

**ENSERCH
EXPLORATION** INC

1230 River Bend Drive
Suite 136
Dallas, Texas 75247
214/630-8711

C. H. Peeples
Regional Drilling Manager
Western Region
Drilling Department

May 21, 1984

District Director
State of Utah
Natural Resources and Energy
Division of Oil, Gas and Mining
4241 State Office Building
Salt Lake City, Utah 84114

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MAY 24 1984

DIVISION OF OIL
GAS & MINING

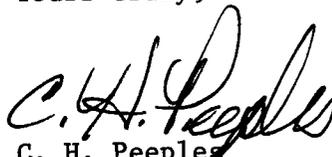
Re: APD-NTL6
Enserch Exploration, Inc.
Mineral Canyon Unit No. 1-14
Section 14-T26S-R19E - S.L.B.&M.
Grand County, Utah

Dear Sir:

We are currently in the process of filing the Application for Permit to Drill for the captioned well with the Bureau of Land Management. Two copies of this permit have been sent to your office with this letter for your review and approval.

It is anticipated that drilling operations will commence as soon as possible after the approval of this application. For this reason, your timely handling of this permit is greatly appreciated. If there are any questions or if additional information is required, please advise.

Yours truly,



C. H. Peeples
Regional Drilling Manager

DAC/hrs
Attach

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

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

2. NAME OF OPERATOR
 Enserch Exploration, Inc.

3. ADDRESS OF OPERATOR
 1230 River Bend Drive - Suite 136 - Dallas, Texas 75247

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 960' FSL & 1980' FEL (SW/4 - SE/4)
 At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 7-1/2 miles west from Potash, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 660'

16. NO. OF ACRES IN LEASE 200

17. NO. OF ACRES ASSIGNED TO THIS WELL 80

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None

19. PROPOSED DEPTH 8400'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6032' GR

22. APPROX. DATE WORK WILL START* ASAP after approval

5. LEASE DESIGNATION AND SERIAL NO.
 U-53387

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 N/A

7. UNIT AGREEMENT NAME
 Mineral Canyon

8. FARM OR LEASE NAME
 Mineral Canyon Unit

9. WELL NO.
 1-14

10. FIELD AND POOL, OR WILDCAT
 BIG PLATE

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
 Section 14-T26S-R19E
 S. L. B. & M.

12. COUNTY OR PARISH Grand
 13. STATE Utah

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#	1000'	Back to surface 1100 sacks
12-1/4"	9-5/8"	40#	4300'	1000' fill ~450 sacks
8-3/4"	5-1/2"	17#	8400'	Back to intermediate csg ~600 sacks

Propose to drill a 17-1/2 inch hole to 1000 feet and set a string of 13-3/8 inch surface casing. Cement will be circulated back to surface. Install a 13-5/8 inch x 13-3/8 inch, 3000 psi wellhead and BOP equipment. The BOP will be checked daily. A 12-1/4 inch hole will be air/mist drilled to the top of the Paradox Salt at 4300 feet. A string of 9-5/8 inch intermediate casing will be run to bottom and cemented into place. A 9-5/8 inch x 11 inch, 3000 psi wellhead will be installed along with the rig BOP equipment. The BOP equipment will be pressure tested prior to drilling out from under surface and intermediate casing. An 8-3/4 inch hole will be drilled to total depth. The well will be logged and if productive will set a string of 5-1/2 inch production. If the well is non-productive, plugs will be set as per M.M.S. requirements. The location will be restored according to B.L.M. instructions.

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

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give blowout preventer program, if any. If proposal is to drill or deepen directionally, give pertinent data on azimuth, inclination and measured and true vertical depths. Give blowout preventer program, if any.

DATE: 5/21/84
 BY: [Signature]

24. SIGNED: C. H. Peoples
 TITLE: Regional Drilling Manager
 DATE: 5/21/84

RECEIVED

MAY 24 1984

DIVISION OF OIL
 GAS & MINING

*See Instructions On Reverse Side

LIST OF ATTACHMENTS

CONDITIONS OF APPROVAL FOR PERMIT TO DRILL

- A. Drilling Program and H₂S Contingency Plan
- B. Thirteen Point Surface Use Plan

MINIMUM BLOWOUT PREVENTER REQUIREMENTS - EXHIBIT "A"

WELL LOCATION AND ELEVATION PLAT

LOCATION LAYOUT - CUT SHEET

LOCATION OF PRODUCTION FACILITIES

TOPOGRAPHIC MAP "A"

TOPOGRAPHIC MAP "B"

LOCATION OF EXISTING WELLS MAP "C"

CULTURAL RESOURCE INVENTORY

BONDING REQUIREMENTS

BUREAU OF LAND MANAGEMENT

MOAB DISTRICT

CONDITIONS OF APPROVAL FOR PERMIT TO DRILL

COMPANY: Enserch Exploration, Inc. WELL NO.: 1-14 Mineral Canyon Unit

LOCATION: Section 14-T26S-R19E LEASE NO.: U-53387

ON-SITE INSPECTION DATE: April 26, 1984

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to ensure compliance.

A. DRILLING PROGRAM

1. Surface Formation and Estimated Formation Tops:

<u>FORMATION</u>	<u>DEPTH</u>
Kayenta	Surface
Wingate	230'
Chinle	560'
Moenkopi	895'
Cutler	1505'
Hermosa	2700'
Paradox Salt	4280'
Cane Creek	7320'
Base of Salt	7321'
Mississippian Leadville	7470'
Mississippian Madison	7650'
Devonian Ouray	7940'
Devonian Elbert	8045'

2. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered:

	<u>FORMATION</u>	<u>DEPTH</u>
Expected Oil Zones:	Cane Creek	7320'
	Mississippian Leadville	7470'
	Mississippian Madison	7650'
	Devonian Ouray	7940'
	Devonian Elbert	8045'
Expected Gas Zones:	No specific gas zones are expected	
Expected Water Zones:	Paradox Salt (Salt H ₂ O)	4280'
Expected Mineral Zones:	Chinle (Uranium)	560'
	Paradox Salt (Potash & Salt)	4280'

All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth, cased and cemented. All oil and gas shows will be tested to determine commercial potential.

A Gamma Ray-Neutron, Gamma Ray-Sonic, or other appropriate logs shall be run promptly through the salt section. A directional survey shall be run from a point at least 20 feet below the salt section to the surface. The cementing of casing through the salt shall consist of salt saturated cement through out the entire interval.

3. Pressure Control Equipment:

Exhibit "A" is a schematic diagram of the minimum blow out preventer requirements. Minimum requirements consist of a hydraulically operated double ram preventer or equivalent with pipe and blind rams, rated to 3000 psi. Also will be installed an annular preventer equally rated to 3000 psi. This equipment will be installed and tested prior to drilling from under surface and intermediate casing.

Accessories to the BOP's include an upper and lower kelly cock, full opening safety valve and choke manifold with a pressure rating equivalent to the BOP stack. A rotating head will also be used when drilling the interval from 1000 feet to 4300 feet.

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

4. Casing Program and Auxiliary Equipment:

<u>SIZE</u>	<u>GRADE</u>	<u>WEIGHT</u>	<u>CONDITION</u>	<u>DEPTH</u>	<u>CEMENT TOP</u>
13-3/8"	H-40	48#	New	0 - 1000'	Surface
*9-5/8"	K-55	40#	New	0 - 4300'	1000' Fill
5-1/2"	K-55	17#	New	0 - 4000'	Cement
5-1/2"	S-95	17#	New	4000'- 7400'	back to
5-1/2"	N-80	17#	New	7400'- 8400'	9-5/8" casing

*(top of Paradox)

If a salt water flow occurs when drilling the interval below 4300 feet, then the following casing will be run instead of the 5-1/2 inch casing:

7"	S-95	29#	New	4000'- 7400'	Entire string cemented
4-1/2"	J-55	12.6#	New	7100'- 8400'	Entire string cemented

Anticipated cement tops will be reported as to depth, not the expected number of sacks. The Resource Area will be notified 24 hours in advance when running casing strings and cement.

The following auxiliary equipment will be used while drilling this well:

- (a) A lower kelly cock will be kept in the string.
- (b) A float will not be used at the bit.
- (c) A full opening safety valve will be kept on the floor to be stabbed into the drill pipe when the kelly is not in the string.
- (d) A mud logging unit and gas detecting device will be used from 2500 feet to T. D. to monitor the mud system.
- (e) A pit level recorder and flow sensor will be used from 4300 feet to total depth.
- (f) An H₂S gas detection and monitoring system will be installed at 1000' and will be operational for the completion of drilling operations of this well.
- (g) During air drilling operations a blooie line will be used. The line will be directed into a soil bank in the reserve pit at a point not less than 125' from the wellhead. A mist system will also be used so that dust cuttings will not cloud and disperse outside of the reserve pit area.

5. Mud Program and Circulating Medium:

The mud system will be gel-chemical with adequate stocks of sorptive agents and weight materials on site to handle any anticipated down-hole problems as well as possible spills of fuel and oil on the surface. Specifically, the following mud types are anticipated through the intervals indicated:

<u>DEPTH INTERVAL</u>	<u>MUD TYPE</u>	<u>MUD WEIGHT (ppg)</u>	<u>VISCOSITY (sec/qt)</u>	<u>WATER LOSS (cc)</u>
0 - 1000'	Aquagel/Lime	8.6- 8.8	32-40	NC
1000 - 4300'	Air/Air Mist	Air	Air	Air
4300 - 8400'	Saturated Salt	10.5-14.5	33-38	8-12

Blooiie line will be misted to reduce fugative dust when air drilling.

6. Coring, Logging and Testing Program:

(a) One conventional 60' core is anticipated to be cut in the Mississippian formation at approximately the following interval: 7690' - 7750'

(b) The logging program will consist of:
DLL/MSFL/GR - from total depth to 4300 feet
FDC/CNL/GR - from total depth to 4300 feet
Sonic/GR - from total depth to 4300 feet

Other logs will be determined at the well site to best evaluate any shows.

(c) Drill Stem Tests will be run if Hydrocarbon shows substantiate testing. Anticipated formations are the Mississippian Leadville (7600') and the Mississippian Madison (7700' & 7750').

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the District Office not later than thirty (30) days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, work-over, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Moab District Manager.

7. Abnormal Conditions, Bottom Hole Pressures and Potential Hazards:

High pressure salt water or oil-flows in the Paradox Salt are a common drilling problem in the area. These are extremely local in nature being related to the vagaries of fracturing and oil formation in what are generally almost impermeable shales confined between impermeable salt beds.

The pressures in these zones are ultimately unpredictable since most of the zones are very localized and the pressures are probably the result of in-situ petrogenesis. Most of the pressures have been such that they could be controlled with mud weights between 14 and 18 ppg.

No hydrogen-sulfide or other hazardous gases or fluids have been found, reported or known to exist at these depths in the area. However, an H₂S gas detection and monitoring device, warning sign, warning flags and windsock will be in operation prior to drilling into the Paradox formation at 4300 feet and used to total depth. In the unlikely event that H₂S is encountered, the drilling operations will be stopped and a complete H₂S safety system will be installed. The M.M.S. and B.L.M. will be notified and approval obtained before drilling operations recommence. Required H₂S contingency plan is attached.

8. Anticipated Starting Dates and Notification of Operations:

Location construction will begin as soon as possible after the approval of this application.

Spudding will occur as soon as possible after the completion of the surface location, approximately 7 days after receiving approval. The duration of drilling operations will be approximately 60 days.

The operator will contact the Grand Resource Area at (801)259-8193, forty-eight (48) hours prior to beginning any dirt work on this location.

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

The spud date will be reported orally to the Area Manager within a minimum of twenty-four (24) hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the District Office within twenty-four (24) hours after spudding. If the spudding occurs on a week-end or holiday, the written report will be submitted on the following regular work day.

8. Anticipated Starting Dates and Notification of Operations: -(Continued)

In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 9-329, "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed directly with the B.L.M. District Office, P. O. Box 970, Moab, Utah 84532.

IMMEDIATE REPORT: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Resource Area in accordance with requirements of NTL-3A. Notify Resource Area if H₂S is encountered within 24 hours.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed for prior approval of the District Manager, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig. In emergency situations, verbal approval to bring on a replacement rig will be approved by the District Petroleum Engineer.

Should the well be successfully completed for production, the District Manager will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) business days following the date on which the well is placed on production.

A first production conference will be scheduled within fifteen (15) days after receipt of the first production report. The Resource Area Office will coordinate the field conference.

No well abandonment operations will be commenced without the prior approval of the District Manager. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the District Petroleum Engineer. A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the District Manager within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Manager or his representative, or the appropriate surface managing agency.

Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed 30 days or 50 MMCF gas. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to guidelines in NTL-4A.

8. Anticipated Starting Dates and Notification of Operations:- (Continued)

Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. The marker will be constructed as follows: 4 feet above the ground, pile approximately 2 feet of dirt around the marker. The top of the marker will be closed or capped.

The following minimum information will be permanently placed on the marker with a plate, cap or beaded-on with a welding torch:

Enserch Exploration, Inc.
Mineral Canyon Unit No. 1-14
SW/4 - SE/4 - Section 14-T26S-R19E
Lease No. U-53387

H₂S CONTINGENCY PLAN

Enserch Exploration, Inc.
Mineral Canyon Federal No. 1-14
SW $\frac{1}{4}$ - SE $\frac{1}{4}$ - Section 14, T26S-R19E - S.L.B.&M.
Grand County, Utah

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I. INTRODUCTION:

Hydrogen sulfide (H_2S) gas is not anticipated to be a problem while drilling the Mineral Canyon Federal No. 1-14 as dangerous concentrations of H_2S have not been encountered or are known to exist in the area. The recently drilled Enserch Exploration Mineral Canyon Federal No. 1-3 in Section 3, T26S-R19E encountered only 30 ppm of H_2S gas from the sample chamber of a drill stem test in the Mississippian Leadville at 7549'. Total sample chamber gas was 0.75 cubic feet.

This contingency plan describes the equipment and procedures that will be used to monitor and control H_2S gas in the unlikely event that dangerous quantities are encountered.

II. PHYSICAL EFFECTS AND TOXICITY OF H₂S:

Hydrogen sulfide is extremely toxic. The acceptable concentration for eight-hour exposure is 20 ppm, which is 0.002 percent by volume. Hydrogen sulfide is heavier than air (specific gravity is 1.192) and colorless. It forms an explosive mixture with air between 4.3 and 46 percent by volume. For reference, the following table from API Recommended Practices 49, p.4 is presented which describes the physical effects of hydrogen sulfide at various concentrations.

TABLE II
PHYSICAL EFFECTS OF HYDROGEN SULFIDE*

Concentration			Physical Effects
percent (%)	ppm	grains/ 100 std. ft.3**	
0.001	10	.65	Obvious and unpleasant odor.
0.002	20	1.30	Safe for 8 hours exposure.
0.01	100	6.48	Kills smell in 3 to 15 minutes; may sting eyes and throat.
0.02	200	12.96	Kills smell shortly; stings eyes and throat.
0.05	500	32.96	Dizziness; breathing ceases in a few minutes; needs prompt artificial respiration.
0.07	700	45.36	Unconscious quickly; death will result if not rescued promptly.
0.10	1000	64.80	Unconscious at once; followed by death within minutes.

*Caution: Hydrogen sulfide is a colorless and transparent gas and is flammable. It is heavier than air and may accumulate in low places.

**At 15.00 psia and 60 F.

SOURCE: API RP 49, p. 4.

III. SAFETY EQUIPMENT:

The following safety equipment will be installed and operating prior to drilling out from under the 9-5/8 inch intermediate casing set at approximately 4300 feet.

A. Detection Equipment:

- 1 - Tac H₂S monitor with three sensor heads located one each at the bell nipple, floor and shale shaker.
- 1 - Warning system including a light and a siren.
- 1 - Well condition sign
- 1 - Poison gas sign
- 2 - Wind socks
- 1 - Tac 701 personnel H₂S gas detector (battery operated)
- 1 - Gastec pump type H₂S gas detector with supply of test tubes.

B. Air Packs:

- 2 - Scott 30 minute work units
- 4 - Robertshaw 5 minute escape units

C. Supplemental Equipment:

In the event H₂S is detected in concentrations exceeding 20 ppm a full compliance safety trailer will be installed.

IV. OPERATING CONDITIONS:

A. Condition I - pre-alarm condition

- 1. Condition exists when ppm is from 0 to 10.
- 2. Warning sign is a yellow flag displayed at the gate entrance to the location with a sign explaining that drilling is being conducted in a possible H₂S zone.
- 3. No alarm is used
- 4. This condition is characterized by drilling operations under control. Routine drilling operations are in zones that may contain hydrogen sulfide. The condition will be in effect continuously from 4300 feet to total depth unless it is necessary to go to condition II.

IV. OPERATING CONDITIONS: (continued)

5. General action of personnel

- (a) Be alert for condition change
- (b) Check safety and air breathing equipment for proper functioning, keeping equipment available.

B. Condition II - moderate danger to life

1. When the threshold limit value of H₂S (10 ppm to 49 ppm) is reached, the signs will be displayed.
2. If the concentration of H₂S reaches 10 ppm to 49 ppm, protective breathing apparatus shall be worn by all personnel, and all non-working personnel shall proceed to safe briefing areas.
3. The H₂S safety trailer will be immediately ordered to the location.

C. Condition III - extreme danger to life

1. When H₂S is determined to have reached the injurious level (50 ppm and over) the flags shall be hoisted in addition to the displayed signs.
2. All nonessential personnel or all personnel, as appropriate, shall be evacuated at this time.

V. DUTIES AND RESPONSIBILITIES OF PERSONNEL:

In the event that H₂S is detected by one of the electronic monitors, in a concentration greater than 10 ppm, visual and audio alarms will be activated on the rig floor and in the tool pusher trailer houses.

The driller will put on a five-minute emergency escape pack. He will then shut the well in, if possible, and evacuate to the unwind briefing area.

All other personnel will evacuate immediately to the upwind briefing area.

The tool pusher and/or company supervisor will account for all personnel and appraise the situation.

If a person is unaccounted for, two men will put on fresh-air breathing equipment and with safety ropes attached, will make a search of the location for the missing individual, using the buddy system and staying within eye-sight of each other at all times.

V. DUTIES AND RESPONSIBILITIES OF PERSONNEL: (continued)

If it is determined that an emergency situation exists - All fresh air breathing equipment will be checked for proper functioning prior to entering the hazardous area. Only personnel trained in the use of fresh-air breathing equipment will be allowed to enter the area. No one will enter the area alone or without a lifeline attached and no one will enter the area without fresh-air breathing equipment in use.

The driller and the motor man will go to the rig control station.

The derrick man will go to the remote BOP control station accompanied by a floor man.

One floor man will go to the access road, put up flags and signs and stop unauthorized personnel from entering the location.

The mud loggers, geologists, and other personnel not directly involved in controlling the situation will remain at the briefing area.

The Enserch Exploration supervisor and the tool pusher will direct the work toward bringing the well under control.

The Enserch Exploration drilling office will be notified by the Enserch supervisor of the problem as soon as possible. The drilling office will then notify authorities, government agencies, etc., as deemed necessary by the men on location. Any persons known to reside in the area will be contacted and informed of the situation. In the event that contact cannot be made, assistance from the local law enforcement will be requested to locate the individuals.

The floor man assigned to stop unauthorized personnel from entering the location may be asked to notify the residents in the area of the situation if conditions warrant.

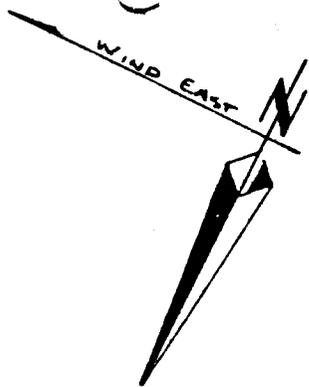
VI. DESIGNATED BRIEFING AREAS:

There will be two designated briefing areas for assembly of personnel during extremely dangerous conditions. Of these two areas, the one upwind at any given time is the safe briefing area.

Briefing Area No. 1 - will be located at the north east corner of the drill pad near the access road.

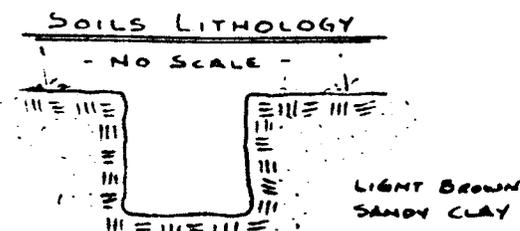
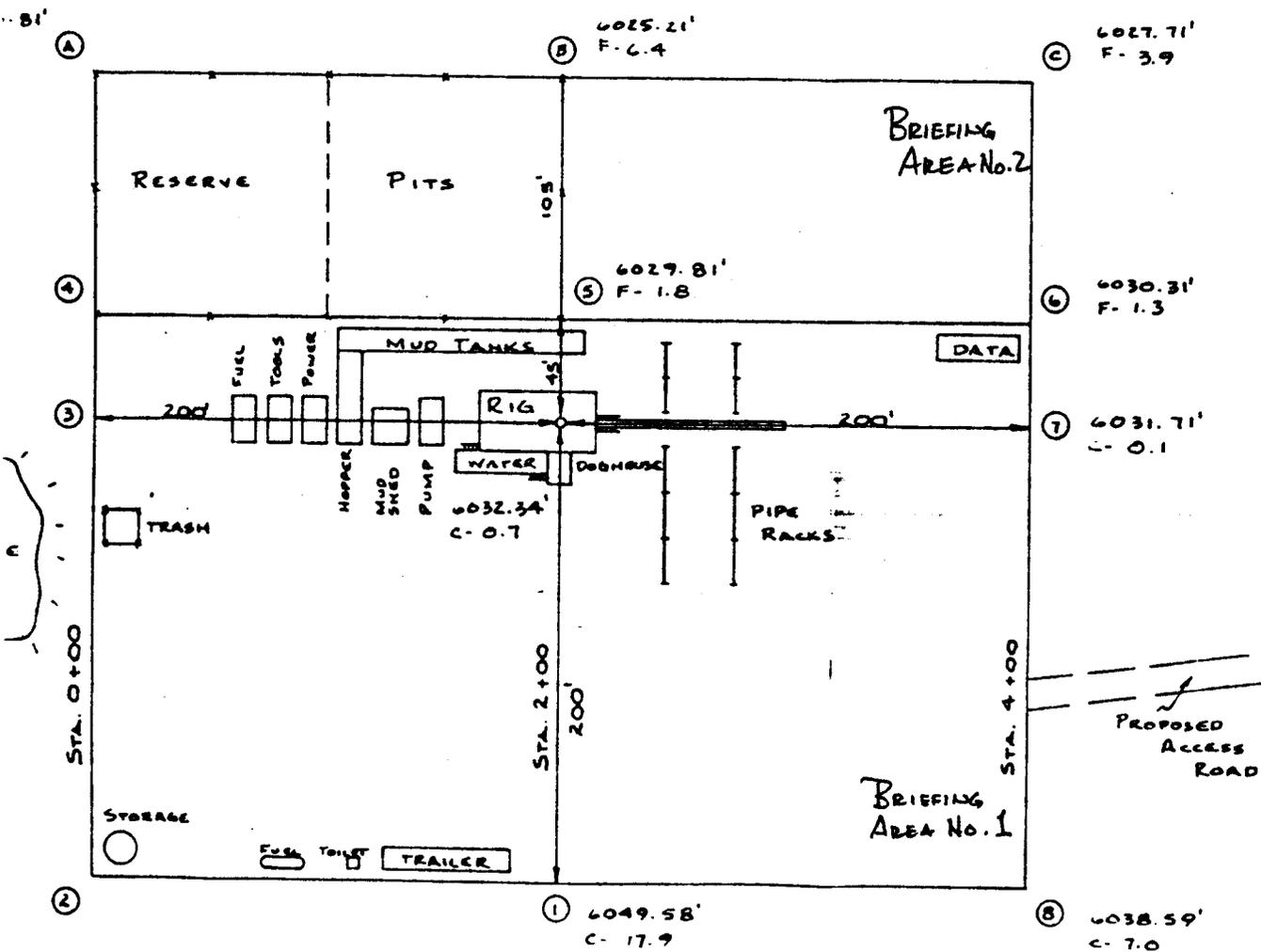
Briefing Area No. 2 - will be located at the south east corner of the drill pad.

These areas are shown on the attached location layout diagram.



