

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

JERRY CHAMBERS



EXPLORATION CO.

April 20, 1982

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

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

Gentlemen:

Enclosed please find copies of the Application For Permit to Drill, staking plats and road maps for the above referenced wells.

If anything further is required at this time, please notify this office.

Sincerely,

JERRY CHAMBERS EXPLORATION CO.

Barbara Laughlin
Senior Drilling Assistant

Encl.

cc: Neal Leafdale

RECEIVED
APR 22 1982

DIVISION OF
OIL, GAS & MINING

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface 1830' FSL 2130 FEL
 At proposed prod. zone *NWSE*

5. LEASE DESIGNATION AND SERIAL NO.
 U-40406

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 ANASAZI

7. UNIT AGREEMENT NAME
 Squaw Canyon Federal

8. FARM OR LEASE NAME
 Sec. 19, T38S, R26E

9. WELL NO.
 10-19

10. FIELD AND POOL, OR WILDCAT
~~Lower Desert Sand~~

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

12. COUNTY OR PARISH
 San Juan

13. STATE
 Utah

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
 5765' *Desert Creek*

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 4980' GR

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

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.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 3/25/82
BY: [Signature]

RECEIVED
APR 22 1982

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 Operations Supervisor DATE March 29, 1982

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

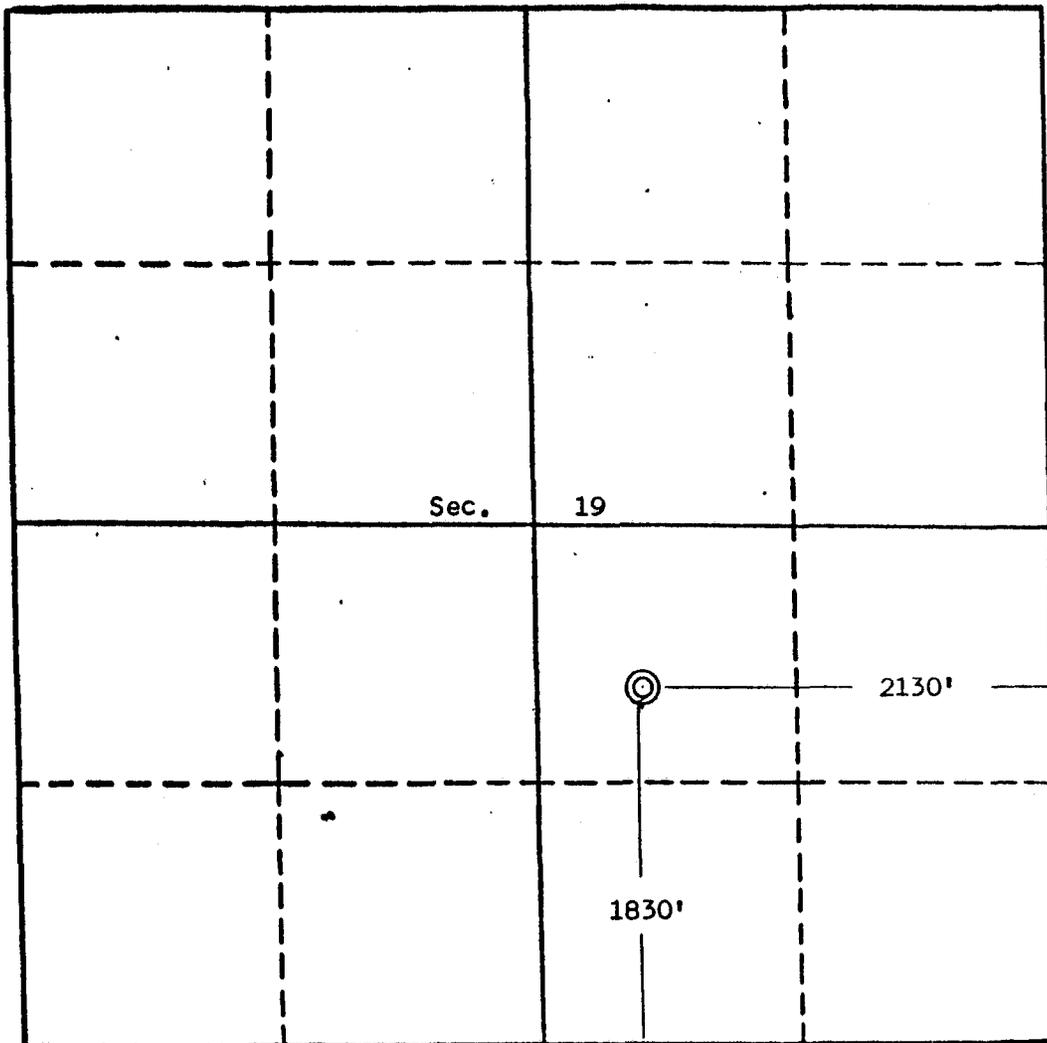
Company Jerry Chambers Exploration Company

Well Name & No. Squaw Canyon 10-19

Location 1830 F/SL 2130 F/EL

Sec. 19, T. 38 S., R. 26 E., S. L. M., County San Juan, Utah

Ground Elevation 4980



Scale, 1 inch = 1,000 feet

Surveyed _____ March 8, 19 82

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)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(Other instructions on reverse side)
MINERALS MANAGEMENT SERVICE
OIL & GAS OPERATIONS RECEIVED

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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 At surface 1830' FSL 2130 FEL
 At proposed prod. zone

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21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 4980' GR

5. LEASE DESIGNATION AND SERIAL NO.
 U-40406
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 7. UNIT AGREEMENT NAME
 8. FARM OR LEASE NAME
 Squaw Canyon Federal
 9. WELL NO.
 10-19
 10. FIELD AND POOL, OR WILDCAT
 Lower Desert Sand
 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 NW, SE
 Sec. 19, T38S, R26E
 12. COUNTY OR PARISH
 San Juan
 13. STATE
 Utah

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

17. NO. OF ACRES ASSIGNED TO THIS WELL
 160

20. ROTARY OR CABLE TOOLS
 Rotary

22. APPROX. DATE WORK WILL START*
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PROPOSED CASING AND CEMENTING PROGRAM

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24. SIGNED James J. Ward TITLE Operations Supervisor DATE March 29, 1982

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ FOR E. W. GUYNN
 TITLE DISTRICT OIL & GAS SUPERVISOR DATE _____

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 11/80

8 state O/G

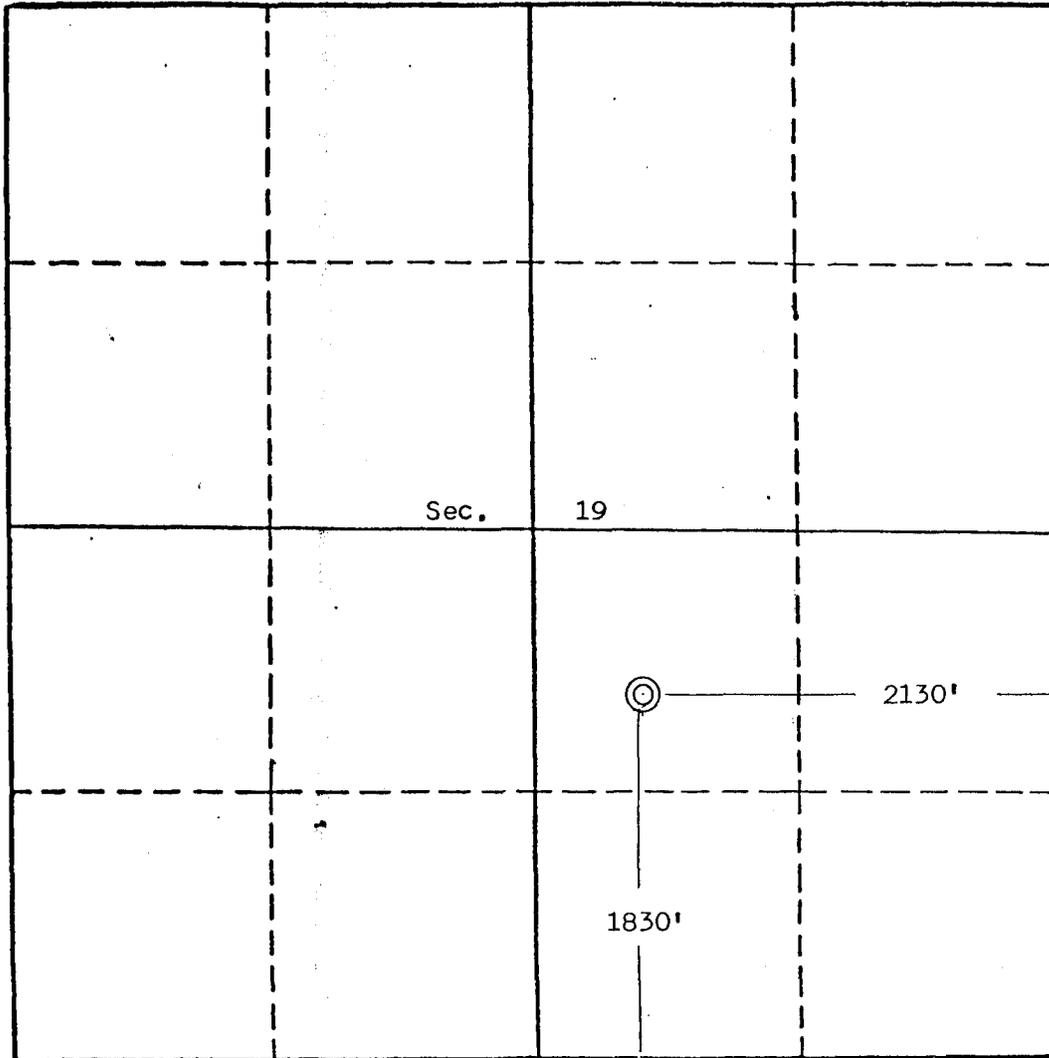
Company Jerry Chambers Exploration Company

Well Name & No. Squaw Canyon 10-19

Location 1830 F/SL 2130 F/EL

Sec. 19, T. 38 S., R. 26 E., S. L. M., County San Juan, Utah

Ground Elevation 4980



Scale, 1 inch = 1,000 feet

Surveyed March 8, 19 82

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
SQUAW CANYON FEDERAL #10-19
1830' FSL, 2130' FEL, SECTION 19, T38S, R26E
SAN JUAN COUNTY, UTAH

10 POINTS OPERATION PLAN

1. Location: NWSE Section 19, T38S, R26E
Field: Lower Desert Creek
Elevation: 4980' GR

2. Geology

- A. Formation Tops:

Entrada	565'
Carmel	695'
Navajo	715'
Kayenta	955'
Wingate	1120'
Chinle	1465'
Shinarump	2265'
Cutler	2415'
Honaker Trail	4215'
Paradox	5165'
Upper Ismay	5315'
Lower Ismay	5515'
Desert Creek	5565'
TD	5765'

- 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 measurable quantities.

4. The Proposed Casing Program (all new)

A. Casing Program:	Hole Size	Depth	Casing Size	Wt & Grade
	17½"	100'	13 3/8"	48# H-40
	12½"	1400'	8 5/8"	24# J-55
	7 7/8"	5765'	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 accommodate 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:

Depth	Size	Series	Type	Rams
1400-5765'	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:

Depth	Type	Weight	Viscosity	Fluid Loss
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

Jerry Chambers Exploration Company
Well No. 10-19
Section 19-T38S-R26E
San Juan County, Utah
Lease No. U-40406

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 <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. U-40406	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Jerry Chambers Exploration Company			7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 7800 E. Union Ave, Suite 1100 Denver, Colorado 80237			8. FARM OR LEASE NAME Squaw Canyon Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1830' FSL 2130 FEL At proposed prod. zone			9. WELL NO. 10-19	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 24 miles S/SE Aneth, Utah			10. FIELD AND POOL, OR WILDCAT Lower Desert Sand	
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21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4980' GR			22. APPROX. DATE WORK WILL START* June 1, 1982	
23. PROPOSED CASING AND CEMENTING PROGRAM				

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We propose to drill this well to test the Lower Desert Creek Formation. Should it be productive, a string of 4½" 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 Operations Supervisor DATE March 29, 1982

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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 on 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.

JERRY CHAMBERS EXPLORATION COMPANY
SQUAW CANYON FEDERAL 10-19
1830' FSL, 2130' FEL, SEC. 19, 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 $1\frac{1}{2}$ 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 miles 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- $\frac{1}{4}$ mile to the N and 3/4 mi to the SW |
| 7) Shut-In wells | 0 |
| 8) Injection wells | 0 |
| 9) Monitoring wells | 0 |

IV. Location of Existing and or Porposed 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 reseedling. 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

