyset$ , NSFOC.
- 5,390-5,400 LIMESTONE, SHALE - a/a.
- 5,400-5,410 LIMESTONE - gy, gybrn, tan, crypxln, frm-hd, arg, p  $\emptyset$ , NSFOC.
- 5,410-5,420 LIMESTONE - a/a.
- 5,420-5,430 DOLOMITE - lt gy, wh, frm, fxln, sl arg, p  $\emptyset$ , NSFOC.  
LIMESTONE - a/a.
- 5,430-5,440 LIMESTONE - lt gy, crm, crypxln, frm, sl arg, p  $\emptyset$ , NSFOC.  
Tr DOLOMITE.
- 5,440-5,450 LIMESTONE - a/a.
- 5,450-5,460 SHALE - blk, dk gy, frm-hd, blk, v calc.
- 5,460-5,470 LIMESTONE - lt gy, gy, crypxln, frm, sl arg-cln, sdy, p  $\emptyset$ , NSFOC.
- 5,470-5,480 LIMESTONE - gy, lt gy, crypxln-fxln, frm-hd, sl arg-cln, sdy in pt,  
p  $\emptyset$ , NSFOC.
- 5,480-5,490 SHALE - dk gy, blk, frm-hd, blk, calc.  
ANHYDRITE.  
Abnt cavings.
- 5,490-5,500 SHALE - dk gy, gy, gygn, frm, blk, calc, anhy, abnt cavings.
- 5,500-5,510 LIMESTONE - dk gy, gy, dk brn, micxln, frm-hd, sl arg, slty in  
pt, NSFOC.
- 5,510-5,515 LIMESTONE - gy, lt gy, dk gy, micxln-crypxln, frm, sl arg,  
sug in pt, p  $\emptyset$ , NSFOC.
- 5,515-5,520 LIMESTONE - a/a.
- 5,520-5,525 SHALE - gygn, gy, frm, blk, calc, abnt ANHY.  
LIMESTONE - gy, lt gy, crypxln, frm-hd, slty, p  $\emptyset$ , NSFOC.

LITHOLOGY (Cont.)

- 5,525-5,530 DOLOMITE - gy, gybrn, crypxln-micxln, frm, v arg-slty, p  $\emptyset$ , NSFOC.
- 5,530-5,535 DOLOMITE - lt gy, lt brn, micxln, frm-hd, sl arg, p  $\emptyset$ , NSFOC.
- 5,537 DOLOMITE - brn, gybrn, micxln, frm-hd, sl arg, p  $\emptyset$ , NSFOC, limy in pt.
- 5,535-5,540 DOLOMITE - lt brn, gybrn, micxln, frm, cln-sl arg, p  $\emptyset$ , vf vv fnt gn cut.
- 5,540-5,550 LIMESTONE - dk gy, gy, vfxln, v slty, frm, p  $\emptyset$ , NSFOC. SHALE.
- 5,550-5,560 SHALE - blk, frm, blk, sl calc.
- 5,560-5,570 SHALE - blk, frm-hd, blk, calc.
- 5,570-5,580 SHALE - gygn, blk, frm, blk, calc, tr LIMESTONE.
- 5,580-5,590 SHALE - a/a.  
LIMESTONE - dk brn, gybrn, crypxln, hd, slty in pt, p  $\emptyset$ , occ fnt gn flor, wk cut, p yl-gn stn.
- 5,590-5,600 SHALE, LIMESTONE - a/a.  
Tr ANHYDRITE.

7800 East Union Avenue  
Suite 1100  
Denver Technological Center  
Denver, Colorado 80237  
(303) 740-9000  
TWX 910-931-2667

JERRY CHAMBERS



EXPLORATION CO.

January 27, 1983

Bureau of Land Management  
2000 Administration Building  
1745 West 1700 South  
Salt Lake City, Utah 84104-3884

Re: Squaw Canyon Federal #16-18  
SESE Section 18-T38S-R26E  
San Juan County, Utah

Gentlemen:

Enclosed please find the original and two (2) copies of Form #9-331, Sundry Notices and Reports on Wells, covering the January operations for the above captioned well. Please note that operations on this well have been temporarily suspended.