SCALE: 1" = 50'

DATE: 2/27/84



1" = 10'

VII. AGENCIES TO BE NOTIFIED IN CASE OF EXTREME EMERGENCY:

- (a) Bureau of Land Management:
Grand Resource Area - Moab, Utah (801)259-6111
Moab District Office - Moab, Utah (801)259-6111
- (b) State of Utah, Division of Oil, Gas and Mining:
Salt Lake City, Utah (801)533-5771
- (c) Environmental Protection Agency:
Denver, Colorado (303)837-3895
- (d) State of Utah, Department of Environmental Quality:
Health Services Division - Salt Lake City, Utah -
(801)523-6121
- (e) State of Utah, Division of Parks & Recreation
Dead Horse Point State Park - Moab, Utah
(801)259-6511
- (f) National Park Service
Canyonlands National Park - Moab, Utah
(801)259-7164

VIII. EMERGENCY MEDICAL FACILITIES AND LAW ENFORCEMENT AGENCIES:

- (a) Ambulance:
Moab, Utah (801)259-7403
- (b) Hospital:
Moab, Utah - Allen Memorial Hospital - (801)259-7191
- (c) Helicopter Services:
Arrowhead Helicopters, Inc. Moab, Utah (801)259-5956
Luebell Helicopters Moab, Utah (801)259-8824
- (d) Utah State Highway Patrol:
Moab, Utah (801)259-5441
- (e) County Sheriff:
Moab, Utah (801)259-8115
- (f) Fire Department:
Moab, Utah (801)259-5551
- (g) Utah State National Guard:
Provo, Utah (801)373-1060
- (h) Civil Defense Agency:
Salt Lake City, Utah (801)533-4000
Moab, Utah - Cliff Aldridge (801)259-7575

B. THIRTEEN-POINT SURFACE USE PLAN

1. Existing Roads: See Attached Topographic Map "A" & "B"
 - a. The proposed well location is approximately 7 miles west northwest from Potash, Utah and 13 miles west southwest from Moab, Utah.
 - b. Proceed north out of Moab, Utah along U.S. Highway 163, 10.7 miles to the junction of this highway and Utah State Highway 313 to the west. Proceed west along Utah State Highway 313, 15 miles (approximately 1 mile south of the knoll) to the proposed access road entrance.
 - c. The highways 163 and 313 mentioned above are asphalt surfaced roads and are maintained by state crews. The existing dirt road leading to the proposed access road is a county road and is maintained by the county. There is no anticipated improvement on any portion of the above described roads. They will meet the necessary standards required to facilitate an orderly flow of traffic during the drilling phase, completion phase, and production phase of this well. (At such time that production is established).
 - d. The road that is required for access during the drilling phase, completion phase, and production phase of the well, will be maintained at the standards required by the Bureau of Land Management or other controlling agencies.
2. Planned Access Road: See Attached Topographic Map "B"
 - a. The maximum total disturbed width will be 20 feet.
 - b. Maximum Grades: No more than a 4% grade will exist on any portion of the access road.
 - c. Turnouts: No turnouts will be needed for this access road.
 - d. Location (Centerline): The proposed access road is to be constructed, leaving the county maintained dirt road in the center of the southern half of Section 14 - T26S-R19E - S.L.B.&M. and proceeds easterly for approximately 1000 feet to the location site.
 - e. Drainage: Proper drainage on each side of the road path will involve a maximum of 20 feet. When possible, existing drainages will be utilized at the low points in the road.
 - f. Surface Materials: All construction material for this road will be from native borrow accumulated during its construction. All vegetation will be stockpiled at the uphill side of the road.

2. Planned Access Road -(Continued)

- g. There are no fences encountered along this proposed road. There will be no new gates, cattleguards or culverts required. The construction design will be to Class III road standards. Surface disturbance and vehicular travel will be limited to the approved location and access road. Any additional area needed will be approved by the Area Manager in advance. The access road will be rehabilitated within sixty (60) days of dismantling of the drilling rig. If this time frame cannot be met, the Area Manager will be notified so that temporary drainage control can be installed along the access road.

3. Location of Existing Wells:

There are wells located within a two mile radius of the proposed location for this exploratory well. See Topographic Map "C" for the location of these wells relative to the proposed location site. (See location plat for placement of the Enserch Exploration, Inc. Mineral Canyon Unit No. 1-14 well location within the section).

- (1) Water wells - none
(2) Abandoned wells - See Topographic Map "C"

- A. Pure Oil - Big Flat No. 1
660' FSL & 1980' FEL - Section 14-T26S-R19E
P & A: January 7, 1982
- B. Pure Oil - Big Flat No. 3
633' FNL & 793' FEL - Section 23-T26S-R19E
P & A: January 7, 1982
- C. Energy Reserve - USA Sunburst No. 1
660' FSL & 660' FWL - Section 14-T26S-R19E
P & A: August 17, 1977
- D. Pure Oil - Big Flat No. 2
1980' FNL & 1980' FEL - Section 14 - T26S-R19E
P & A: October 3, 1962
- E. King Oil - Ruby No. 2
340' FSL & 1369' FEL - Section 11-T26S-R19E
P & A: July 9, 1956
- F. Tidewater Oil Company - "74" No. 11
2400' FNL & 2150' FWL - Section 11-T26N-R19E
P & A: October 10, 1959

3. Location of Existing Wells: (Continued)

G. Glen Ruby - Unit No. 1

4189' FSL & 944' FWL - Section 11-T26S-R19E
P & A: May 26, 1952

- (3) Temporarily Abandoned Wells - None
- (4) Disposal Wells - None
- (5) Drilling Wells - None
- (6) Producing Wells - None
- (7) Shut-in Wells - None
- (8) Injection Wells - None
- (9) Observation Wells - None

4. Location of Tank Batteries and Production Facilities:

There are no existing production facilities located within a one (1) mile radius of the proposed location.

If production is established, tank batteries will be placed on the southeastern most portion of the location, as shown on Exhibit "B" production facilities layout. All permanent (onsite for six (6) months or longer) structures constructed or installed (including oil well pump jacks) will be painted a flat, nonreflective, earth tone color to match the standard environmental colors, as determined by the Rocky Mountain Five-State Interagency Committee. All facilities will be painted within six (6) months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded. Colors will be as follows: Desert Brown or Carlsbad Canyon.

If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1-1/2 times the storage capacity of the battery.

All loading lines and valves will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.

All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.

Gas meter runs for each well will be located within five hundred (500) feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and downstream for the remainder of the pad. Meter runs will be housed and/or fenced.

4. Location of Tank Batteries and Production Facilities: (Continued)

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three (3) months on new meter installations and at least quarterly thereafter. The Area Manager will be provided with a date and time for the initial meter calibration and all future meter-proving schedules. A copy of the meter calibration reports will be submitted to the Resource Area Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

The reserve pit and that portion of the location not needed for production or production facilities will be reclaimed in the methods described in the rehabilitation section - Point #10. All of the stockpiled topsoil will be used in reclaiming the unused areas. This will be done and approved before any production equipment is installed.

5. Location and Type of Water Supply:

Fresh water to be used for the drilling and production of this well will be hauled from the Colorado River in Section 26-T25S-R21E. This source is located on BLM land and the water haulers used will be required to have permits to obtain the water. Brine water will be obtained from private sources within the City of Moab.

A temporary water use permit for this operation will be obtained from the Utah State Engineer, Price Utah. Water obtained on private land, or land administered by another agency, will require approval from the owner or agency for use of the land.

6. Source of Construction Material:

All construction material for this location site and access road shall be borrow material accumulated during construction of the location site and access road. No additional road gravels or pit lining materials from other sources are anticipated at this time, but if they are required, the appropriate actions will be taken to acquire them from private sources.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3. Source of construction material will be located on lease.

7. Methods of Handling Waste Disposal:

The reserve pit will be lined in a manner sufficient to prevent seepage. The reserve will be of sufficient size to contain all drilling fluids and cuttings during drilling.

The reserve pit will be approximately 8' deep and at least one half of this depth shall be below the surface of the existing ground.

The pits will have overhead wire with flagging installed at such a time as deemed necessary to protect the water fowl, wildlife, and some domestic animals.

When the reserve pit dries and reclamation activities commence, the pits will be covered with a minimum of four feet of soil and all requirements in Item #10 will be followed.

Three sides of the reserve pit will be fenced with 4 strand barbed wire before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying.

All trash must be contained in a portable trash cage and disposed of in a sanitary landfill.

There will be no burning allowed on this location.

Produced waste water will be confined to a lined pit for a period not to exceed ninety (90) days after initial production. During the ninety (90) day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the District Manager's approval pursuant to Onshore Oil and Gas Order No. 3 (NTL-2B).

A portable chemical toilet will be supplied for human waste. Grey water will be drained into a rathole alongside the trailers.

8. Ancillary Facilities:

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

During the drilling operation trailers will be on location to house Enserch Exploration, Inc. personnel, the drilling contractor's tool pusher and the mud loggers.

9. Well Site Layout:

See attached location layout of drilling rig and cross sections.

An Enserch Exploration, Inc. representative or the dirt contractor will contact the BLM Grand Resource Area Office in Moab, Utah (Phone: 801/259-8193) forty-eight (48) hours prior to beginning any work on public land. The contractor will be furnished with an approved copy of the surface use plan and any additional BLM stipulations prior to the commencement of any work.

The reserve pit will be located on the Southeast corner of the location.

The top 6 inches of soil material will be removed from the location and windrowed separately on the north and east side of the location. Topsoil along the access road will be reserved in place adjacent to the road.

Access to the well pad will be from the west side of the location.

Excess construction material will be windrowed on the south and east side, adjacent to the reserve pit.

A back stop, water mist and knockdown will be installed for the air mist blooie line.

If subsurface cultural material is exposed during construction, work in that spot will stop immediately and the BLM Grand Resource Area office will be contacted. All employees working in the area will be informed by Enserch Exploration, Inc. that they will be subject to prosecution if they are caught disturbing archaeological sites or picking up artifacts. Salvage or excavation of identified archaeological sites will only be done if damage occurs.

10. Plans for Restoration of Surface:

Immediately upon 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 portable trash cage and will be hauled to a local town dump site. Do not leave any trash in pits.

The operator or his contractor will contact the Grand Resource Area BLM office in Moab, Utah, (Phone: 801/259-8193), forty-eight hours prior to starting rehabilitation work that involves earthmoving equipment and upon completion of restoration measures.

Before any dirt work to restore the location takes place, the reserve pit will be completely dry and any trash (barrels, metal etc.) it contains will be removed from public lands.

10. Plans for Restoration of Surface: (Continued)

All disturbed areas will be recountoured to blend as nearly as possible with the surrounding area.

The stockpiled/windrowed topsoil will be evenly distributed over the disturbed area.

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and ripped to a depth of 8 inches and left with a rough surface.

Seed will be broadcast or drilled at a time specified by the BLM. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage.

The following seed mixture will be used:

Grasses

		lb/ac
Oryzopsis hymenoides	Indian ricegrass	2
Sporobolus cryptandrus	Sand dropseed	2
Bouteloua gracilis	Blue grama	2

Forbs

Helianthus annuus	Common sunflower (Kansas sunflower)	1/2
Melilotus officinalis	Yellow sweetclover	1/2
Sphaeralcea coccinea	Scarlet globemallow	1/2

Shrubs

Atriples canescens	Fourwing saltbrush (White greasewood)	2
Aurotia lanata	Winterfat (Whitesage)	2
		<u>11½ lbs/ac.</u>

The reserve pit and that portion of the location and access road not needed for production or production facilities will be re-claimed.

Additional Requirements:

Warning signs indentifying heavy oilfield traffic will be posted at the lower cattleguard on the state highway and at the rise before the Island in the Sky road intersection. Another sign will be posted at the intersection of the Island in the Sky road and the location access road. This sign will identify heavy oilfield traffic and will restrict access to authorized personnel.

11. Surface and Mineral Ownership:

Bureau of Land Management
Utah State Office

University Club Building
136 East South Temple
Salt Lake City, Utah 84111

Own both surface and minerals

12. Other Information:

The rig will be moved during the weekdays to minimize traffic congestion with tourists.

Topography: The proposed location is a portion of a mesa known as Big Flat. This area borders the canyons formed by the Colorado River through the Moab Valley to the east and the Green River to the west. The terrain in the immediate vicinity consists of mostly surface rock being of the Kayenta sandstone formation.

Runoff from this area flows west to north-west into the South Fork of Mineral Canyon which in turn feeds into the Green River at a point approximately 11.5 miles west from the drill stie.

Geologic Features: The geological structures of the area that are visible are of the Kayenta Formation, Triassic Period. Visible canyon erosion consists of Jurrassic, Triassic, Permian and Upper Pennsylvanian period formations.

Flora: Vegetation surrounding the proposed location includes Four Winged Saltbrush, Shadscale, Big Sagebrush, Morman Tea, Seed Lily, Prickly Pear Cactus and Bunch Grass. Trees located in the area consist of Pinyon Pine and Utah Juniper.

Fauna: Mule deer, coyotes, rabbits, and varieties of small ground squirrels and other types of rodent, and various reptiles are common to the area.

Due to the roughness of the terrain, surface use activities are limited. The total surface ownership affected by this location is administered by the Bureau of Land Management.

The nearest permanent water from the proposed location is the Colorado River 7 miles to the east.

The closest occupied dwelling is the Dead Horse Point State Park Visitor's Center 5 miles to the south-east.

There are no visible archaeological, historical, or cultural sites within the boundaries of the proposed location. See Archaeological Cultural Resources Inventory attached.

12. Other Information: (Continued)

There will be no deviation from the proposed drilling and/or workover program without prior approval from the District Manager. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFR 3162.2.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3164.

The dirt contractor will be provided with an approved copy of the surface use plan.

If any cultural resources are found during construction, all work will stop and the Area Manager will be notified.

This permit will be valid for a period of one (1) year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

The BLM, Moab, Utah District Office will be notified a minimum of twenty-four (24) hours prior to spud of the well. BLM District Office - Moab, Utah - Phone: (801)259-6111

13. Lessee's or Operator's Representative and Certification Representative:

Operators Representative:

Dennis Cox
Enserch Exploration, Inc.
1230 River Bend Drive
Suite 136
Dallas, Texas 75247
Phone: (214)630-8711

Certification Representative:

C. H. Peebles
Enserch Exploration, Inc.
1230 River Bend Drive
Suite 136
Dallas, Texas 75247
Phone: (214)630-8711

13. Lessee's or Operator's Representative and Certification
Representative: (Continued)

Certification:

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

5/21/84
Date

C. H. Peeples
C. H. Peeples
Regional Drilling Manager

Onsite:

Date: April 26, 1984

Participants:
Wayne Svejnoha
Dusty Kinchen
Kevin G. Cheri

Gene Stewart
Leonard Heeny

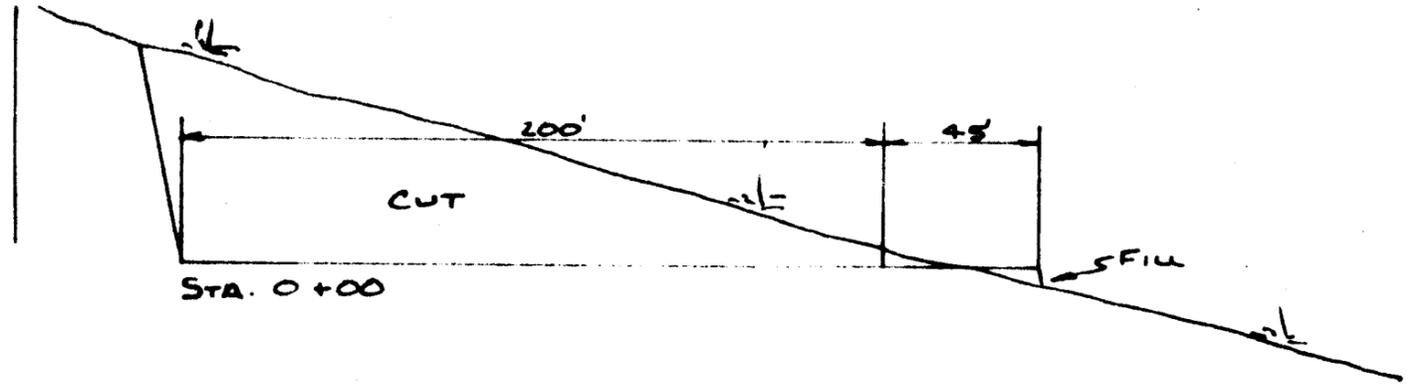
Titles:
Environmental Scientist B.L.M.
Drilling Engineer - Enserch Expl., Inc.
District Ranger -
Island in the Sky - N.P.S.
Utah Engineering
Ross Construction

District Office Contact: Lynn Jackson
Office Phone: (801)259-6111
City: Moab State: Utah

Resource Area Manager's address and contact:
Address: Grand Resource Area, B.L.M.
Sand Flats Road, P. O. Box M, Moab, Utah 84532

Resource Area Contact: Wayne Svejnoha
Office Phone: (801)259-6111

ENSERCH EXPLORATION MINERAL CANYON UNIT #1-14



C
R
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E
C
T
I
O
N
S

STA. 0+00

STA. 2+00

STA. 4+00

PROPOSED GRADE - 6031.64'

6027.71'
F-3.9

6030.31'
F-1.3

6031.71'
E-0.1

6038.59'
E-7.0

PROPOSED
ACCESS
ROAD

CUT

LOCATION STAKE 2

1:1 SLOPE
(TYP.)

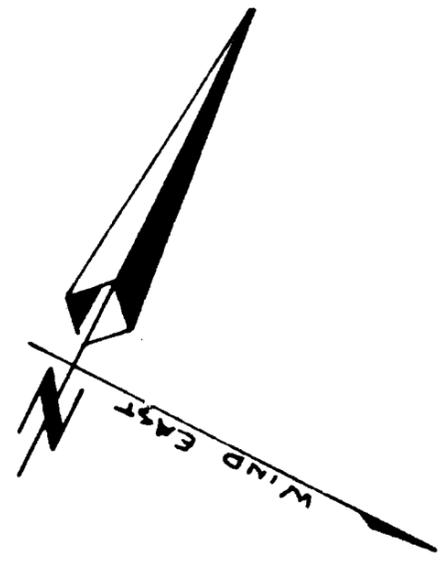
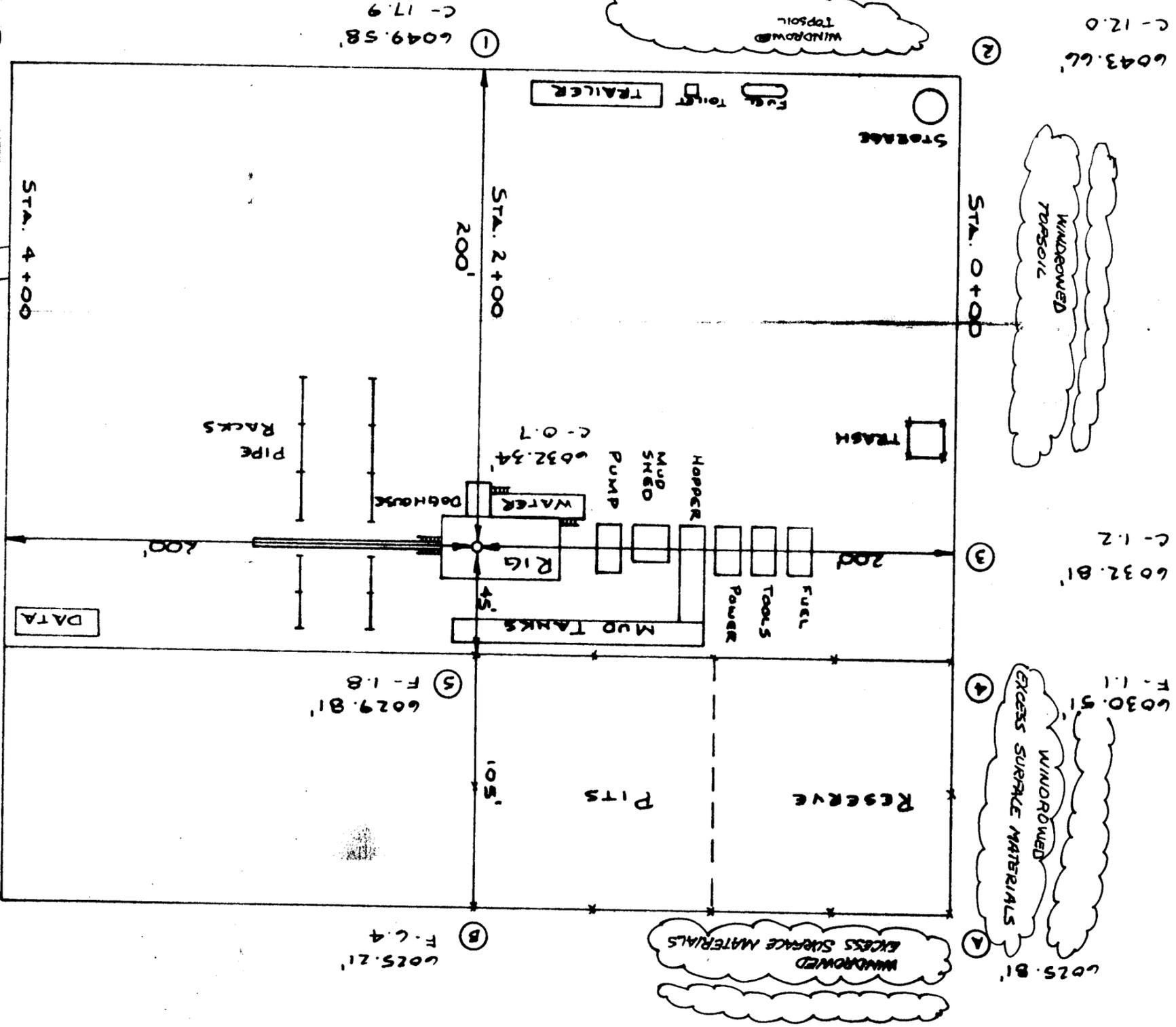
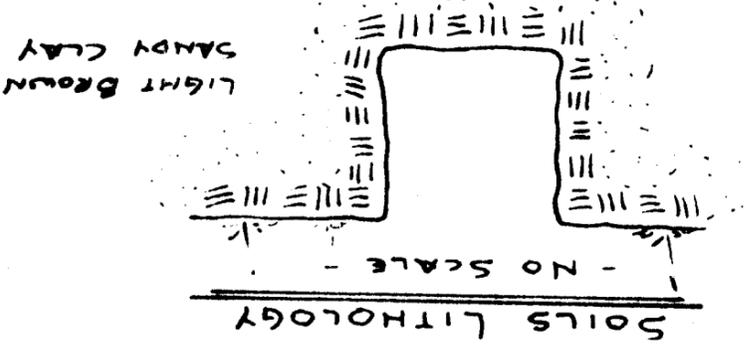
EXISTING
GROUND

1" = 10'
1" = 50'