4159 II
(BLANDING)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

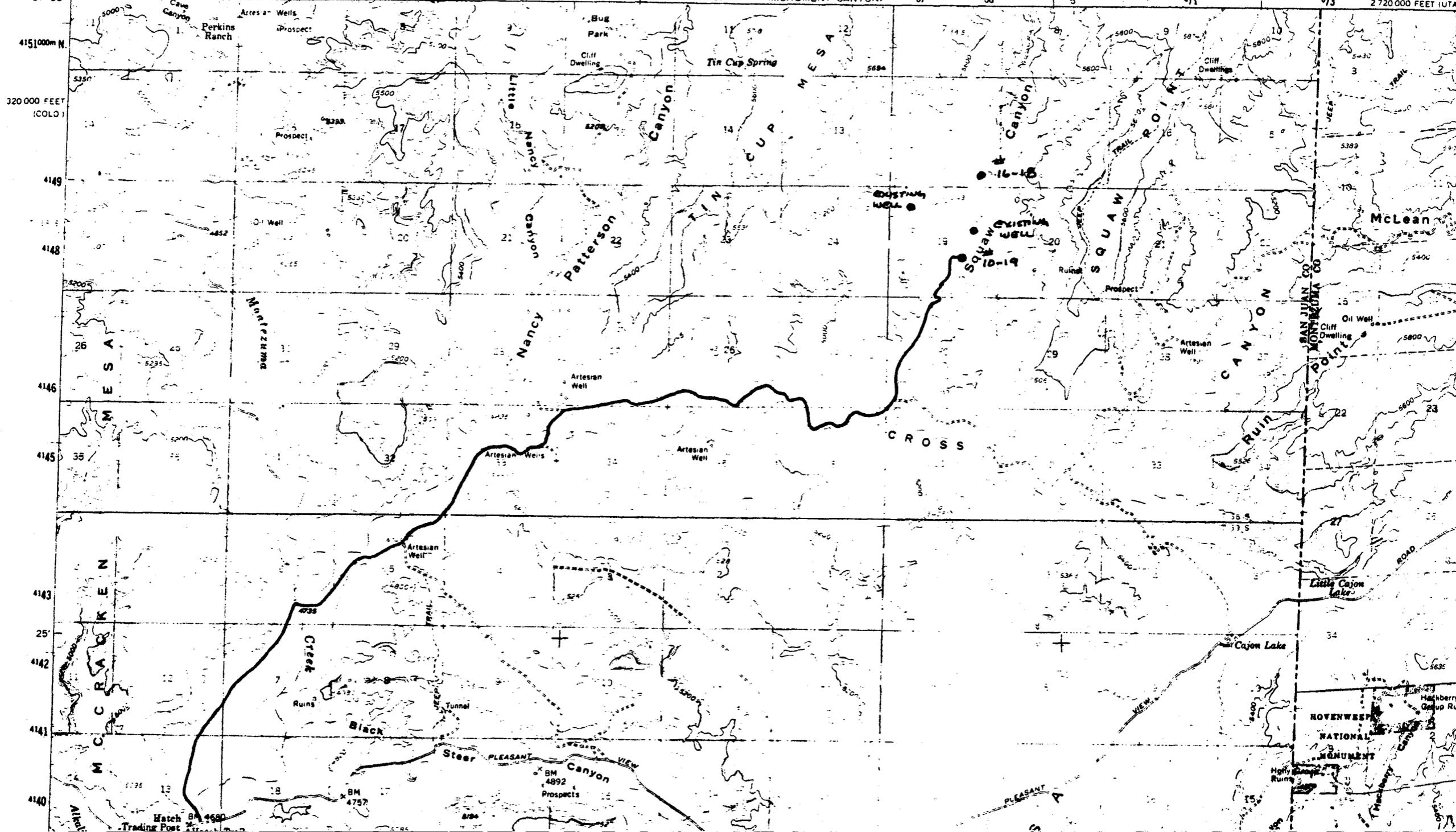
UNITED STATES
ATOMIC ENERGY COMMISSION

CAJON MESA

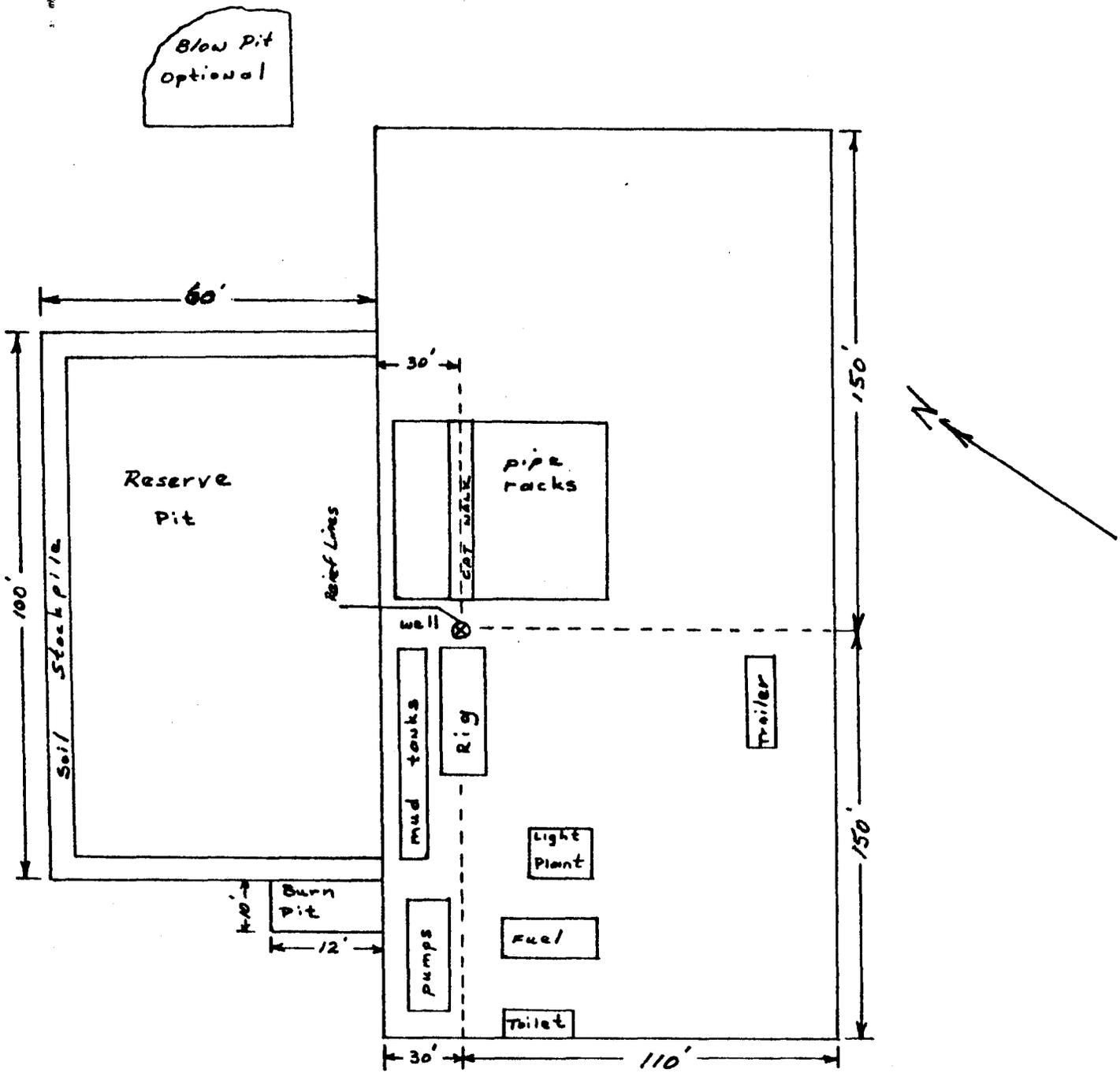
UTAH-C

15 MINUTE SERI

109° 15' 655000m E. 920000 FEET (COLO) 659 661 10' 664 4159 II (MONUMENT CANYON) 667 668 5' 671 673 2720000 FEET (UTA

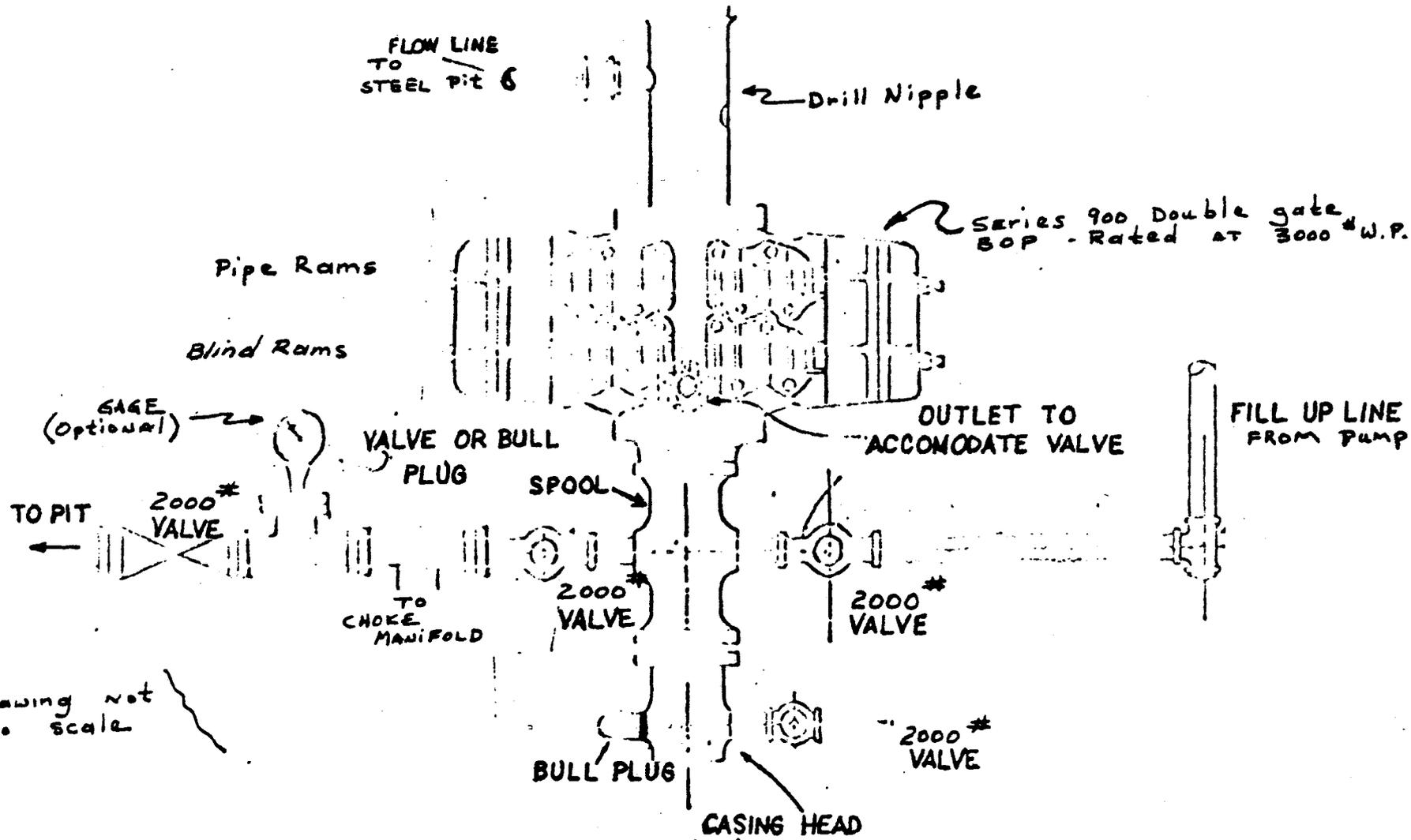


JERRY CHAMBERS Exploration Company
Squaw Canyon FED. #10-19
NWSE SEC. 19, T38S, R26E
SAN JUAN COUNTY
UTAH



Drillsite Layout

Typical BOP Installation



Drawing not to scale

JERRY CHAMBERS Exploration Company
SNAW CANYON FED. #10-19
NWSE SEC. 19, T38S, R26E
SAN JUAN Co. UTAH



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. 10-19 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. 10-19 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. 10-19 well pad and access road. The proposed location of the well pad is 1830 feet FSL and 2130 feet FEL in the NW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 19, Township 38 South, Range 26 East, New Mexico Principal Meridian, San Juan County, Utah (see attached map). The proposed access route is approximately 50 feet long and will cross portions of the NW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 19 (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 the canyon slopes west of the flood plain of Squaw Canyon. Vegetation on the pad location is plains-prairie community with pinyon-juniper association including fourwing saltbush, snakeweed, wolfberry, sparse greasewood, indian ricegrass, and various annual grasses. Sparse pinyon-juniper forest borders the well pad on the north and west. Soils are sandy clay.

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.

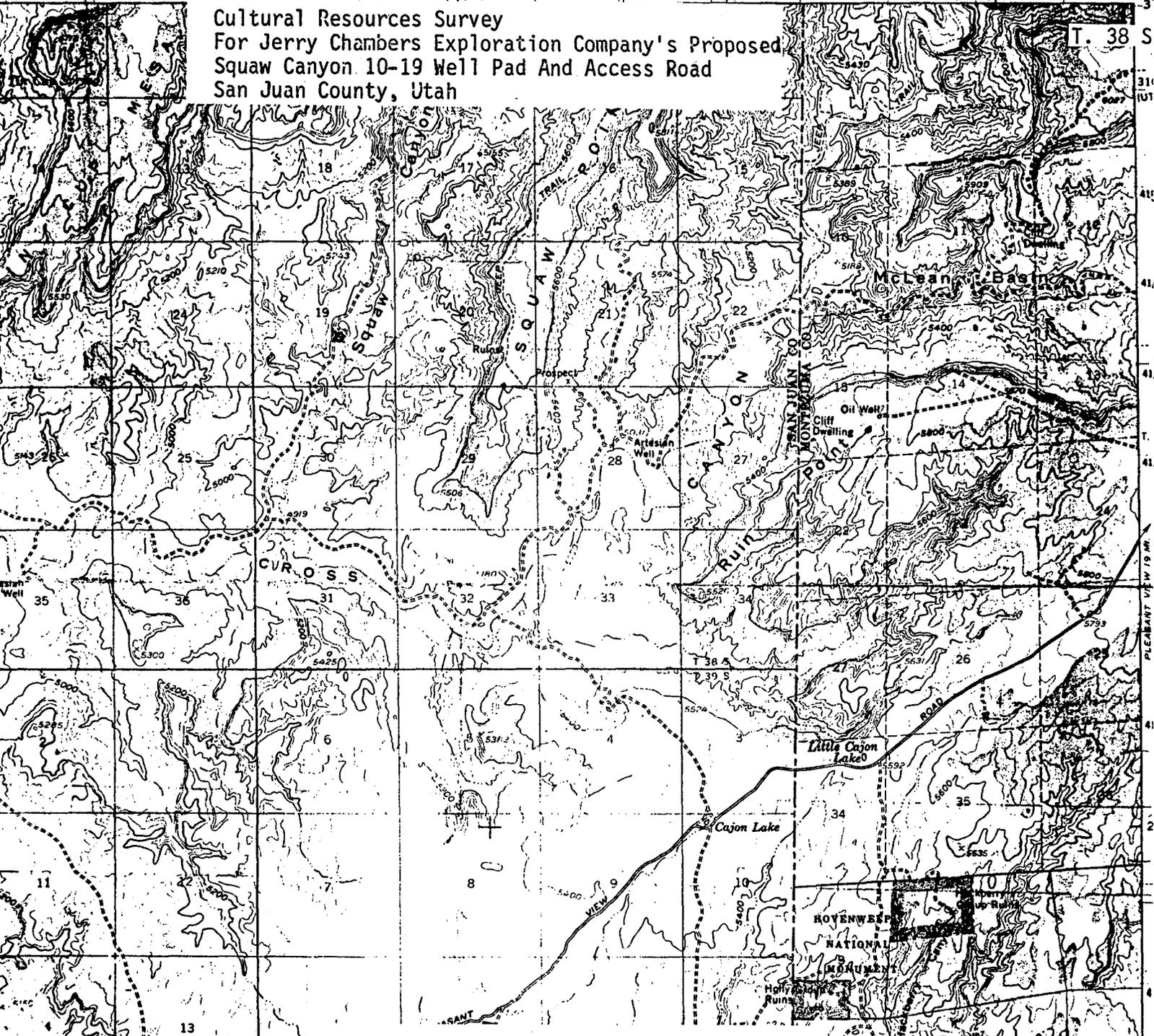
UNITED STATES
ATOMIC ENERGY COMMISSION

CAJON MESA QUADRANGLE
UTAH-COLORADO
15 MINUTE SERIES (TOPOGRAPHIC)

159 II (MONUMENT CANYON) 67 68 5' R 26 E 71 73 272000 FEET (UTAH) R 20 W 76 109° 00'

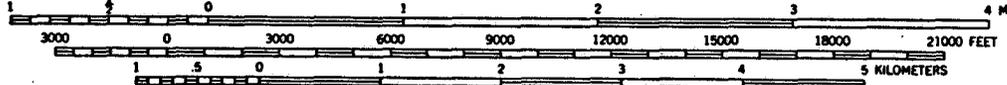
Cultural Resources Survey
For Jerry Chambers Exploration Company's Proposed
Squaw Canyon 10-19 Well Pad And Access Road
San Juan County, Utah

T. 38 S

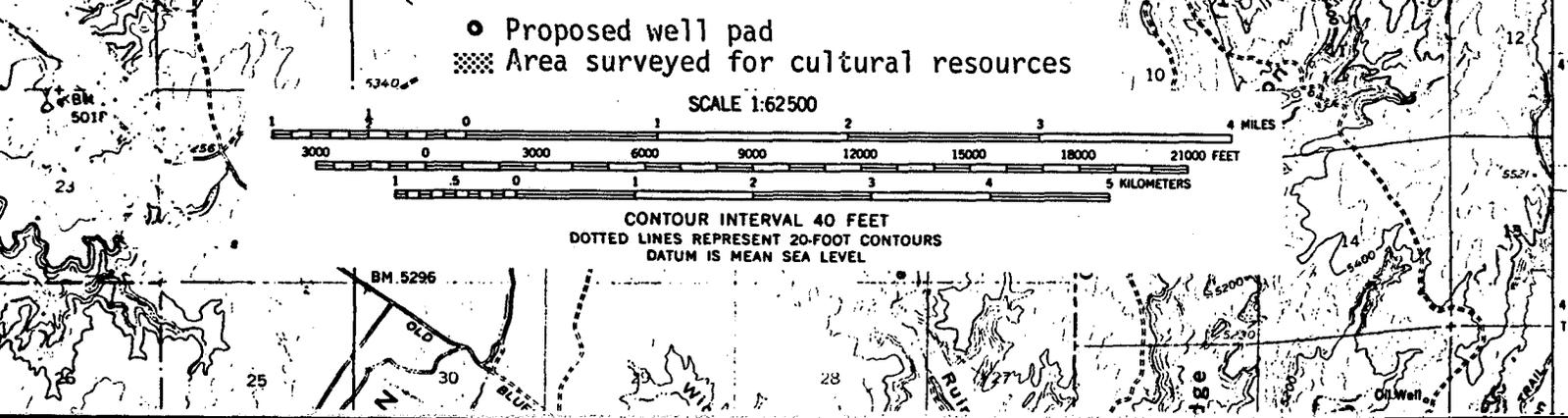


● Proposed well pad
▨ Area surveyed for cultural resources

SCALE 1:62500



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



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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. <u>U-40406</u>	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR <u>Jerry Chambers Exploration Company</u>		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR <u>7800 E. Union Ave, Suite 1100 Denver, Colorado 80237</u>		8. FARM OR LEASE NAME <u>Squaw Canyon Federal</u>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface <u>1830' FSL 2130 FEL</u> At proposed prod. zone		9. WELL NO. <u>10-19</u>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <u>24 miles S/SE Aneth, Utah</u>		10. FIELD AND POOL, OR WILDCAT <u>Lower Desert Sand</u>	
10. 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 <u>320</u>	17. NO. OF ACRES ASSIGNED TO THIS WELL <u>160</u>	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	19. PROPOSED DEPTH <u>5765'</u>	20. ROTARY OR CABLE TOOLS <u>Rotary</u>	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) <u>4980' GR</u>		22. APPROX. DATE WORK WILL START* <u>June 1, 1982</u>	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17½"	13 3/8"	48#	100'	125 sx Class "B"
12½"	8 5/8"	24#	1,400'	700 sx Lite + 200 sx "B"
7 7/8"	4½"	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 4½" 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 Operations Supervisor DATE March 29, 1982

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

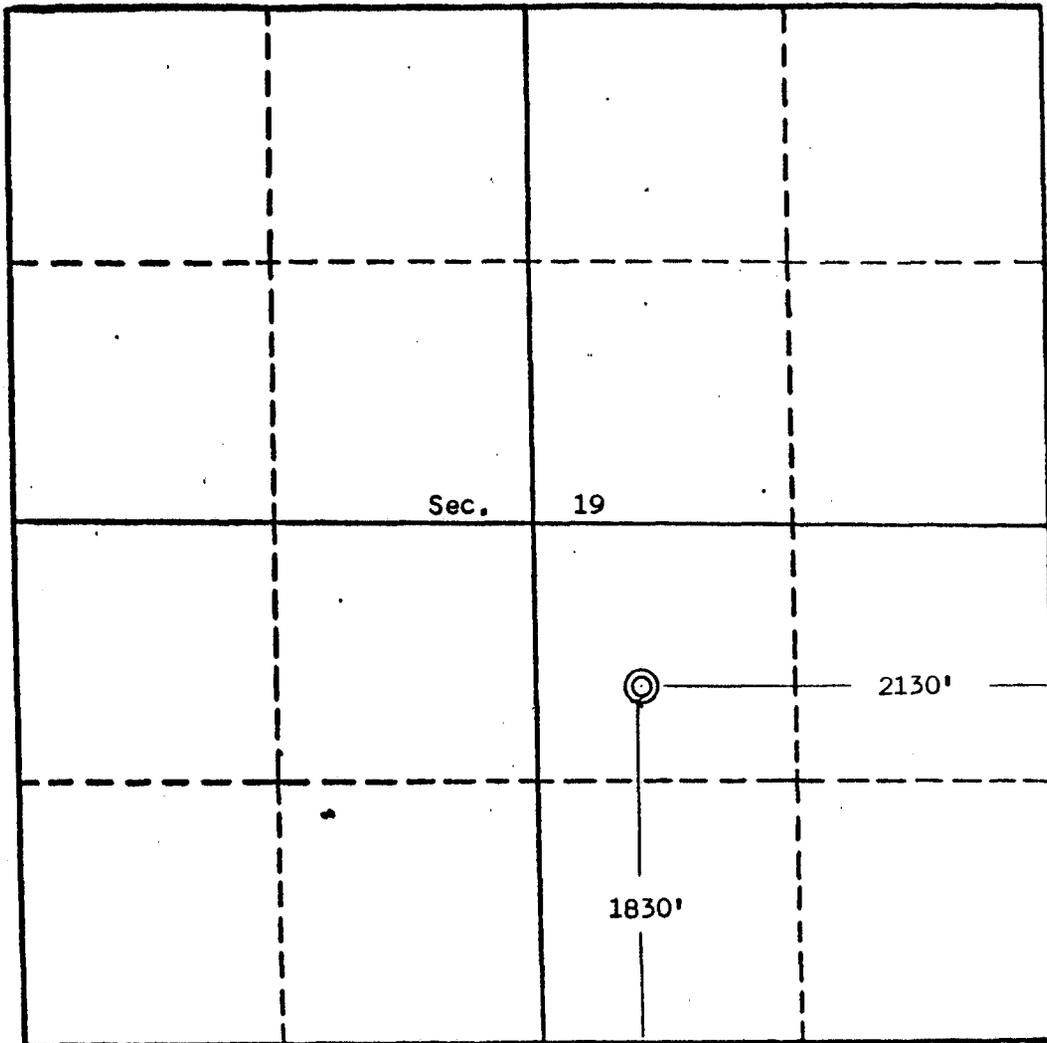
Company Jerry Chambers Exploration Company

Well Name & No. Squaw Canyon 10-19

Location 1830 F/SL 2130 F/EL

Sec. 19, T. 38 S., R. 26 E., S. L. M., County San Juan, Utah

Ground Elevation 4980



Scale, 1 inch = 1,000 feet

Surveyed March 8, 19 82

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)

** FILE NOTATIONS **

DATE: 4-29-82

OPERATOR: Jerry Chambers Exploration Co.

WELL NO: Squaw Canyon Federal 10-19

Location: Sec. 19 T. 38S R. 26E County: San Juan

File Prepared:

Entered on N.I.D:

Card Indexed:

Completion Sheet:

API Number 43-037-30785

CHECKED BY:

Petroleum Engineer: _____

Director: _____

Administrative Aide: R. best per 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

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 #10-19
Sec. 19, 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

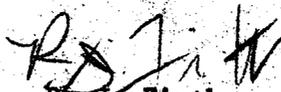
Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

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 43-037-30785.

Sincerely,

DIVISION OF OIL, GAS AND MINING



R. J. Firth
Chief Petroleum Engineer

RJF/as
Encl.
cc: Minerals Management Service

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: Jerry Chambers

WELL NAME: Squaw Canyon Federal 10-19

SECTION NWSE 19 TOWNSHIP 38S RANGE 26E COUNTY San Juan

DRILLING CONTRACTOR Brinkerhoff Signal

RIG # 32

SPUDDED: DATE 1-4-83

TIME 11:00 AM

How Rotary

DRILLING WILL COMMENCE _____

REPORTED BY Barbara Loffland

TELEPHONE # 303-740-9000

DATE 1-5-83 SIGNED CF

NOTICE OF SPUD

Company: Jerry Chambers
Caller: Barbara
Phone: 303-740-9000

Well Number: 10-19

Location: NWSE 19-38S-26E

County: San Juan State: NM

Lease Number: U-40406

Lease Expiration Date: _____

Unit Name (If Applicable): _____

Date & Time Spudded: 11:00 AM 1-4-83

Dry Hole Spudder/Rotary: _____

Details of Spud (Hole, Casing, Cement, etc.) _____

Rotary Rig Name & Number: Brenkerhoff #32

Approximate Date Rotary Moves In: _____

FOLLOW WITH SUNDRY NOTICE

Call Received By: Ms Lois

Date: 1-5-83

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

JERRY CHAMBERS



EXPLORATION CO.

January 24, 1983

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

Re: U-40406
Squaw Canyon Federal #10-19
NWSE Section 19-T38S-R26E
San Juan County, Utah

Gentlemen:

Enclosed please find the original and two (2) copies of Form #9-331, covering the reporting of spud, running of casing and rig change for the above captioned well.

If there are any questions, please advise our office.

Sincerely,

JERRY CHAMBERS EXPLORATION CO.

Barbara Laughlin
Sr Drilling Tech

Encl.

cc: State of Utah
Neal Leafdale

RECEIVED
JAN 27 1983

DIVISION OF
OIL, GAS & MINING

m

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 type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-40406
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, CO 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 1830' FSL, 2130' FEL NWSE Section 19		8. FARM OR LEASE NAME Squaw Canyon Federal
14. PERMIT NO. 49-037-30785	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4980' GR	9. WELL NO. 10-19
		10. FIELD AND POOL, OR WILDCAT Lower Desert Sand
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 19-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 type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) Report of Spud, Casing & Rig Change	
(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.)

Spud well at 11:00 AM, 1/4/83.