If there are any questions, please contact our office.

Sincerely,

JERRY CHAMBERS EXPLORATION CO.

Barbara Laughlin  
Sr Drilling Tech

Encl.

cc: Neal Leafdale  
State of Utah

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO.  
U-17064

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Squaw Canyon Federal

9. WELL NO.  
16-18

10. FIELD AND POOL, OR WILDCAT  
Lower Desert Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 18-T38S-R26E

12. COUNTY OR PARISH  
San Juan

13. STATE  
Utah

**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  GAS WELL  OTHER

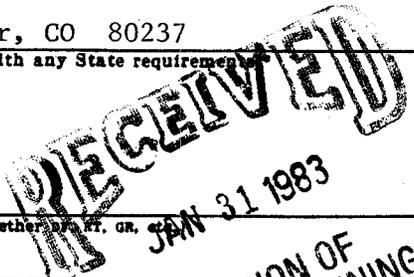
2. NAME OF OPERATOR  
Jerry Chambers Exploration Co.

3. ADDRESS OF OPERATOR  
7800 East Union Ave., Suite 1100, Denver, CO 80237

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface  
700' FSL, 770' FEL  
SESE Section 18

14. PERMIT NO.  
43-007-30784

15. ELEVATIONS (Show whether on FT. GR. or SURFACE)  
5015' GR



16. Check Appropriate Box To Indicate Nature of 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) <u>January Operations</u> <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.)\*

Moved in Pulling Unit, 12/27/82.

Ran Cement Bond Log, 100% bonding over proposed perforating interval, 12/29/82.

Perforated 5530'-34', 5538'-44', 2 SPF, 12/30/82. Acidized perforations with 500 gallons 15% HCL at 1 BPM, 5000 psi at end of job, 12/31/82. Swabbed well, recovered small amount drilling fluid. Performed 2nd small acid job with 500 gallons 28% HCL at average of 1.9 BPM at average surface pressure of 4500 psi. ISIP 4100 psi, 30 min 3500 psi, 1/3/83.

Swabbed and reperforated 5530'-34', 5538'-44', 2 SPF, 1/6/83. Acidized perforations with 2000 gallons 28% HCL at average of 2 BPM at 4500 psi. Swabbed well, recovered average 11 BFPD. Released swab unit, 1/25/83.

Temporarily suspending operations until Squaw Canyon Federal 10-19 has completed drilling.

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

SIGNED Barbara Laughlin TITLE Sr Drilling Tech DATE 1/27/83

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

**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 Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR  
Jerry Chambers Exploration Co.

3. ADDRESS OF OPERATOR  
7800 E. Union Ave., Suite 1100, Denver, CO 80237

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 700' FSL, 770' FEL  
AT TOP PROD. INTERVAL: SESE Section 18  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>
(other) Reclamation	<input type="checkbox"/>	<input type="checkbox"/>

5. LEASE  
U-17064

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Squaw Canyon Federal

9. WELL NO.  
16-18

10. FIELD OR WILDCAT NAME  
Lower Desert Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 18-T38S-R26E

12. COUNTY OR PARISH  
San Juan

13. STATE  
Utah

14. API NO.  
43-007-30784

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
5015' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)\*

On March 14, 1983, the following work was performed:

Toilet paper and feces have been buried;

The trash pit has been covered;

Disposal holes filled in;

Thread protectors hauled off;

Trash has been cleaned up on and around location and cleaned up cellar.

This well has been temporarily shut-in.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED Barbara Laughlin TITLE Sr Drilling Tech DATE March 16, 1983.

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

7800 East Union Avenue  
Suite 1100  
Denver Technological Center  
Denver, Colorado 80237  
(303) 740-9000  
TWX 910-931-2667

# JERRY CHAMBERS



EXPLORATION CO.