APPROXIMATE YARDAGES

CUBIC YARDS CUT = 24,040

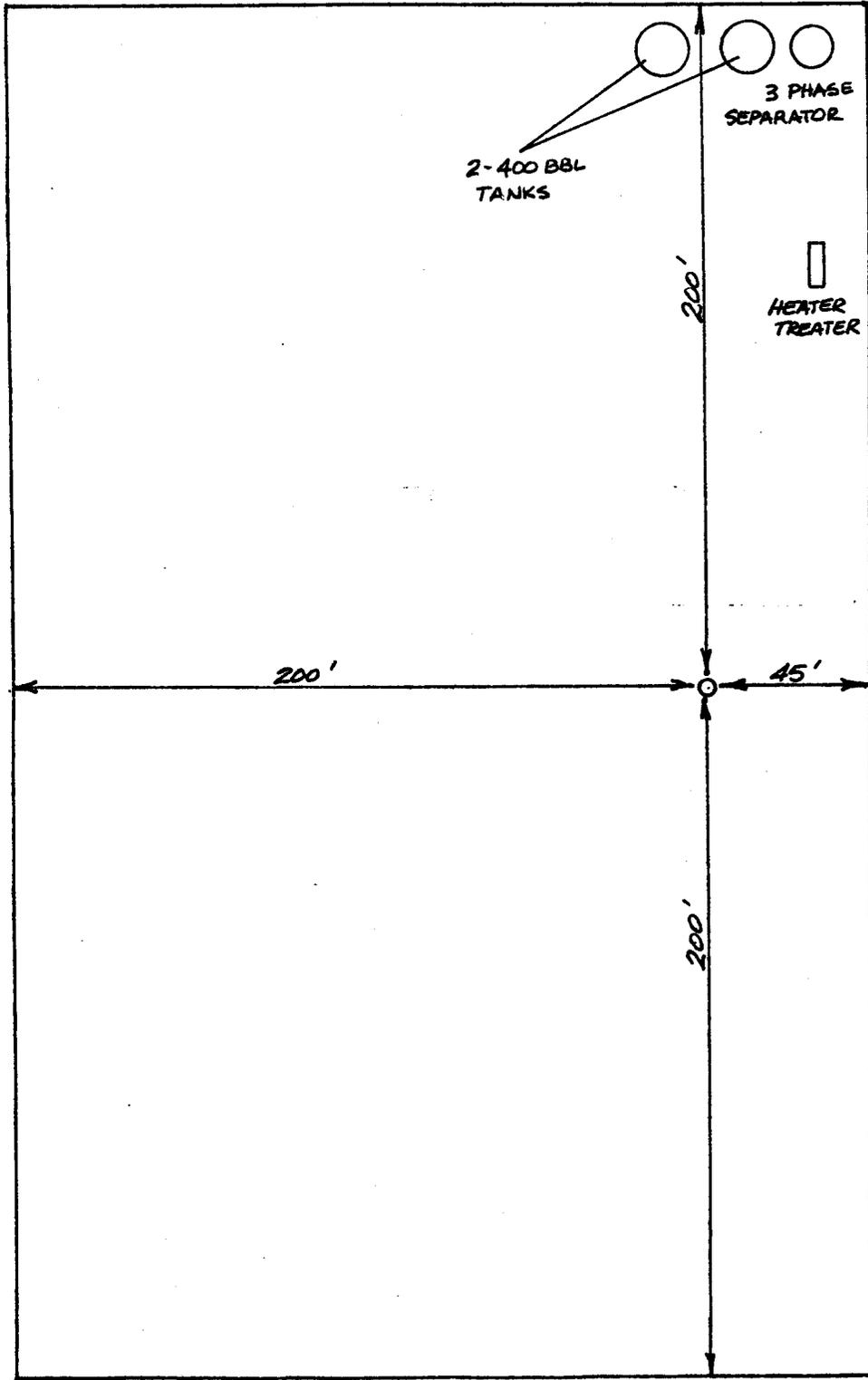
CUBIC YARDS FILL = 3,270

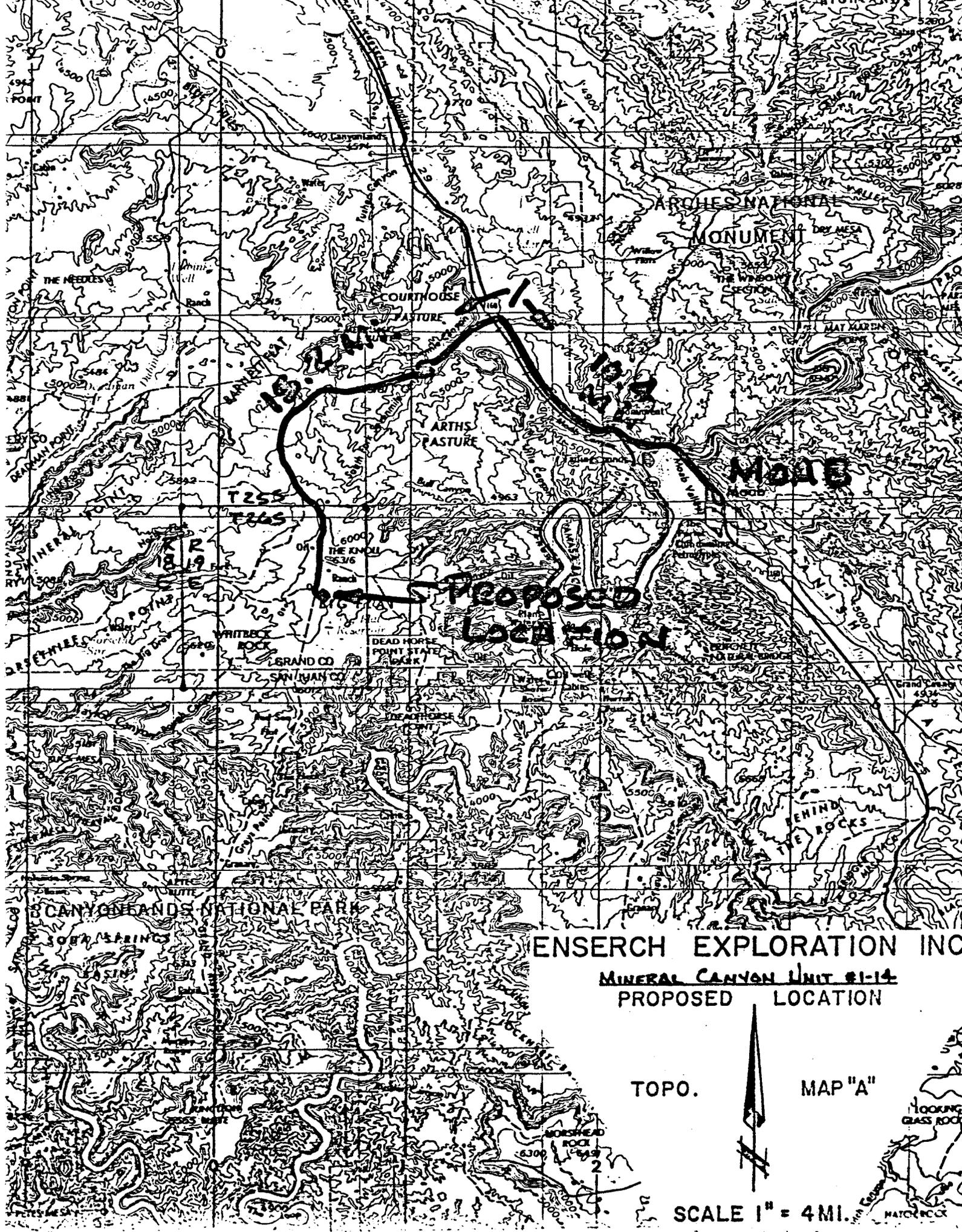


SCALE: 1" = 50'
DATE: 2/27/84

ENSEN H EXPLORATION, INC.
MINERAL CANYON UNIT NO. 1-14

EXHIBIT "B"





**Proposed
Location**

ENSERCH EXPLORATION INC.

MINERAL CANYON UNIT 81-14

PROPOSED LOCATION

TOPO.

MAP "A"

SCALE 1" = 4 MI.

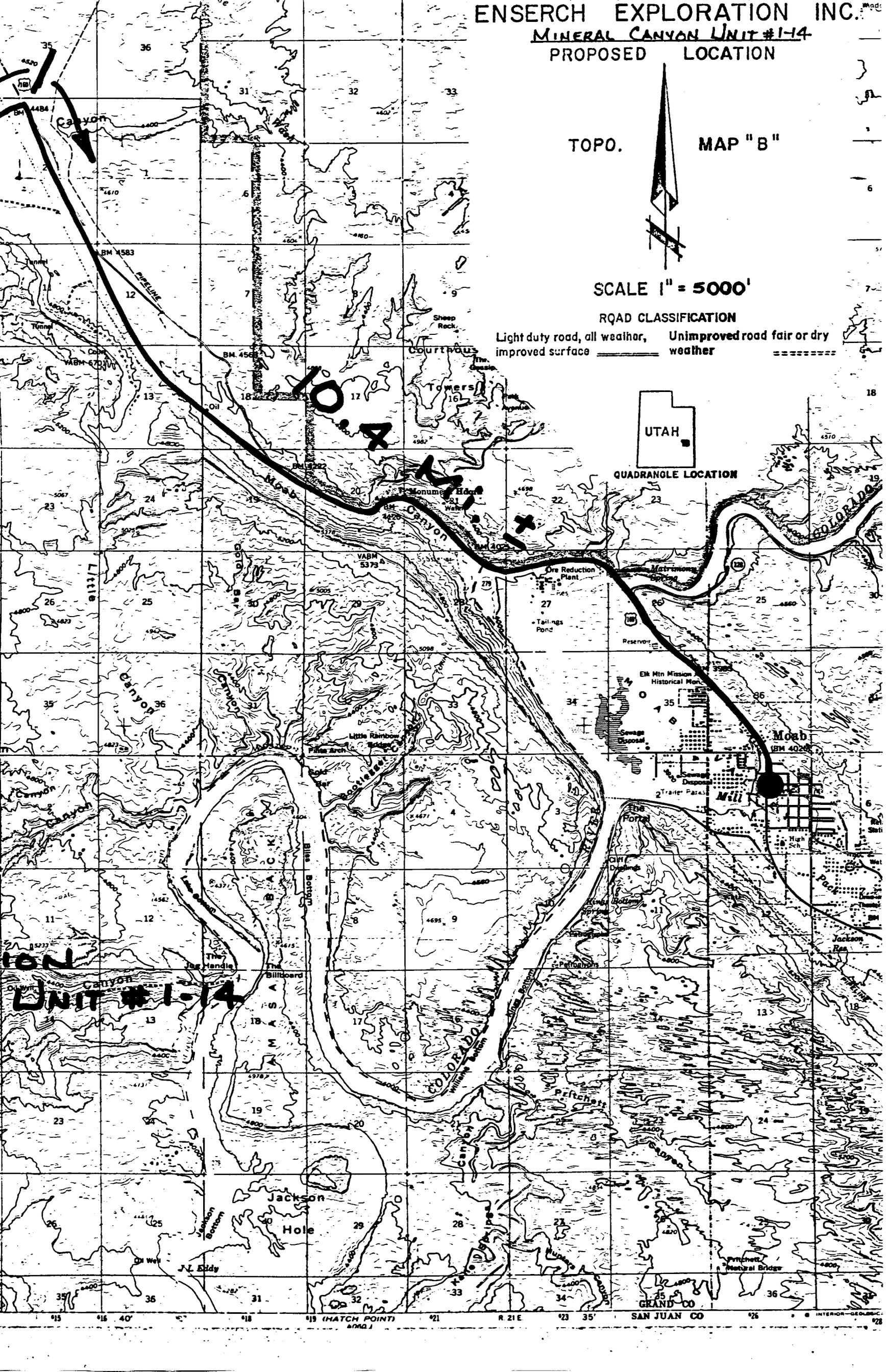
LOOKING
GLASS ROCK

MATCH ROCK

ENSERCH EXPLORATION INC.

MINERAL CANYON UNIT #1-14

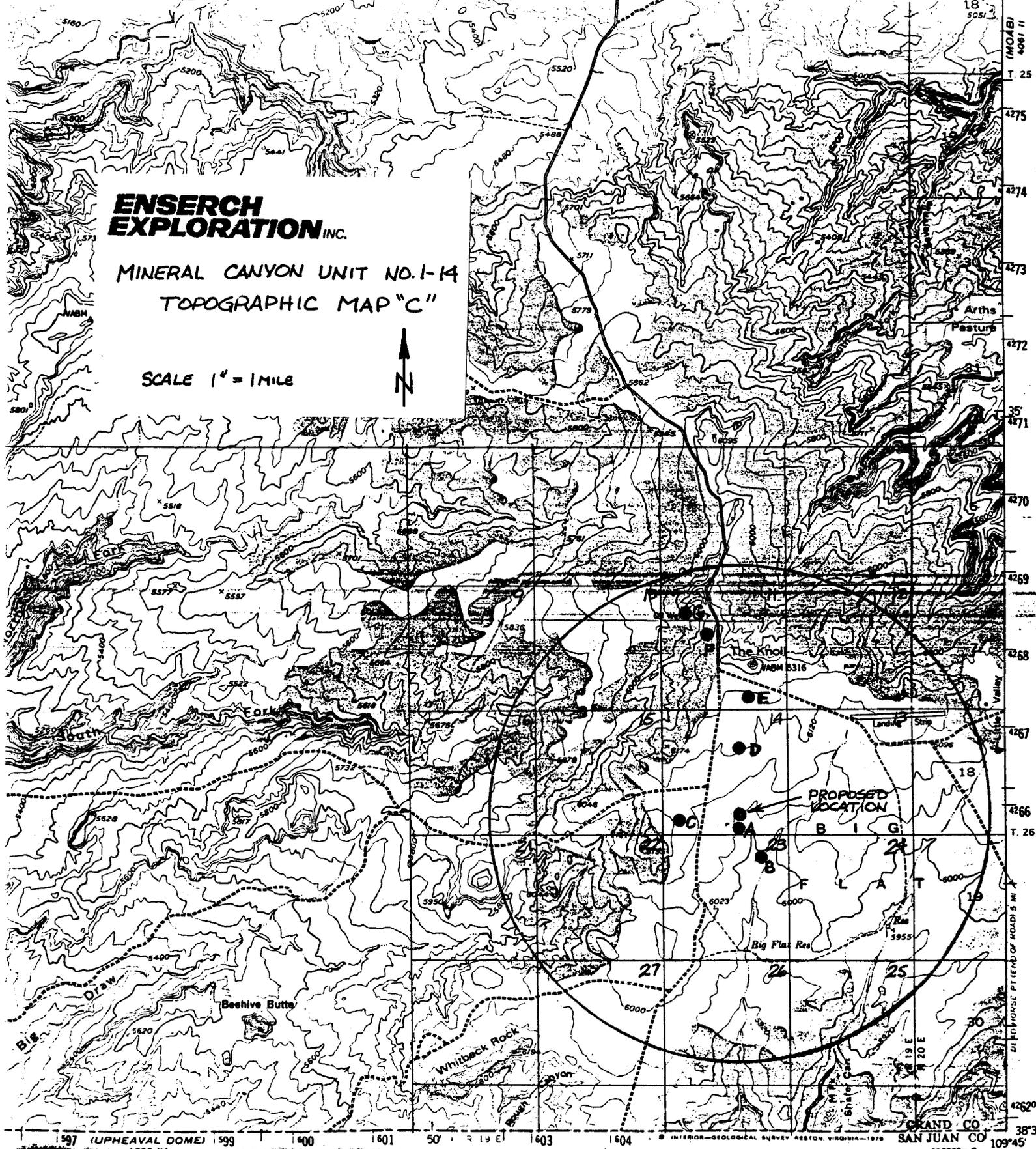
PROPOSED LOCATION



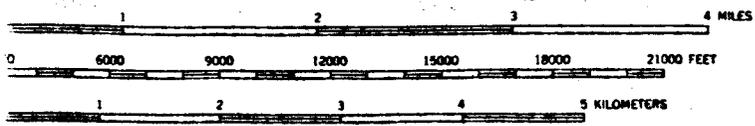
**ENSERCH
EXPLORATION INC.**

**MINERAL CANYON UNIT NO. 1-14
TOPOGRAPHIC MAP "C"**

SCALE 1" = 1 MILE



197 (UPHEAVAL DOME) 199 600 601 50 19 E 603 604 INTERIOR GEOLOGICAL SURVEY RESTON, VIRGINIA—1976 SAN JUAN CO 109°45' 60g000m E

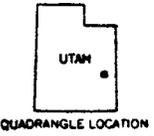


CONTOUR INTERVAL 40 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
GEOLOGICAL SURVEY DENVER COLORADO 80225, OR RESTON VIRGINIA 22092

ROAD CLASSIFICATION

Heavy-duty	4 LANE 4 LANE	Light-duty	2 LANE 2 LANE
Medium-duty	4 LANE 2 LANE	Unimproved dirt	2 LANE 2 LANE
	U. S. Route		State Route



THE KNOLL, UTAH
N3830—W10945/15

U.S.
Department of the Interior
Bureau of Land Management
Utah State Office

Summary Report of
Inspection for Cultural Resources

For BLM Use Only

BLM Report ID No. 11-114
Report Acceptable Yes No
Mitigation Acceptable Yes No
Comments: _____

1. Report Title Mineral Canyon Unit 11-14

2. Development Company Enserch Exploration, Inc., Dallas, Texas

3. Report Date 04 1984 4. Antiquities Permit No. 83-UT-214

5. Responsible Institution Grand River Hills County Grand

6. Fieldwork Location: TWN 26S Range 19E Section(s) 70 71 72 73 74 75 76 77
 TWN 78 81 Range 82 85 Section(s) 86 87 88 89 90 91 92 93

7. Resource Area GR TWN 94 97 Range 98 101 Section(s) 102 103 104 105 106 107 108 109

PO=PONY EXPRESS, BR=BEAR RIVER, PR=PRICE RIVER, WS=WARM SPRINGS
 BC=BOOK CLIFFS, HR=HOUSE RANGE, SE=SEVIER RIVER
 HM=HENRY MOUNTAINS, BE=BEAVER RIVER, DX=DIXIE
 KA=KANAB, ES=ESCALANTE, SJ=SAN JUAN, GR=GRAND
 SR=SAN RAFAEL, DM=DIAMOND MOUNTAIN.

Fill in spaces 65, 69, 81, 85, 97, 101 Only if:
 V=Vernal Meridian
 H=Half Township

8. Description of Examination Procedures:

A 100 % pedestrian survey of the proposed Mineral Canyon Unit 1-14 well location was made by walking a pattern of concentric circles around the center stake to a diameter of approximately 750', thus covering an area of approximately 10 acres. Approximately 1000' of existing access was also inspected to a width of 200'.

9. Linear Miles Surveyed and/or 112 117
 Definable Acres Surveyed and/or 110 123
 * Legally Undefinable Acres Surveyed 124 129

10. Inventory Type I
 R= Reconnaissance
 I= Intensive
 S= Statistical Sample

11. Description of Findings (attach appendices, if appropriate) No significant cultural resources were identified in the study area. The literature search revealed site 42GR837 to lie 600' east of the study area, site 42GR912 1200' southwest, and site 42GR913 1200' west.

12. Number Sites Found: 10
 No sites = 0 131 133

13. Collection: N Yes=Yes, N=No 136

14. Actual/Potential National Register Properties Affected:

None.

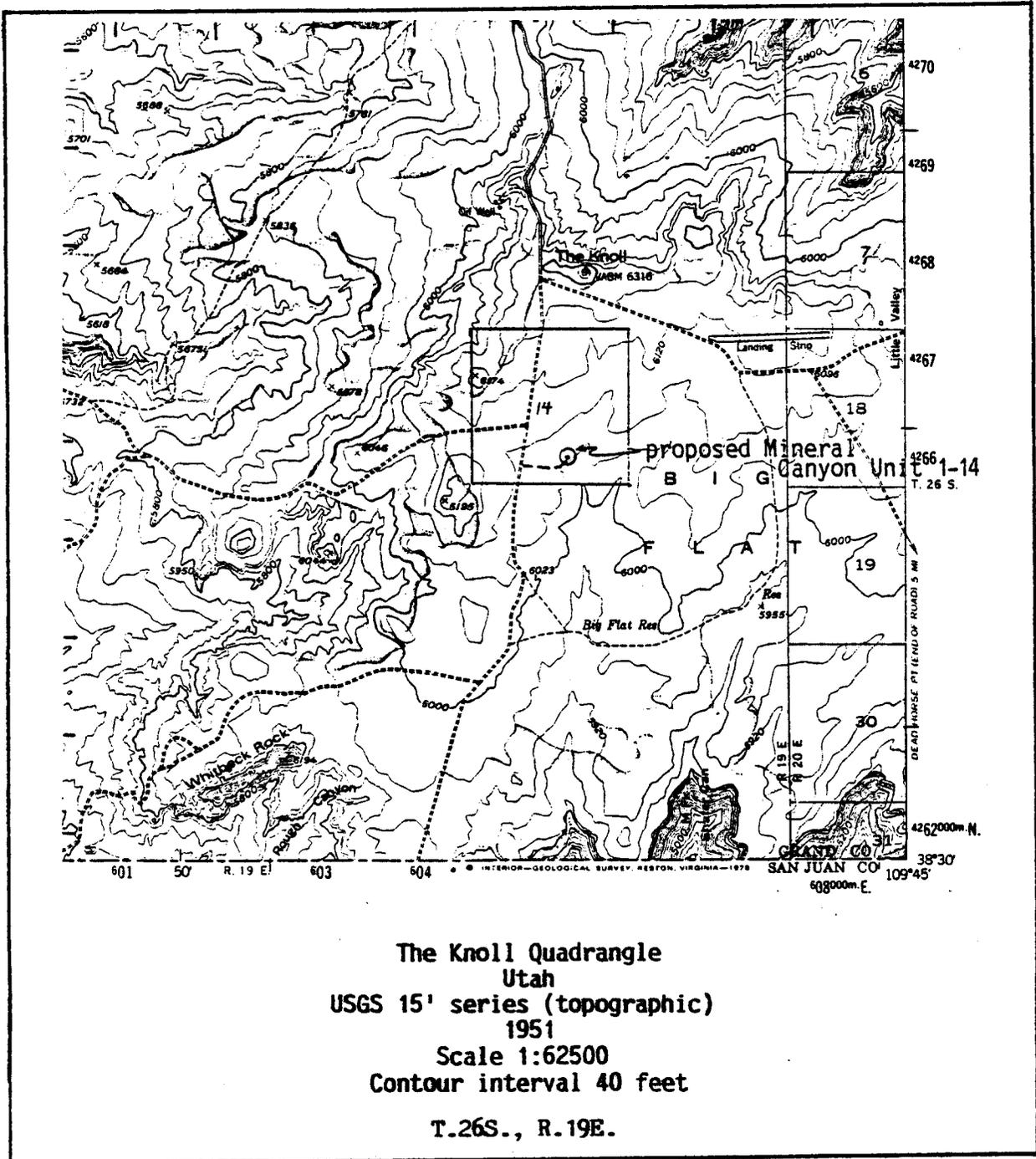
15. Literature Search: 4/26/84, Moab BLM

16. Conclusion/Recommendations:

No further consideration of cultural resources need be given the surface extent of this project.

17. Signature and Title of Institutional Officer Responsible Lester A. Wheeler
Lester A. Wheeler, Proj Arch.

Note: Include only requested information in numbered spaces.
 * For extra locationals use additional 8100-3 forms.



Cultural resources inventory of the proposed Mineral Canyon Unit #1-14 well and related access in Grand County, Utah, for Enserch Exploration, Inc. of Dallas Texas. Area surveyed for cultural resources is highlighted.

Cultural Resources Inventory Report
on
The Proposed Mineral Canyon Unit #1-14 Well and Related Access
in Grand County, Utah
for
Enserch Exploration, Inc.

GRI Project No. 8418
30 April 1984

Prepared by
Grand River Institute
1030 Colorado Avenue
Grand Junction, Colorado 81501
BLM Antiquities Permit No. 83-UT-214

Submitted to
The Bureau of Land Management
Moab District Office
P.O. Box 970
Moab, Utah 84532

BONDING

Enserch Exploration, Inc. holds a nationwide oil and gas bond in the amount of \$150,000 filed with the United States Department of the Interior, Bureau of Land Management. The bond was approved August 18, 1981. The bond number is: 037857

OPERATOR Encench Exploration DATE 5-30-84

WELL NAME Mineral Canyon Unit 1-14

SEC S WSE 14 T 26 S R 19 E COUNTY Grand

43-019-31156
API NUMBER

Fed.
TYPE OF LEASE

POSTING CHECK OFF:

<input type="checkbox"/>	INDEX	<input type="checkbox"/>	HL	<input type="checkbox"/>
<input type="checkbox"/>	NID	<input type="checkbox"/>	PI	<input type="checkbox"/>
<input type="checkbox"/>	MAP	<input type="checkbox"/>		<input type="checkbox"/>

PROCESSING COMMENTS:

Unit Well

Med Water permit

APPROVAL LETTER:

SPACING: A-3 Mineral Canyon UNIT c-3-a CAUSE NO. & DATE

c-3-b c-3-c

SPECIAL LANGUAGE:

1- Water

RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

AUTHENTICATE LEASE AND OPERATOR INFORMATION

VERIFY ADEQUATE AND PROPER BONDING

AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

APPLY SPACING CONSIDERATION

ORDER _____

UNIT *Mescal Canyon*

c-3-b

c-3-c

CHECK DISTANCE TO NEAREST WELL.

CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.

IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

May 31, 1984

Enserch Exporation, Inc.
1230 River Bend Drive, Suite 136
Dallas, Texas 75247

RE: Well No. Mineral Canyon Unit 1-14
SWSE Sec. 14, T. 26S, R. 19E
960' FSL, 1980' FEL
Grand County, Utah

Gentlemen:

Approval to drill the above referenced oil well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.

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

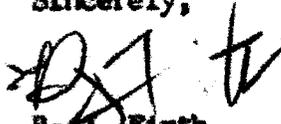
1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify R. J. Firth, Associate Director, Telephone (801) 533-5771 (Office), 571-6068 (Home).
4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

Enserch Exploration, Inc.
Well No. Mineral Canyon Unit 1-14
May 31, 1984
Page 2

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-019-31156.

Sincerely,



R. G. Firth
Associate Director, Oil & Gas

RJF/as

cc: Branch of Fluid Minerals

Enclosures

3150-3
 (formerly 9-331C)

SUBMIT IN TRIPlicate*
 (Other instructions on reverse side)

Form approved.
 Budget Bureau No. 1004-0136
 Expires August 31, 1985

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

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

2. NAME OF OPERATOR
 Enserch Exploration, Inc.

3. ADDRESS OF OPERATOR
 1230 River Bend Drive - Suite 136 - Dallas, Texas 75247

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
 At surface 960' FSL & 1980' FEL (SW/4 - SE/4)
 At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 7-1/2 miles west from Potash, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 660'

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 6032' GR

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48#	1000'	Back to surface 1100 sacks
12-1/4"	9-5/8"	40#	4300'	1000' fill ~450 sacks
8-3/4"	5-1/2"	17#	8400'	Back to intermediate csg ~600 sack

5. LEASE DESIGNATION AND SERIAL NO.
 U-53387
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 N/A
 7. UNIT AGREEMENT NAME
 Mineral Canyon
 8. FARM OR LEASE NAME
 Mineral Canyon Unit
 9. WELL NO.
 1-14
 10. FIELD AND POOL, OR WILDCAT
 Wildcat
 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Section 14-T26S-R19E
 S. L. B. & M.
 12. COUNTY OR PARISH
 Grand
 13. STATE
 Utah

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DIVISION OF OIL
 GAS & MINES

Propose to drill a 17-1/2 inch hole to 1000 feet and set a string of 13-3/8 inch surface casing. Cement will be circulated back to surface. Install a 13-5/8 inch x 13-3/8 inch, 3000 psi wellhead and BOP equipment. The BOP will be checked daily. A 12-1/4 inch hole will be air/mist drilled to the top of the Paradox Salt at 4300 feet. A string of 9-5/8 inch intermediate casing will be run to bottom and cemented into place. A 9-5/8 inch x 11 inch, 3000 psi wellhead will be installed along with the rig BOP equipment. The BOP equipment will be pressure tested prior to drilling out from under surface and intermediate casing. An 8-3/4 inch hole will be drilled to total depth. The well will be logged and if productive will set a string of 5-1/2 inch production. If the well is non-productive, plugs will be set as per M.M.S. requirements. The location will be restored according to B.L.M. instructions.