Set 8 5/8" casing at 1520' GL and demented with 800 sx, 1/7/83.

Drilled to 5255', set 5 1/2" casing at 5246' GL and cemented with 100 sx. Released rig (Brinkerhoff-Signal #32) at 6:00 AM, 1/23/83.

Present operations as of 7:00 AM, 1/24/83, cleaning location and moving in Action Well Service #4. Will drill to total depth and proceed with completion operations.

RECEIVED
JAN 27 1983

DIVISION OF
OIL, GAS & MINING

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

SIGNED Barbara Laughlin

TITLE Senior Drilling Tech

DATE 1/24/83

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS REPORT

FOR

JERRY CHAMBERS EXPLORATION CO.

SQUAW CANYON FEDERAL 10-19
SQUAW CANYON
SAN JUAN, UTAH

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FEB 14 1983

DIVISION OF
OIL GAS & MINING

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering

DALLAS, TEXAS

JERRY CHAMBERS EXPLORATION CO.	DATE ON	: 31-JAN-83	OFF: 08-FEB-83	FILE NO	: RP-3-003251
SQUAW CANYON FEDERAL 10-19	FORMATION	: DESERT CREEK		LABORATORY:	FARMINGTON
SQUAW CANYON	DRLG. FLUID:	WBM		ANALYSTS	: GG;DS
SAN JUAN, UTAH	LOCATION	: NW,SE SEC.19-38S-26E		ELEVATION	: 4980 GL

CONVENTIONAL PLUG ANALYSIS

SAMPLE NUMBER	DEPTH FEET	PERM MD MAX K _a	FLD POR	OIL% PORE	WTR% PORE	DESCRIPTION
	5540.0-53.0					LIMESTONE - NO ANALYSIS
	5553.0-54.0					LM/SHL - NO ANALYSIS
	5554.0-62.0					LIMESTONE - NO ANALYSIS
	5562.0-66.0					ANHYDRITE - NO ANALYSIS
1	5566.0-67.0	<0.01	4.2	0.0	85.6	ANHY GRY VFXLN DOL
2	5567.0-68.0	0.02	14.0	0.7	71.5	DOL BRN VFXLN
3	5568.0-69.0	0.01	10.3	4.9	68.9	DOL BRN VFXLN
4	5569.0-70.0	0.01	12.0	6.7	55.4	DOL BRN VFXLN
5	5570.0-71.0	0.32	14.7	21.5	36.3	DOL BRN VFXLN
6	5571.0-72.0	0.13	10.7	6.7	43.7	DOL BRN VFXLN
7	5572.0-73.0	0.06	8.3	8.6	49.3	DOL BRN VFXLN OVF
8	5573.0-74.0	<0.01	10.0	1.0	72.0	DOL BRN/GRY VFXLN CALC
9	5574.0-75.0	<0.01	5.0	2.1	79.9	LM GRY VFXLN
10	5575.0-76.0	<0.01	4.3	4.9	73.2	LM GRY VFXLN
11	5576.0-77.0	<0.01	3.0	3.6	64.2	LM GRY VFXLN
12	5577.0-78.0	<0.01	1.4	0.0	60.7	LM GRY VFXLN
13	5578.0-79.0	<0.01	2.9	0.0	66.4	LM GRY VFXLN
14	5579.0-80.0	<0.01	2.6	0.0	73.7	LM GRY VFXLN
15	5580.0-81.0	<0.01	2.3	0.0	66.3	LM GRY VFXLN
16	5581.0-82.0	<0.01	2.9	3.7	66.7	LM GRY VFXLN
17	5582.0-83.0	<0.01	2.4	9.0	63.1	LM GRY VFXLN

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

PAGE 2 OF

JERRY CHAMBERS EXPLORATION CO. DATE ON : 31-JAN-83 OFF: 08-FEB-83 FILE NO : RP-3-003251
SQUAW CANYON FEDERAL 10-19 FORMATION : DESERT CREEK LABORATORY: FARMINGTON

CONVENTIONAL PLUG ANALYSIS

INTERVAL 5566.0-5583.0 ESSENTIALLY NON-PRODUCTIVE - MAY HAVE THIN GAS
ZONE WHERE PERMEABLE

OVF = OPEN VERTICAL FRACTURE

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

JERRY CHAMBERS EXPLORATION CO. DATE : 1-31-83
SQUAW CANYON FEDERAL 10-19 FORMATION : DESERT CREEK

FILE NO. : RP-3-003251
ANALYSTS : GG;DS

*** CORE SUMMARY AVERAGES FOR 1 ZONE ***

DEPTH INTERVAL: 5566.0 TO 5583.0

FEET OF CORE ANALYZED : 17.0 FEET OF CORE INCLUDED IN AVERAGES: 17.0

-- SAMPLES FALLING WITHIN THE FOLLOWING RANGES WERE AVERAGED --

PERMEABILITY HORIZONTAL RANGE (MD.) : 0.00 TO 0.33 (UNCORRECTED FOR SLIPPAGE)
FLUID POROSITY RANGE (%) : 1.0 TO 100.0
OIL SATURATION RANGE (%) : 0.0 TO 22.0
WATER SATURATION RANGE (%) : 36.0 TO 86.0

SHALE SAMPLES EXCLUDED FROM AVERAGES.

AVERAGES FOR DEPTH INTERVAL: 5566.0 TO 5583.0

AVERAGE PERMEABILITY (MILLIDARCIES)		PRODUCTIVE CAPACITY (MILLIDARCY-FEET)	
ARITHMETIC PERMEABILITY	: 0.04	ARITHMETIC CAPACITY	: 0.65
GEOMETRIC PERMEABILITY	: 0.02	GEOMETRIC CAPACITY	: 0.26
HARMONIC PERMEABILITY	: 0.01	HARMONIC CAPACITY	: 0.19
AVERAGE POROSITY (PERCENT)	: 6.5	AVERAGE TOTAL WATER SATURATION	: 60.7
		(PERCENT OF PORE SPACE)	
AVERAGE RESIDUAL OIL SATURATION	: 6.2		
(PERCENT OF PORE SPACE)			

=====

INTERPRETATION OF DATA

INTERVAL 5566.0-5583.0 ESSENTIALLY NON-PRODUCTIVE - MAY HAVE THIN GAS
ZONE WHERE PERMEABLE

=====

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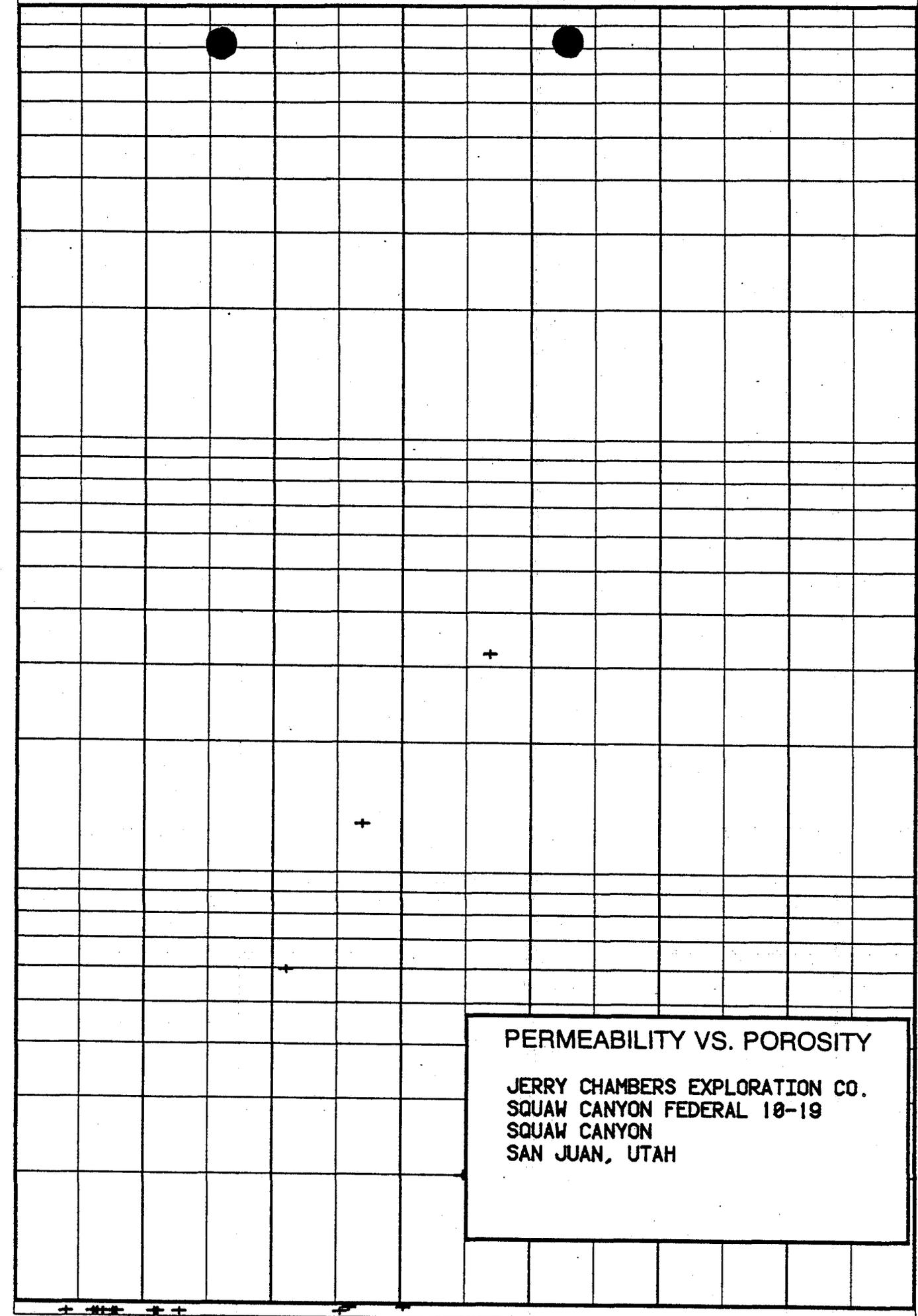
10.

PERMEABILITY: MILLIDARCIES

1.

0.1

0.01



0.0 4.0 8.0 12.0 16.0 20.0 24.0

POROSITY: PERCENT

PERMEABILITY VS. POROSITY

JERRY CHAMBERS EXPLORATION CO.
 SQUAW CANYON FEDERAL 10-19
 SQUAW CANYON
 SAN JUAN, UTAH

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: JERRY CHAMBERS EXPLORATION CO.
FIELD : SQUAW CANYON

WELL : SQUAW CANYON FEDERAL 10-19
COUNTY, STATE: SAN JUAN, UTAH

AIR PERMEABILITY : MD. (HORIZONTAL) RANGE USED 0.000 TO 0.
POROSITY : PERCENT (FLUID SUMMATION) RANGE USED 1.0 TO 46.0

(PERMEABILITY UNCORRECTED FOR SLIPPAGE)

DEPTH LIMITS : 5566.0 - 5583.0 INTERVAL LENGTH : 17.0
FEET ANALYZED IN ZONE : 17.0 LITHOLOGY EXCLUDED : NONE

DATA SUMMARY

POROSITY AVERAGE	PERMEABILITY AVERAGES		
	ARITHMETIC	HARMONIC	GEOMETRIC
----- 6.5	----- 0.04	----- 0.01	----- 0.02

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: JERRY CHAMBERS EXPLORATION CO.
 FIELD : SQUAW CANYON

WELL : SQUAW CANYON FEDERAL 10-19
 COUNTY, STATE: SAN JUAN, UTAH

GROUPING BY POROSITY RANGES

POROSITY RANGE	FEET IN RANGE	AVERAGE POROSITY	AVERAGE PERM. (GEOM.)	(ARITH)	FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (%)
0.0 - 2.0	1.0	1.4	0.009	0.009	5.9	5.9
2.0 - 4.0	6.0	2.7	0.009	0.009	35.3	41.2
4.0 - 6.0	3.0	4.5	0.009	0.009	17.6	58.8
8.0 - 10.0	1.0	8.3	0.060	0.060	5.9	64.7
10.0 - 12.0	3.0	10.3	0.023	0.050	17.6	82.4
12.0 - 14.0	1.0	12.0	0.010	0.010	5.9	88.2
14.0 - 16.0	2.0	14.4	0.080	0.170	11.8	100.0

TOTAL NUMBER OF FEET = 17.0

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: JERRY CHAMBERS EXPLORATION CO.
 FIELD : SQUAW CANYON

WELL : SQUAW CANYON FEDERAL 10-19
 COUNTY, STATE: SAN JUAN, UTAH

GROUPING BY PERMEABILITY RANGES

PERMEABILITY RANGE	FEET IN RANGE	AVERAGE PERM. (GEOM.)	AVERAGE PERM. (ARITH)	AVERAGE POROSITY	FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (%)
0.005 - 0.010	11.0	0.009	0.009	3.7	64.7	64.7
0.010 - 0.020	2.0	0.010	0.010	11.2	11.8	76.5
0.020 - 0.039	1.0	0.020	0.020	14.0	5.9	82.4
0.039 - 0.078	1.0	0.060	0.060	8.3	5.9	88.2
0.078 - 0.156	1.0	0.130	0.130	10.7	5.9	94.1
0.312 - 0.625	1.0	0.320	0.320	14.7	5.9	100.0

TOTAL NUMBER OF FEET = 17.0

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: JERRY CHAMBERS EXPLORATION CO.
 FIELD : SQUAW CANYON

WELL : SQUAW CANYON FEDERAL 10-19
 COUNTY, STATE: SAN JUAN, UTAH

POROSITY-FEET OF STORAGE CAPACITY LOST FOR SELECTED POROSITY CUT OFF

POROSITY CUT OFF	FEET LOST	CAPACITY LOST (%)	FEET REMAINING	CAPACITY REMAINING (%)	ARITH MEAN	MEDIAN
-----	-----	-----	-----	-----	-----	-----
0.0	0.0	0.0	17.0	100.0	6.5	5.0
2.0	1.0	1.3	16.0	98.7	6.9	5.3
4.0	7.0	15.8	10.0	84.2	9.4	10.7
6.0	10.0	27.9	7.0	72.1	11.4	11.7
8.0	10.0	27.9	7.0	72.1	11.4	11.7
10.0	11.0	35.4	6.0	64.6	12.0	12.0
12.0	14.0	63.3	3.0	36.7	13.6	14.5
14.0	15.0	74.1	2.0	25.9	14.4	
16.0	17.0	100.0	0.0	0.0		

TOTAL STORAGE CAPACITY IN POROSITY-FEET = 111.0

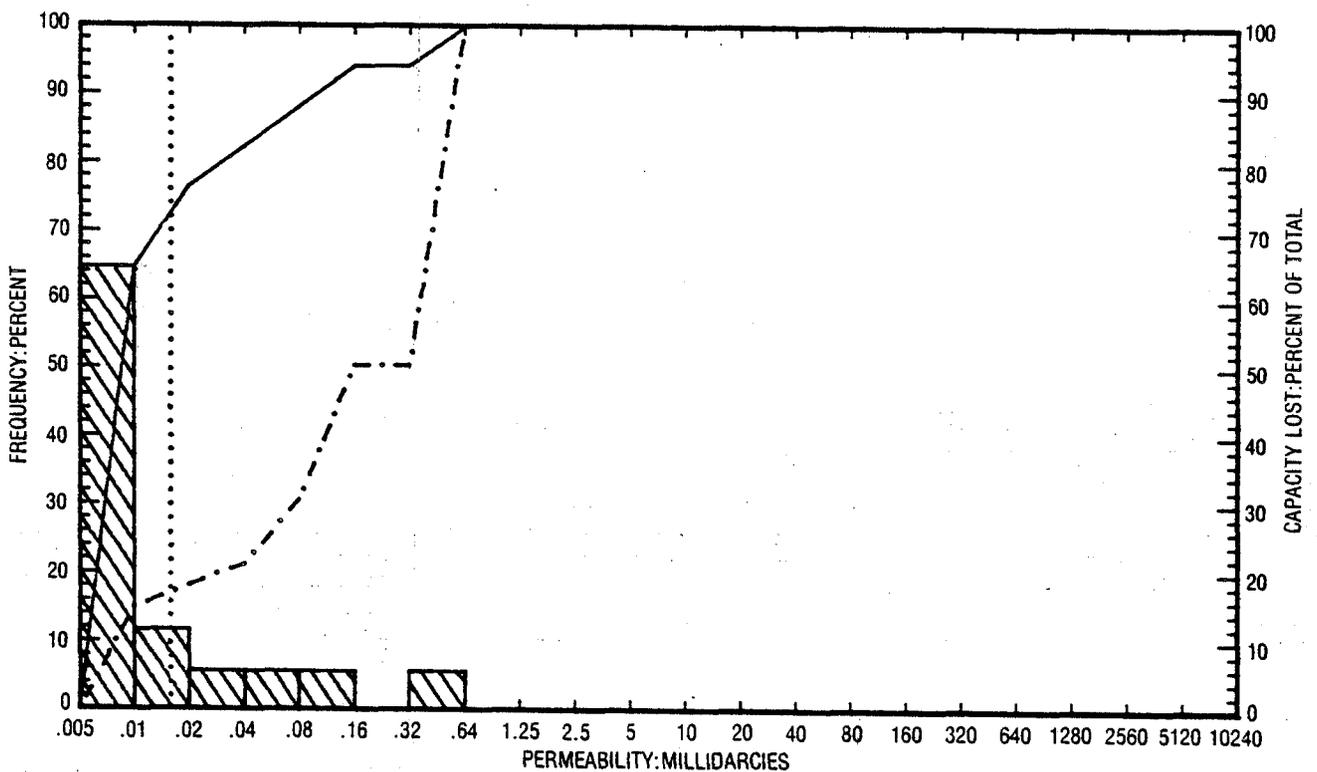
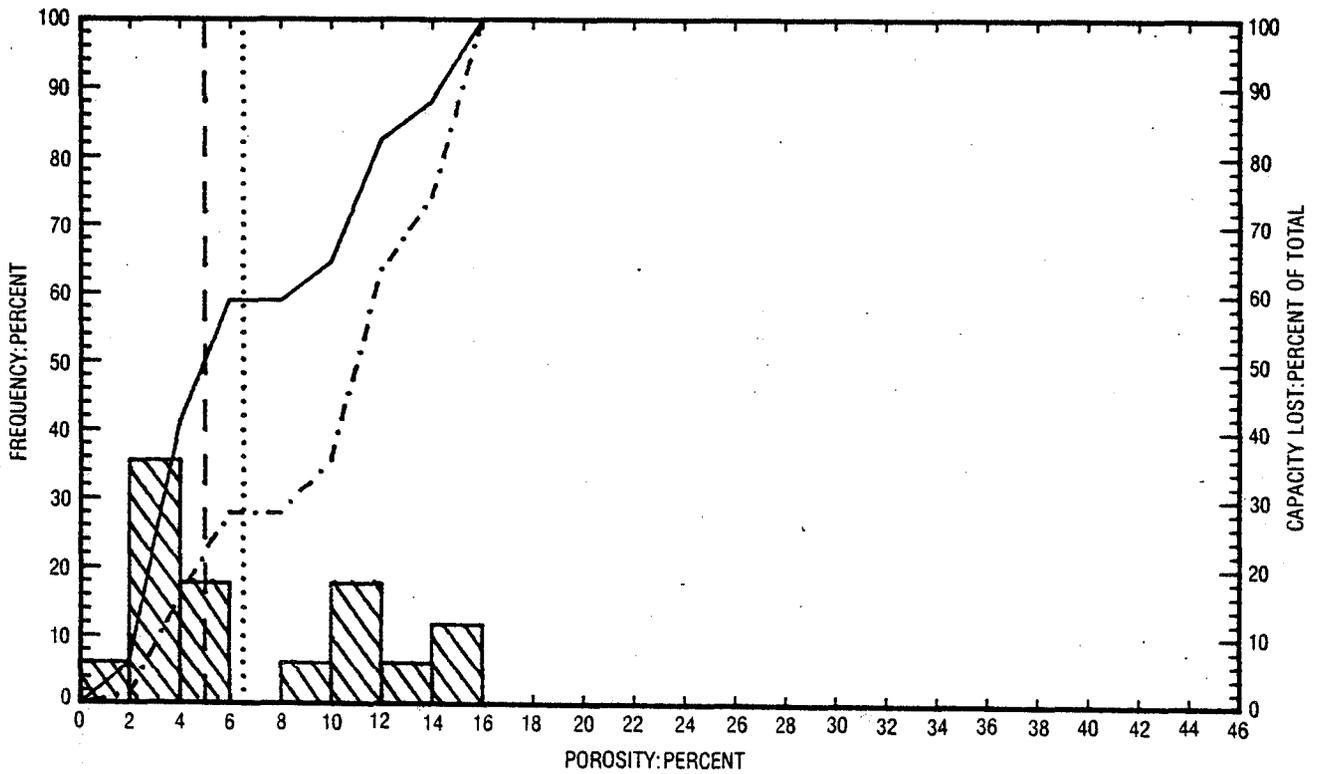
STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: JERRY CHAMBERS EXPLORATION CO. WELL : SQUAW CANYON FEDERAL 10-19
 FIELD : SQUAW CANYON COUNTY, STATE: SAN JUAN, UTAH