March 16, 1983

BLM - Oil and Gas  
2000 Administration Building  
1745 West 1700 South  
Salt Lake City, Utah 84104

Re: Squaw Canyon Federal #16-18  
Lease U-17064  
SESE Section 18-T38S-R26E  
San Juan County, Utah

Gentlemen:

Enclosed please find the original and two (2) copies of Form #9-331, covering the reclamation work which has been performed on the above captioned well.

If there are any questions or further requirements, please contact our office.

Sincerely,

JERRY CHAMBERS EXPLORATION CO.

Barbara Laughlin  
Sr Drilling Tech

Encl.

cc: Neal Leafdale  
BLM-Moab  
MMS-Durango  
✓ State of Utah

RECEIVED  
MAR 18 1983

DIVISION OF  
OIL, GAS & MINING



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Dr. G. A. (Jim) Shirazi, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

September 20, 1983

Jerry Chambers Exploration Company  
7800 East Union Avenue, Suite # 1100  
Denver, Colorado 80237

Re: Well No. Squaw Canyon Fed. # 16-18  
700' FSL, 770' FEL  
SE SE, Sec. 18, T. 38S, R. 26E.  
San Juan County, Utah

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

We will be happy to acknowledge receipt of response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the return. Such acknowledgement should avoid unnecessary mailing of a second notice from our agency.

Your prompt attention to the above will be greatly appreciated.

Respectfully,

DIVISION OF OIL, GAS AND MINING

A handwritten signature in cursive script that reads "Cari Furse".

Cari Furse  
Well Records Specialist

CF/cf  
Enclosure

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO.  
U-17064

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Squaw Canyon Federal

9. WELL NO.  
16-18

10. FIELD AND POOL, OR WILDCAT  
Lower Desert Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 18-T38S-R26E

12. COUNTY OR PARISH  
San Juan

13. STATE  
Utah

**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  GAS WELL  OTHER TA

2. NAME OF OPERATOR  
Jerry Chambers Exploration Co.

3. ADDRESS OF OPERATOR  
7800 E. Union Ave., Suite 1100, Denver, CO 80237

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface  
700' FSL, 770' FEL, SESE Section 18

14. PERMIT NO.  
43-007-30784

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
5015' GR

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) <u>Current Operations</u>	<input checked="" 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.)\*

Operations of the above well have been temporarily suspended due to lease problems.

An appeal has been filed with the Bureau of Land Management to reclaim the lease.



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

SIGNED Barbara Laughlin TITLE Senior Drilling Tech DATE September 27, 1983

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

7800 East Union Avenue  
Suite 1100  
Denver Technological Center  
Denver, Colorado 80237  
(303) 740-9000  
TWX 910-931-2667

# JERRY CHAMBERS



EXPLORATION CO.

September 27, 1983

**RECEIVED**  
SEP 30 1983

Cari Furse  
State of Utah  
Oil, Gas and Mining  
4241 State Office Building  
Salt Lake City, Utah 84114

DIVISION OF  
OIL, GAS & MINING

RE: Squaw Canyon Federal #16-18  
SES Section 18, T38S-R26E  
San Juan County, Utah

Dear Ms. Furse:

Enclosed please find the original and two (2) copies of Form OBC-1b, Sundry Notices and Reports on Wells, covering the current status of the above captioned well.

If further information is needed or if you have any questions, please do not hesitate to call.

Sincerely,

**JERRY CHAMBERS EXPLORATION CO.**

Barbara Laughlin  
Senior Drilling Tech

BL/cbp

STATE OF UTAH  
 DEPARTMENT OF NATURAL RESOURCES  
 DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO.  
 U-17064

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 Squaw Canyon Federal

9. WELL NO.  
 16-18

10. FIELD AND POOL, OR WILDCAT  
 Lower Desert Creek

11. SEC., T., R., M., OR BLK. AND  
 SURVEY OR AREA  
 Section 18-T38S-R26E

12. COUNTY OR PARISH  
 San Juan

13. STATE  
 Utah

**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  GAS WELL  OTHER TA

2. NAME OF OPERATOR  
 Jerry Chambers Exploration Co.

3. ADDRESS OF OPERATOR  
 7800 E. Union Ave., Suite 1100, Denver, Colorado 80237

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
 At surface  
 700' FSL, 770' FEL  
 SESE Section 18