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 C. H. Peoples TITLE Regional Drilling Manager DATE 5/21/84
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
 APPROVED BY /s/ James J. Frawley TITLE Acting DISTRICT MANAGER DATE 22 JUN 1984
 CONDITIONS OF APPROVAL, IF ANY:

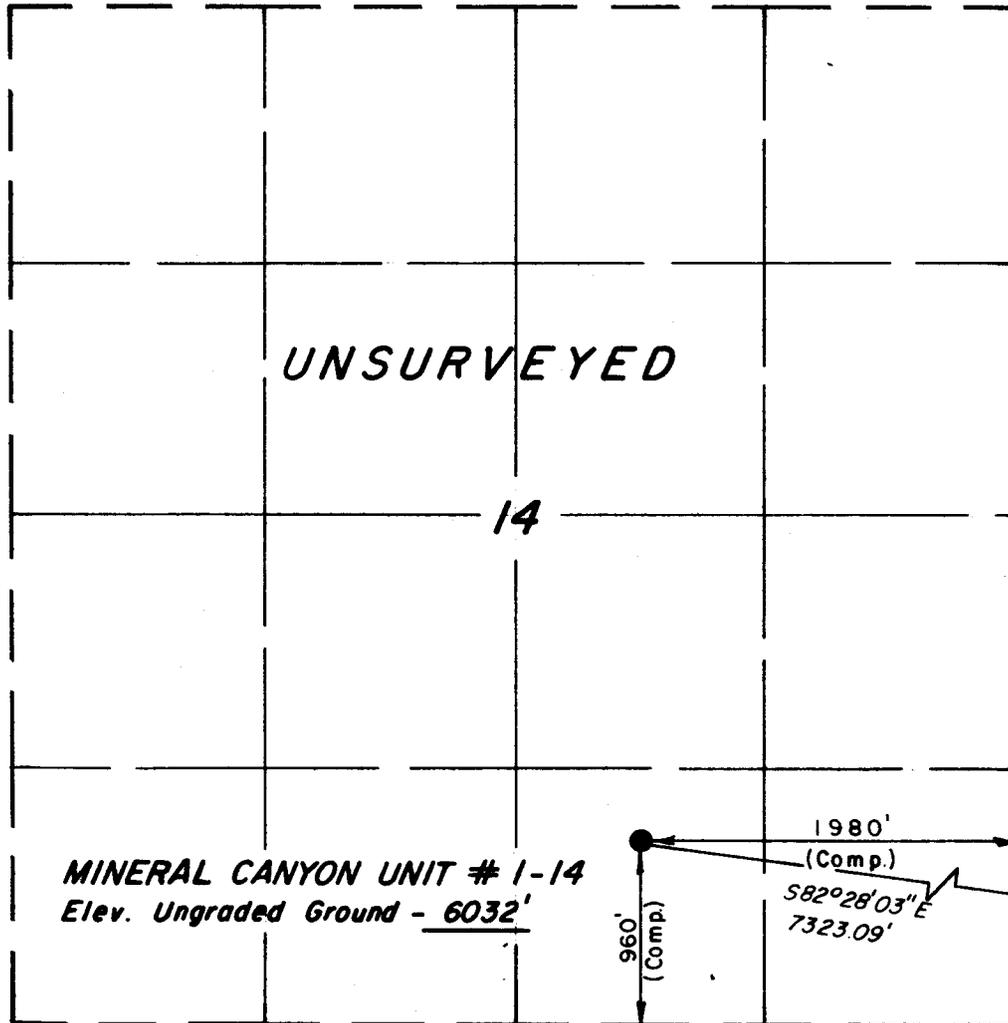
CONDITIONS OF APPROVAL ATTACHED

FLARING OR VENTING OF GAS IS SUBJECT OF NTL 4-A

*See Instructions On Reverse Side

T 26 S , R 19 E , S. L. B. & M.

NOTE: ALL AVAILABLE INFORMATION PERTAINING TO THIS TOWNSHIP WAS OBTAINED FROM THE CADASTRAL ENGINEER (SALT LAKE OFFICE), BEFORE SURVEYING & COMPUTING THIS LOCATION.



X = Section Corners Located

PROJECT

ENSERCH EXPLORATION

Well location, *MINERAL CANYON UNIT # 1-14*, located as shown in the SW 1/4 SE 1/4 Section 14, T26S, R19E, S.L.B.&M. Grand County, Utah.

Note: Basis of bearings is the East line of Section 13, T26S, R19E which is assumed to bear North - 5280.24' (Measured). Location to drill to SE Corner Section 13, T26S, R19E bears S82°28'03\"E - 7323.09'.



CERTIFICATE

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.

Sam Stewart

REGISTERED LAND SURVEYOR
REGISTRATION NO 3154
STATE OF UTAH

SE Cor. Sec. 13, T26S, R19E

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q - 85 SOUTH - 200 EAST
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	2/27/84
PARTY	DA GS RP	REFERENCES	GLO Plat
WEATHER	Fair	FILE	ENSERCH

Enserch Exploration
Mineral Canyon Unit 1-14
Sec. 14, T.16 S., R.19 E.
Grand County, Utah
U-53387

CONDITIONS OF APPROVAL

1. In lieu of a regulation 4 ft. dryhole marker the operator may transfer the requested information to a welded plate buried below the surface.

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

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

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

SUNDRY NOTICES AND REPORTS ON WELLS <small>(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.)</small>		5. LEASE DESIGNATION AND SERIAL NO. U-53387
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME Mineral Canyon
2. NAME OF OPERATOR Enserch Exploration, Inc.		8. FARM OR LEASE NAME Mineral Canyon Unit
3. ADDRESS OF OPERATOR 1230 River Bend Drive - Suite 136 - Dallas, Texas 75247		9. WELL NO. 1-14
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 960' FSL & 1980' FEL (SW/4-SE/4)		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 14-T26S-R19E S.L.B. & M.
14. PERMIT NO. 43-019-31156- (State)	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6032' GR	12. COUNTY OR PARISH Grand 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) <u>Altering Location Layout</u> <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		<small>(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>	

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 completions and zones pertinent to this work.)*

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**DIVISION OF OIL
GAS & MINING**

The following is to give written notification for a change in the proposed location layout. During the construction of the proposed drillsite, the remains of a reserve pit from an offset well were encountered. Due to the composition of the reclaimed pit, the location was re-arranged to provide stable foundation for the principal areas of the drillsite. The alteration does not affect the location of the well bore. Verbal approval was given by Mr. Wayne Svejnoha, Environmental Scientist, Moab District Bureau of Land Management on July 7, 1984.

Attached is the revised cut and fill location layout sheet.

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

SIGNED C. H. Peeples TITLE Regional Drilling Manager DATE July 18, 1984
C. H. Peeples
(This space for Federal or State office use)

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

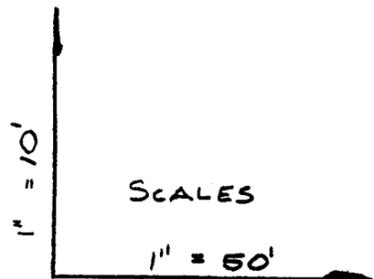
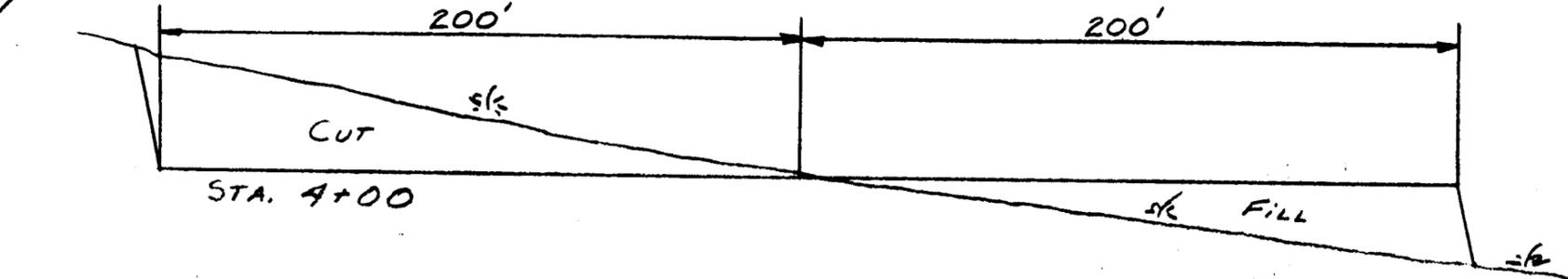
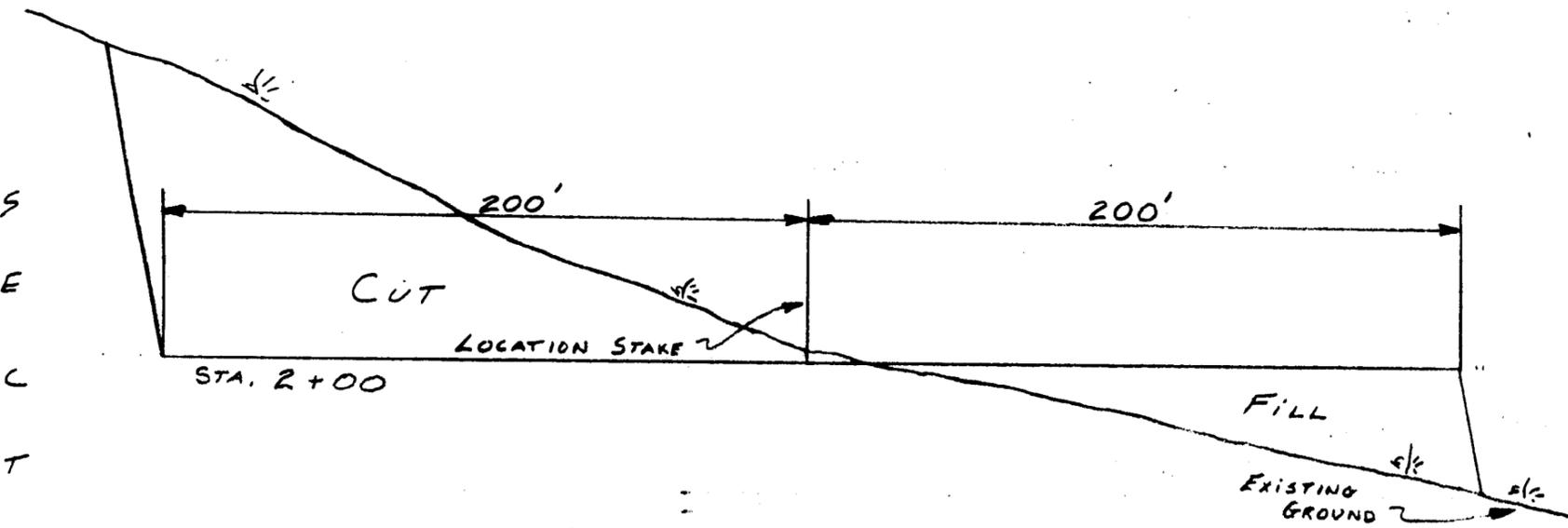
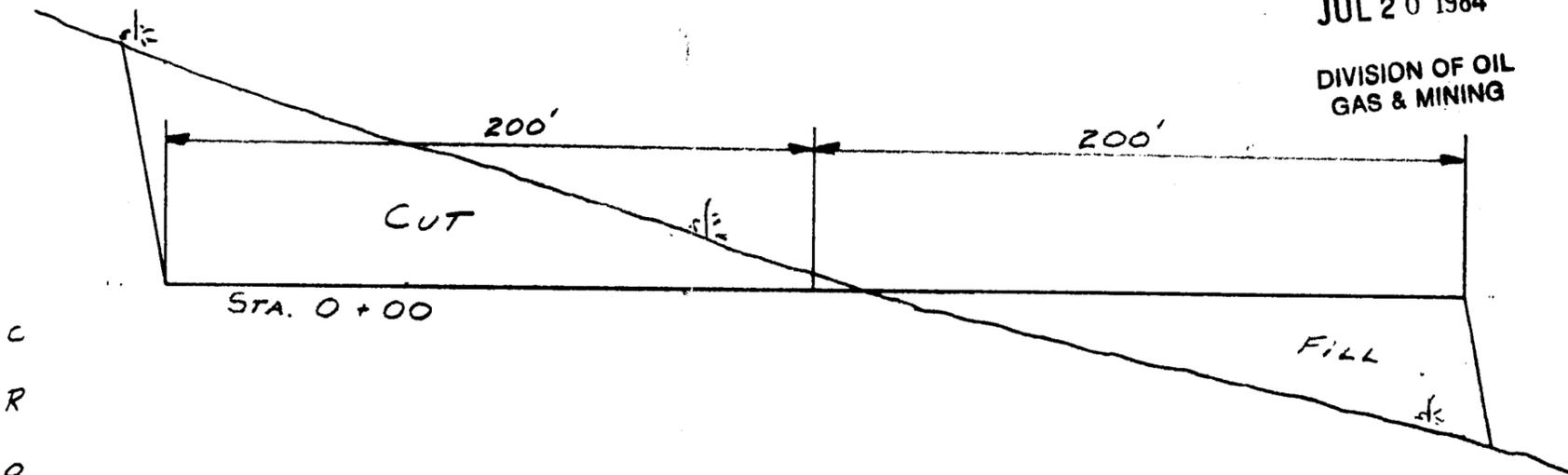
*See Instructions on Reverse Side

ENSERCH EXPLORATION
MINERAL CANYON UNIT #1-14

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JUL 20 1984

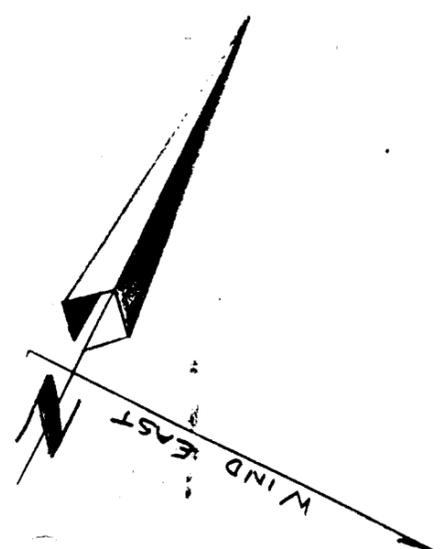
DIVISION OF OIL
GAS & MINING



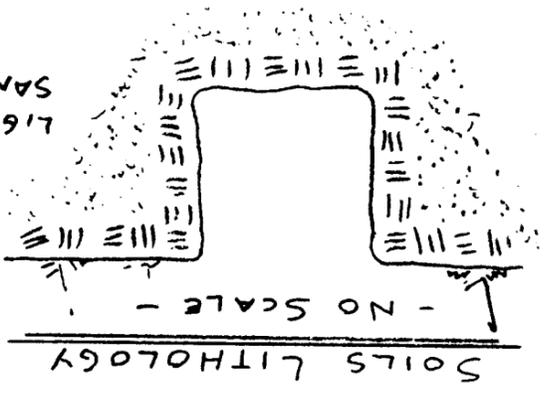
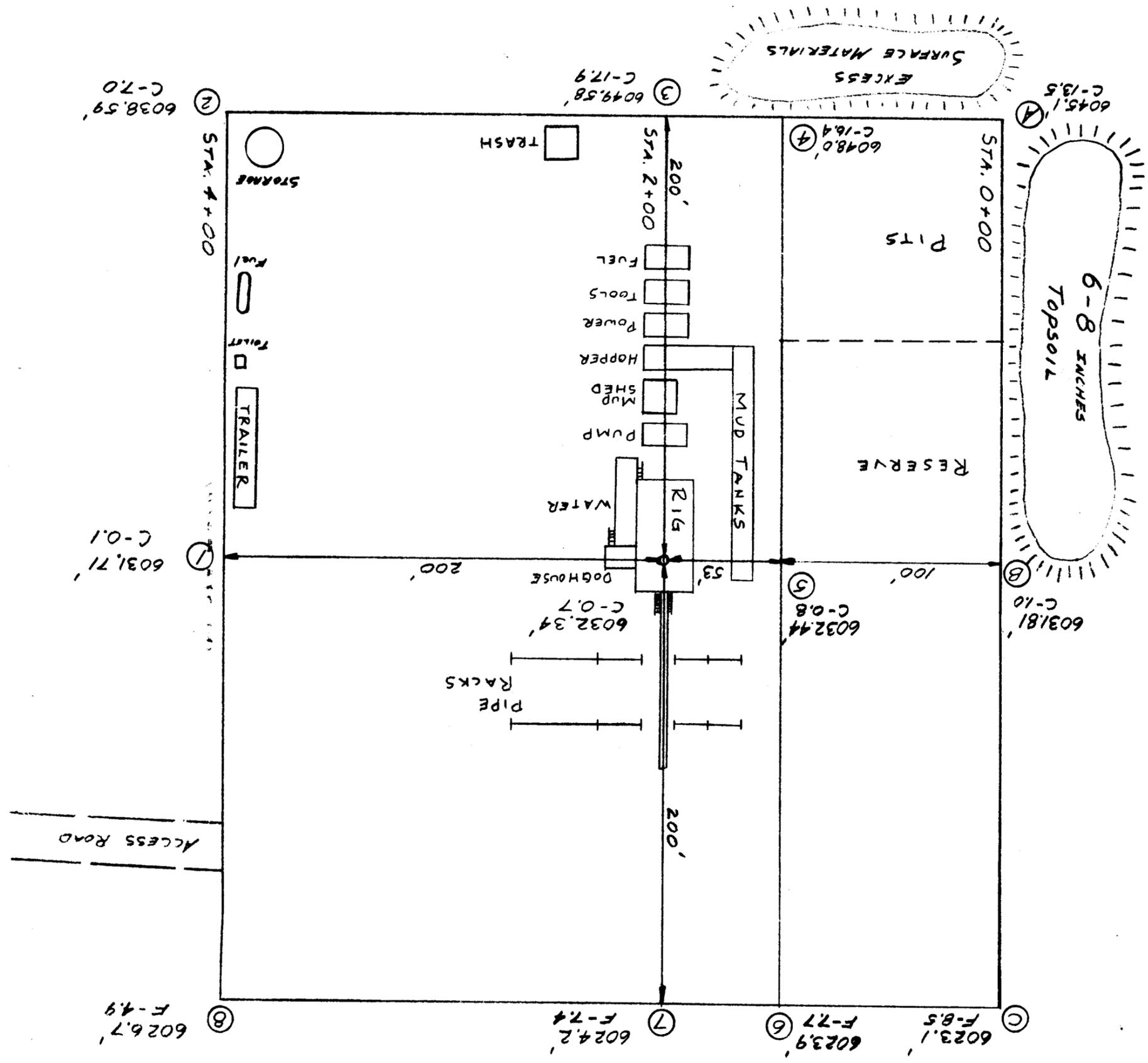
APPROXIMATE YARDAGES

CUBIC YARDS CUT = 18,120

CUBIC YARDS FILL = 9,060



SCALE: 1" = 50'
DATE:



LIGHT BROWN SANDY CLAY

SOILS LITHOLOGY
- NO SCALE -

01-209
T 59937

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: ENSERCH EXPLORATION

WELL NAME: MINERAL CANYON 1-14

SECTION SWSE 14 TOWNSHIP 26S RANGE 19E COUNTY GRAND

DRILLING CONTRACTOR ANDERSON MYERS

RIG # 7

SPUDED: DATE 7-25-84

TIME 9:00 AM

HOW ROTARY

DRILLING WILL COMMENCE _____

REPORTED BY TRAVIS VAN HOOSE

TELEPHONE # 801 259-2022

DATE 7-26-84 SIGNED CJ

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(FORM 9-329)
(2/76)
OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Lease No. U-53387
Communitization Agreement No. N/A
Field Name Wildcat
Unit Name Mineral Canyon
Participating Area _____
County Grand State Utah
Operator Enserch Exploration, Inc.
 Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of July, 19 84

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
1-14	Sec. 14 SW/4-SE/4	26-S	19-E	DRG	None	None	None	None	Spudded 17-1/2 inch hole on 7/25/84. Drilled to 1003 feet and set 13-3/8 inch casing, cemented to surface. Tested BOP to 3000 psi. Drilling 12-1/4 inch hole at 1034 feet on 7/31/84.

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GAS & MINING

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
*Produced	None	None	None
*Sold	_____	_____	XXXXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	_____
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	_____	_____	XXXXXXXXXXXXXXXXXXXX

Authorized Signature: H. Peoples Address: 1230 River Bend - Suite 136 - Dallas
Title: Regional Drilling Manager Page 1 of 1 TX 75247

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLE
(Other instructions on reverse side)

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

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Enserch Exploration, Inc.

3. ADDRESS OF OPERATOR
1230 River Bend Drive - Suite 136 - Dallas, Texas 75247

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface 960' FSL & 1980' FEL (SW/4 - SE/4)

14. PERMIT NO. 43-019-31156 (State) 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6032' GR

5. LEASE DESIGNATION AND SERIAL NO. U-53387

6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A

7. UNIT AGREEMENT NAME Mineral Canyon

8. FARM OR LEASE NAME Mineral Canyon Unit

9. WELL NO. 1-14

10. FIELD AND POOL, OR WILDCAT Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 14-T26S-R19E S. L. B. & M.

12. COUNTY OR PARISH 13. STATE Grand Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Drilling Operations</u>	<input checked="" type="checkbox"/>

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The following is a correct report of drilling operations for the month of July, 1984:

On July 25, 1984 a 17-1/2 inch hole was spudded. The hole was drilled to a depth of 1003 feet where a string of 13-3/8 inch surface casing was run to bottom. The casing was cemented to surface using 657 sacks 35/65 Poz cement + 2% cc + 1/4 lb/sk cellophane, tailed with 200 sacks Class "G" + 2% cc + 3% salt + 1/4 lb/sk cellophane. The BOP equipment was nipped up and tested to 3000 psi. On 7/31/84 operations were, drilling a 12-1/4 inch hole at 1034 feet.

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AUG 6 1984

DIVISION OF OIL
GAS & MINING

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

SIGNED C. H. Peeples TITLE Regional Drilling Manager DATE August 2, 1984
C. H. Peeples
(This space for Federal or State office use)

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

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(FORM 9-329)
(2/76)
OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Lease No. U-53387
Communitization Agreement No. N/A
Field Name Wildcat
Unit Name Mineral Canyon
Participating Area _____
County Grand State Utah
Operator Enserch Exploration, Inc.
 Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of August, 19 84

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
1-14	Sec. 14 SW/4-SE/4	26S	19E	DRG	None	None	None	None	<p>Drilled 12-1/4" hole to 4293' and ran 9-5/8" intermediate casing to 4291'. Cemented casing into place. Tested BOP's to 3000 psi and casing seat to equivalent 16 ppg mud. Continue drilling an 8-3/4" hole. Activity on August 31, 1984, was drilling ahead with 8-3/4" bit at 6880'</p>

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SEP 12 1984
DIVISION OF OIL
GAS & MINING

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
*Produced	None	None	None
*Sold	_____	_____	XXXXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	_____
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	_____	_____	XXXXXXXXXXXXXXXXXXXX

Authorized Signature: C. H. Peeples Address: 1230 River Bend, #136, Dallas, Texas
Title: Regional Drilling Manager Page 1 of 1 75247

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPL
(Other instructions re-
verse side)

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-53387	
2. NAME OF OPERATOR Enserch Exploration, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
3. ADDRESS OF OPERATOR 1230 River Bend Drive, Suite 136, Dallas, Texas 75247		7. UNIT AGREEMENT NAME Mineral Canyon	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 960' FSL & 1980' FEL (SW/4 - SE/4)		8. FARM OR LEASE NAME Mineral Canyon Unit	
14. PERMIT NO. 43-019-31156 (State)		9. WELL NO. 1-14	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6032' GR		10. FIELD AND POOL, OR WILDCAT Wildcat	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 14-T26S-R19E S.L.B. & M.	
		12. COUNTY OR PARISH Grand	13. STATE Utah

RECEIVED
SEP 12 1984
DIVISION OF OIL
GAS & MINING

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Drilling Operations</u> <input checked="" type="checkbox"/>	

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The following is a correct report of Drilling Operations for the month of August, 1984:

The 12-1/4 inch intermediate hole was continued to a depth of 4293 feet, the top of the Paradox Salt. A string of 9-5/8 inch intermediate casing was run to 4291 feet and was cemented into place using 200 sacks of lightweight + 2% Calcium Chloride + 0.5 lbs/sack D-29 and tailed with 150 sacks Class "G" + 2% Calcium Chloride + 3% Salt + 1/4 lb/sack D-29. The BOP equipment was nipped up and tested to 3000 psi. The casing shoe was drill out and the formation at the shoe was tested to an equivalent 16 ppg mud. An 8-3/4 inch hole was drilled below the intermediate casing into the Paradox Salt. The operations on August 31, 1984, were drilling ahead with an 8-3/4 inch bit at a depth of 6880 feet.