MILLIDARCY-FEET OF FLOW CAPACITY LOST FOR SELECTED PERMEABILITY CUT OFF

PERMEABILITY CUT OFF	FEET LOST	CAPACITY LOST (%)	FEET REMAINING	CAPACITY REMAINING (%)	GEOM MEAN	MEDIAN
0.005	0.0	0.0	17.0	100.0	0.02	
0.010	11.0	15.3	6.0	84.7	0.04	0.04
0.020	13.0	18.3	4.0	78.6	0.08	0.08
0.039	14.0	21.4	3.0	69.3	0.14	0.11
0.078	15.0	30.7	2.0	49.3	0.20	0.16
0.156	16.0	50.7	1.0	49.3	0.32	
0.312	16.0	50.7	1.0	49.3	0.32	
1.	17.0	100.0	0.0	0.0		

TOTAL FLOW CAPACITY IN MILLIDARCY-FEET (ARITHMETIC) = 0.65

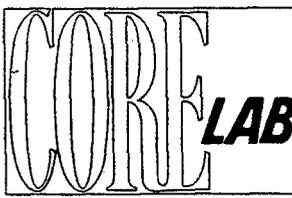


PERMEABILITY AND POROSITY HISTOGRAMS

JERRY CHAMBERS EXPLORATION CO.
 SQUAW CANYON FEDERAL 10-19
 SQUAW CANYON
 SAN JUAN, UTAH

LEGEND

- ARITHMETIC MEAN POROSITY (dotted line)
- GEOMETRIC MEAN PERMEABILITY (dotted line)
- MEDIAN VALUE ----- (dashed line)
- CUMULATIVE FREQUENCY _____ (solid line)
- CUMULATIVE CAPACITY LOST -.-.-.-.- (dash-dot line)



CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

COMPANY JERRY CHAMBERS EXPLORATION CO FILE NO. RP-3-003251
 WELL SQUAW CANYON FEDERAL 10-10 DATE 1-31-83 ENGRS. GG:DS
 FIELD SQUAW CANYON FORMATION DESERT CREEK ELEV. 4980 GL
 COUNTY SAN JUAN STATE UTAH DRLG. FLD. WBM CORES _____

CoRes Log
CORE and RESISTIVITY EVALUATION

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted) but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations as to the productivity, proven operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

RESISTIVITY PARAMETERS: $a = 1.00$ $m = 2.00$ $n = 2.00$. Depths 5500.0 to 5583.0
 $a =$ _____ $m =$ _____ $n =$ _____ . Depths _____ to _____

PERMEABILITY
 MILLIDARCIES

CORE ANALYSIS CALCULATED RESISTIVITY

R_0 = OHM-METERS AT 100% S_w _____
 R_{mp} = OHM-METERS AT CRITICAL S_w _____

DEPTH
 FEET

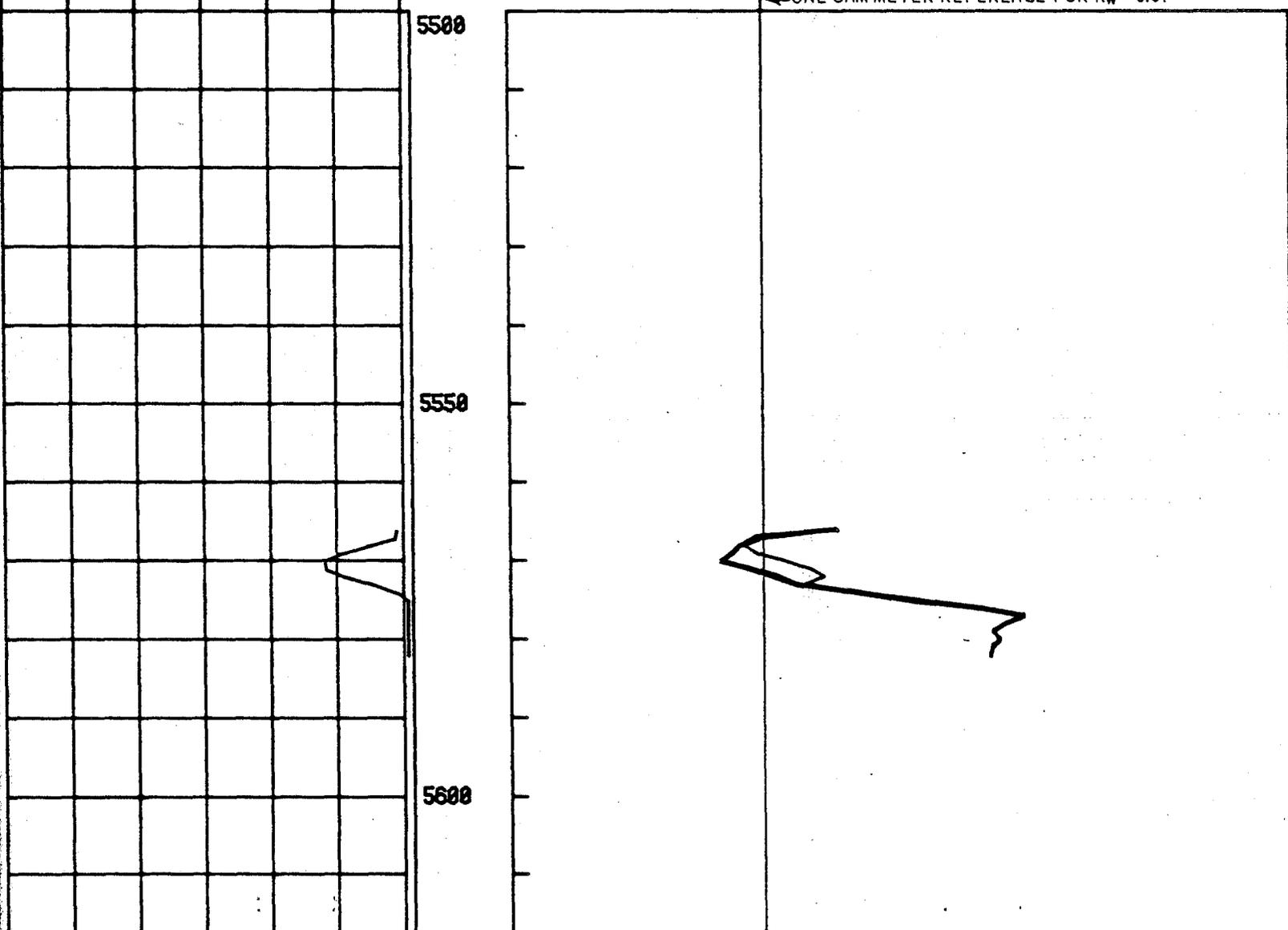
1000 100 10 1.0 0.1 0.01

← ONE OHM-METER REFERENCE FOR $R_w = 0.01$

5500

5550

5600





CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

COMPANY JERRY CHAMBERS EXPL. FIELD SQUAW CANYON FILE RP-3-003251
 WELL SQUAW CANYON FED. 10-19 COUNTY SAN JUAN DATE 1-31-83
 LOCATION NW, SE SEC. 19-38S-26E STATE UTAH ELEV. 4980 GL

CORE-GAMMA CORRELATION

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted), but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations as to the productivity, proper operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

VERTICAL SCALE: 5" = 100'

CORE-GAMMA SURFACE LOG

(PATENT APPLIED FOR)

GAMMA RAY

RADIATION INCREASE →

DESERT CREEK FORMATION

COREGRAPH

TOTAL WATER

PERCENT TOTAL WATER

80 60 40 20 0

PERMEABILITY

MILLIDARCS

100 50 10 5 1 30 20 10 0

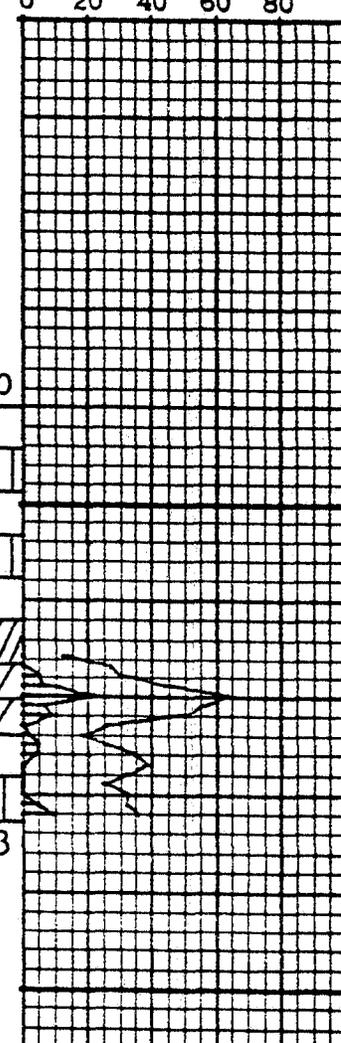
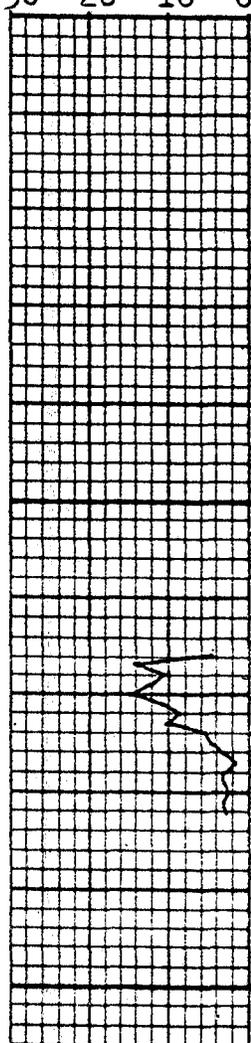
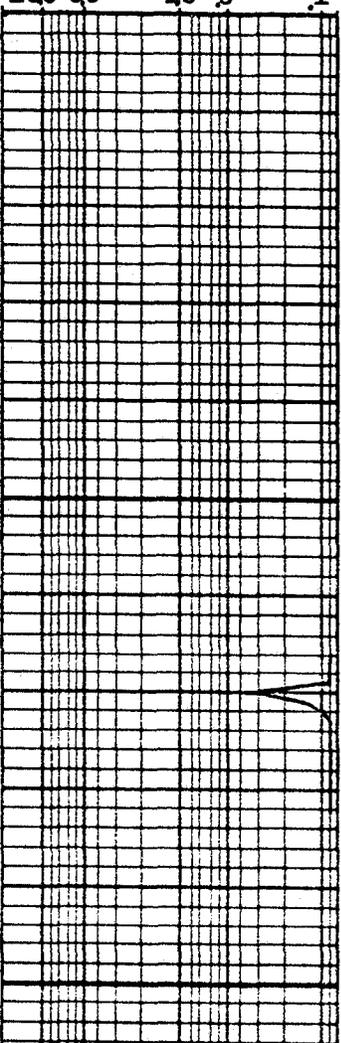
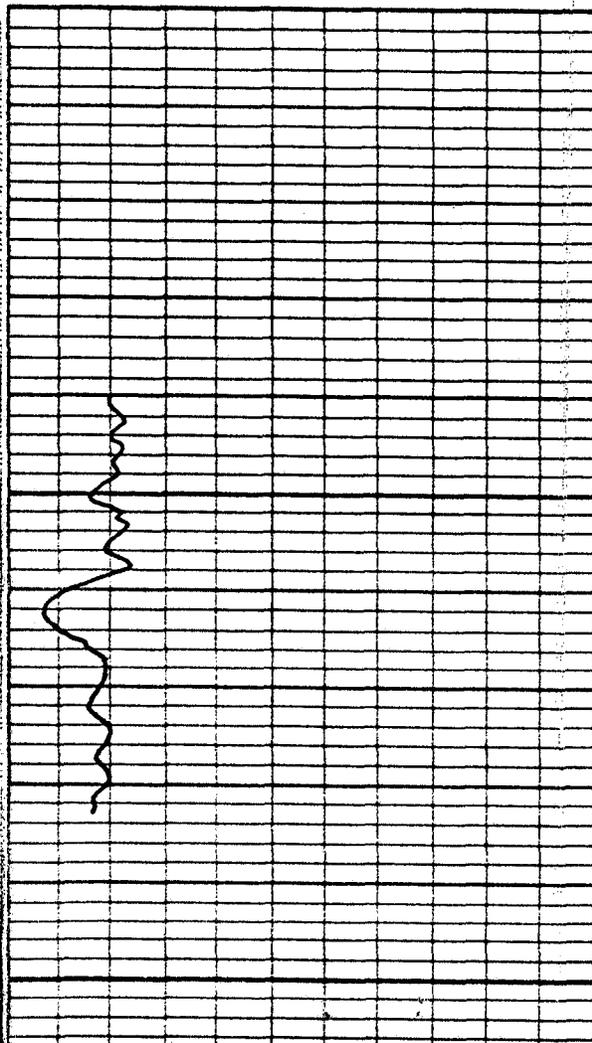
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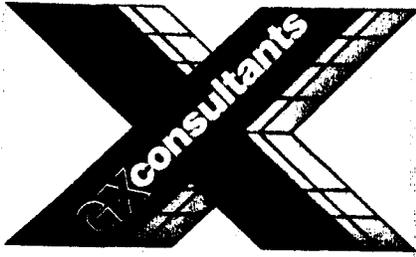
PERCENT

OIL SATURATION

PERCENT PORE SPACE

0 20 40 60 80





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AXEM RESOURCES/JERRY CHAMBERS
EXPLORATION
SQUAW CANYON FEDERAL 10-19
NWSE SECTION 19-T38S-R26E
SAN JUAN COUNTY, UTAH

DIVISION OF
OIL GAS & MINING

GEOLOGIST: Richard G. Steele
GX Consultants

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RESUME

OPERATOR: Axem Resources/Jerry Chambers Exploration
WELL NAME & NUMBER: Squaw Canyon Federal 10-19
LOCATION: NWSE Section 19-T38S-R26E
COUNTY & STATE: San Juan County, Utah
SPUD DATE: January 4, 1983
COMPLETION DATE (TD): February 2, 1983
ELEVATIONS: 4,980' GL 4,990' KB
TOTAL DEPTH: 5,642' LOGS 5,642' DRLR
CONTRACTOR: Brinkerhoff-Signal / Action Well Service
TYPE RIG: #32 / #4
TYPE RIG: Fixed Mast Triple / Work-Over
GEOLOGIST: Richard G. Steele, GX Consultants
ENGINEER: Kim Harris
TOOL PUSHER: A.C. Jensen
TYPE DRILLING MUD: LSND
MUD COMPANY: Magcobar
MUD ENGINEER: Gary Sunderland
HOLE SIZES: 17-1/2" to 120'
12-1/4" 120'-1,532'
7-7/8" 1,532'-5,255'
4-3/4" 5,255'-5,642'
CASING: 13-7/8" set @ 109'
8-5/8" set @ 1,528'
5-7/8" set @ 5,255'
MUD LOGGING BY: Analex
TYPE UNIT: 2-Man Continuous
CORE INTERVALS: #1) 5,540'-5,553'
#2) 5,553'-5,583'
DST DEPTHS: None
DST COMPANY: None
ELECTRIC LOGS BY: Schlumberger
TYPE LOGS RUN: DIL/GR (5,246'-5,642')
FDC/CNL/GR/CAL (5,246'-5,642')
LOGGING ENGINEER: T. Link
BOTTOM FORMATION: Akah
WELL STATUS: Awaiting completion

SUMMARY AND CONCLUSIONS

The Squaw Canyon #10-19 well was spudded on January 4, 1983 and reached a total depth of 5,642' (Driller) on February 2, 1983. The primary objective was the Desert Creek dolomite, which was cored.

The Desert Creek Pay Zone was encountered from 5,570'-5,573'. Drilling rate was 6 minutes per foot and the background gas rose from 550 units to 850 units. Lithology consisted of dolomite: light brown, very fine to fine crystalline, hard, poor to trace porosity, light green fluorescence, poor cut, fair green stain. Cross-plot porosity at 5,573' was 14.4% with a water saturation of 50.3%.

The secondary objective was the Ismay \emptyset Zone. This zone was encountered from 5,363'-5,370' (Driller). The drilling rate gradually increased from 7 minutes per foot to 4 minutes per foot. Two separate gas zones were seen, each releasing 67 units. Lithology consisted of dolomite: light brown microcrystalline, hard, poor porosity with a trace of yellow fluorescence with poor to fair streaming cut and fair yellow-green stain. This zone was not tested. Cross-plot porosity at 5,369' was 17.6% with a water saturation of 54.8%.

Production casing was run on February 5, 1983.

DAILY CHRONOLOGY

1983 DATE	12:01AM DEPTH	ACTIVITY
1/4	0	Spud, drilling 17-1/2" hole, set 13-3/8" casing @ 109'.
1/5	120	Wait on cement, nipple up, drilling 12-1/4" hole.
1/6	333	Drilling.
1/7	1,435	Drilling, set 8-5/8" casing @ 1,528', wait on cement.
1/8	1,532	Nipple up, drilling 7-7/8" hole.
1/9	2,380	Drilling.
1/10	2,898	Drilling, trip for bit, drilling w/Bit #4.
1/11	2,986	Drilling, trip for bit, drilling w/Bit #5.
1/12	3,303	Drilling.
1/13	3,660	Drilling.
1/14	3,890	Drilling, trip for bit, drilling w/Bit #6.
1/15	4,110	Drilling.
1/16	4,346	Drilling, trip for bit, trip in w/Bit #7.
1/17	4,511	Trip in hole, drilling w/Bit #7.
1/18	4,719	Drilling.
1/19	4,950	Drilling.
1/20	5,142	Drilling, work on pumps, drilling, wait on orders.
1/21	5,255	Run 5-7/8" casing, rig down Brinkerhoff.
1/21- 1/28	5,255	Rig down Brinkerhoff, rig up Action Well Service #4.
1/28	5,255	Rig up Action #4, drill cement, drilling w/Bit #8.

DAILY CHRONOLOGY (Cont.)

1983 DATE	12:01AM DEPTH	ACTIVITY
1/29	5,385	Drilling, trip for bit, drilling w/Bit #9.
1/30	5,495	Drilling, trip for Core #1.
1/31	5,540	Cut Core #1, lay down Core #1, trip for Core #2.
2/1	5,553	Cut Core #2, lay down Core #2, drilling rathole.
2/2	5,642	TD, run electric logs.