14. PERMIT NO.  
 43-007-30784

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 5015' GR

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 checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <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.)\*

Due to expiration of the lease, we propose to plug and abandon the well as follows:

1. Set a cement retainer at 5,430'.
2. Squeeze below retainer with 25 sx of cement.
3. Freepoint the 5½" production casing in preparation to cut and retrieve. Top of cement (from CBL) is estimated to be 4,760'. Anticipate pulling casing from this depth.
4. Spot a 100 sx plug at the shoe of the 8 5/8" surface casing (at 1,510'), half-in and half-out.
5. Set a 10 sx surface plug.
6. Location will be cleaned and leveled. A regulation dry-hole marker will be installed.

**RECEIVED**

MAY 17 1984

DIVISION OF OIL  
 GAS & MINING

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

SIGNED James J. Ward TITLE Operations Supervisor DATE May 14, 1984  
 James J. Ward

(This space for Federal or State office use)

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

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

REVISED

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 type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER TA		5. LEASE DESIGNATION AND SERIAL NO. U-17064
2. NAME OF OPERATOR Jerry Chambers Exploration Co.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 7800 E. Union Ave., Suite 1100, Denver, Colorado 80237		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 700' FSL, 770' FEL SESE Section 18		8. FARM OR LEASE NAME Squaw Canyon Federal
14. PERMIT NO. 43-007-30784		9. WELL NO. 16-18
15. ELEVATIONS (Show whether DF, RT, or WT) 5015' GR		10. FIELD AND POOL, OR WILDCAT Lower Desert Creek
DIVISION OF OIL GAS & MINING		11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA Section 18-T38S-R26E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

RECEIVED

MAY 23 1984

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 checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <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.) \*

Due to expiration of the lease, we propose to plug and abandon the above well as follows:

- Set a cement plug to extend at least 50' above and 50' below the perforations at 5,530'-34' and 5,538'-44'.
- Perforate the 5 1/2" casing at 1,300', approximately 200' above the surface casing shoe at 1,510'.
- Squeeze through the perforations with at least 50 sx of cement.
- Set a plug to extend at least 50' above and 50' below the perforations at 1,300'.
- Set a surface plug of 25-30 sx cement.
- Cut off the casing 3 - 4 feet below the ground.
- Location will be cleaned and leveled. A regulation dry hole marker will be installed.

ACCEPTED  
APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 5/29/84  
BY: John R. Bura

per following condition:  
① Interval between plugs to be filled with heavy mud-jaden fluid.

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

SIGNED Brook J. Phifer TITLE Vice-President -Production DATE May 21, 1984

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

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO.

U-17064

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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  GAS WELL  OTHER Dry

RECEIVED

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR  
Jerry Chambers Exploration Co.

AUG 23 1984

8. FARM OR LEASE NAME  
Squaw Canyon Federal

3. ADDRESS OF OPERATOR  
7800 E. Union Ave., Suite 1100, Denver, Colorado 80237

9. WELL NO.  
16-18

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface  
700' FSL, 770' FEL SESE Section 18

DIVISION OF OIL  
GAS & MINING

10. FIELD AND POOL, OR WILDCAT  
Lower Desert Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 18-T38S-R26E

14. PERMIT NO.  
43-037-30784

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
5015' GR

12. COUNTY OR PARISH  
San Juan

18. STATE  
Utah

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF   
FRACTURE TREAT   
SHOOT OR ACIDIZE   
REPAIR WELL   
(Other)

PULL OR ALTER CASING   
MULTIPLE COMPLETE   
ABANDON\*   
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF   
FRACTURE TREATMENT   
SHOOTING OR ACIDIZING   
(Other)

REPAIRING WELL   
ALTERING CASING   
ABANDONMENT\*

(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.)