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

SIGNED C. H. Peoples TITLE Regional Drilling Manager DATE September 7, 1984

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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SEP 17 1984

WEST DRILLING



RECEIVED

SEP 20 1984

DIVISION OF OIL
GAS & MINING

REPORT
of
SUB-SURFACE
DIRECTIONAL
SURVEY

ENSERCH EXPLORATION INC.
COMPANY

MINERAL CANYON FEDERAL 1-14
WELL NAME

GRAND COUNTY, UTAH
LOCATION

SECTION 14 - T26S - R19E S. L. B. & M.

<u>JOB NUMBER</u>	<u>TYPE OF SURVEY</u>	<u>DATE</u>
RM984 S1013	MAGNETIC MULTI-SHOT	13-SEP-84

SURVEY BY
JOHN BECKNER

OFFICE
RM 410

ENSERCH EXPLORATION INC.

MAGNETIC MULTI-SHOT SURVEY

WELL NAME: MINERAL CANYON FEDERAL 1-14

LOCATION: GRAND COUNTY, UTAH

FILE NO.: A4-224

RUN DATE: 07-SEP-84

JOB NO.: RM984 S1013

TYPE: MULTI-SHOT

SURVEYOR: JOHN BECKNER

DECLINATION: 14 EAST

COMPUTER OPERATOR: ANN HEBERLEIN

RIG NO.: ANDERSON MEYERS #7

FIELD: BIG LAKE

RECORD OF SURVEY

RADIUS OF CURVATURE METHOD

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D M	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET	DOGLEG SEVERITY DG/100FT
0.00	0 0	0 0	0.0	0.00	0.00 0.00	0.00
4292.00	0 0	0 0	4292.0	4292.00	0.00 0.00	0.00

CASING SET AT 4292 MD, ASSUMED VERTICAL TO THIS STATION

4370.00	1 0	N 31 0 W	78.0	4370.00	0.58 N 0.35 W	1.28
4464.00	1 45	N 21 0 W	94.0	4463.97	2.61 N 1.34 W	0.83
4557.00	2 0	N 24 0 W	93.0	4556.92	5.42 N 2.50 W	0.29
4650.00	2 15	N 22 0 W	93.0	4649.85	8.59 N 3.85 W	0.28
4743.00	2 15	N 2 0 W	93.0	4742.78	12.15 N 4.61 W	0.84
4836.00	2 30	N 3 0 E	93.0	4835.70	16.00 N 4.57 W	0.35
4929.00	3 0	N 17 0 E	93.0	4928.60	20.38 N 3.80 W	0.90
5022.00	3 15	N 22 0 E	93.0	5021.46	25.16 N 2.11 W	0.40
5115.00	3 15	N 22 0 E	93.0	5114.31	30.05 N 0.13 W	0.00
5208.00	4 0	N 21 0 E	93.0	5207.12	35.52 N 2.02 E	0.81
5302.00	4 15	N 28 0 E	94.0	5300.88	41.67 N 4.83 E	0.60
5395.00	4 15	N 30 0 E	93.0	5393.62	47.70 N 8.17 E	0.16
5488.00	4 30	N 30 0 E	93.0	5486.35	53.84 N 11.71 E	0.27
5581.00	4 15	N 30 0 E	93.0	5579.08	59.99 N 15.26 E	0.27
5674.00	4 15	N 31 0 E	93.0	5671.82	65.92 N 18.76 E	0.08
5767.00	4 30	N 31 0 E	93.0	5764.55	72.01 N 22.41 E	0.27
5860.00	4 30	N 34 0 E	93.0	5857.27	78.16 N 26.33 E	0.25
5953.00	4 30	N 34 0 E	93.0	5949.98	84.21 N 30.41 E	0.00
6046.00	4 15	N 29 0 E	93.0	6042.71	90.26 N 34.12 E	0.49
6140.00	4 15	N 29 0 E	94.0	6136.45	96.35 N 37.50 E	0.00
6233.00	3 45	N 31 0 E	93.0	6229.22	101.97 N 40.74 E	0.56
6326.00	3 45	N 30 0 E	93.0	6322.02	107.21 N 43.83 E	0.07
6419.00	3 15	N 32 0 E	93.0	6414.85	112.07 N 46.75 E	0.55
6512.00	2 45	N 37 0 E	93.0	6507.72	116.08 N 49.51 E	0.61
6605.00	2 30	N 39 0 E	93.0	6600.62	119.44 N 52.13 E	0.29
6698.00	2 45	N 53 0 E	93.0	6693.53	122.39 N 55.19 E	0.74

INSERCH EXPLORATION INC.
 WELL NAME: MINERAL CANYON FEDERAL 1-14
 LOCATION: GRAND COUNTY, UTAH

MAGNETIC MULTI-SHOT SURVEY

COMPUTATION
 TIME DATE
 11:38:09 13-SEP-84

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D M	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET	DOGLEG SEVERITY DG/100FT
6791.00	2 30	N 54 0 E	93.0	6786.43	124.93 N 58.61 E	0.27
6884.00	2 45	N 46 0 E	93.0	6879.33	127.66 N 61.88 E	0.48
6978.00	2 30	N 49 0 E	94.0	6973.23	130.57 N 65.05 E	0.30
7071.00	1 45	N 55 0 E	93.0	7066.17	132.70 N 67.77 E	0.84
7164.00	1 0	N 59 0 E	93.0	7159.14	133.91 N 69.64 E	0.81
7257.00	0 45	N 66 0 E	93.0	7252.13	134.57 N 70.90 E	0.29
7320.00	0 45	N 74 0 E	63.0	7315.13	134.85 N 71.67 E	0.17
7350.00	1 0	N 79 0 E	30.0	7345.12	134.95 N 72.11 E	0.87

FINAL CLOSURE - DIRECTION: N 28 DEGS 7 MINS 6 SECS E
 DISTANCE: 153.01 FEET

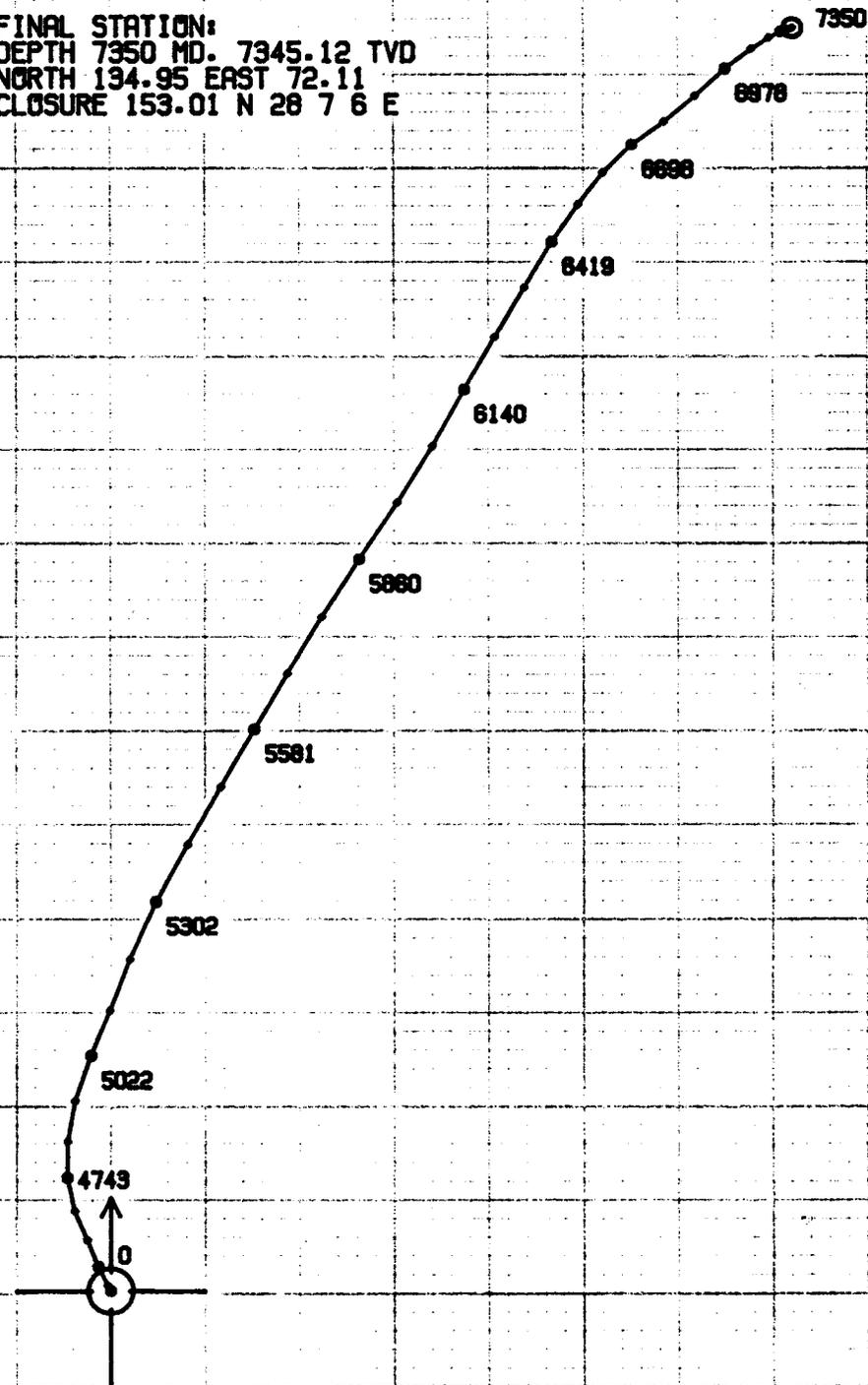
ENSERCH EXPLORATION INC.
WELL NAME: MINERAL CANYON FEDERAL 1-14
LOCATION: GRAND COUNTY, UTAH

HORIZONTAL PROJECTION

SCALE 1 IN. = 20 FEET
DEPTH INDICATOR: MD

EASTMAN WHIPSTOCK, INC.

FINAL STATION:
DEPTH 7350 MD. 7345.12 TVD
NORTH 194.95 EAST 72.11
CLOSURE 153.01 N 28 7 6 E



MINERAL CANYON FEDERAL	1-14	1	4810.1 - 4854.1	ENSERCH EXPLORATION INCORPORAL.
LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME
LEGAL LOCATION SEC. - TWP. - RNG.	14-26S-19E			
	FIELD AREA			
	WILDCAT			
	COUNTY			
	GRAND			
	STATE			
	UTAH			
	IC			

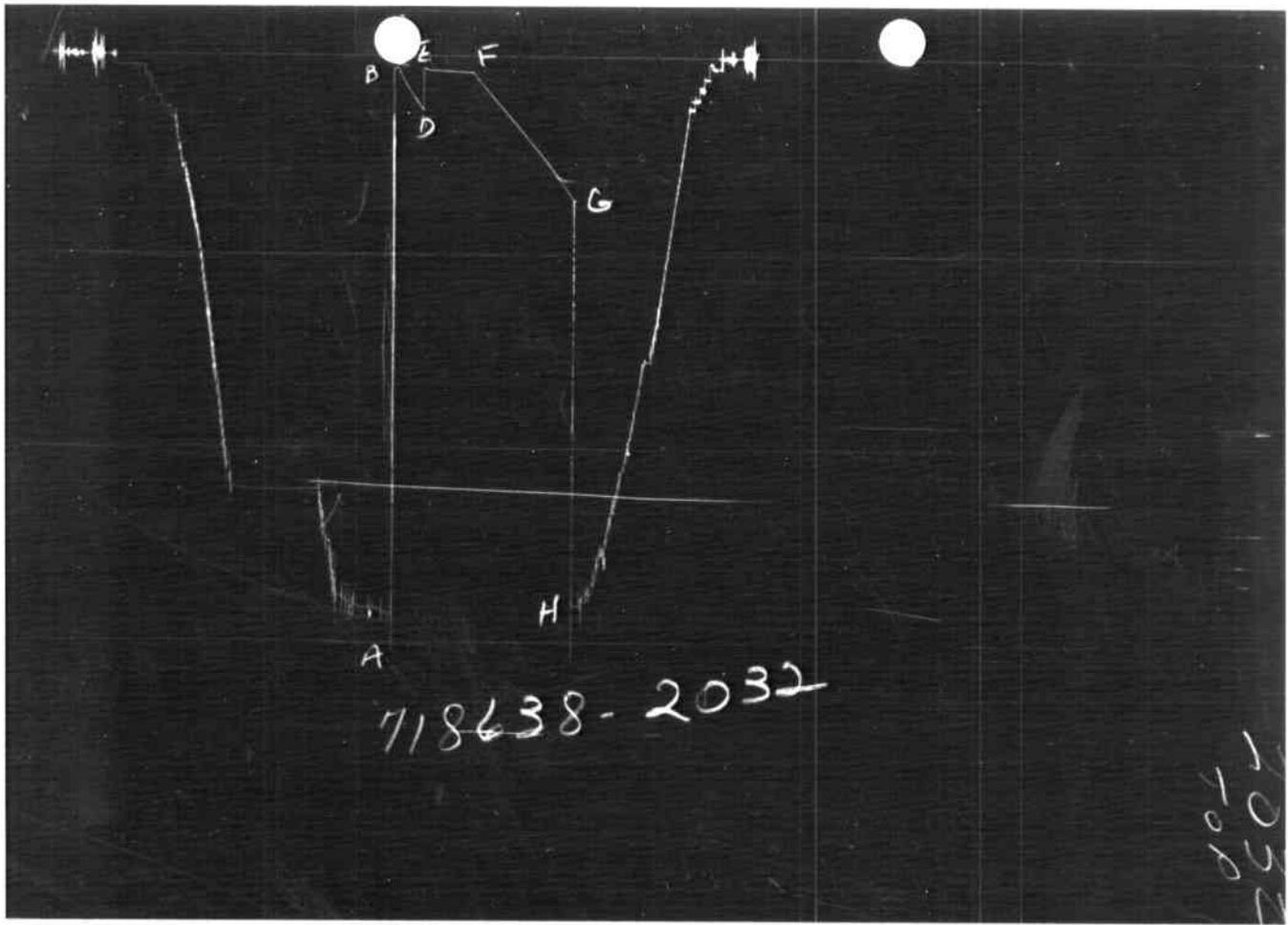


TICKET NO. 71863800
 20-AUG-84
 FARMINGTON

FORMATION TESTING SERVICE REPORT

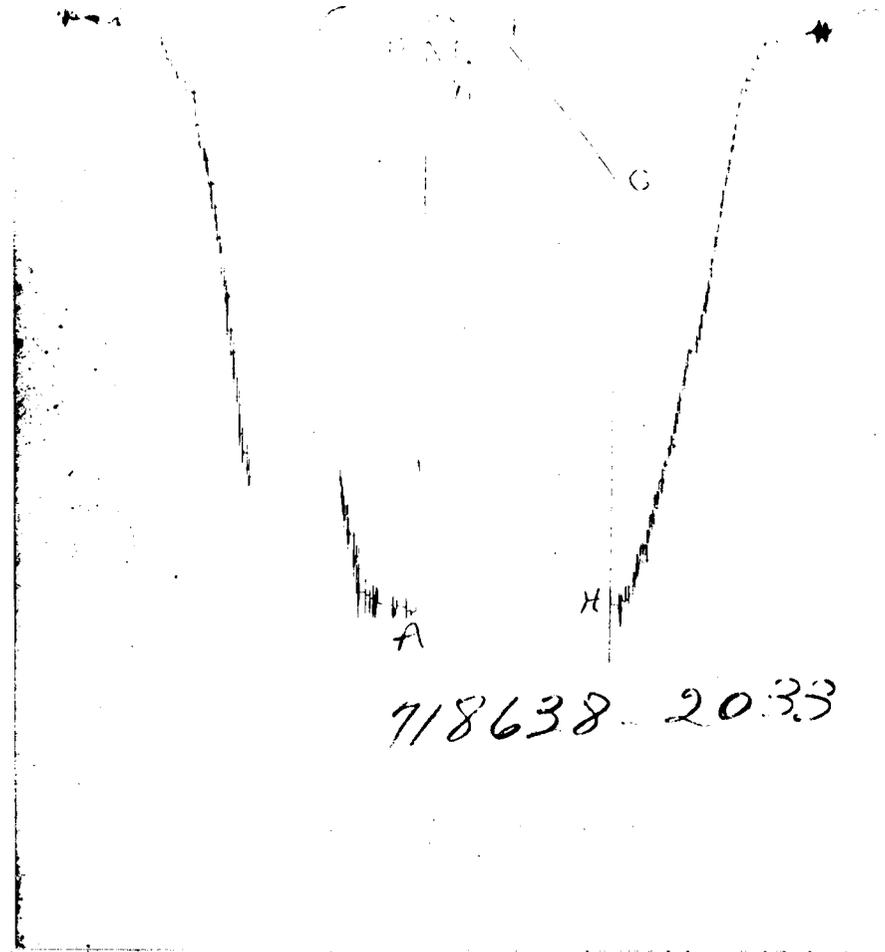
GAUGE NO: 2032 DEPTH: 4791.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2862	2848.9			
B	INITIAL FIRST FLOW	80	65.7			
C	FINAL FIRST FLOW	80	61.1	5.0	5.0	F
C	INITIAL FIRST CLOSED-IN	80	61.1			
D	FINAL FIRST CLOSED-IN	266	279.2	30.0	30.0	C
E	INITIAL SECOND FLOW	80	61.3			
F	FINAL SECOND FLOW	80	83.2	60.0	60.0	F
F	INITIAL SECOND CLOSED-IN	80	83.2			
G	FINAL SECOND CLOSED-IN	745	740.6	120.0	120.0	C
H	FINAL HYDROSTATIC	2810	2833.3			



718638-2032

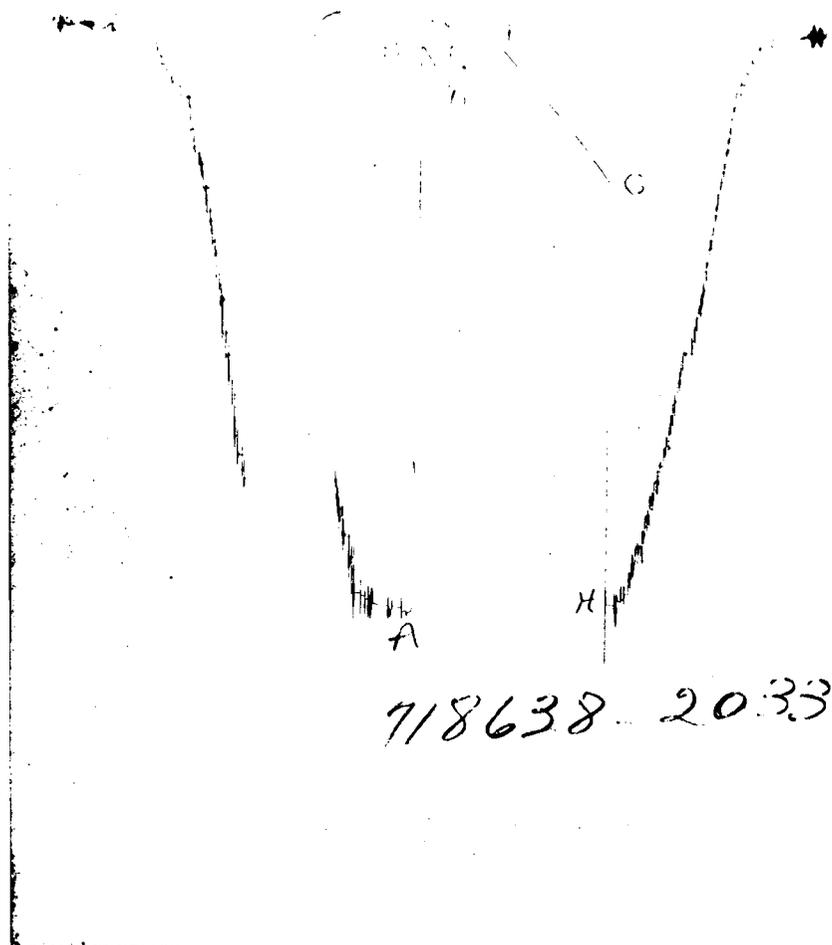
1032



718638-2033

GAUGE NO: 2033 DEPTH: 4851.0 BLANKED OFF: YES HOUR OF CLOCK: 24

	PRESSURE	TIME	



718638 2033

GAUGE NO: 2033 DEPTH: 4851.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2862	2878.2			
B	INITIAL FIRST FLOW	80	90.5			
C	FINAL FIRST FLOW	80	87.2	5.0	5.0	F
C	INITIAL FIRST CLOSED-IN	80	87.2			
D	FINAL FIRST CLOSED-IN	266	282.0	30.0	30.0	C
E	INITIAL SECOND FLOW	80	81.6			
F	FINAL SECOND FLOW	80	100.5	60.0	60.0	F
F	INITIAL SECOND CLOSED-IN	80	100.5			
G	FINAL SECOND CLOSED-IN	718	745.0	120.0	120.0	C
H	FINAL HYDROSTATIC	2810	2855.1			

EQUIPMENT & HOLE DATA

FORMATION TESTED: DESERT CREEK
 NET PAY (ft): 4.0
 GROSS TESTED FOOTAGE: 44.0
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 8.750
 ELEVATION (ft): 6032
 TOTAL DEPTH (ft): 4854.0
 PACKER DEPTH(S) (ft): 4804, 4810
 FINAL SURFACE CHOKE (in): 0.125
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 11.30
 MUD VISCOSITY (sec): 40
 ESTIMATED HOLE TEMP. (°F): _____
 ACTUAL HOLE TEMP. (°F): 100 @ 4851.0 ft

TICKET NUMBER: 71863800
 DATE: 8-15-84 TEST NO: 1
 TYPE DST: OPEN HOLE
 HALLIBURTON CAMP:
FARMINGTON
 TESTER: GLEN RISHER
 WITNESS: J. W. BROWN
 DRILLING CONTRACTOR:
ANDERSON AND MYERS

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
MUD PIT	0.050 @ 70 °F	181010 ppm
TOP	0.050 @ 70 °F	181010 ppm
BOTTOM	0.050 @ 70 °F	181010 ppm
SAMPLER	0.052 @ 70 °F	180010 ppm
	@ °F	ppm
	@ °F	ppm

SAMPLER DATA

Pstg AT SURFACE: 68
 cu.ft. OF GAS: 0.13
 cc OF OIL: 16
 cc OF WATER: 0
 cc OF MUD: 1088
 TOTAL LIQUID cc: 1104

HYDROCARBON PROPERTIES

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

CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

RECOVERED:

180 FEET OF GAS CUT MUD

MEASURED FROM TESTER VALVE

REMARKS:

THE SAMPLER WAS FULL OF GAS CUT EMULSION.

REPORTED AMOUNTS OF OIL, MUD AND GAS IN THE SAMPLER ARE ESTIMATES.

TYPE & SIZE MEASURING DEVICE: _____					TICKET NO: 71863800
TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
8-14-84					
2300					ON LOCATION
2400					PICKED UP TOOLS
8-15-84					
0100					TRIPPED IN HOLE
0705					ON BOTTOM
0712	.125" BH	3.5*			
					5" IN BUCKET
0713		6			BLOW INCREASING TO BOTTOM OF BUCKET
0714		8.75			SAME
0715		11			SAME
0716		13			SAME
0717		18			SAME - CLOSED TOOL
0747		20			OPENED TOOL WITH STRONG BLOW TO BOTTOM OF BUCKET
0752		24			BLOW INCREASED
0757		24.25			SAME
0800		24.5			SAME
0805		25			
0810		25			
0815		25.5			
0820		25.5			
0828		25.75			
0829		25.25			BLOW DECREASING
0830		25			SAME
0835		25			BLOW STABILIZED
0840		25			SAME
0847					CLOSED TOOL
1047					WIPED OUT BY HOLE AND LAMP
					DOWN TOOLS
					*NOTE: SURFACE PRESSURE (P.S.I.) IS GAUGED IN OUNCES.