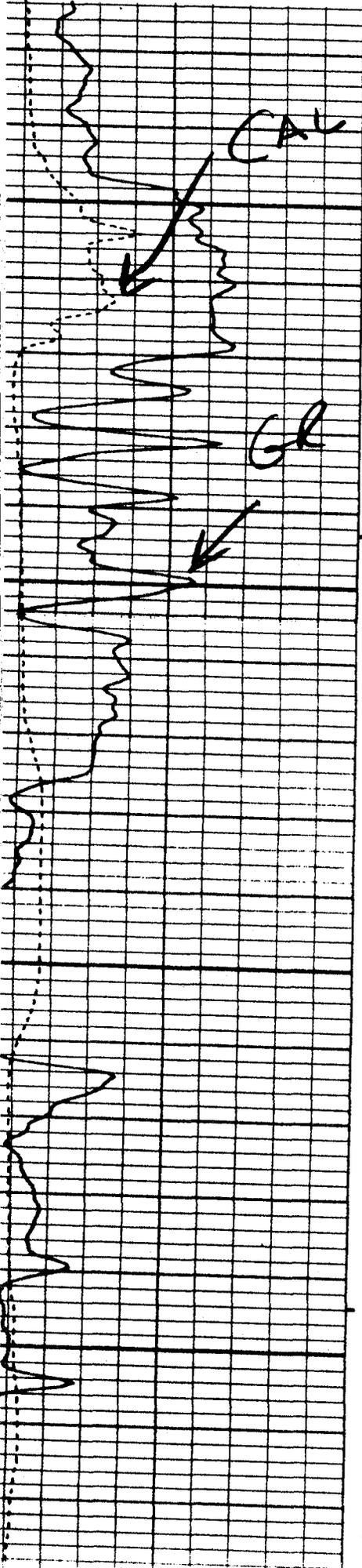
DRILLING FUNCTIONS

(Include air pressure if air drilled hole)

1983	DATE	DEPTH	W.O.B.	R.P.M.	P.P.
	1/4	--	--	--	--
	1/5	120	20	60	1100
	1/6	330	40	65	1200
	1/7	1,430	40	70	1200
	1/8	1,532	40	65	1200
	1/9	2,380	40	65	1300
	1/10	2,898	40	65	1300
	1/11	2,986	40	65	1300
	1/12	3,303	40	65	1300
	1/13	3,660	40	65	1100
	1/14	3,890	40	65	1200
	1/15	4,100	40	65	1200
	1/16	4,260	40	65	1200
	1/17	4,510	40	65	1200
	1/18	4,720	40	65	1200
	1/19	4,970	40	65	1300
	1/20	5,140	40	65	1350
	1/28	5,360	16	60	1100
	1/30	5,500	16	62	1000
	1/31	5,560	8/14	62	750
	2/1	5,600	16	60	1000

SHOW REPORT & LOG ANALYSIS

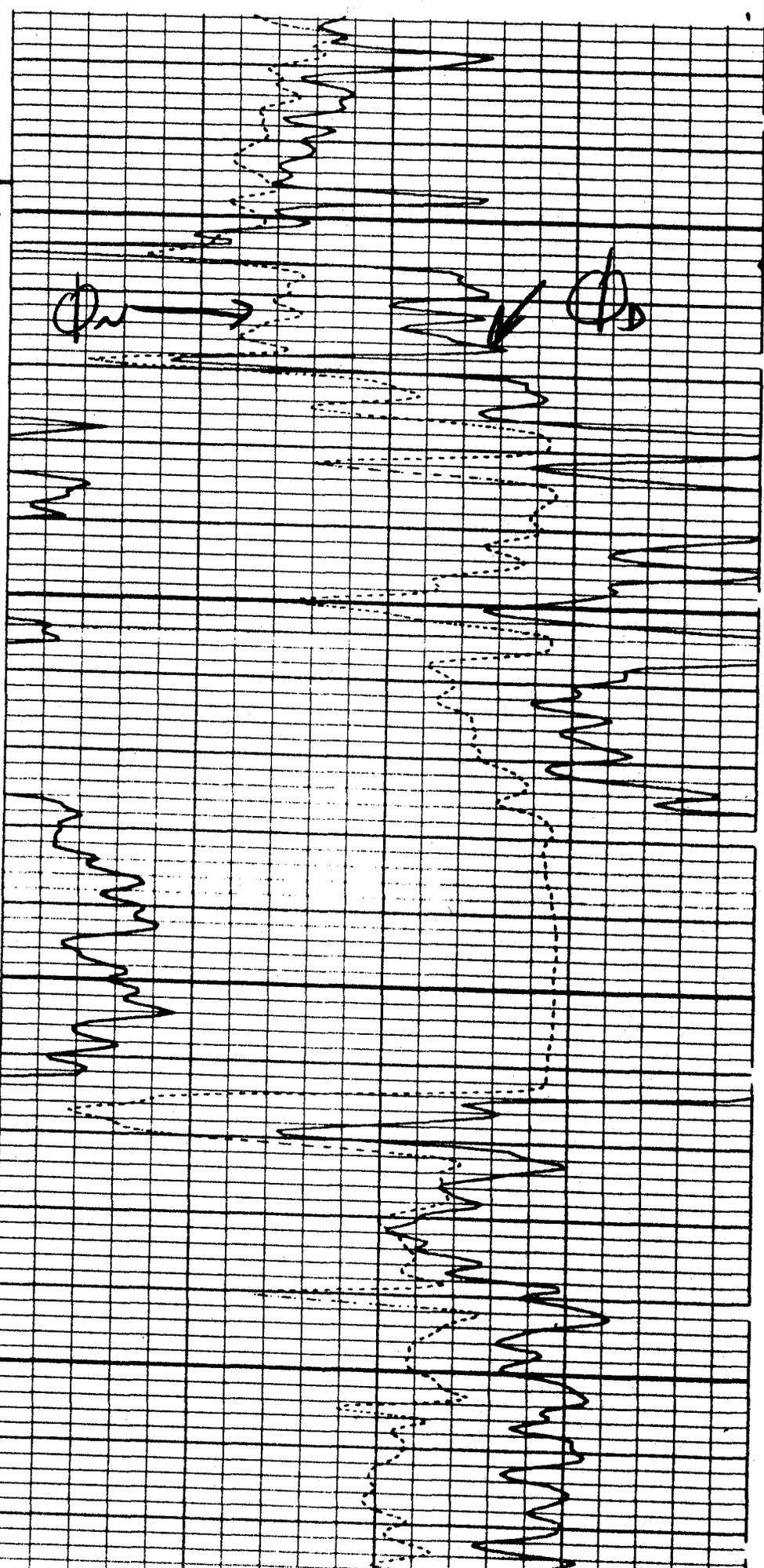
INTERVAL	FORMATION	Rw	Rt	ØN	ØD	ØAVG	Sw%	TG	C1	C2	C3	iC4	nC4
5,570-71	Desert Creek	.013	3.11	22%	5%	12.9%	50.1	850	150	40	20	10	20
5,571-72	Desert Creek	.013	2.45	20.9%	8%	11.8%	61.6	800	100	40	30	7	12
5,572-73	Desert Creek	.013	2.47	23.6%	7%	14.4%	50.3	750	100	40	30	8	13
5,573-74	Desert Creek	.013	2.67	22.2%	4%	13.3%	52.1	900	175	50	40	8	25
5,364-65	Ismay Ø	.013	4.16	22.8%	4%	12.5%	44.5	60	16	5	4	2	0
5,365-66	Ismay Ø	.013	2.55	22.7%	1%	11%	64.5	67	16	5	4	2	0
5,366-67	Ismay Ø	.013	1.65	27.1%	4%	14.3%	61.8	67	16	5	4	2	0
5,367-68	Ismay Ø	.013	1.34	24.2%	9%	15.2%	64.4	67	16	5	4	2	0
5,368-69	Ismay Ø	.013	1.34	23.9%	14%	17.6%	54.8	67	16	5	4	2	0
5,369-70	Ismay Ø	.013	1.39	20.8%	10%	14.1%	62.8	67	16	5	4	2	0

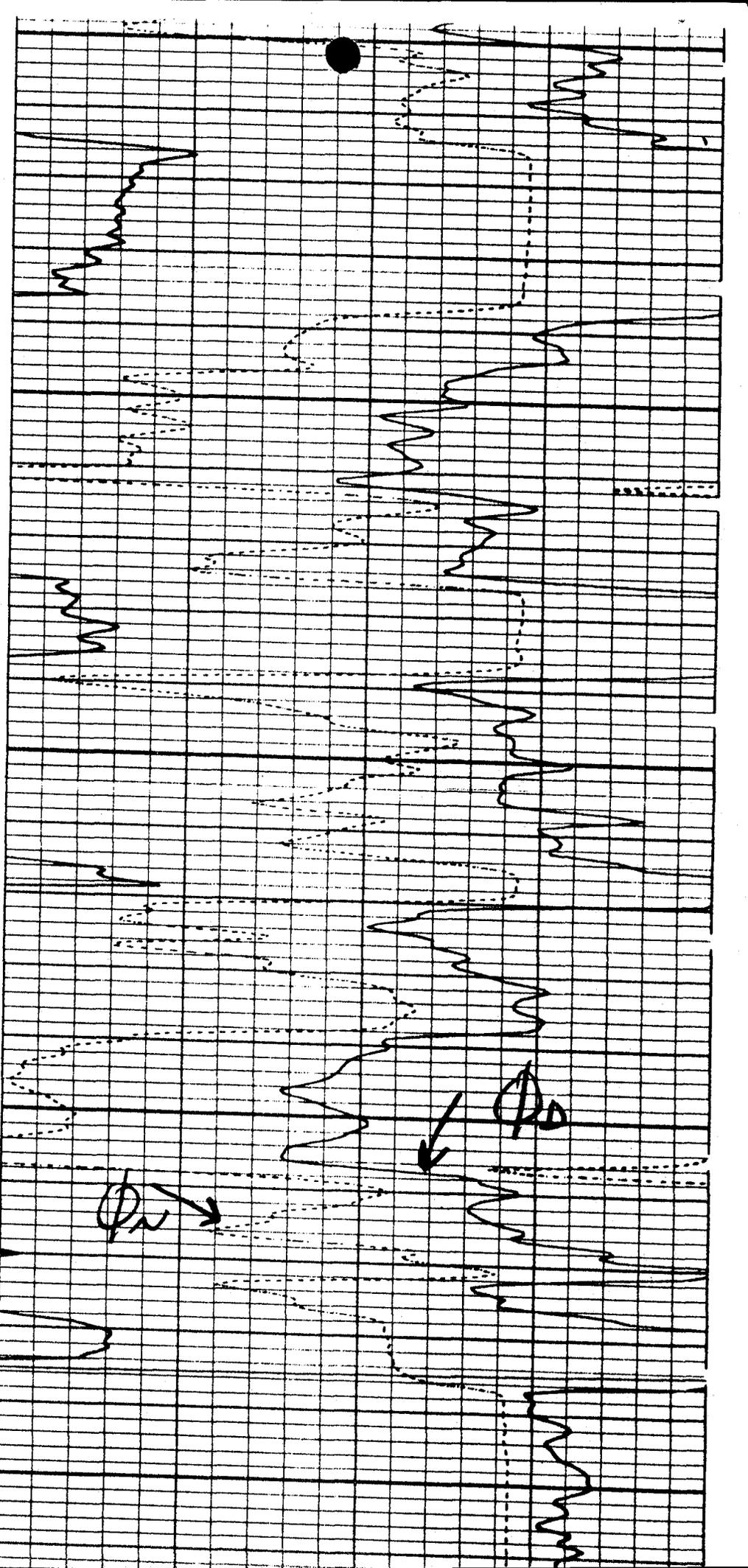
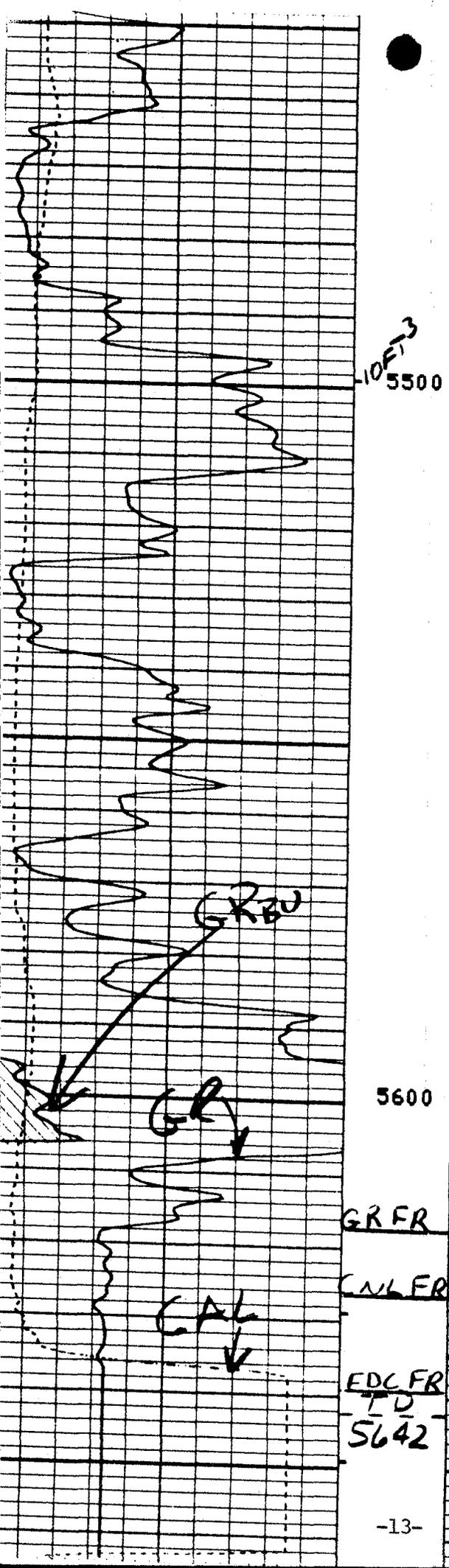


CSG
5246

-10FT³
5300

5400





CSG

5246

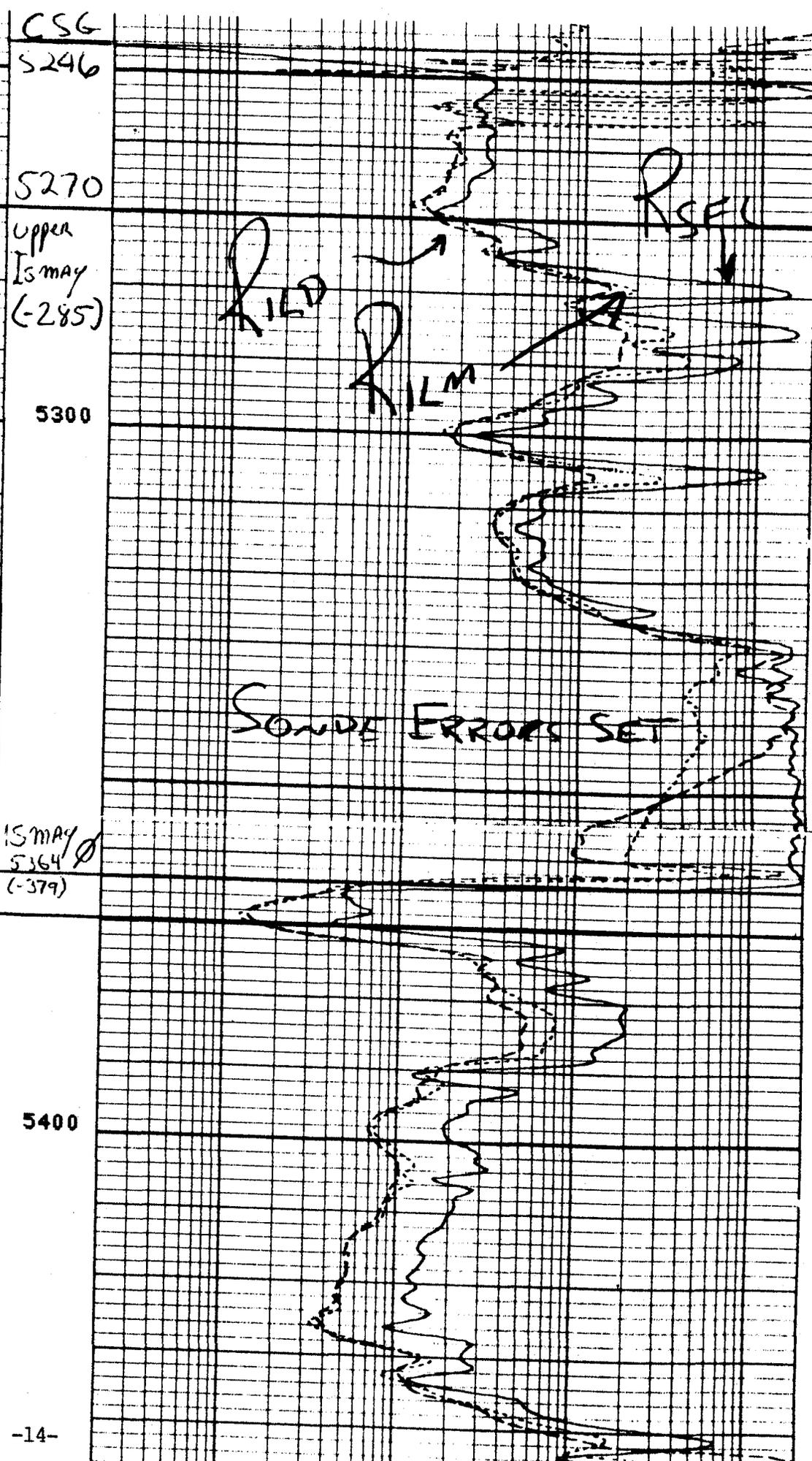
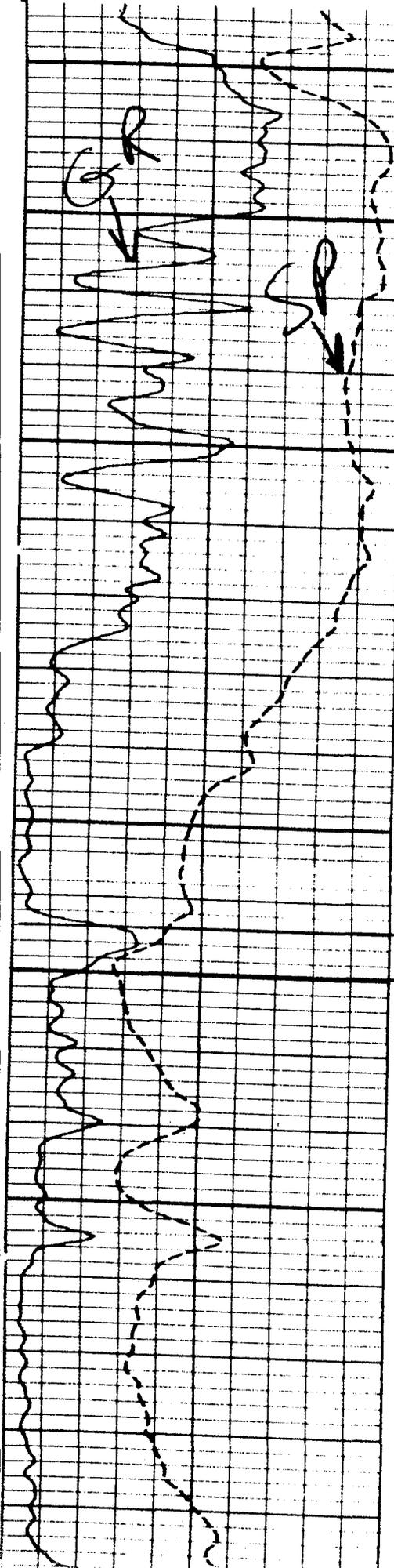
5270

Upper
ISMAY
(-285)

5300

ISMAY
5364
(-379)

5400



(-511)
5496

5500
Gothic
SHALE
5511

Desert
Creek
(-526)