MIRU Workover Unit. Tripped in hole with 2 3/8" tubing. Found fill covering perforations by about 11'. Obtained verbal approval from BLM to set a retainer above the perforations, attempt to squeeze, and then set a 100' plug above the retainer. Set retainer at 5,448', but could not squeeze into perforations. Set a 20 sx plug on the retainer.

Displaced hole above cement plug with 11 ppg mud. Perforated 5 1/2" casing with 4 holes at 1320'. Ran in with cement retainer, but it stuck and accidentally set at 120'. Mixed and pumped 65 sx cement down tubing into the 5 1/2" casing displacing with 11 ppg mud. Upon pumping 6 bbls of slurry through the perforations, could not pump any more.

A 1" water and mud flow started coming out of the 5 1/2" x 8 5/8" casing annulus. Mixed and pumped 40 sx (300') of cement slurry down annulus. Set a 10 sx (93' plug at the surface of the 5 1/2". Cut off wellhead and installed dry hole marker, 8/2/84. Cleaned up location.

ACCEPTED  
APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 8/28/84  
BY: John R. Baya

RECEIVED  
SEP 7 1984  
DIVISION OF OIL  
GAS & MINING

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

SIGNED Barbara Laughlin  
Barbara Laughlin

TITLE Sr Drilling Tech

DATE August 20, 1984

(This space for Federal or State office use)

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

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

16

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

5

5. LEASE DESIGNATION AND SERIAL NO.  
U-17064

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Anasazi

8. FARM OR LEASE NAME

Squaw Canyon Federal

9. WELL NO.

16-18

10. FIELD AND POOL, OR WILDCAT  
~~Lower Desert Creek~~  
Undesignated

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

Section 18-T38S-R26E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other P&A

2. NAME OF OPERATOR  
Jerry Chambers Exploration Co.

3. ADDRESS OF OPERATOR  
7800 E. Union Ave., Suite 1100, Denver, Colorado 80237

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)  
At surface 700' FSL, 770' FEL SESE Section 18

At top prod. interval reported below  
N/A  
At total depth  
same

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GAS & MINING

14. PERMIT NO. 43-037-30784 DATE ISSUED 5/5/82

15. DATE SPUNDED 11/24/82 16. DATE T.D. REACHED 12/15/82. 17. DATE COMPL. (Ready to prod.) N/A 8-2-84 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 5015' GR 19. ELEV. CASINGHEAD -

20. TOTAL DEPTH, MD & TVD 5605' 21. PLUG, BACK T.D., MD & TVD - 22. IF MULTIPLE COMPL., HOW MANY\* - 23. INTERVALS DRILLED BY - ROTARY TOOLS 0'-5605' CABLE TOOLS -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* N/A 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN DLL-SFL, CNL-FDC, BHC-Sonic Sample 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
13 3/8"	48#	119'	17 1/2"	150 sx	-
8 5/8"	24#	1510'	12 1/4"	830 sx	-
5 1/2"	10.5#	5605'	7 7/8"	150 sx	-

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
None				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	5484'	5423'

31. PERFORATION RECORD (Interval, size and number)

5530'-5534' 2 SPF  
5538'-5544' 2 SPF

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5530'-5544'	500 gallons 15% HCL & 2000 gallons 28% HCL.

33.\* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
N/A	-	P&A					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
-	-	-	-	-	-	-	-
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
-	-	-	-	-	-	-	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY

35. LIST OF ATTACHMENTS

Form OGC-1b

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

SIGNED Barbara Laughlin

TITLE Senior Drilling Tech

DATE August 16, 1984

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 38, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s) and bottom(s) and name(s) (if any) for only the interval reported in item 38. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29:** "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

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.
Desert Creek	5526'	5550'	DST #1 Op 15, SI 30, Op 180, SI 180. Recovered 40' SGCM. Sampler recovered 2150 cc mud, .2 cfg @ 55#. IH 3271, IF 40-40, ISI 107, FF 40-54, FSI 2736, FH 3271.
38. GEOLOGIC MARKERS			
NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
Cutler Hermosa U. Ismay L. Ismay Gothic Shale Desert Creek Akah			2258' 4173' 5280' 5401' 5452' 5467' 5572'