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	4283.5	
3		DRILL COLLARS.....	6.250	2.250	392.0	
5		CROSSOVER.....	6.250	2.250	2.0	
50		IMPACT REVERSING SUB.....	6.000	3.000	1.0	4680.5
5		CROSSOVER.....	6.250	2.875	1.0	
3		DRILL COLLARS.....	6.250	2.250	93.0	
5		CROSSOVER.....	6.000	3.000	1.0	
13		DUAL CIP SAMPLER.....	5.030	0.870	7.5	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	4788.0
80		AP RUNNING CASE.....	5.000	2.250	4.0	4791.0
15		JAR.....	5.030	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	7.750	1.530	6.0	4804.0
70		OPEN HOLE PACKER.....	7.750	1.530	6.0	4810.0
20		FLUSH JOINT ANCHOR.....	5.750	3.000	38.0	
81		BLANKED-OFF RUNNING CASE.....	5.750		4.0	4851.0
		TOTAL DEPTH				4854.0

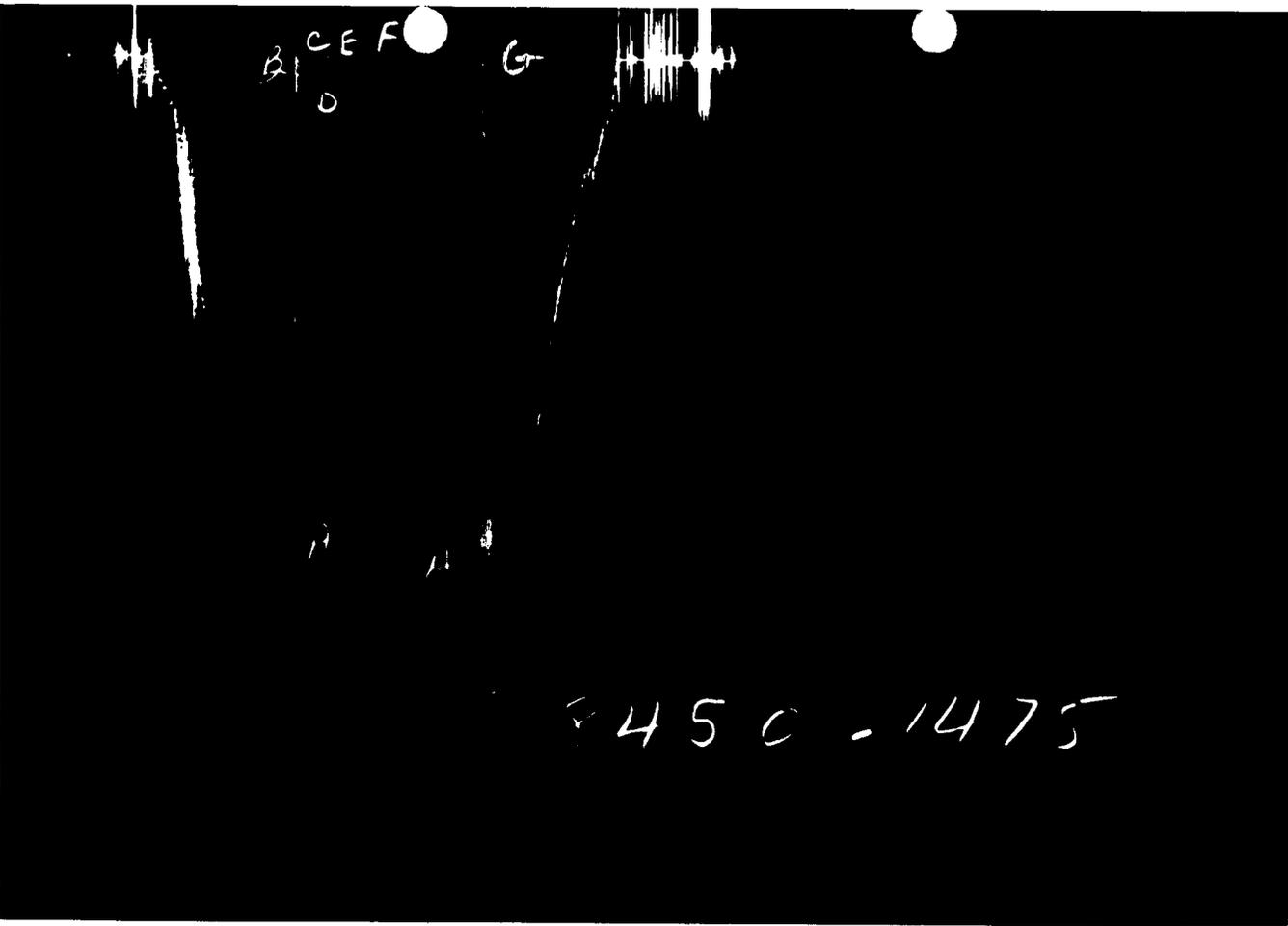
EQUIPMENT DATA



TICKET NO. 71845000
 24-AUG-84
 FARMINGTON

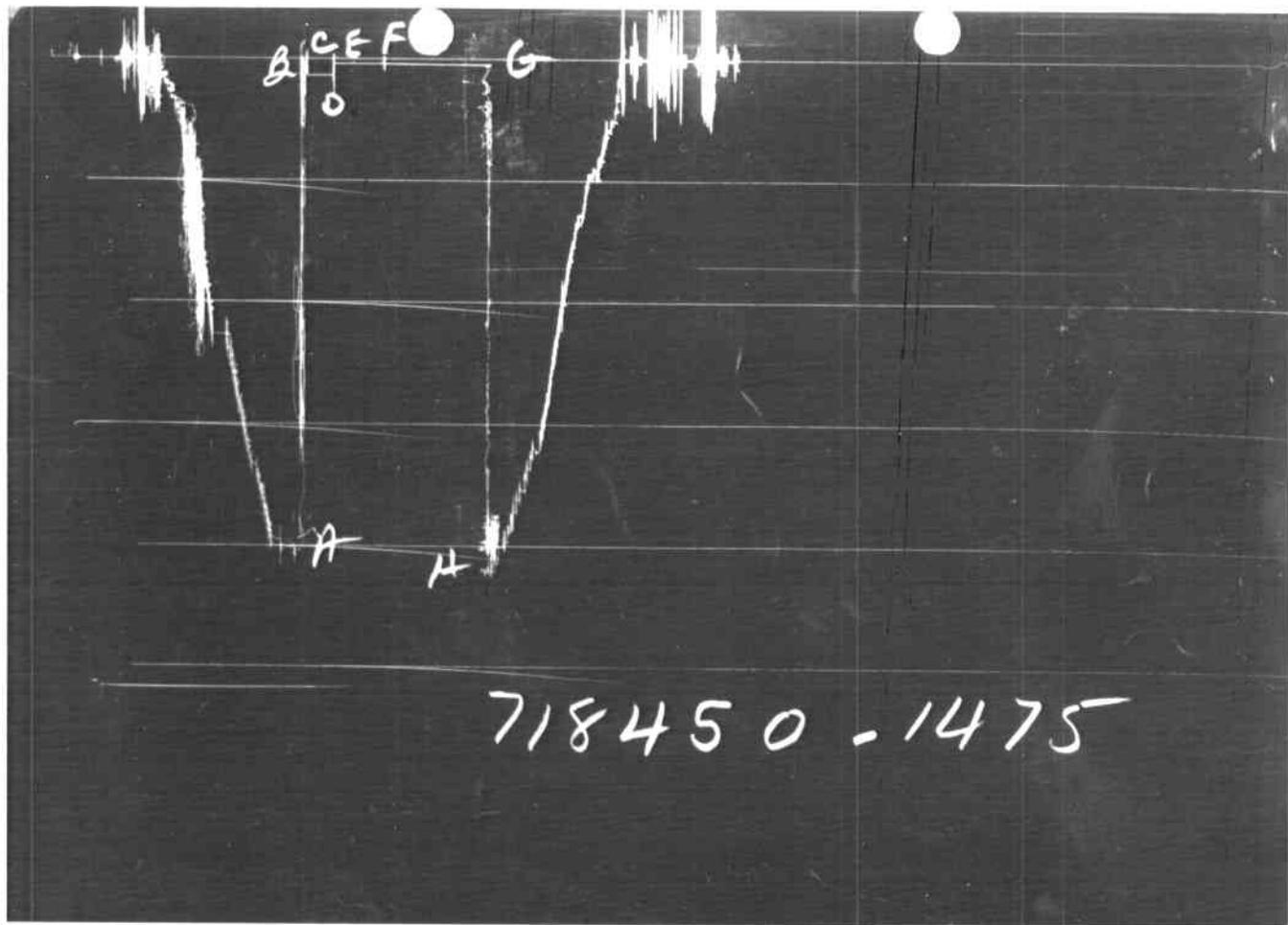
FORMATION TESTING SERVICE REPORT

MINERAL CANYON	1-14	2	5896.1 - 5908.1	ENSERCH EXPLORATION INCORPORATED
LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME
LEGAL LOCATION SEC. - TWP. - RNG.	14-26S-19E	FIELD AREA	WILDCAT	COUNTY
				GRAND
				STATE
				UTAH OR



GAUGE NO: 1475 DEPTH: 5875.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3996	4007.6			
B	INITIAL FIRST FLOW	21	45.3	6.0	6.0	F
C	FINAL FIRST FLOW	21	45.3			
C	INITIAL FIRST CLOSED-IN	21	45.3	32.0	32.0	C
D	FINAL FIRST CLOSED-IN	126	136.3			
E	INITIAL SECOND FLOW	21	45.9	60.0	60.0	F
F	FINAL SECOND FLOW	21	44.5			
F	INITIAL SECOND CLOSED-IN	21	44.5	120.0	120.0	C
G	FINAL SECOND CLOSED-IN	42	52.2			
H	FINAL HYDROSTATIC	3996	3995.8			



GROUSE NO: 11178 DEPTH: 5000 ft BLANKED OFF: 1.0 HOUR OF CLOCK: 04

B C E
D F G

GAUGE NO: 105 DEPTH: 5905.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3968	4029.9			
B	INITIAL FIRST FLOW	169	233.1	6.0	6.0	F
C	FINAL FIRST FLOW	169	259.3			
C	INITIAL FIRST CLOSED-IN	169	259.3	32.0	32.0	C
D	FINAL FIRST CLOSED-IN	212	245.3			
E	INITIAL SECOND FLOW	212	245.3	60.0	60.0	F
F	FINAL SECOND FLOW	212	255.9			
F	INITIAL SECOND CLOSED-IN	212	255.9	120.0	120.0	C
G	FINAL SECOND CLOSED-IN	233	265.4			
H	FINAL HYDROSTATIC	3968	4020.5			

EQUIPMENT & HOLE DATA

FORMATION TESTED: PENN. BLACK OIL
 NET PAY (ft): _____
 GROSS TESTED FOOTAGE: 12.0
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 8.750
 ELEVATION (ft): 6046
 TOTAL DEPTH (ft): 5908.0
 PACKER DEPTH(S) (ft): 5890, 5896
 FINAL SURFACE CHOKE (in): _____
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 12.30
 MUD VISCOSITY (sec): 48
 ESTIMATED HOLE TEMP. (°F): _____
 ACTUAL HOLE TEMP. (°F): 108 @ 5904.0 ft

TICKET NUMBER: 71845000
 DATE: 8-21-84 TEST NO: 2
 TYPE DST: OPEN HOLE
 HALLIBURTON CAMP:
FARMINGTON
 TESTER: HOWARD BELL
 WITNESS: JACKY BROWN
 DRILLING CONTRACTOR:
ANDERSON-MEYERS #7

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
<u>PIT</u>	<u>1.700 @ 60 °F</u>	<u>4200 ppm</u>
<u>RECOVERY</u>	<u>1.300 @ 62 °F</u>	<u>5400 ppm</u>
<u>SAMPLER</u>	<u>1.180 @ 60 °F</u>	<u>6000 ppm</u>
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm

SAMPLER DATA

Pstg AT SURFACE: 18
 cu.ft. OF GAS: 0.00
 cc OF OIL: 0
 cc OF WATER: 0
 cc OF MUD: 400
 TOTAL LIQUID cc: 400

HYDROCARBON PROPERTIES

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

CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

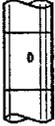
RECOVERED:

32' OF SLIGHTLY GAS CUT MUD

MEASURED FROM TESTER VALVE

REMARKS:

CHARTS INDICATE SEVERE PLUGGING OF THE ANCHOR PIPE PERFORATIONS.

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	5321.6	
3		DRILL COLLARS.....	6.250	2.250	446.7	
50		IMPACT REVERSING SUB.....	6.000	3.000	1.0	5769.0
3		DRILL COLLARS.....	6.250	2.250	91.7	
5		CROSSOVER.....	6.000	3.000	1.0	
13		DUAL CIP SAMPLER.....	5.020	0.750	7.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	5873.0
80		AP RUNNING CASE.....	5.000	2.250	4.0	5875.0
15		JAR.....	5.030	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	7.750	1.530	6.0	5890.0
70		OPEN HOLE PACKER.....	7.750	1.530	6.0	5896.0
20		FLUSH JOINT ANCHOR.....	5.750	2.870	6.0	
81		BLANKED-OFF RUNNING CASE.....	5.750		4.0	5905.0
TOTAL DEPTH						5908.0

EQUIPMENT DATA

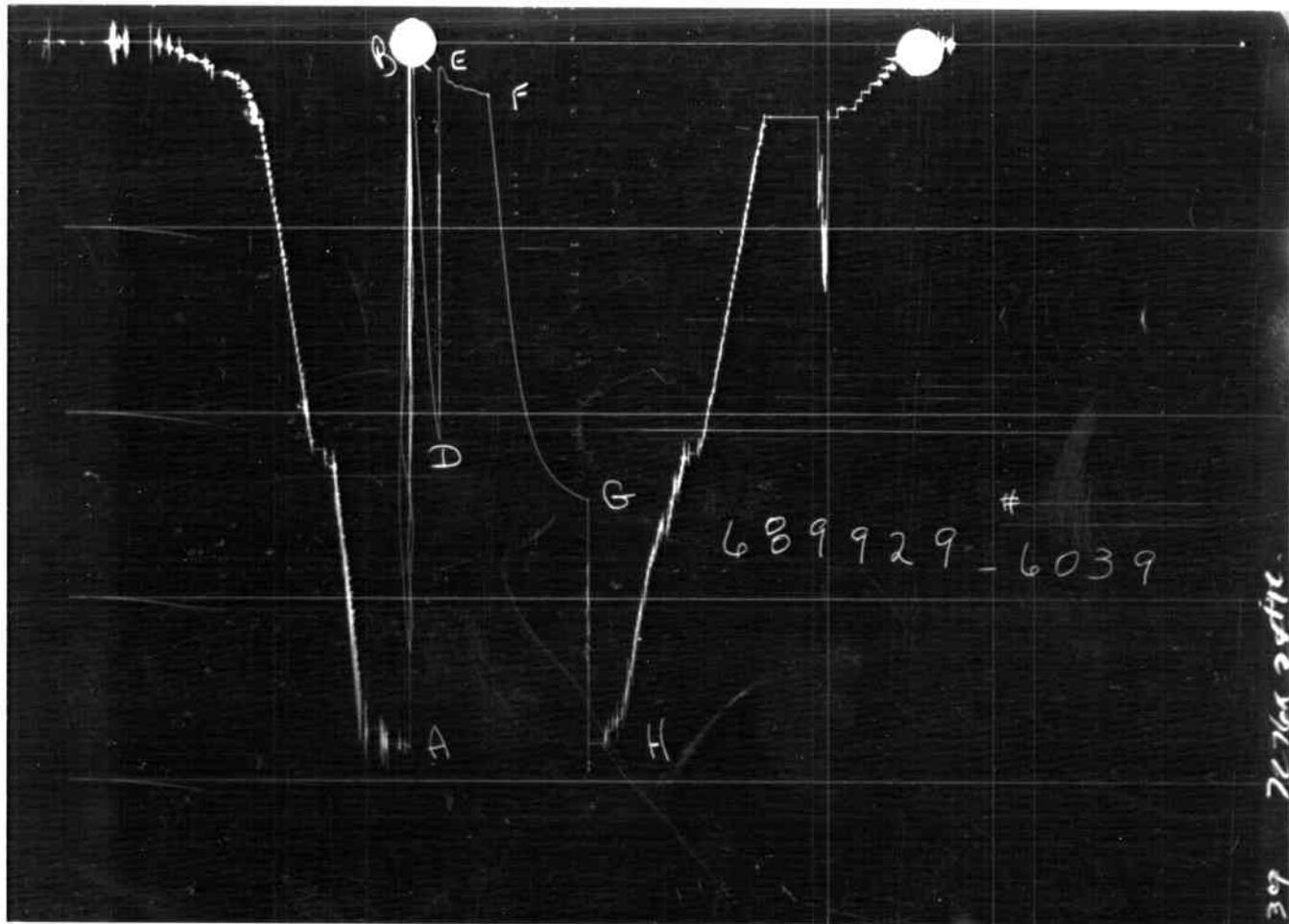
MINERAL CANYON FEDERAL 1-14 WELL NO. 23 TEST NO. 7674.1 - 7727.1
 LEASE NAME
 LEGAL LOCATION 14-26S-19E FIELD AREA WILDCAT COUNTY GRAND STATE UTAH NM
 SEC. - TWP. - RNG.

ENSERCH EXPLORATION, INCORPORATED
 LEASE OWNER/COMPANY NAME

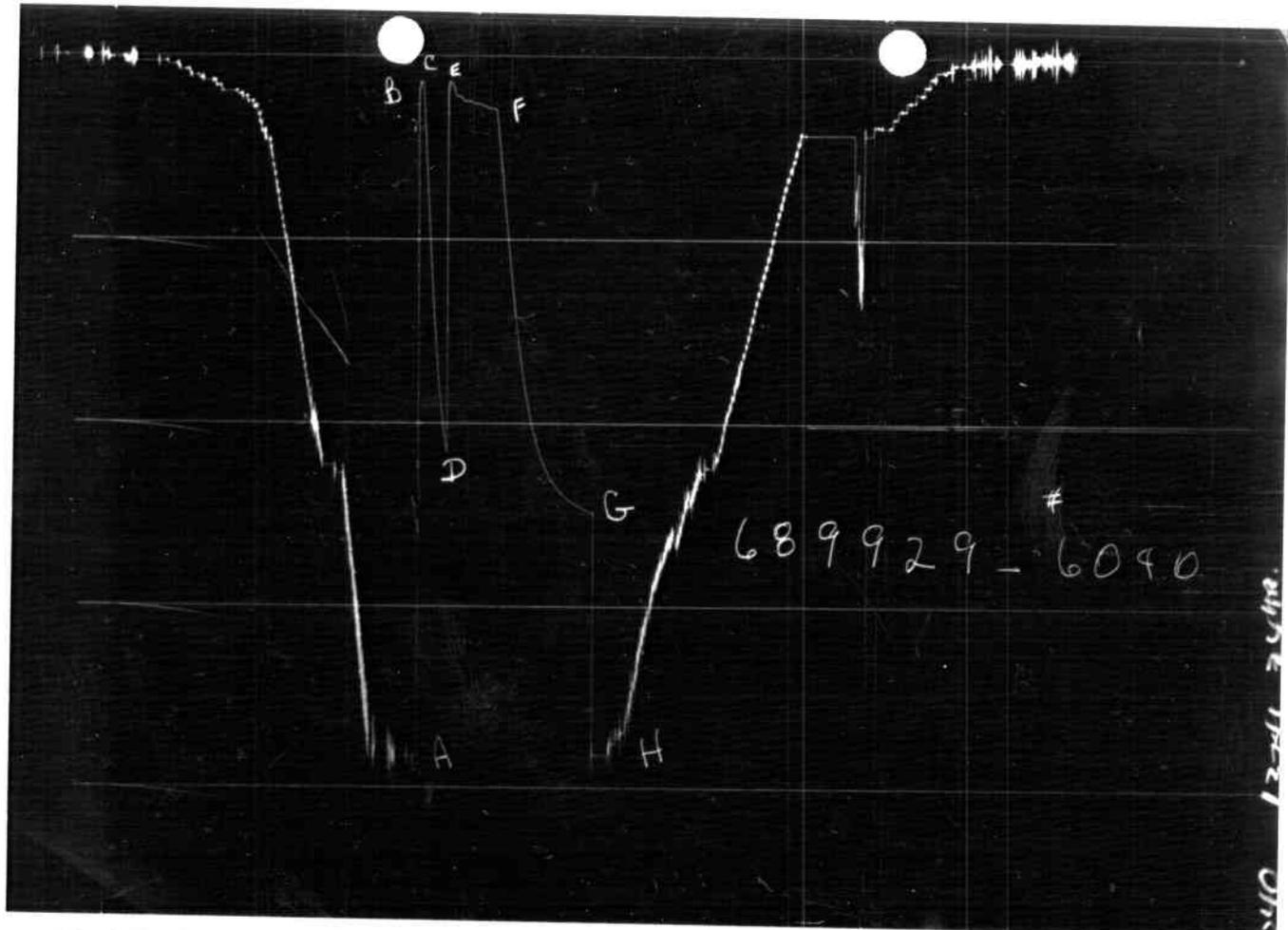


TICKET NO. 68992900
 27-SEP-84
 FARMINGTON

FORMATION TESTING SERVICE REPORT



GAUGE NO: 4001 DEPTH: 7837-0 BLANKED OFF: NO HOUR OF CLOCK: 24



689929-6090

12-11-70
D-11

GAUGE NO: 6040 DEPTH: 770.0 BLANNED OFF: YES HOUR OF CLOCK: 24

GAUGE NO: 6040 DEPTH: 7724.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3805	3825.9			
B	INITIAL FIRST FLOW	135	189.8			
C	FINAL FIRST FLOW	135	143.7	6.0	4.8	F
C	INITIAL FIRST CLOSED-IN	135	143.7			
D	FINAL FIRST CLOSED-IN	2153	2154.4	30.0	30.0	C
E	INITIAL SECOND FLOW	135	199.4			
F	FINAL SECOND FLOW	282	284.0	60.0	58.6	F
F	INITIAL SECOND CLOSED-IN	282	284.0			
G	FINAL SECOND CLOSED-IN	2477	2481.8	120.0	118.3	C
H	FINAL HYDROSTATIC	3805	3810.2			

EQUIPMENT & HOLE DATA

FORMATION TESTED: MADISON
 NET PAY (ft): 45.0
 GROSS TESTED FOOTAGE: 53.0
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 6.000
 ELEVATION (ft): 6047
 TOTAL DEPTH (ft): 7727.0
 PACKER DEPTH(S) (ft): 7669, 7674
 FINAL SURFACE CHOKE (in): 0.125
 BOTTOM HOLE CHOKE (in): 0.620
 MUD WEIGHT (lb/gal): 9.40
 MUD VISCOSITY (sec): 34
 ESTIMATED HOLE TEMP. (°F): 120
 ACTUAL HOLE TEMP. (°F): @ ft

TICKET NUMBER: 68992900
 DATE: 9-22-84 TEST NO: 2
 TYPE DST: OPEN HOLE
 HALLIBURTON CAMP:
FARMINGTON
 TESTER: D. GUNN
 WITNESS: _____
 DRILLING CONTRACTOR:
ANDERSON MYERS # 7

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
<u>MUD PIT</u>	<u>0.340</u> @ <u>60</u> °F	<u>13636</u> ppm
<u>TOP (OIL)</u>	_____ @ _____ °F	_____ ppm
<u>MIDDLE (OIL)</u>	_____ @ _____ °F	_____ ppm
<u>BOTTOM</u>	<u>0.220</u> @ <u>0</u> °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm

SAMPLER DATA

Pstg AT SURFACE: _____
 cu.ft. OF GAS: _____
 cc OF OIL: _____
 cc OF WATER: _____
 cc OF MUD: _____
 TOTAL LIQUID cc: _____

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): 44.0 @ 60 °F
 GAS/OIL RATIO (cu.ft. per bbl): _____
 GAS GRAVITY: _____

CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

RECOVERED:

875 FEET OF RECOVERY CONSISTING OF 600 FEET OF GAS
 CUT OIL AND 275 FEET OF GAS AND OIL CUT MUD

MEASURED FROM
TESTER VALVE

REMARKS:

NET PAY IS FROM 7682' - 7727'.

TYPE & SIZE MEASURING DEVICE:

.75" ADJUSTABLE CHOKE

TICKET NO: 68992900

TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
9-21-84					
2245					ON LOCATION.
9-22-84					
0700					PICKED UP THE TOOLS.
0830					TOOLS MADE UP - TRIPPED IN THE HOLE WITH DST # 2.
1359					ON BOTTOM.
1405	.1258H	4 OZ.			TOOL OPENED - GOOD BLOW AT THE BOTTOM OF THE BUCKET.
1411	.125	7#			CLOSED TOOL - NO GAS AT THE SURFACE.
1441	"	1#			OPENED TOOL WITH A GOOD BLOW.
1446	"	10#			
1451	"	14#			
1456	"	15#			
1501	"	16#			
1506	"	17#			
1511	"	18#			
1516	.125	19#			
1517	1/8"	19.25			SWITCHED TO CHOKE - TRACE OF GAS AT THE SURFACE.
1523	"	20#			WEAK GAS SHOW.
1530	"	21#			"
1536	"	21.5			"
1541		22.0#			CLOSED TOOL.
1741					PULLED OFF BOTTOM - OPENED BY-PASS.
1805					TRIPPED OUT OF THE HOLE WITH DST # 2.
2140					DROPPED BAR AND REVERSED OUT. REVERSING PLUG DIDN'T BREAK.
2240					FINISHED TRIP OUT OF THE HOLE.
9-23-84					
0100					OUT OF THE HOLE.
0230					JOB COMPLETE.