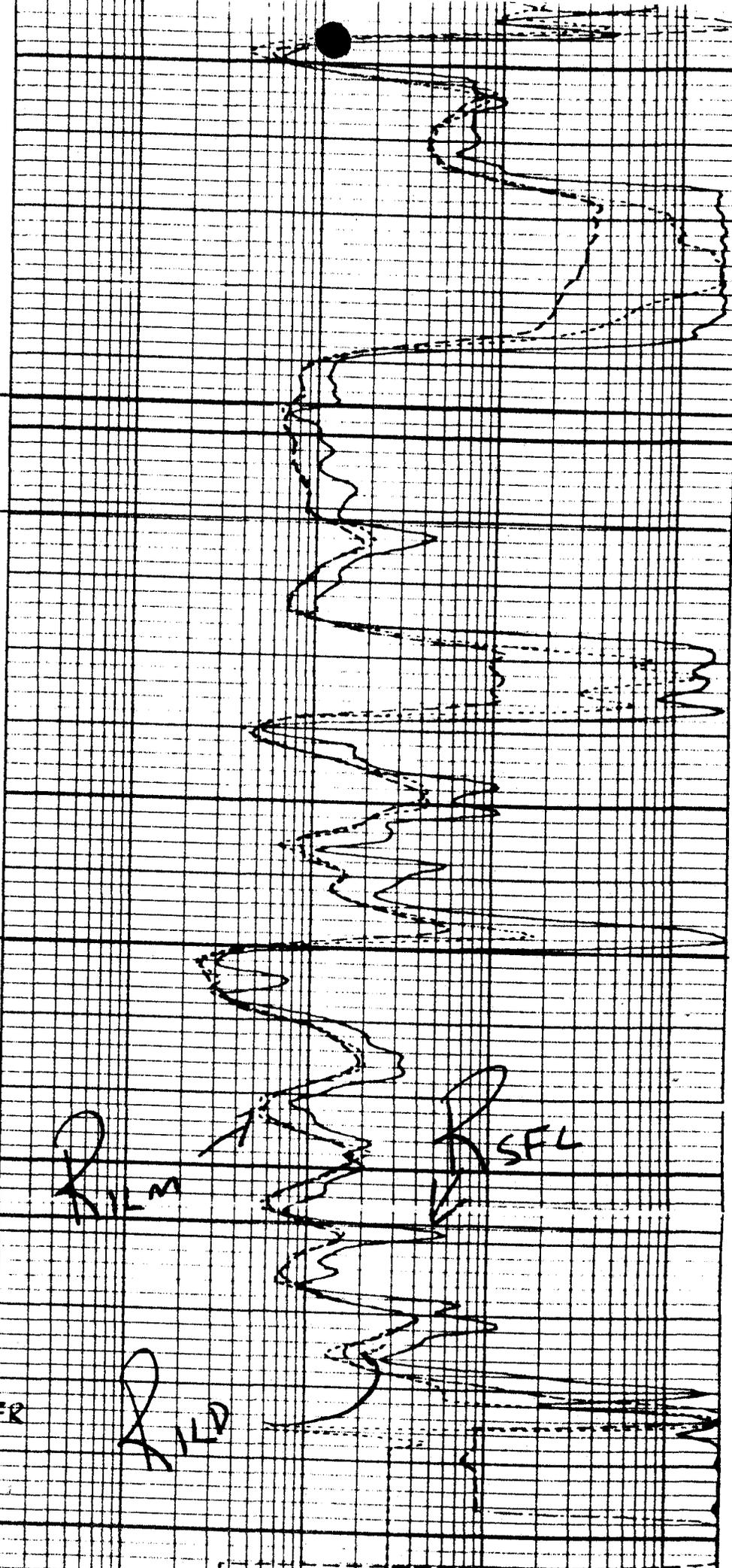
↑ CORE
#1
* CORE
#2
5570

↓ PAY
(-585)

5600
AKAH
5608
(-623)

LD FR
LD M SFL FR
SP FR

TD
5642



LD M

SFL

LD

LITHOLOGY

- 4,000 SHALE - rdbrn, brn, sl calc, frm-hd, blk, occ slty, tr ANHY.
Tr LIMESTONE - blgy, gy, crypxln-micxln, hd, v cln, NSFOC.
- 4,000-4,030 SHALE - rdbrn, ltgn, lav, sft-frm, sl calc, occ slty.
- 4,030-4,060 SHALE - rdbrn, ltgn, sft-frm, sl calc, occ slty, tr mic SH.
- 4,060-4,090 SHALE - brn, ltgn, rdbrn, gy, frm-sft, blk, calc-v calc, sdy, occ v mic.
Tr SANDSTONE.
- 4,090-4,120 SHALE - brn, gy, rdbrn, frm-hd, blk, sl calc-calc.
SANDSTONE - ltgy, wh, vfgr, m-w srt, sbang, calc cmt, mic, p \emptyset , NSFOC.
- 4,120-4,150 LIMESTONE - ltgy, blgy, micxln, sl arg, p \emptyset , NSFOC.
SHALE - rdbrn, brn, gy, ltgy, sft-frm, blk, sl calc-calc, mic.
Tr SANDSTONE.
- 4,150-4,180 SHALE - rdbrn, brn, gy, frm-hd, blk, calc-v calc, mic, occ sdy.
- 4,180-4,210 LIMESTONE - gy, dkgy, crypxln, sl arg, p \emptyset , NSFOC.
SHALE - rdbrn, gn, frm, blk, calc.
- 4,210-4,240 LIMESTONE - gy, ltgy, crypxln, cln, p \emptyset , NSFOC.
- 4,240-4,270 LIMESTONE - ltgy, wh, crypxln, sug, cln, hd, p \emptyset , NSFOC.
SHALE - rdbrn, gy, frm, blk.
- 4,270-4,300 LIMESTONE - a/a.
SHALE - a/a.
- 4,300-4,330 LIMESTONE - ltgy, gy, crypxln, sug, cln-sl arg, hd, p \emptyset , NSFOC.
- 4,330-4,360 LIMESTONE - a/a.
SANDSTONE - gy, ltgy, vfgr, w srt, sbrd, v mic, calc cmt, p \emptyset , NSFOC.
- 4,360-4,390 SANDSTONE - ltgy, wh, vfgr, w srt, sbrd, mic, calc cmt, p \emptyset , NSFOC.
- 4,390-4,420 LIMESTONE - ltgy, gy, crypxln, sl arg, tr ool, p \emptyset , NSFOC.
- 4,420-4,450 SHALE - brn, rdbrn, gygn, frm, blk, calc.
LIMESTONE - a/a.

LITHOLOGY (Cont.)

- 4,450-4,480 LIMESTONE - wh, crm, lt gy, frm-hd, crypxln, v cln, p Ø, NSFOC.
- 4,480-4,510 SHALE - rdbrn, gygn, frm, blk, calc, mic.
LIMESTONE - ltgy, wh, crm, hd, crypxln, cln-sl arg.
- 4,510-4,540 SHALE - gy, gybrn, frm-hd, blk, calc, sdy, slty in pt, grdg to SLTST.
- 4,540-4,570 LIMESTONE - wh, crm, frm-hd, crypxln, v cln, p Ø, tr ool, NSFOC.
- 4,570-4,600 SHALE - rdbrn, gy, frm-hd, blk, calc.
Tr LIMESTONE.
- 4,600-4,630 SHALE - rdbrn, gygn, frm-hd, blk, calc, occ sdy.
LIMESTONE - ltgy, crm, hd, crypxln, v cln, p Ø, NF.
- 4,630-4,660 SHALE - rdbrn, gygn, frm-hd, blk, calc.
Tr LIMESTONE.
- 4,660-4,690 SANDSTONE - wh, clr, vf-fgr, ang-sbang, p srt, sil cmt, p Ø, NSFOC.
- 4,690-4,720 SHALE - brn, rdbrn, frm-hd, blk, calc.
Tr LIMESTONE.
- 4,720-4,750 LIMESTONE - wh, ltgy, crm, micxln, hd, v cln, tr ool, p Ø, NSFOC.
- 4,750-4,780 LIMESTONE - gy, micxln, hd, cln-sl arg, p Ø, NSFOC, sug.
- 4,780-4,810 LIMESTONE - gy, dkgy, occ ltgy, crypxln, frm-hd, m arg, slty, p Ø, NSFOC.
- 4,810-4,840 LIMESTONE - gy, ltgy, occ dkgy, crypxln, frm-hd, arg, slty in pt, p Ø, NSFOC.
- 4,840-4,870 SHALE - rdbrn, gygn, frm-hd, blk, calc.
Tr SANDSTONE.
LIMESTONE - gybrn, ltbrn, crypxln, sl arg, p Ø, NSFOC.
- 4,870-4,900 LIMESTONE - ltbrn, gybrn, gy, crypxln, sl arg, p Ø, NSFOC.
- 4,900-4,930 SHALE - gy, gygn, dkgy, frm-hd, blk, calc.
Tr COAL.
LIMESTONE - gy, ltgy, micxln, cln-sl arg, frm-hd, tr ool, p Ø, NSFOC.
- 4,930-4,960 LIMESTONE - gy, ltgy, micxln, hd, sl arg, tr ool, p Ø, NSFOC.

LITHOLOGY (Cont.)

- 4,960-4,990 SHALE - dkgy, blk, frm, blk, v calc, limy in pt.
Tr Limestone, Tr COAL.
- 4,990-5,000 LIMESTONE - crm, ltgy, micxln, hd, tr ool, sl arg, p \emptyset ,
NSFOC.
- 5,000-5,010 LIMESTONE - ltgy, crm, wh, hd, tr fos, cln-sl arg, p \emptyset ,
NSFOC.
- 5,010-5,020 LIMESTONE - ltgy, wh, crm, micxln, frm-hd, cln, p \emptyset ,
NSFOC.
- 5,020-5,030 LIMESTONE - a/a.
- 5,030-5,040 LIMESTONE - ltgy, crm, wh, micxln, frm-hd, cln-sl arg,
p \emptyset , NSFOC.
- 5,040-5,050 LIMESTONE - a/a.
- 5,050-5,060 SHALE - gy, dkgy, frm-hd, blk, v calc.
Tr Limestone - a/a.
- 5,060-5,070 SHALE - gy, gygn, rdbrn, frm-hd, blk, calc.
Tr Limestone.
- 5,070-5,080 SHALE - gy, gygn, rdbrn, frm, blk, calc.
Limestone - ltgy, crm, crypxln, hd, cln-sl arg, tr fos,
p \emptyset , NSFOC.
- 5,080-5,090 SHALE, LIMESTONE - a/a.
- 5,090-5,100 LIMESTONE - crm, lt tan, micxln, frm-hd, cln, p \emptyset ,
NSFOC.
- 5,100-5,110 LIMESTONE - crm, lt tan, micxln, frm-hd, cln, p \emptyset ,
NSFOC.
- 5,110-5,120 LIMESTONE - ltgy, tan, micxln, frm-hd, cln, p \emptyset , NSFOC.
- 5,120-5,130 SHALE - gygn, rdbrn, frm-hd, blk, calc, tr Limestone.
- 5,130-5,140 LIMESTONE - tan, crm, ltgy, micxln, frm-hd, m-sl arg,
p \emptyset , NF.
- 5,140-5,150 LIMESTONE - gy, ltgy, micxln, frm, sl-m arg, p \emptyset , NSFOC.
- 5,150-5,160 SHALE - gygn, dkgn, rdbrn, frm-hd, blk, calc.
Tr Limestone.
- 5,160-5,170 SHALE - a/a.
Limestone - wh, crm, micxln, frm-hd, cln, p \emptyset , NF.
- 5,170-5,180 LIMESTONE - ltgy, gy, micxln, frm-hd, cln, p \emptyset , NSFOC.

LITHOLOGY (Cont.)

- 5,180-5,190 LIMESTONE - ltbrn, gy, micxln, frm-hd, sl arg.
- 5,190-5,200 LIMESTONE - gy, ltgy, crm, micxln, sl arg, hd, p \emptyset , NF.
- 5,200-5,210 LIMESTONE - a/a.
- 5,210-5,220 LIMESTONE - crm, lt tan, micxln, sl arg, hd, p \emptyset , NSFOC.
SHALE - dk brn, dkgy, frm, blk, sl calc.
- 5,220-5,230 LIMESTONE - ltgy, brn, crm, micxln, sl arg, hd, p \emptyset , NF.
SHALE - a/a.
- 5,230-5,240 SHALE - dkgy, rdbrn, dk brn, frm-hd, blk, calc.
LIMESTONE - ltgy, brn, crm, micxln, sl arg, hd, p \emptyset , NF.
- 5,240-5,250 SHALE - dkgy-blk, frm, blk-plty, calc.
Tr LIMESTONE.
- 5,250-5,260 SHALE - dkgy, blk, frm, blk, calc, tr ANHY.
- 5,260-5,270 SHALE - a/a.
Tr ANHYDRITE.
- 5,270-5,280 SHALE -dk gy, blk, frm, blk, calc, abnt ANHY.
- 5,280-5,290 SHALE - a/a, abnt ANHY.
- 5,290-5,300 SHALE - dkbrn, blk, gy, frm, blk, calc, abnt ANHY.
- 5,300-5,310 SHALE - a/a, abnt ANHY.
- 5,310-5,320 SHALE - a/a, abnt ANHY.
- 5,320-5,330 SHALE - blk, dkgy, frm, blk, calc, abnt ANHY.
- 5,330-5,340 ANHYDRITE.
- 5,340-5,350 ANHYDRITE.
- 5,350-5,360 ANHYDRITE.
- 5,360-5,370 ANHYDRITE.
Tr DOLOMITE.
- 5,370-5,380 LIMESTONE - ltbrn, wh, micxln, hd, p-fr intxln \emptyset ,
tr vis oil, lt gn flor, poor strm cut.
- 5,380-5,390 LIMESTONE - wh, ltbrn, micxln, frm-hd, v cln, no vis \emptyset , NSFOC.
- 5,390-5,400 LIMESTONE - a/a.

LITHOLOGY (Cont.)

- 5,400-5,410 LIMESTONE - wh, ltbrn, micxln, hd, cln, NSFOC.
- 5,410-5,420 LIMESTONE - a/a.
Tr blk SHALE.
- 5,420-5,430 LIMESTONE - a/a.
Tr ANHYDRITE.
- 5,430-5,440 LIMESTONE - wh, tan, crypxln, frm-hd, cln, p \emptyset , NSFOC.
Tr ANHYDRITE.
- 5,440-5,450 LIMESTONE - a/a.
SHALE - dk gy-blk, frm, calc.
- 5,450-5,460 LIMESTONE - ltgy, wh, micxln, frm-hd, cln, p \emptyset , NSFOC.
SHALE - dkgy-blk, frm, blk, calc.
- 5,460-5,470 LIMESTONE - a/a.
SHALE - a/a.
- 5,470-5,480 SHALE - dkgy-blk, frm-blky, calc.
LIMESTONE - ltgy, wh, crypxln, frm, cln-sl arg, p \emptyset ,
NSFOC.
- 5,480-5,490 SHALE, LIMESTONE - a/a.
- 5,490-5,500 SHALE - dkgy-blk, frm-hd, blk, calc-sl calc.
- 5,500-5,505 LIMESTONE - ltgy, ltbrn, micxln, hd, sl arg, p \emptyset , NSFOC.
SHALE - dk gy, blk, frm, blk, calc.
- 5,505-5,510 LIMESTONE - ltgy, ltbrn, crm, hd, cln, p \emptyset , NSFOC.
SHALE - dkgy-blk, frm, blk, calc.
- 5,510-5,515 SHALE - dkgy-blk, frm, sl calc.
- 5,515-5,520 LIMESTONE - ltgy, ltbrn, micxln, frm, sl arg-cln.
SHALE - dk gy, sft-frm, blk, calc.
- 5,520-5,525 SHALE - gy, dkgy, sft-frm, blk, calc.
- 5,525-5,530 SHALE - a/a.
- 5,530-5,535 LIMESTONE - gy, ltgy, micxln, frm-hd, plty, sl arg,
p \emptyset .
- 5,535-5,540 SHALE - blk, frm, blk, calc, abnt ANHY.
Tr LIMESTONE.
- 5,540-5,553 CORE #1
- 5,553-5,583 CORE #2

LITHOLOGY (Cont.)

- 5,580-5,590 SHALE - blk, frm-hd, blk, sl calc.
- 5,590-5,600 SHALE - blk, frm-hd, blk, calc.
- 5,600-5,610 LIMESTONE - ltgy, micxln-crypnl, sl arg, n vis \emptyset ,
tr blu flor, p strm cut.
- 5,610-5,620 LIMESTONE - ltgy-dkgy, gybrn, sl arg, micxln, p \emptyset ,
NSFOC.
- 5,620-5,630 LIMESTONE - a/a.
- 5,630-5,640 ANHYDRITE, SALT.

CORE #1

Interval: 5,540'-5,553'

Cut: 13'

Recovered: 13'

- 5,540-5,541 SHALE - blk, dkgy, frm, blk, sl calc, slty, 4" anhydrite stringer.
- 5,541-5,542 SHALE - blk, dkgy, frm-hd, blk, calc.
- 5,542-5,543 SHALE - blk, dkgy, frm, blk, v calc, occ sdy.
- 5,543-5,544 LIMESTONE - dk brn, brn, micxln, hd, vp \emptyset , NSFOC, sl-m arg, occ SH inclusions.
- 5,544-5,545 SHALE - blk, sft-frm, wxy, calc, slty.
- 5,545-5,546 SHALE - brn, dkbrn, hd, sl calc, sdy in pt.
- 5,546-5,547 SHALE - dkbrn, frm-hd, calc, slty.
- 5,547-5,548 SHALE - blk, frm, v calc, plty, slty.
- 5,548-5,549 SHALE - blk, frm, plty, sl calc.
- 5,549-5,550 LIMESTONE - ltgy, micxln to vfxln, frm-hd, p \emptyset , sl arg, NSFOC.
- 5,550-5,551 LIMESTONE - ltgy-gy, micxln to vfxln, p \emptyset , sl arg.
- 5,551-5,552 LIMESTONE - gy, gybrn, micxln-vfxln, p \emptyset , sl arg, NSFOC.
- 5,552-5,553 SHALE - dkgy, dk gybrn, frm, plty, sl calc, tr mica.

CORE #2

Interval: 5,553'-5,583'

Cut: 30'

Recovered: 30'

5,553-5,554 SHALE - dkgy-blk, frm, blk, v calc.
5,554-5,555 SHALE - blk, frm-hd, blk, v calc.
5,555-5,556 SHALE - dkgy, frm, blk, calc.
5,556-5,557 DOLOMITE - brn, ltbrn, vfxln, hd, vp \emptyset , NSFOC.
5,557-5,558 DOLOMITE - dk brn, vfxln, hd, p \emptyset , NSFOC.
5,558-5,559 DOLOMITE - dk brn, vfxln, hd, p \emptyset , NSFOC.
5,559-5,560 DOLOMITE - dk brn, vfxln, frm-hd, p \emptyset , NF.
5,560-5,561 ANHYDRITE - wh, massive, w/calcite xlts.
5,561-5,562 ANHYDRITE - a/a.
5,562-5,563 ANHYDRITE - a/a.
5,563-5,564 ANHYDRITE - a/a.
5,564-5,565 ANHYDRITE - a/a.
5,565-5,566 ANHYDRITE - a/a.
5,566-5,567 ANHYDRITE - a/a.
5,567-5,568 DOLOMITE - dk brn, micxln, frm-hd, vp \emptyset , lt gn flor, p cut.
5,568-5,569 DOLOMITE - dk brn, vfxln, frm-hd, p \emptyset , NF.
5,569-5,570 DOLOMITE - dk brn-ltbrn, vfxln, hd, p \emptyset , fnt gn flor.
5,570-5,571 DOLOMITE - lt brn, vf-fxln, hd, p \emptyset , fnt gn flor, p cut.
5,571-5,572 DOLOMITE - lt brn-brn, vfxln, hd, p \emptyset , fnt gn flor, p cut.
5,572-5,573 DOLOMITE - lt brn, vf-fxln, hd, tr \emptyset , gn flor, p cut, f gn stn.
5,573-5,574 DOLOMITE - lt brn, vfxln, hd, p \emptyset , NF.
5,574-5,575 DOLOMITE - dk brn, fxln, hd, p \emptyset , NF.

CORE #2 (Cont.)

- 5,575-5,576 DOLOMITE - dk brn, vfxln, hd, p \emptyset , NF.
- 5,576-5,577 LIMESTONE - dk brn, micxln, hd, p \emptyset , NF.
- 5,577-5,578 LIMESTONE - a/a.
- 5,578-5,579 LIMESTONE - a/a.
- 5,579-5,580 LIMESTONE - a/a.
- 5,580-5,581 SHALE - dk brn, hd, blkky, v calc, limy in pt.
- 5,581-5,582 SHALE - dk brn, hd, blkky, v calc, limy in pt, fos.
- 5,582-5,583 LIMESTONE - dk brn, hd, micxln, v arg, vp \emptyset , fos, v
fnt gn flor, no cut.