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116

\*REPORT OF WATER ENCOUNTERED DURING DRILLING\*

Well Name & Number Squaw Canyon Federal 16-18  
Operator Jerry Chambers Exp. Co. Address 7800 E. Union Ave. Suite 1100 <sup>Denver, Colo.</sup>  
Contractor Brinkerhoff Drilling Co. Address Farmington N. Mexico  
Location SE 1/4 SE 1/4 Sec. 18 T: 38 S R: 26 E County San Juan Utah

Water Sands

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
From	To	Flow Rate or Head	Fresh or Salty
1.	<u>2210 - 2230</u>	<u>1" stream</u>	<u>salty</u>
2.	<u>2918 - 2930</u>	<u>1 1/2" stream</u>	<u>salty</u>
3.			
4.			
5.			

(Continue of reverse side if necessary)

Formation Tops

Remarks

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DIVISION OF  
OIL, GAS & MINING

NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.

(b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

**PERRY**  
**McDONALD**   
**CONSTRUCTION CO.**

P.O. BOX 1750 • CORTEZ, COLO. 81321 • PHONE (303) 565-3656

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Jerry Chambers - Axem Resources Inc.  
 800 Werner Court, Suite 154  
 Casper, WY 82601

STATEMENT No 1709

DATE October 29, 1984

LOCATION: SQUAW CANYON #16-18 & #10-19

DATE	DESCRIPTION	AMOUNT
10/03/84 10/25/84	Ticket #5380, 5593	
	Truck & Lowboy, 6 hrs. @ \$59.50 per hr. . . . .	\$ 357.00
	Pick-up, 7 hrs. @ \$17.50 per hr. . . . .	122.50
	John Deere W/Seeder, 7 hrs. @ \$42.50 per hr. . . . .	297.50
	T.T. Pick-up & Trailer, 4 hrs. @ \$27.50 per hr. . . . .	110.00
	Labor, 7 hrs. @ \$16.00 per hr. . . . .	112.00
	T.T.Operator, 4 hrs. @ \$17.50 per hr. . . . .	70.00
	Carhart Feed & Seed, Ticket #64802 . . . . .	206.64
	TOTAL DUE	<u>\$1,275.64</u>

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AXEM - CASPER

**PAYMENT APPROVED**

NEAL LEAFDALE *MLL*

DATE 11-1-84 CODE P+A

*RESTORATION*

*gaw 11/6*

PLEASE REMIT TO: PERRY McDONALD CONSTRUCTION COMPANY  
 C/O RAY L. ATCHISON CONSTRUCTION COMPANY, INC.  
 P.O. DRAWER 28  
 FARMINGTON, NEW MEXICO 87499

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

**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 type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Dry		5. LEASE DESIGNATION AND SERIAL NO. U-17064
2. NAME OF OPERATOR Jerry Chambers Exploration Co.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 7800 E. Union Ave., Suite 1100, Denver, Colorado 80237		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 770' FSL, 770' FEL SESE Section 18		8. FARM OR LEASE NAME Squaw Canyon Federal
14. PERMIT NO. 43-037-30784	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5015' GR	9. WELL NO. 16-18
		10. FIELD AND POOL, OR WILDCAT Lower Desert Creek
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 18-T38S-R26E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

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 checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Reclamation</u>	<input checked="" 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.)\*

During period of 10/11/84 to 10/17/84 the above location was cleaned and leveled and reseeded.

Well was plugged and abandoned 8/2/84.

Location is ready for inspection.

**ACCEPTED**  
APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 11/19/84  
BY: John R. Bays

Federal approval of this action is required before commencing operations.

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

SIGNED B. Laughlin TITLE Sr Drilling Tech DATE November 12, 1984  
Barbara Laughlin

(This space for Federal or State office use)

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