TICKET NO: 68992900
 CLOCK NO: 7276 HOUR: 24



GAUGE NO: 6039
 DEPTH: 7657.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B	1	0.0	145.3		
	2	1.0	132.7	-12.7	
	3	2.0	121.3	-11.3	
	4	3.0	124.3	3.0	
	5	4.0	130.8	6.6	
C	6	4.8	131.2	0.4	
FIRST CLOSED-IN					
C	1	0.0	131.2		
	2	1.0	405.5	274.3	0.9 0.749
	3	2.0	406.7	275.5	1.4 0.528
<input type="checkbox"/>	4	2.2	407.3	276.0	1.5 0.503
	5	3.0	501.0	369.8	1.8 0.415
	6	4.0	608.1	476.9	2.2 0.342
	7	5.0	693.5	562.2	2.5 0.290
	8	6.0	765.9	634.7	2.7 0.254
	9	7.0	856.1	724.9	2.8 0.226
	10	8.0	945.4	814.1	3.0 0.204
	11	9.0	1036.1	904.9	3.1 0.185
	12	10.0	1119.1	987.9	3.2 0.170
	13	12.0	1273.9	1142.7	3.4 0.146
	14	14.0	1423.2	1292.0	3.6 0.128
	15	16.0	1549.0	1417.8	3.7 0.114
	16	18.0	1682.1	1550.9	3.8 0.102
	17	20.0	1789.9	1658.7	3.9 0.093
	18	22.0	1885.9	1754.7	3.9 0.085
	19	24.0	1972.7	1841.5	4.0 0.079
	20	26.0	2036.6	1905.4	4.0 0.073
	21	28.0	2096.2	1965.0	4.1 0.068
D	22	30.0	2134.3	2003.1	4.1 0.064
SECOND FLOW					
E	1	0.0	155.7		
	2	3.0	130.5	-25.2	
	3	6.0	150.3	19.9	
	4	9.0	192.7	42.4	
	5	12.0	206.0	13.3	
	6	15.0	209.6	3.6	
	7	18.0	223.6	13.9	
	8	21.0	231.9	8.3	
	9	24.0	232.8	0.9	
	10	27.0	233.0	0.1	
	11	30.0	242.4	9.4	
	12	33.0	244.8	2.4	
	13	36.0	246.5	1.7	
	14	39.0	248.7	2.1	
	15	42.0	252.2	3.5	

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
	16	45.0	259.3	7.1	
	17	48.0	266.4	7.1	
	18	51.0	270.5	4.2	
	19	54.0	273.2	2.7	
	20	57.0	275.2	2.0	
F	21	58.6	276.0	0.8	
SECOND CLOSED-IN					
F	1	0.0	276.0		
	2	1.0	352.6	76.6	1.0 1.791
	3	2.0	408.9	132.9	1.9 1.515
	4	3.0	453.9	177.9	2.8 1.352
	5	4.0	493.4	217.4	3.7 1.230
	6	5.0	542.6	266.6	4.6 1.135
	7	6.0	590.2	314.2	5.5 1.064
	8	7.0	635.7	359.7	6.3 1.004
	9	8.0	686.8	410.8	7.1 0.951
	10	9.0	733.9	457.8	7.9 0.905
	11	10.0	780.0	504.0	8.6 0.866
	12	12.0	879.6	603.6	10.1 0.798
	13	14.0	971.6	695.6	11.5 0.743
	14	16.0	1058.8	782.8	12.8 0.695
	15	18.0	1159.8	883.8	14.0 0.655
	16	20.0	1244.0	968.0	15.2 0.620
	17	22.0	1327.1	1051.1	16.3 0.589
	18	24.0	1418.3	1142.3	17.4 0.561
	19	26.0	1492.3	1216.3	18.4 0.536
	20	28.0	1564.5	1288.5	19.4 0.513
	21	30.0	1637.4	1361.3	20.4 0.493
	22	35.0	1785.3	1509.3	22.6 0.449
	23	40.0	1907.9	1631.8	24.5 0.412
	24	45.0	2008.1	1732.1	26.3 0.382
	25	50.0	2088.3	1812.2	27.9 0.356
	26	55.0	2159.0	1883.0	29.5 0.333
	27	60.0	2215.6	1939.6	30.8 0.313
	28	70.0	2298.1	2022.1	33.3 0.280
	29	80.0	2353.4	2077.4	35.4 0.253
	30	90.0	2392.5	2116.5	37.2 0.232
	31	100.0	2421.1	2145.1	38.8 0.213
	32	110.0	2444.0	2168.0	40.2 0.198
G	33	118.3	2459.5	2183.5	41.3 0.186

LEGEND:
 STAIR-STEP
 REMARKS:

TICKET NO: 68992900

CLOCK NO: 13741 HOUR: 24



GAUGE NO: 6040

DEPTH: 7724.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B	1	0.0	189.8		
	2	1.0	161.4	-28.4	
	3	2.0	136.5	-24.9	
	4	3.0	136.0	-0.5	
	5	4.0	137.8	1.9	
C	6	4.8	143.7	5.8	
FIRST CLOSED-IN					
C	1	0.0	143.7		
	2	1.0	244.7	101.0	0.8 0.756
	3	2.0	332.5	188.9	1.4 0.535
	4	3.0	424.9	281.2	1.8 0.415
	5	4.0	513.6	369.9	2.2 0.343
	6	5.0	619.0	475.3	2.4 0.291
	7	6.0	711.7	568.0	2.7 0.254
	8	7.0	793.9	650.2	2.8 0.227
	9	8.0	898.3	754.6	3.0 0.203
	10	9.0	992.3	848.6	3.1 0.185
	11	10.0	1087.9	944.2	3.2 0.170
	12	12.0	1241.7	1098.0	3.4 0.146
	13	14.0	1392.9	1249.2	3.6 0.128
	14	16.0	1542.1	1398.5	3.7 0.113
	15	18.0	1664.7	1521.0	3.8 0.102
	16	20.0	1778.5	1634.8	3.9 0.093
	17	22.0	1880.6	1736.9	3.9 0.085
	18	24.0	1966.6	1823.0	4.0 0.079
	19	26.0	2042.4	1898.7	4.0 0.073
	20	28.0	2105.5	1961.9	4.1 0.068
D	21	30.0	2154.4	2010.8	4.1 0.064
SECOND FLOW					
E	1	0.0	199.4		
	2	3.0	136.4	-63.0	
	3	6.0	156.1	19.7	
	4	9.0	202.6	46.5	
	5	12.0	215.0	12.4	
	6	15.0	217.9	2.8	
	7	18.0	231.8	13.9	
	8	21.0	239.9	8.1	
	9	24.0	240.5	0.5	
	10	27.0	240.5	0.0	
	11	30.0	251.4	11.0	
	12	33.0	252.6	1.2	
	13	36.0	254.3	1.6	
	14	39.0	256.8	2.6	
	15	42.0	260.6	3.8	
	16	45.0	267.9	7.3	
	17	48.0	275.1	7.2	

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
	18	51.0	278.7	3.7	
	19	54.0	280.5	1.8	
	20	57.0	282.2	1.8	
F	21	58.6	284.0	1.8	
SECOND CLOSED-IN					
F	1	0.0	284.0		
	2	1.0	339.6	55.6	0.9 1.828
	3	2.0	381.6	97.6	2.0 1.508
	4	3.0	431.0	147.0	2.9 1.338
	5	4.0	482.6	198.6	3.8 1.223
	6	5.0	525.0	241.0	4.6 1.137
	7	6.0	576.4	292.3	5.5 1.061
	8	7.0	623.6	339.6	6.3 1.003
	9	8.0	677.9	393.9	7.1 0.952
	10	9.0	724.2	440.1	7.9 0.907
	11	10.0	772.5	488.4	8.6 0.866
	12	12.0	867.7	583.7	10.1 0.799
	13	14.0	960.9	676.9	11.4 0.744
	14	16.0	1059.7	775.6	12.8 0.696
	15	18.0	1152.3	868.3	14.0 0.655
	16	20.0	1245.8	961.7	15.2 0.619
	17	22.0	1336.1	1052.1	16.3 0.589
	18	24.0	1419.0	1135.0	17.4 0.561
	19	26.0	1499.1	1215.1	18.4 0.537
	20	28.0	1577.3	1293.3	19.4 0.513
	21	30.0	1644.5	1360.5	20.4 0.493
	22	35.0	1795.2	1511.2	22.5 0.449
	23	40.0	1922.3	1638.3	24.5 0.412
	24	45.0	2029.0	1745.0	26.3 0.382
	25	50.0	2111.8	1827.7	28.0 0.355
	26	55.0	2182.9	1898.9	29.4 0.333
	27	60.0	2238.6	1954.6	30.8 0.313
	28	70.0	2322.0	2038.0	33.3 0.280
	29	80.0	2376.1	2092.1	35.4 0.253
	30	90.0	2414.6	2130.6	37.2 0.232
	31	100.0	2444.2	2160.2	38.8 0.213
	32	110.0	2466.6	2182.5	40.2 0.198
G	33	118.3	2481.8	2197.8	41.3 0.186

REMARKS:

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	3167.0	
1		DRILL PIPE.....	3.500	2.764	3578.0	
4		FLEX WEIGHT.....	3.500	2.602	361.0	
3		DRILL COLLARS.....	4.125	2.063	447.0	
50		IMPACT REVERSING SUB.....	4.100	1.900	1.0	7556.0
3		DRILL COLLARS.....	4.125	2.063	90.0	
5		CROSSOVER.....	4.700	2.500	1.2	
12		DUAL CIP VALVE.....	4.750	0.870	6.8	
60		HYDROSPRING TESTER.....	3.800	0.620	5.3	7655.0
80		AP RUNNING CASE.....	3.700	3.000	5.4	7657.0
15		JAR.....	3.700	1.500	6.1	
16		VR SAFETY JOINT.....	3.850	0.750	3.0	
70		OPEN HOLE PACKER.....	5.500	0.750	5.0	7669.0
70		OPEN HOLE PACKER.....	5.250	0.750	5.3	7674.0
5		CROSSOVER.....	4.100	2.300	1.0	
3		DRILL COLLARS.....	4.125	2.063	29.0	
5		CROSSOVER.....	4.100	1.250	1.0	
20		FLUSH JOINT ANCHOR.....	3.700	1.750	15.0	
81		BLANKED-OFF RUNNING CASE.....	3.700	2.500	5.0	7724.0
TOTAL DEPTH					7727.0	

EQUIPMENT DATA

MINERAL CANYON FEDERAL	1-14	4	7728.1 - 7767.1	ENSERCH EXPLORATION, INCORPORATED
LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME
LEGAL LOCATION SEC. - TWP. - RNG.	14-26S-19E			
	FIELD AREA			
	WILDCAT			
	COUNTY			
	GRAND			
	STATE			
	UTAH			
	BG			



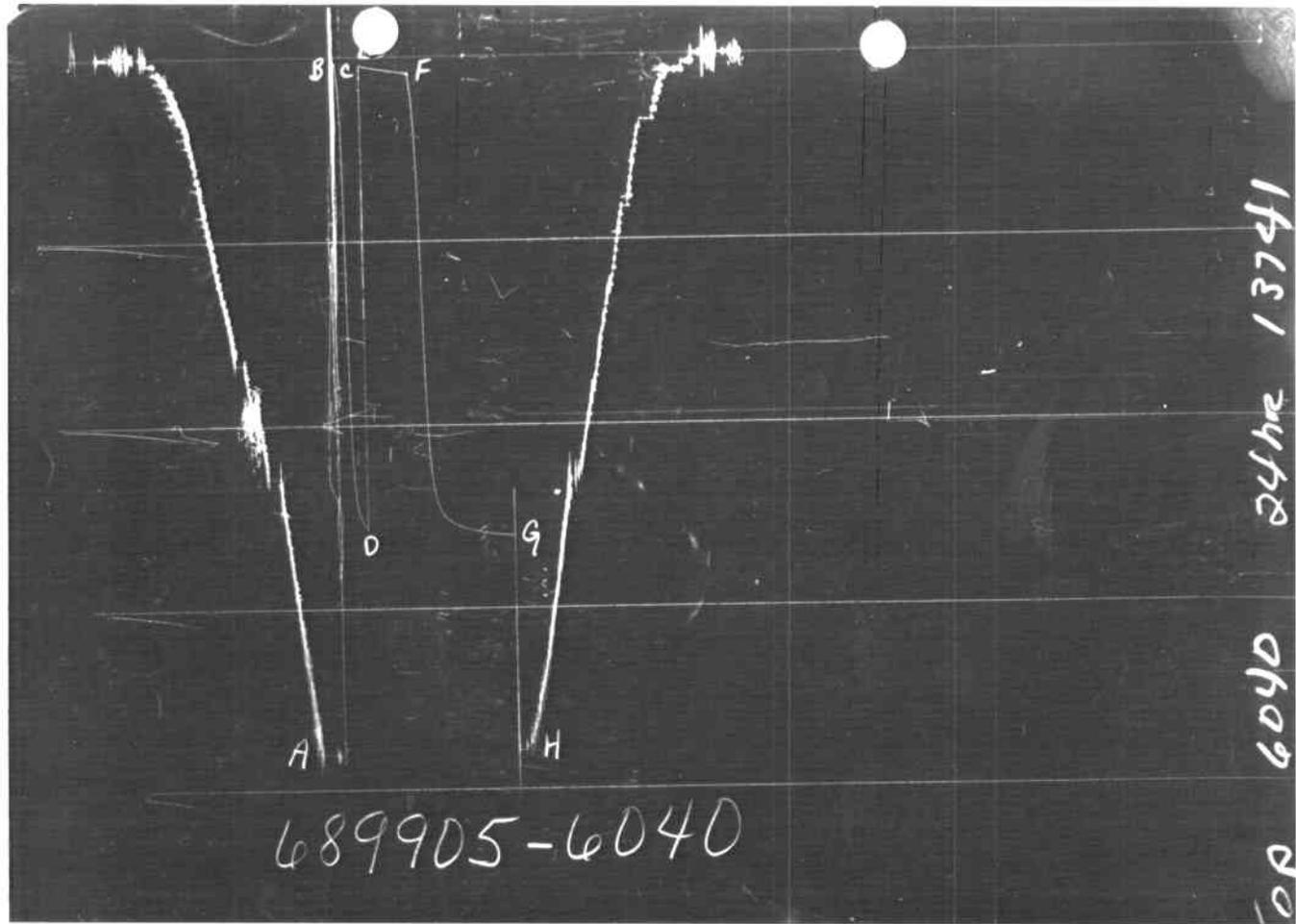
TICKET NO. 68990500
 27-SEP-84
 FARMINGTON

FORMATION TESTING SERVICE REPORT



GAUGE NO: 6040 DEPTH: 7706.4 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3778	3794.7			
B	INITIAL FIRST FLOW	27	20.2			
C	FINAL FIRST FLOW	27	33.7	5.0	5.3	F
C	INITIAL FIRST CLOSED-IN	27	33.7			
D	FINAL FIRST CLOSED-IN	2558	2553.5	30.0	25.3	C
E	INITIAL SECOND FLOW	54	45.3			
F	FINAL SECOND FLOW	94	89.7	60.0	63.0	F
F	INITIAL SECOND CLOSED-IN	94	89.7			
G	FINAL SECOND CLOSED-IN	2585	2598.3	120.0	117.0	C
H	FINAL HYDROSTATIC	3778	3779.5			

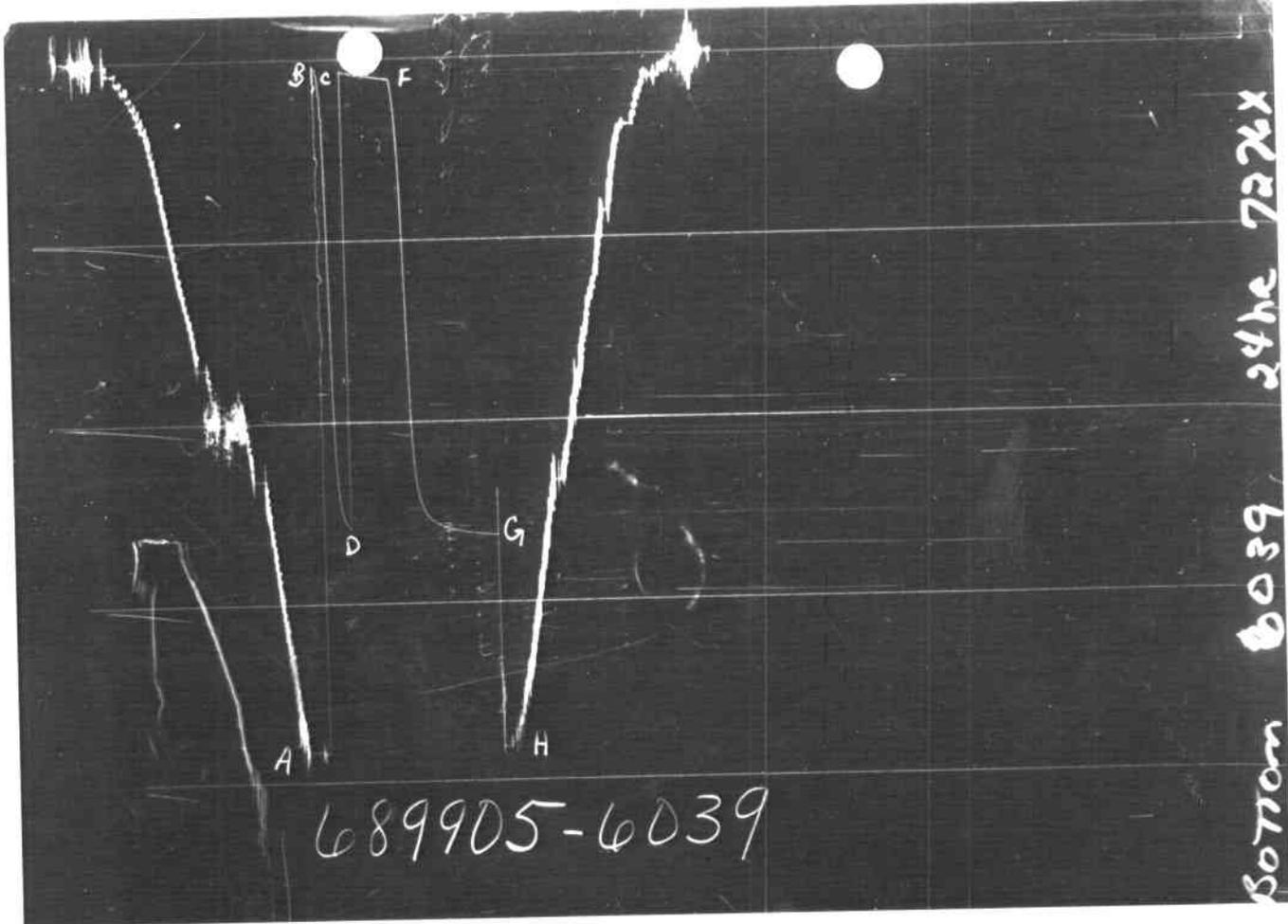


689905-6040

Top 6040 24hr 13741

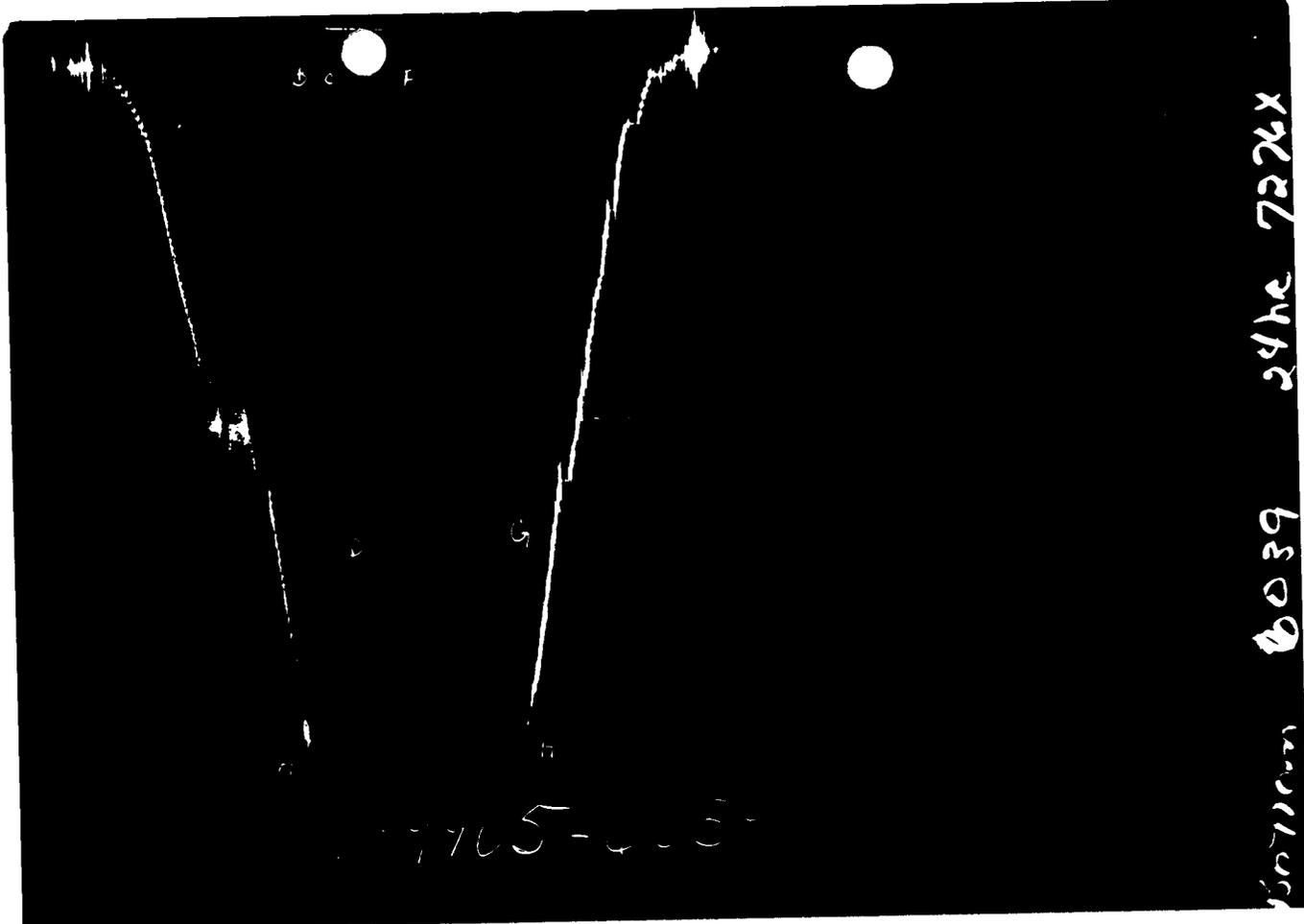
GAUGE NO: 6040 DEPTH: 7706.4 BLANKED OFF: NO HOUR OF CLOCK: 21

NO	DESCRIPTION	PRESSURE	TIME	TYPE
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GAUGE NO: 0000 DEPTH: 7.000 BLANKED OFF: YES HOUR OF CLOCK: 24

10	DEPTH (ft)	PRESSURE	TIME



GAUGE NO: 6039 DEPTH: 7764.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3803	3822.2			
B	INITIAL FIRST FLOW	27	50.7			
C	FINAL FIRST FLOW	27	84.7	5.0	5.3	F
C	INITIAL FIRST CLOSED-IN	27	84.7			
D	FINAL FIRST CLOSED-IN	2583	2581.0	30.0	25.3	C
E	INITIAL SECOND FLOW	54	65.5			
F	FINAL SECOND FLOW	108	112.1	60.0	63.0	F
F	INITIAL SECOND CLOSED-IN	108	112.1			
G	FINAL SECOND CLOSED-IN	2610	2623.8	120.0	117.0	C
H	FINAL HYDROSTATIC	3803	3804.7			

TICKET NO: 68990500

CLOCK NO: 13741 HOUR: 24



GAUGE NO: 6040

DEPTH: 7706.4

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	20.2			
C 2	5.3	33.7	13.5		
FIRST CLOSED-IN					
C 1	0.0	33.7			
2	1.0	82.1	48.4	0.9	0.793
3	2.0	131.5	97.7	1.5	0.557
4	3.0	195.0	161.2	1.9	0.445
5	4.0	328.9	295.2	2.3	0.364
6	5.0	540.2	506.5	2.6	0.315
7	6.0	884.9	851.1	2.8	0.275
8	7.0	1312.3	1278.6	3.0	0.244
9	8.0	1711.6	1677.8	3.2	0.220
10	9.0	1967.8	1934.0	3.3	0.202
11	10.0	2175.4	2141.7	3.5	0.184
12	12.0	2339.5	2305.7	3.7	0.159
13	14.0	2425.6	2391.8	3.8	0.140
14	16.0	2470.0	2436.3	4.0	0.124
15	18.0	2501.2	2467.5	4.1	0.112
16	20.0	2522.6	2488.9	4.2	0.102
17	22.0	2536.9	2503.2	4.3	0.094
18	24.0	2548.1	2514.4	4.3	0.087
D 19	25.3	2553.5	2519.8	4.4	0.083
SECOND FLOW					
E 1	0.0	45.3			
2	4.0	45.8	0.5		
3	8.0	52.2	6.4		
4	12.0	55.8	3.6		
5	16.0	58.4	2.6		
6	20.0	61.3	3.0		
7	24.0	64.3	3.0		
8	28.0	66.7	2.4		
9	32.0	70.1	3.4		
10	36.0	72.3	2.2		
11	40.0	74.9	2.6		
12	44.0	77.7	2.8		
13	48.0	80.3	2.6		
14	52.0	83.0	2.7		
15	56.0	85.4	2.4		
16	60.0	87.7	2.3		
F 17	63.0	89.7	2.0		
SECOND CLOSED-IN					
F 1	0.0	89.7			
2	1.0	143.0	53.3	0.9	1.858