Federal - Section 19 Lease
Economic Evaluation

<u>Year</u>	<u>Gross BO</u>	<u>Gross MCF</u>	<u>Revenue - \$</u>			<u>Royalties - \$</u>
			<u>Oil</u>	<u>Gas</u>	<u>Total</u>	
1	21,780	59,161	631,620	295,805	927,425	201,715
2	9,663	26,256	280,227	131,280	411,507	89,503
3	4,285	11,658	124,265	58,290	182,555	39,706

<u>Year</u>	<u>Severance Tax - \$</u>	<u>Excise Tax - \$</u>	<u>Operating Cost - \$</u>	<u>Cash Flow - \$</u>	<u>Cost to Truck Gas - \$</u>	<u>Profit (Loss) - \$</u>
1	18,549	48,134	85,000	574,027	720,000	(145,973)
2	8,230	21,355	85,000	207,419	720,000	(512,581)
3	3,651	9,470	85,000	44,728	720,000	(675,272)

Oil Price = \$29.00/bbl

Gas Price = \$5.00/MCF

Royalties = 21.75%

Severance Tax = 2%

Excise Tax = 25% (Tier 3) with base price of \$17.10/bbl

Federal - Section 19 Lease
Production History

	<u>BO</u>	<u>MCF</u>
August 1979	11,791	7,666
September	13,668	10,590
October	3,792	3,595
November	0	0
December	0	0
January 1980	0	0
February	0	0
March	0	0
April	4,761	3,361
May	7,666	6,338
June	14,400	14,185
July	14,025	18,225
August	2,009	2,185
September	0	0
October	0	0
November	0	0
December	0	0
January 1981	0	0
February	0	0
March	0	0
April	1,762	5,520
May	4,466	12,420
June	4,069	13,410
July	3,771	10,540
August	3,717	8,100
September	3,193	6,720
October	12,909	12,997
November	14,419	14,258
December	12,302	13,776

Federal - Section 19 Lease
Production History
Page 2

	<u>BO</u>	<u>MCF</u>
January 1982	12,134	18,392
February	5,384	9,094
March	9,836	19,483
April	7,635	20,797
May	6,047	16,380
June	6,106	19,350
July	5,549	18,073
August	4,900	18,352
September	3,219	17,401
October	3,690	10,616
November	4,718	13,637
December	4,009	13,939
January	3,972	11,711
February	3,067	10,537
March	438	3,801
April	2,221	8,652
May	2,673	7,188

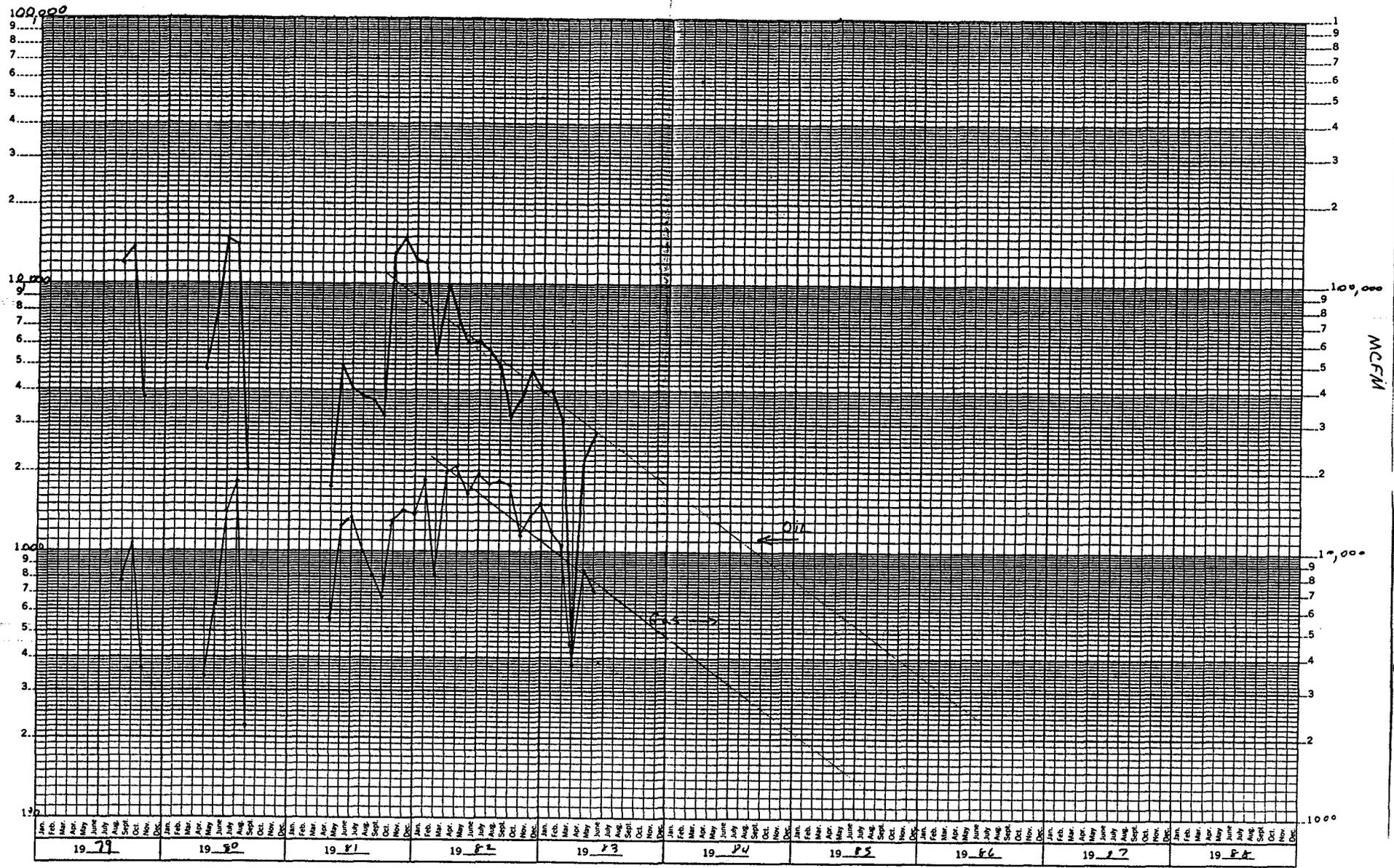
Federal - Section 19 Lease
Projected Performance from 6-1-83

<u>Year</u>	<u>B0</u>	<u>MCF</u>
6/1/83 - 5/31/84	21,780	59,161
6/1/84 - 5/31/85	9,663	26,256
6-1-85 - 5-31-86	4,285	11,658
Remaining Reserves	35,728 B0	97,075 MCF

Federal Section 19 Lease

47 6740

K-E 19 YEARS BY MONTHS + 3 LOG CYCLES
 KRUPP & ESSER CO. MARIETTA
 BOPM



MCFM

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

7

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. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER 2. NAME OF OPERATOR <u>Jerry Chambers Exploration Co.</u> 3. ADDRESS OF OPERATOR <u>7800 E. Union Ave., Suite 1100, Denver, CO 80231</u> 4. LOCATION OF WELL (Report location clearly and in accordance with any State equipment tags. See also space 17 below.) At surface <u>1830' FSL, 2130' FEL</u> <u>NWSE Section 19</u>		5. LEASE DESIGNATION AND SERIAL NO. <u>U-40406</u> 6. IF INDIAN, ALLOTTEE OR TRIBE NAME 7. UNIT AGREEMENT NAME 8. FARM OR LEASE NAME <u>Squaw Canyon Federal</u> 9. WELL NO. <u>10-19</u> 10. FIELD AND POOL, OR WILDCAT <u>Lower Desert Creek</u> 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <u>Section 19-T38S-R26E</u> 12. COUNTY OR PARISH <u>San Juan</u> 13. STATE <u>Utah</u>
14. PERMIT NO. <u>49-037-30785</u>	15. ELEVATIONS (Show whether DF, RT, or GR) <u>4980' GR</u>	DIVISION OF OIL, GAS & MINING RECEIVED MAR 11 1983

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) Supplemental History <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.)*

Drilled to a total depth of 5642', 2/1/83, and logged.

Set 4" liner at 5642' and cemented with 50 sx; TOL at 5031', 2/3/83.

Ran CBL-GR, bond looked good, 2/12/83.

Perforated 5570'-5578', 16 holes, 2 SPF, 2/14/83. Acidized perforations with 500 gallons 28% MSR 100 at average 1/2 BPM, 3700 psi, 2/16/83.

Ran Bottom Hole Pressure Survey, 2/24/83.

Acidized perforations 5570'-5578' with 11,000 gallons MSR 100 - 15% HCL and 15,000 gallons WF 40, 2/28/83. Swabbing and Flowing.

Plan to install pumping unit to establish stabilized rate.

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

SIGNED Barbara Laughlin TITLE Sr Drilling Tech DATE March 9, 1983

(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., Ste 1100, Denver, CO 80237

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1830' FSL, 2130' FEL
AT TOP PROD. INTERVAL: NWSE Section 19
AT TOTAL DEPTH:

5. LEASE
U-40406

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Squaw Canyon Federal

9. WELL NO.
10-19

10. FIELD OR WILDCAT NAME
Lower Desert Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 19-T38S-R26E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.
43-037-30785

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4980' GR

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"/>

DIVISION OF GAS & MINING

MAR 28 1983

(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.)*

Approximately March 14, 1983, the trash was removed and the trash pit covered on the above location.

Per phone conversation between Bob Turri of BLM and Neal Leafdale of Jerry Chambers Exploration Co. on March 24, 1983, the rig will stay stacked due to muddy conditions. Reclamation will be done as soon as location has dried.

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 25, 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.

April 25, 1983

State of Utah
Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

RE: Squaw Canyon Federal #10-19
NWSE Section 19-T38S-R26E
San Juan County, Utah
Lease U-40406

Gentlemen:

Jerry Chambers Exploration Co. hereby notifies your office that Giant Refining Company will be the transporter and purchaser of produced oil from the above captioned well.

If further information is required, please let me know.

Sincerely,

JERRY CHAMBERS EXPLORATION CO.

Barbara Laughlin
Senior Drilling Tech

BL/cbp

cc: Leafdale, N.

RECEIVED

APR 29 1983

DIVISION OF
OIL, GAS & MINING

CORE #2

Interval: 5,553'-5,583'

Cut: 30'

Recovered: 30'

5,553-5,554 SHALE - dkgy-blk, frm, blk, v calc.
5,554-5,555 SHALE - blk, frm-hd, blk, v calc.
5,555-5,556 SHALE - dkgy, frm, blk, calc.
5,556-5,557 DOLOMITE - brn, ltbrn, vfxln, hd, vp \emptyset , NSFOC.
5,557-5,558 DOLOMITE - dk brn, vfxln, hd, p \emptyset , NSFOC.
5,558-5,559 DOLOMITE - dk brn, vfxln, hd, p \emptyset , NSFOC.
5,559-5,560 DOLOMITE - dk brn, vfxln, frm-hd, p \emptyset , NF.
5,560-5,561 ANHYDRITE - wh, massive, w/calcite xlts.
5,561-5,562 ANHYDRITE - a/a.
5,562-5,563 ANHYDRITE - a/a.
5,563-5,564 ANHYDRITE - a/a.
5,564-5,565 ANHYDRITE - a/a.
5,565-5,566 ANHYDRITE - a/a.
5,566-5,567 ANHYDRITE - a/a.
5,567-5,568 DOLOMITE - dk brn, micxln, frm-hd, vp \emptyset , lt gn flor, p cut.
5,568-5,569 DOLOMITE - dk brn, vfxln, frm-hd, p \emptyset , NF.
5,569-5,570 DOLOMITE - dk brn-ltbrn, vfxln, hd, p \emptyset , fnt gn flor.
5,570-5,571 DOLOMITE - lt brn, vf-fxln, hd, p \emptyset , fnt gn flor, p cut.
5,571-5,572 DOLOMITE - lt brn-brn, vfxln, hd, p \emptyset , fnt gn flor, p cut.
5,572-5,573 DOLOMITE - lt brn, vf-fxln, hd, tr \emptyset , gn flor, p cut, f gn stn.
5,573-5,574 DOLOMITE - lt brn, vfxln, hd, p \emptyset , NF.
5,574-5,575 DOLOMITE - dk brn, fxln, hd, p \emptyset , NF.

CORE #2 (Cont.)

- 5,575-5,576 DOLOMITE - dk brn, vfxln, hd, p Ø, NF.
- 5,576-5,577 LIMESTONE - dk brn, micxln, hd, p Ø, NF.
- 5,577-5,578 LIMESTONE - a/a.
- 5,578-5,579 LIMESTONE - a/a.
- 5,579-5,580 LIMESTONE - a/a.
- 5,580-5,581 SHALE - dk brn, hd, blk, v calc, limy in pt.
- 5,581-5,582 SHALE - dk brn, hd, blk, v calc, limy in pt, fos.
- 5,582-5,583 LIMESTONE - dk brn, hd, micxln, v arg, vp Ø, fos, v
fnt gn flor, no cut.

10

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

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 _____

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)*
At surface 1830' FSL, 2130' FEL (NWSE Section 19)
At top prod. interval reported below Same
At total depth Same

43-037-30785

14. PERMIT NO. 30785

5. LEASE DESIGNATION AND SERIAL NO.

U-40406

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Squaw Canyon Federal

9. WELL NO.

10-19

10. FIELD AND POOL, OR WILDCAT

Lower Desert Creek

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

Section 19-T38S-R26E

12. COUNTY OR PARISH San Juan
13. STATE Utah

15. DATE SPUDDED 1/4/83
16. DATE T.D. REACHED 2/1/83
17. DATE COMPL. (Ready to prod.) 3/9/83
18. ELEVATIONS (OF REPORT, GR, ETC.)* 4980' GR
19. ELEV. CASINGHEAD -

20. TOTAL DEPTH, MD & TVD 5642'
21. PLUG, BACK T.D., MD & TVD 5639'
22. IF MULTIPLE COMPL. HOW MANY* -
23. INTERVALS DRILLED BY ROTARY TOOLS 5642'
CABLE TOOLS -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD) 5570' - 5578' Desert Creek
25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN
DIL-GR, CNL-EDC, BHC-Sonic
27. WAS WELL CORED Yes

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#	111'	17 1/2"	150 SX	-
8 5/8"	24#	1520'	12 1/4"	800 SX	-
5 1/2"	17#	5246'	7 7/8"	100 SX	-

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
4"	5031'	5642'	50	

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	5529'	5529'

31. PERFORATION RECORD (Interval, size and number)
5570'-5578', 16 holes, 2 SPF

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5570'-5578'	11,000 gal MSR-100-15% HCL & 15,000 gal WF-40

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
3/2/83	Pumping - National 160-200-74	Producing					
DATE OF TEST	HOURS TESTED	CHOKES SIZE	PROD'N FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
4/28/83	24		→	36	38	16	1.1
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
-	-	→	36	38	16	43.1	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
Vented (plan to sell)
TEST WITNESSED BY Neal Leafdale

35. LIST OF ATTACHMENTS
Core Analysis

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 5/6/83

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

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 33, 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), bottom(s) and name(s) (if any) for only the interval reported in item 33. 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		38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Desert Creek	5540'	5553'	Core #1, cut 13', recovered 13'. Core #2, cut 30', recovered 30'.
Desert Creek	5553'	5583'	
			NAME
			MEAS. DEPTH
			TRUE VERT. DEPTH
			TOP
			5270'
			5364'
			5496'
			5511'
			5608'
			Upper Ismay
			Ismay
			Gothic Shale
			Desert Creek
			Akah



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

July 13, 1983

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

Re: Well No. Squaw Canyon Fed. # 10-19
Sec. 19, T. 38S, R. 26E.
San Juan County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office May 6, 1983, from above referred to well, indicates the following electric logs were run: DIL-GR, FDC-CNL, BHC-Sonic. As of today's date, this office has not received these logs: BHC-Sonic.

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

We will be happy to acknowledge receipt of your 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 acknowledgment 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

Cari Furse
Well Records Specialist

CF/cf

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

JERRY CHAMBERS

3 M

EXPLORATION CO.

July 15, 1983

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

Re: U-40406
Squaw Canyon Federal #10-19
NWSE Section 19-T38S-R26E
San Juan County, Utah

Dear Mr. Martens:

Enclosed please find the original and two (2) copies of Form #9-331, Sundry Notices and Reports on Wells, requesting your approval for the Production Facilities Layout for the above referenced well.

If you have any questions, please contact our office.

Sincerely,

JERRY CHAMBERS EXPLORATION CO.



Barbara Laughlin
Sr Drilling Tech

cc: State of Utah
Neal Leafdale

RECEIVED
JUL 19 1983

DIVISION OF
OIL, GAS & MINING

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., Ste 1100, Denver, CO 80237

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
1830' FSL, 2130' FEL
AT SURFACE: NWSE Section 19
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

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)	<u>Production Facility Layout</u>		

5. LEASE
U-40406

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Squaw Canyon Federal

9. WELL NO.
10-19

10. FIELD OR WILDCAT NAME
Lower Desert Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 19-T38S-R26E

12. COUNTY OR PARISH | 13. STATE
San Juan | Utah

14. API NO.
43-037-30785

15. ELEVATIONS (SHOW DF, KDB, AND WD)

(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.)*

Attached for your approval, please find a Production Facilities Layout for the above well.

RECEIVED
JUL 19 1983

DIVISION OF
OIL, GAS & MINING

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

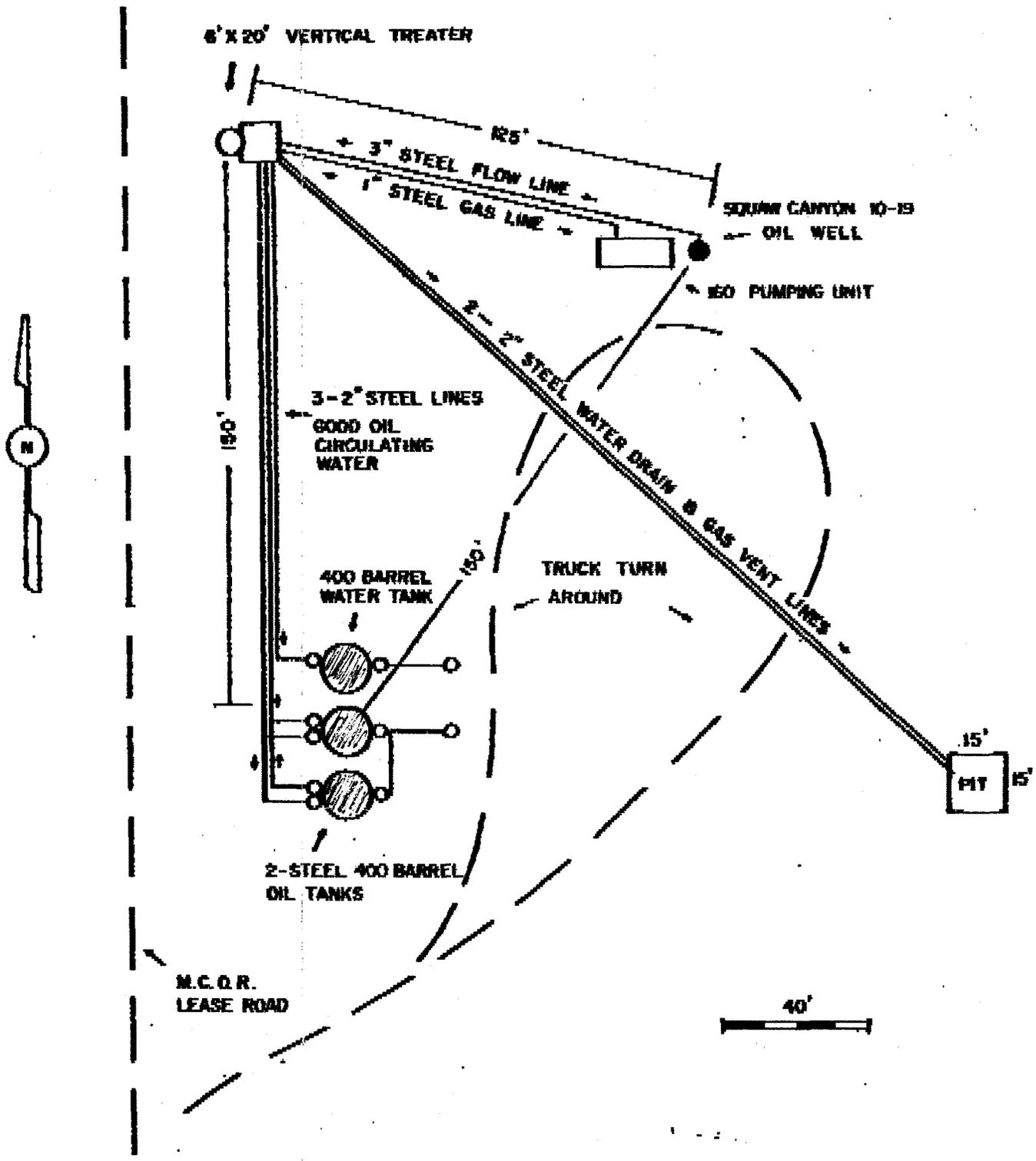
SIGNED Barbara Laughlin TITLE Sr Drilling Tech DATE July 15, 1983

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

JERRY CHAMBERS EXPLORATION CO.

Production Facilities Lay-out
Squaw Canyon 10-19
Sec. 19, T38S R26E
San Juan Co., Utah



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

JERRY CHAMBERS



EXPLORATION CO.

July 19, 1983

State of Utah
Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

Attention: Cari Furse, Well Records Specialist

RE: Squaw Canyon Federal #10-19
NWSE Section 19, T38S-R26E
San Juan County, Utah

Gentlemen:

Pursuant to your letter of July 13, 1983, enclosed is a revised Form OGC-3, Well Completion Report and Log, for the above captioned well. This revised report excludes BHC-Sonic on line 26, Type Electric and Other Logs Run. Jerry Chambers Exploration Co. did not run a BHC-Sonic Log on this well, and the reporting of it was done in error.

As suggested in your letter, we ask that you sign in the space provided below, acknowledging receipt of this letter. An extra copy of the letter and a self-addressed envelope are enclosed.

If there are any questions or if further information is needed, please contact our office. Thank you for bringing this matter to our attention.

Sincerely,

JERRY CHAMBERS EXPLORATION CO.

Barbara Laughlin
Senior Drilling Tech

BL/cbp

By:

Date:

7-22-83

RECEIVED

JUL 22 1983

DIVISION OF
OIL, GAS & MINING

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

5. LEASE DESIGNATION AND SERIAL NO.

U-40406

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Squaw Canyon Federal

9. WELL NO.

10-19

10. FIELD AND POOL, OR WILDCAT

Lower Desert Creek

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

Section 19-T38S-R26E

12. COUNTY OR PARISH

San Juan

13. STATE

Utha

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 _____

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)*

At surface 1830' FSL, 2130' FEL (NWSE Section 19)

At top prod. interval reported below

Same

At total depth

Same

43-037-30785

14. PERMIT NO. 30785 DATE ISSUED 9/27/82

15. DATE SPUDDED 1/4/83 16. DATE T.D. REACHED 2/1/83 17. DATE COMPL. (Ready to prod.) 3/9/83 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 4980' GR 19. ELEV. CASINGHEAD -

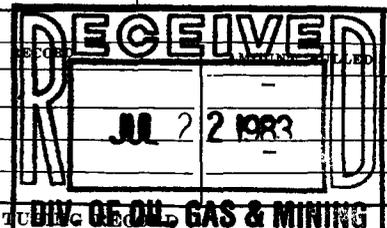
20. TOTAL DEPTH, MD & TVD 5642' 21. PLUG, BACK T.D., MD & TVD 5639' 22. IF MULTIPLE COMPL., HOW MANY* - 23. INTERVALS DRILLED BY 0' - 5642' ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 5570' - 5578' Desert Creek 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN DIL-GR, CNL-FDC 27. WAS WELL CORED Yes

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING
13 3/8"	48#	111'	17 1/2"	150 SX
8 5/8"	24#	1520'	12 1/4"	800 SX
5 1/2"	17#	5246'	7 7/8"	100 SX



29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4"	5031'	5642'	50		2 3/8"	5529'	5529'

31. PERFORATION RECORD (Interval, size and number) 5570' - 5578', 16 holes, 2 SPF

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5570'-5578'	11,000 gal MSR-100-15% HCL & 15,000 gal WF-40

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
3/2/83	Pumping - National 160-200-74	Producing					
DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
4/28/83	24			36	38	16	1.1
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
-	-		36	38	16	43.1	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented (plan to sell) TEST WITNESSED BY Neal Leafdale

35. LIST OF ATTACHMENTS Core Analysis

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 5/6/83 - 7/20/83

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 33, below regarding separate reports for separate completions.

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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), bottom(s) and name(s) (if any) for only the interval reported in item 33. 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		38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Desert Creek	5540'	5553'	Core #1, cut 13', recovered 13'.
Desert Creek	5553'	5583'	Core #2, cut 30', recovered 30'.
TOP			
NAME		MEAS. DEPTH	TRUE VERT. DEPTH
Upper Ismay Ismay Gothic Shale Desert Creek Akah		5270' 5364' 5496' 5511' 5608'	



MCOR OIL AND GAS CORPORATION
Jamestown Office Park, 3033 N.W. 63rd Street, Suite 250 E
Oklahoma City, OK 73116 • (405) 840-3285

July 28, 1983

BLM Oil & Gas
P. O. Box 3524
Durango, Colorado 81301

Attention: Mr. Carl Barrick

*File
Federal 3-19*

Re: Federal Lease
Section 19-38S-26E
San Juan County, Utah

Gentlemen:

We are requesting approval to vent the casinghead gas from the captioned lease per Section IV of NTL-4A. Continued trucking of the gas cannot be economically justified. Enclosed please find economic and engineering data to support our application.

Please advise us of your decision.

Sincerely,

MCOR Oil & Gas Corp.

D. L. Napier
District Production Manager

DLN/jlh

cc: F. L. Meade
F. H. Roth

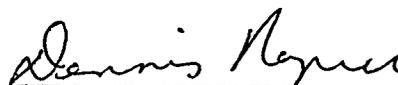
Federal - Section 19 Lease
Section 19-38S-26E
San Juan County, Utah

Economic Analysis: Continued Trucking of Natural Gas

Continued trucking of natural gas from the Federal - Section 19 Lease cannot be justified economically. Since October, 1981, produced gas has been moved by means of pressurized trailer-trucks to a gas sales line. During this 20 month period the wells have declined rapidly to the point where the lease is unprofitable with the high gas marketing costs. MCOR has not been successful in obtaining a purchaser to lay a gas sales line to the lease.

Application is being made under Section IV of NTL-4A with the BLM to allow us to vent the casinghead gas from this lease. Remaining reserves of 35,728 BO will be lost by premature abandonment if this application is denied.

An economic analysis and supporting engineering data is attached.



Dennis Napier
District Production Manager
MCOR Oil & Gas Corporation



MCOR OIL AND GAS CORPORATION
Jamestown Office Park, 3033 N.W. 63rd Street, Suite 250 E
Oklahoma City, OK 73116 • (405) 840-3285

August 15, 1983

RECEIVED
AUG 19 1983

State of Utah
Dept. of Oil & Gas Conservation
4241 State Office Bldg.
Salt Lake City, Utah 84114

**DIVISION OF
OIL GAS & MINING**

Attn: Mr. Ron Firth

Re: Federal Lease U-40401
Section 19-38S-26E
San Juan County, Utah

Gentlemen:

Enclosed are copies of correspondence, economic and engineering data, and Sundry Notice which were submitted to the BLM covering our request to flare casinghead gas production.

Also enclosed is a copy of BLM letter, which we received this date, permitting our proposal.

Thank you for granting verbal approval for the State of Utah as we discussed by phone this date.

Very truly yours,

MCOR Oil & Gas Corporation

G. R. Smith
Admin. Asst.

GRS/jlh

cc: Dennis Napier

RECEIVED
OCT 13 1983

ORAL APPROVAL TO PLUG AND ABANDON WELL

DIVISION OF OIL, GAS & MINING

Operator JERRY CHAMBERS EXPL. CO. Representative JIM WARD
 Well No. 10-19 Location 1/4 1/4 Section 19 Township 38S Range 26E
 Lease No. U-40406 Field Lower Desert Creek State UTAH

Well Name and Required Depth _____ Base of fresh water sands _____

T.D. 5642' Size hole and Fell per sack _____ " _____ ' and Top 11.6 #/gal. _____

Casing Size	Set At	Top of Cement	To Be Pulled	Plugging Requirements	
				From	To Sacks Cement
13 3/8"	111'	150 SK			
10 5/8"	1520'	800 SK		25 SK	@ Surface + Annulus.
5 1/2"	5246'	100 SK			
4" LINER	5031' Top	5642' Base	50 SK Shows		

set plug 1500' 1300' after plug @ 1500' & squeeze 100 SK
 if water is still coming in 5 1/2" casing annulus
 2600' 2400' Top plug.
 plug 2600' & squeeze 300 SK min. of heavy weight cement
 5050' 4950'
 5642' 5450'
 squeeze cement in annulus
 PERFS 5570'-5578'

REMARKS

DST's, lost circulation zones, water zones, etc., WATER FLOW @ 2738'; CONTAINED WITH 11.6 ppg mud. water @ present flowing from annulus of 5 1/2" casing

Approved by [Signature] Date 10-11-83 Time 10:22 a.m.

cc: opn. w/ord. of approval
 BLN MONTICELLO w/ord of approval

CER CONTROL BOOK WELL FILE

RECEIVED

SUBMIT IN TRIPLICATE* (See instructions on reverse side)

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

037 2 11383

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.

DIVISION OF OIL, GAS & MINING

WELL [] GAS WELL [] OTHER P & A []

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

1830' FSL, 2130' FEL NWSE Section 19

5. LEASE DESIGNATION AND SERIAL NO.

U-40406

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Squaw Canyon Federal

9. WELL NO.

10-19

10. FIELD AND POOL, OR WILDCAT

Lower Desert Creek

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

Section 19-T38S-R26E

14. PERMIT NO.

30785

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

4980' 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:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF []

FRACTURE TREAT []

SHOOT OR ACIDIZE []

REPAIR WELL []

(Other) []

PULL OR ALTER CASING []

MULTIPLE COMPLETE []

ABANDON* [X]

CHANGE PLANS []

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.)

Per oral approval on 10/11/83 by Mr. Assad Raffoul (BLM), the above well was plugged as follows:

Set 5 1/2" cement retainer @ 4880' & squeezed 75 sx below. Perforated 5 1/2" casing @ 2025' w/4 shots. Set 5 1/2" cement retainer @ 1812' & pumped 370 sx. Cement returns were obtained to surface. Spotted a 200' surface plug using 25 sx.

Released rig 10/13/83. Location will be cleaned and leveled and pits backfilled. A subsequent report of abandonment will be filed when location is ready for inspection. A regulation dry hole marker has been erected.

OK 10/12/83 RJK

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

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

SIGNED

Barbara Laughlin

TITLE Sr Drilling Tech

DATE October 18, 1983

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE



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

November 5, 1983

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

RE: Well No. Squaw Canyon
Federal 10-19
API # 43-037-30785
Sec. 19 T. 38S, R. 26E.
San Juan County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office May 6, 1983 - July 20, 1983 from the above referred to well, indicates the following electric logs were run: DII-GR, CNL-FDC. As of today's date, this office has not received these logs: DII-GR, CNL-FDC.

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

We will be happy to acknowledge receipt of your 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 acknowledgment 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

Claudia Jones
Well Records Specialist

CJ/cj

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

5. LEASE DESIGNATION AND SERIAL NO.

U-40406

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Squaw Canyon Federal

9. WELL NO.

10-19

10. FIELD AND POOL, OR WILDCAT

Lower Desert Creek

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

Section 19-T38S-R26E

12. COUNTY OR PARISH
San Juan

13. STATE
Utha

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 _____

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)*
At surface 1830' FSL, 2130' FEL (NWSE Section 19)

At top prod. interval reported below Same

At total depth Same

14. PERMIT NO. 30785 DATE ISSUED 9/27/82

15. DATE SPUNDED 1/4/83 16. DATE T.D. REACHED 2/1/83 17. DATE COMPL. (Ready to prod.) 3/9/83

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 4980' GR 19. ELEV. CASINGHEAD -

20. TOTAL DEPTH, MD & TVD 5642' 21. PLUG, BACK T.D., MD & TVD 5639' 22. IF MULTIPLE COMPL., HOW MANY* -

23. INTERVALS DRILLED BY ROTARY TOOLS 0'-5642' CABLE TOOLS -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 5570' - 5578' Desert Creek

25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN DIL-GR, CNL-FDC

27. WAS WELL CORED Yes

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#	111'	17 1/2"	150 SX	-
8 5/8"	24#	1520'	12 1/4"	800 SX	-
5 1/2"	17#	5246'	7 7/8"	100 SX	-

29. LINER RECORD			30. TUBING RECORD				
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4"	5031'	5642'	50		2 3/8"	5529'	5529'

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
INTERVAL (MD)	HOLES	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5570' - 5578'	16 holes, 2 SPF	5570'-5578'	11,000 gal MSR-100-15% HCL & 15,000 gal WF-40

33.* PRODUCTION							
DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)				TEST WITNESSED BY	
3/2/83	Pumping - National 160-200-74	Producing				Neal Leafdale	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
4/28/83	24			36	38	16	1.1
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
-	-		36	38	16	43.1	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
Vented (plan to sell)

35. LIST OF ATTACHMENTS
Core Analysis

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED B. Laughlin TITLE Senior Drilling Tech DATE 5/6/83-7/24/83
Barbara Laughlin

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

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 33, 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), bottom(s) and name(s) (if any) for only the interval reported in item 33. 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		38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Desert Creek	5540'	5553'	Core #1, cut 13', recovered 13'.
Desert Creek	5553'	5583'	Core #2, cut 30', recovered 30'.
			Upper Ismay Ismay Gothic Shale Desert Creek Akah
			MEAS. DEPTH 5270' 5364' 5496' 5511' 5608'
			TOP TRUE VERT. DEPTH

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

JERRY CHAMBERS



EXPLORATION CO.

November 15, 1983

Claudia Jones
State of Utah
Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

RE: Squaw Canyon Federal #10-19
NWSE Section 19-T38S-R26E
San Juan County, Utah

Dear Ms. Jones:

Pursuant to your letter of November 5, 1983, enclosed please find copies of the electric logs which were run on the above captioned well. This oversight is unexplainable as the State of Utah is on our Notice of Reports form, copy attached, which was distributed to the appropriate personnel.

Please acknowledge receipt of the enclosed logs by signing below and returning a copy of this letter in the self addressed envelope.

If there are any questions, or if further information or data is needed, please let me know.

Sincerely,

JERRY CHAMBERS EXPLORATION CO.

Barbara Laughlin
Senior Drilling Tech

BL/cbp

RECEIVED
NOV 18 1983

DIVISION OF
OIL, GAS & MINING

NOTICE OF REPORTS

**SQUAW CANYON FEDERAL #10-19
NWSE Section 19-T38S, R26E
San Juan County, Utah**

1. **JERRY CHAMBERS EXPLORATION CO.**
7800 East Union Ave., Suite 1100
Denver, Colorado 80237

Office: (303) 740-9000
Clint Goodwin (Geol.) (303) 697-5208
Jim Ward (Engr.) (303) 740-9000

(Chalaco, Ltd. 92%)
(Blackbird Co. 8%)
 1. Daily Reports: Phone/Telecopy
 2. "E" Logs: (2) Telecopy, field & final, Sepia
 3. Core Data: (2)
 4. DST: (2) Charts & fluid
 5. Survey Plat: (1)
 6. Government Forms: (1)
 7. Prognosis: (1)
 8. Well History & Drlg Timelog: (2)
 9. Notice of Oil Shows, DST, Logs, Core & Plug: Yes
 10. Mud Lots: (1)

2. **NEAL LEAFDALE**
Axem Resources Inc.
800 Werner Court, Suite 154
Casper, Wyoming 82601
 1. "E" Logs: (1) Final
 2. Core Data: (1)
 3. DST: (1)
 4. Well History & Drlg Timelog: (1)

3. **MINERALS MANAGEMENT SERVICE**
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104-3884

Office (801) 524-4590
E.W. Gwynn, Dist. Supr. (801) 582-7042 (Res.)
W.P. Martens, Drlg Engr. (801) 466-2780 (Res.)
R.A. Henricks, Prod. Engr. (801) 484-2294 (Res.)
A.M. Raffoul, Staff Engr. (801) 484-2638 (Res.)
 1. "E" Logs: (2) Field & final
 2. Core Data: (2)
 3. DST: (2)
 4. Well History & Drlg Timelog: (2)
 5. Notice of Oil Shows, DST, Logs, Core & Plug: Yes

4. **STATE OF UTAH**
Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

Office (801) 533-5771
Cleon B. Feight, Director (901) 466-4455 (Res.)
 1. "E" logs: (1) Final
 2. Core Data: (1)
 3. DST: (1)
 4. Well History & Drlg Timelog: (2)
 5. Notice of Plug: yes (immediately)

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

SUBMIT IN TRIPLICATE*
(See instructions on reverse side)

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.)

<p>1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Dry</p> <p>2. NAME OF OPERATOR Jerry Chambers Exploration Co.</p> <p>3. ADDRESS OF OPERATOR 7800 E. Union Ave., Suite 1100, Denver, Colorado 80237</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1830' FSL, 2130' FEL NWSE Section 19</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. U-40406</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME</p> <p>8. FARM OR LEASE NAME Squaw Canyon Federal</p> <p>9. WELL NO. 10-19</p> <p>10. FIELD AND POOL, OR WILDCAT Lower Desert Creek</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 19-T38S-R26E</p> <p>12. COUNTY OR PARISH 13. STATE San Juan Utah</p>
<p>14. PERMIT NO. 49-037-30785</p>	<p>15. ELEVATIONS (Show whether SF, RT, GR, etc.) 4980' GR</p>	

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

FULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other) Reclamation

(Other)

(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 the period of 10/4/84 to 10/10/84 the above location was cleaned and leveled and reseeded.

Well was plugged and abandoned on 10/13/83.

Location is ready for inspection.

Federal approval of this action is required before commencing operations.

ACCEPTED
APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 11/19/84
BY: [Signature]

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

SIGNED

Barbara Laughlin
Barbara Laughlin

TITLE Sr Drilling Tech

DATE November 12, 1984

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

ENTITY ACTION FORM - DOGM FORM 6

OPERATOR JERRY CHAMBERS EXPLOR. CO.
ADDRESS 7800 E. UNION AVE., SUITE 1100
DENVER, COLORADO 80237

OPERATOR CODE N0520
PHONE NO. ()

OPERATORS MUST COMPLETE FORM UPON SPUDDING NEW WELL OR WHEN CHANGE IN OPERATIONS OR INTERESTS NECESSITATES CHANGE IN EXISTING ENTITY NUMBER ASSIGNMENT.

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99998	10877	43-037-30785	SQUAW CANYON FED. 10-19	NWSE	19	38S	26E	SAN JUAN	N/A	6-14-88

COMMENTS:
WELL WAS PA'D 10-13-83. ENTITY ADDED AS PER TAX COMMISSION REQUEST. (CONNIE LARSEN)

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COMMENTS:
*Fed. lease
DSCR- Formation
other wells in sec. 19 operated by mCOR*

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COMMENTS:

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COMMENTS:

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COMMENTS:

- ACTION CODES: A - ESTABLISH NEW ENTITY FOR NEW WELL (SINGLE WELL ONLY)
B - ADD NEW WELL TO EXISTING ENTITY (GROUP OR UNIT WELL)
C - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO ANOTHER EXISTING ENTITY
D - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO A NEW ENTITY
E - OTHER (EXPLAIN IN COMMENTS SECTION)

(SEE INSTRUCTIONS ON BACK OF FORM)

L. Romero
SIGNATURE
ADMINISTRATIVE ANALYST 6-14-88
TITLE DATE