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
3	2.0	181.6	91.9	1.9	1.556
4	3.0	230.7	141.0	2.9	1.376
5	4.0	294.8	205.0	3.8	1.258
6	5.0	380.2	290.5	4.7	1.165
7	6.0	485.3	395.6	5.5	1.090
8	7.0	612.2	522.4	6.3	1.034
9	8.0	768.7	679.0	7.1	0.982
10	9.0	947.1	857.3	7.9	0.935
11	10.0	1208.8	1119.1	8.7	0.893
12	12.0	1635.2	1545.5	10.2	0.826
13	14.0	1959.1	1869.4	11.6	0.768
14	16.0	2136.2	2046.5	13.0	0.722
15	18.0	2249.4	2159.7	14.2	0.680
16	20.0	2328.0	2238.2	15.5	0.644
17	22.0	2374.5	2284.7	16.6	0.613
18	24.0	2410.4	2320.7	17.8	0.584
19	26.0	2437.2	2347.5	18.9	0.559
20	28.0	2455.0	2365.3	19.8	0.537
21	30.0	2472.0	2382.3	20.8	0.515
22	35.0	2500.8	2411.1	23.1	0.470
23	40.0	2519.5	2429.8	25.2	0.432
24	45.0	2533.4	2443.7	27.1	0.401
25	50.0	2544.1	2454.4	28.9	0.374
26	55.0	2552.1	2462.3	30.5	0.350
27	60.0	2559.1	2469.4	31.9	0.330
28	70.0	2570.7	2481.0	34.6	0.296
29	80.0	2579.6	2489.9	36.8	0.268
30	90.0	2586.7	2496.9	38.8	0.245
31	100.0	2592.1	2502.3	40.6	0.226
32	110.0	2596.7	2506.9	42.1	0.210
G 33	117.0	2598.3	2508.6	43.1	0.200

REMARKS:

TICKET NO: 68990500
 CLOCK NO: 7276 HOUR: 24



GAUGE NO: 6039
 DEPTH: 7764.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	50.7			
C 2	5.3	84.7	33.9		
FIRST CLOSED-IN					
C 1	0.0	84.7			
2	1.0	158.7	74.0	0.9	0.795
3	2.0	202.3	117.6	1.5	0.558
4	3.0	318.1	233.4	1.9	0.444
5	4.0	502.7	418.1	2.3	0.369
6	5.0	784.7	700.1	2.6	0.314
7	6.0	1179.0	1094.3	2.8	0.274
8	7.0	1572.0	1487.3	3.0	0.245
9	8.0	1938.2	1853.6	3.2	0.221
10	9.0	2127.4	2042.8	3.3	0.202
11	10.0	2237.2	2152.5	3.5	0.184
12	12.0	2384.7	2300.0	3.7	0.159
13	14.0	2456.6	2371.9	3.8	0.139
14	16.0	2500.2	2415.6	4.0	0.124
15	18.0	2530.7	2446.0	4.1	0.112
16	20.0	2550.0	2465.3	4.2	0.102
17	22.0	2565.2	2480.5	4.3	0.094
18	24.0	2574.9	2490.3	4.3	0.087
D 19	25.3	2581.0	2496.3	4.4	0.083
SECOND FLOW					
E 1	0.0	65.5			
2	4.0	66.1	0.7		
3	8.0	73.8	7.6		
4	12.0	77.8	4.0		
5	16.0	80.7	2.9		
6	20.0	84.0	3.2		
7	24.0	86.6	2.7		
8	28.0	89.1	2.4		
9	32.0	92.1	3.1		
10	36.0	94.7	2.5		
11	40.0	97.6	2.9		
12	44.0	100.6	2.9		
13	48.0	102.9	2.3		
14	52.0	106.0	3.1		
15	56.0	108.1	2.1		
16	60.0	110.8	2.7		
F 17	63.0	112.1	1.3		
SECOND CLOSED-IN					
F 1	0.0	112.1			
2	1.0	149.1	37.0	1.0	1.848

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
3	2.0	186.5	74.4	2.0	1.540
4	3.0	230.8	118.7	2.9	1.379
5	4.0	280.3	168.1	3.8	1.258
6	5.0	369.7	257.6	4.7	1.165
7	6.0	475.6	363.5	5.5	1.095
8	7.0	573.2	461.1	6.3	1.033
9	8.0	735.7	623.6	7.2	0.977
10	9.0	920.9	808.8	7.9	0.935
11	10.0	1138.3	1026.1	8.7	0.894
12	12.0	1558.4	1446.3	10.2	0.824
13	14.0	1912.6	1800.5	11.6	0.770
14	16.0	2135.8	2023.7	13.0	0.722
15	18.0	2264.4	2152.2	14.2	0.681
16	20.0	2342.1	2230.0	15.5	0.645
17	22.0	2396.7	2284.6	16.6	0.613
18	24.0	2433.3	2321.2	17.7	0.585
19	26.0	2459.8	2347.7	18.9	0.559
20	28.0	2481.2	2369.1	19.9	0.536
21	30.0	2496.6	2384.5	20.8	0.516
22	35.0	2527.5	2415.3	23.1	0.470
23	40.0	2546.3	2434.2	25.2	0.433
24	45.0	2559.5	2447.4	27.1	0.401
25	50.0	2569.7	2457.5	28.9	0.374
26	55.0	2577.7	2465.6	30.5	0.350
27	60.0	2585.0	2472.9	31.9	0.330
28	70.0	2596.1	2484.0	34.6	0.296
29	80.0	2605.4	2493.3	36.8	0.268
30	90.0	2611.6	2499.5	38.8	0.245
31	100.0	2616.7	2504.6	40.6	0.226
32	110.0	2620.9	2508.8	42.1	0.210
G 33	117.0	2623.8	2511.7	43.1	0.200

REMARKS:

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	3072.0	
1		DRILL PIPE.....	3.500	2.764	3544.0	
3		DRILL COLLARS.....	4.125	2.000	1058.0	
5		CROSSOVER.....	3.500	2.500	1.0	
12		DUAL CIP VALVE.....	3.875	0.870	5.8	
60		HYDROSPRING TESTER.....	3.875	0.620	5.1	7704.5
80		AP RUNNING CASE.....	3.875	2.250	4.9	7706.4
15		JAR.....	3.875		7.0	
16		VR SAFETY JOINT.....	3.875	0.750	2.5	
70		OPEN HOLE PACKER.....	5.000	1.530	5.0	7723.0
70		OPEN HOLE PACKER.....	5.000	1.530	5.0	7728.0
20		FLUSH JOINT ANCHOR.....	3.875	1.750	33.0	
81		BLANKED-OFF RUNNING CASE.....	3.875		4.0	7764.0
TOTAL DEPTH						7767.0

EQUIPMENT DATA

ENSERCH EXPLORATION, INC.

MINERAL CANYON 1-14

SECTION 14 - T26S - R14E

GRAND COUNTY - UTAH

GEOLOGIC REPORT

BY

CUSH COPELAND

ROCKY MOUNTAIN GEO-ENGINEERING COMPANY

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WELL SUMMARY

OPERATOR: ENSERCH EXPLORATION, INC.
WELL NAME: MINERAL CANYON 1-14
LOCATION: SECTION 14, T26S, R19E
FSL 960' - FEL 1980'
AREA: BIG FLAT
COUNTY: GRAND
STATE: UTAH
ELEVATION: GRADED GL 6032' - KB 6045'
DRILLING ENGINEERS: TRAVIS VAN HOOSE, JACKY BROWN
WELLSITE GEOLOGY: ROCKY MOUNTAIN GEO-ENGINEERING COMPANY
GEOLOGIST: CUSH COPELAND
SPUD DATE: 26 JULY 1984
TOTAL DEPTH: 30 SEPTEMBER 1984
CONTRACTOR: ANDERSON-MYERS, RIG #7
TOOL PUSHER: SAM ANDERSON
CASING RECORD: 9 5/8" TO 4292'; 7" TO 7470'; 4½" TO 8160'
DRILLING MUD: BAROID
MUD ENGINEER: BILL WETHERINGTON
ELECTRIC LOGS: SCHLUMBERGER
TYPE OF LOGS RUN: DLL/MSFL/GR/SP/CALIP, CNLD/GR/CALIP, BHC (LSS)/
GR/CALIP, DIPMETER
E-LOG ENGINEER: BILL HEIAM
OBJECTIVE: DEVONIAN ELBERT
TOTAL DEPTH: DRILLER 8160'; SLM 8160'; LOGGER 8163'
STATUS: 4½" PRODUCTION PIPE RUN

ENSERCH EXPLORATION
MINERAL CANYON 1-14

WELL CHRONOLOGY

DATE & # DAYS	MDNT DEPTH	FTG/ DAY	DAILY OPERATIONS
8/8/84 (1)	4293	-0-	WOC - PU BOP & GRAVEL PACK CSG - CUT OFF CSG & 13 3/8" WELL HEAD - WELD ON NEW HEAD - NIPPLE UP
8/9 (2)	4293	-0-	NIP UP - TEST BOP - PU BHA - TIH & TAG FLOAT COLLAR @ 4243 - BREAK CIRC - NO RETURNS - RUN SURVEY - FIND FLUID @ 3593' - TOH - PU PACKERS & TIH
8/10 (3)	4293	-0-	TIH & SET PAKCER @ 4210 - FILL BACKSIDE W/WATER & TEST TO 1000 PSI - UNSEAT PKRS - TOOH - RIG UP SCHLUMBER FOR BOND LOG & RUN - SET RETAINER @ 4195 - MAKE UP HALLIBURTON STINGER ASSEMBLY - TIH - BRK CIRC & SPOT CMT INTO RETAINER - CMT W/200 SK - REVERSE OUT DP - WOC - TEST SQUEEZE @ 1500 PSI - RIG DN DOWELL - TOH
8/11 (4)	4293	132	LAY DN HALLIBURTON TOOLS - MIX MUD - TIH W/BHA & 35 STDS DP - MIX MUD & WOC - DRLG SHOE & FM TO 4305 - TEST FM TO 16# MUD W/DOWELL - DRLG - WORK ON MUD LINES
8/12 (5)	4425	119	DRLG - RIG SERVICE - RUN SURV (MISRUN-MUD TOO HEAVY) -TOH SLM CORR 4') - CK BOP - TIH - WASH & REAM TO BOT - DRLG
8/13 (6)	4544	255	DRLG - SURV 1 $\frac{1}{2}$ " @ 4530 - DRLG - RIG SERV & CK BOP - DRLG
8/14 (7)	4799	55	DRLG - CO SAMPLES - (GAS INCR @ 4824, 200 U) - CIRC & COND MUD - WORK PIP & RUN SURV 1" @ 4833 - TOH 7 STDS - C&C MUD TOH 7 STDS & TIH - C&C HOLE - TOH FOR DST #1 - PU TEST TOOL
8/15 (8)	4854	110	TIH W/TEST TOOLS - CUT 60' DRLG LINE - TIH & RUN DST #1 - ROOH W/TOOL & LAY DN - TIH W/RR BIT #6 - WASH 15' TO BOT - DRLG - C.O. TRIP GAS - DRLG
8/16 (9)	4964	377	DRLG - RIG SERV - DRLG - RS - DRLG
8/17 (10)	5341	195	DRLG - WORK PIPE & SURV 4 $\frac{1}{4}$ " @ 5337 - DRLG - CIRC & SURV 4 $\frac{1}{4}$ " @ 5368 - R.S. - DRL - R.S. - DRLG - SURV (MR) - DRL - SURV 4 $\frac{1}{4}$ " 5462 - DRLG AHEAD
8/18 (11)	5536	158	DRLG - RS & CK BOP - DRLG - SUR (MR) - RS - DRLG AHEAD
8/19 (12)	5694	84	DRLG - WK PIPE & SURV 4" @ 5680 - DRLG - PUMP PILL & SURV 4 $\frac{1}{2}$ " @ 5772 - TOOH W/BIT #6 - TIH W/BIT #7 - CK BOP - TIH & DRL - C.O. TRIP GAS - DRLG - MIX MUD & COND HOLE - DRLG & PUMP PILL
8/20 (13)	5778	130	TOH & TIH W/NB #8 - W&R 3' TO BOT - DRLG - R.S. - DRLG - C.O. SPLS @ 5806' - SHORT TRIP 10 STDS - CIRC FOR TRIP
8/21 (14)	5908	-0-	CIRC & COND FOR DST #2 - PUMP PILL & SURV (MR) - TOH SLM - PU TEST TOOLS - TIH & RUN DST #2 - TOH W/TOOLS - LAY DN TOOLS - TIH - W&R 30' TO BOT

ENSERCH EXPLORATION
 MINERAL CANYON 1-14
 WELL CHRONOLOGY CONT.

8/22/84 (15)	5908	169	DRLG - WORK PIPE & SURV 4 $\frac{1}{2}$ ⁰ @ 5899 - DRLG - RIG SERV - CK BOP - DRLG - PU & CK FOR FLOW - WELL FLOWING - SHUT IN WELL & BUILD MUD VOLUME
8/23 (16)	6077	-0-	SHUT IN & MIX MUD - WK PIPE - CIRC & KILL WELL W/395 BBL 15# MUD
8/24 (17)	6077	66	MIX MUD TO 15# - CIRC - CK FOR FLOW - SHORT TRIP 5 STDS - CIRC BOT UP - DRLG
8/25 (18)	6143	33	DRLG - SURV 4 ⁰ @ 6115 - DRLG - SHUT IN GAS KICK @ 6174 - CIRC & MIX MUD
8/26 (19)	6176	-0-	CIRC & MIX MUD - PUMP 16.5# PILL - TOH - TIH & CIRC TRIP GAS OUT
8/27 (20)	6176	140	CIRC TRIP GAS OUT, 1480 UNITS - DRLG - CIRC & WK ON MUD LINES - DRLG - CK FOR FLOW & C.O. SPL - DRLG - R.S. -DRLG
8/28 (21)	6316	253	DRLG - CK FOR FLOW & CIRC SPL - DRLG - R.S. & CK BOP - DRLG AHEAD
8/29 (22)	6569	260	DRLG - R.S. - CK BOP & PIP RAMS - DRLG - CK FOR FLOW & CIRC SPL - DRLG
8/30 (23)	6829	42	DRLG - CK FOR FLOW & CIRC SPL - DRLG - CK FOR FLOW & CIRC SPL - DRLG
8/31 (24)	6871	142	DRLG - R.S. & CK BOP - DRLG - R.S. - DRLG
9/1 (25)	7013	1	DRLG - R.S. & CK BOP - DRLG - TAIL SHAFT ON PUMPS BREAKS- CIRC & WO PARTS
9/2 (26)	7014	-0-	CIRC W/HALLIBURTON PUMP TRUCK - WO PARTS - WORK ON TAIL SHAFT - CIRC & COND FOR TRIP - TOH 9 STDS - CIRC BOT UP - SPOT PILL @ 6200 - TOH
9/3 (27)	7014	11	CHG BHA - TIH TO 4000' - SLIP & CUT DRLG LINE - TIH - CIRC OUT TRIP GAS - DRLG
9/4 (28)	7025	167	DRLG - RIG SERV & CK BOP - DRLG - R.S. CK FOR FLOW & CIRC SPL - DRLG
9/5 (29)	7192	147	DRLG - R.S. & CK BOP - DRLG - R.S. - DRLG
9/6 (30)	7339	19	DRLG - R. S. & CK BOP - DRLG
9/7 (31)	7358	19	DRLG - R.S. - MIX PILL - RIG UP MULTI SHOT - PUMP PILL & MULTISHOT - MULTISHOT OUT OF HOLE - CK BOP - TIH W/ NB #11 - W&R 20' TO BOT - DRLG
9/8 (32)	7377	35	DRLG - R.S. & CK BOP - DRLG

ENSERCH EXPLORATION
MINERAL CANYON 1-14
WELL CHRONOLOGY CONT.

- 6 -

9/9/84 (33)	7412	36	DRLG - RIG SERVICE - CK BOP - DRLG AHEAD
9/10 (34)	7448	22	DRLG - CIRC & COND FOR LOGS - MIX PILL - DROP SURVEY - PUMP 17# PILL - TOH (SLM) - SURV 1 $\frac{1}{4}$ " @ 7430 - RU LOGGING ADAPTER - WO SCHLUMBERGER - RU LOGGERS
9/11 (35)	7470	-0-	LOGGING - RIG DN LOGGERS - CK BOP - TIH - CIRC BOT UP - MIX & PUMP 17# PILL - TOH
9/12 (36)	7470	-0-	TOH - RU & LAY DN CREW - LAY DN DP & DC's - RU CSG CREW & MAKE UP SHOE - WELD SHOE - RUN 87 JTS 7" CSG - WO PARTS - FOR LINER HANGER - PU LANDING JT - TIH W/LINER - CIRC & SET LINER HANGER - CMT LINER
9/13 (37)	7470	-0-	CMT LINER - PULL 10 STDS OUT - RIG DN DOWELL - TOOH - PU 3 $\frac{1}{2}$ " DP & NEW BHA - R.S. - PU 3 $\frac{1}{2}$ " DP - RIG DN & PICK UP CREW - TOH W/3 $\frac{1}{2}$ " DP & WASH 3 STD OF CMT OUT OF DP - RIG UP TO TIH - TIH
9/14 (38)	7470	-0-	TIH - TAG CMT @ 3025 - DRL OUT CMT - CIRC TO CLEAN HOLE - DAY DN DP - CLN CMT OUT OF CELLAR - TIH TO 3078 - BREAK CIRC & DRL CMT
9/15 (39)	7470	-0-	DRLG CMT & TAG 7" LINER @ 4004 - CIRC & CLN HOLE - TEST FM W/HALLIBURTON TO 500 PSI - CIRC BOT UP - CK FOR FLOW - CIRC BOT UP - CIRC & COND MUD - PUMP SLUG - TOH - PU HOWCO TOOLS - TIH - BRK CIRC & CIRC BOT UP - SPOT BRINE PILL - PU & SET PACKER @ 3980 - CIRC ABOVE TOOL & FILL DP W/BRINE - PRESS UP TO 3000 PSI ON CMT - NO LEAK OFF - OPN TOOL & CK FOR FLOW (NONE) - RIG DN HOWCO & CIRC BRINE OUT OF HOLE
9/16 (40)	7470	-0-	TOH - LAY DN RTTS PCKR - CK BOP - LAY DN 6 DC's - PU BHA - TIH - CUT & SLIP 65' DRL LINE - R.S. & CK BOP - REPLACE HOSE FITTINGS ON ROTART TORQUE WHEEL ON ROTARY CHAIN - RIH ONE STD & ONE JT 4 $\frac{1}{2}$ " DP - CIRC - TIH - DRLG CMT TO TOP OF FLOAT COLLAR - TOH 37 STDS - CLN MUD TANKS & BLD VOL
9/17 (41)	7470	-0-	BLD VOL - TIH 11 STDS OF 4 $\frac{1}{2}$ " DP - COH & LAY DN SAME - DISPLACE HOLE W/WTR - TIH - BRK CIRC & DISPLACE 16# MUD - CK FOR FLOW - DRLG FLOAT COLLAR & CMT - CIRC BOT UP
9/18 (42)	7470	55	CIRC BOT UP - TEST CSG TO 500 PSI - HOLD FOR 10 MIN - DRL CMT & SHOE - DRLG 6" HOLE - R.S. - DRLG - CIRC BOT UP & DROP SURV 1 3/4" @ 7522 - TOH (SLM) - TIH - DRLG UP CHUNK OF CMT - DRLG AHEAD
9/19 (43)	7525	165	DRLG - RS & CK BOP - DRLG - LOST APPROX 60 BBLS MUD @ 7636 - MIX & PUMP LCM PILL - DRLG W/FULL RETURNS
9/20 (44)	7694	31	DRLG - CO SPL - PUMP PILL - TOH & CK BOP - PU CORE BBL - TIH W/CORE BBL - W&R 85' TO BOT - DROP BALL & CUT CORE #1 - CORING - TOOH W/CORE #1
9/21 (45)	7725	2	TOH W/CORE #1 - BRK DN CORE BBL & LAY DN CORE - TIH FOR #2 CORE - TWIST OFF PIN ON 4 $\frac{1}{2}$ "-3 $\frac{1}{2}$ " X-OVER SUB - WOO - TOH & LAY

ENSERCH EXPLORATION
 MINERAL CANYON 1-14
 WELL CHRONOLOGY CONT.

CORE BBL - RS - CK BOP - TIH W/RR BIT #13 - W&R 30' TO BOT - DRLG - CIRC & COND HOLE - TOH - WO DC INSPECTOR & RIG UP SAME - TOOH & CK HWDP & DC's

9/22/84 7727 -0- MAGNAFLUX HWDP - LAY DN 5 & PU 4 MAGAFLUX DC's - LAY DN (46) 11 & PU 2 - PU TEST TOOLS FOR DST #2 - TIH & PU 8, 4 1/8" DC's - RUN DST #2 - TOH 73 STDS TO OIL IN DP - TRY TO REVERSE OUT W/NO LUCK - TOH SLOW - DRAIN OIL FROM EACH STD

9/23 7727 40 TOH - LAY DN TEST TOOL - JET CELLAR & CLN OUT OIL - PU (47) #14 BIT - TIH (SLM) - SLIP & CUT 50' DRL LINE - WASH 30' TO BOT - DRLG - CO SPL - DROP SURV 2 1/2" @ 7767' - TOH

9/24 7767 13 TOOH - WO TESTER - PU TEST TOOLS - TIH FOR DST #4 & RUN (48) DST - TOH - BRK DN & LOAD OUT TEST TOOLS - TIH W/RR BIT # 15 - DRLG AHEAD

9/25 7780 124 DRLG - RS & CK BOP - DRLG - TOOH FOR HOLE IN PIPE (SLM) (49)

9/26 7904 62 TOH - DRESS BIT #16 & TIH - DRLG - RS - DRLG - RECALIBRATE (50) TOTCO VISULOGGER - DRLG

9/27 7966 193 DRLG - RS & CK PIPE RAMS - DRLG (51)

9/28 8059 25 DRLG - RS & CK BOP - DRLG - CIRC BOT UP - PUMP SURV 2 1/2" @ (52) 8077 - TOH & TIH W/BIT #17 - TAG LINER - PU KELLY TO WORK INTO LINER - TOH TO INSPECT BIT (OK) - TIH - W&R 65' TO BOT - DRLG

9/29 8084 66 DRLG - RS & CK BOP - DRLG (53)

9/30 8150 10 DRLG - CO SPL - SHORT TRIP 10 STDS - CO BOT UP - RU LOGGERS (54) & RUN E-LOGS

10/1 8160 RUN LOGS - RIG DN SCHLUMBERGER - TIH - CIRC BOT UP - TOH & (55) RU CSG CREW - RUN 4 1/2" PROD PIPE

ENSERCH EXPLORATION
 MINERAL CANYON 1-14
 SECTION 14, T26S-R19E
 GRAND COUNTY - UTAH

SAMPLE DESCRIPTIONS

4300-4320	100%	HALITE clr-wh vcxl
4320-4330	100%	HALITE clr-wh vcxl
	TR	ANHY wh sft amor s/gran
4330-4350	100%	HALITE AA
4350-4370	100%	HALITE AA
	TR	ANHY AA
4370-4400	100%	HALITE AA
4400-4410	75%	HALITE AA
	25%	DOLO ltgy-gy dns m-hd mcxl vf xl s/arg s/sl calc
4410-4420	65%	HALITE AA
	35%	DOLO AA
	TR	ANHY wh v sft amor vfxl s/gran
4420-4430	90%	HALITE AA
	5%	DOLO ltgy-gy dns mhd-hd mcxl vfxl s/slarg s/slcalc s/ANHY
	TR	ANHY AA
4430-4440	40%	SLTST crm-buf-lttan blkyl frm-vfrm s/DOLO-slcalc
	30%	SH dkgy-gy-gybrn plty-blky sft-mfrm calc-vcalc s/sl ANHY
	15%	DOLO ltgy-mgy pred dns msft-frm micxl vfxl s/arg s/slcalc
	15%	ANHY wh vsft amor-vfxl s/gran
4440-4460	100%	SH gy-dkgy AA
	TR	ANHY AA
4460-4470	65%	ANHY wh vsft gummy vfxl-gran
	35%	SLST ltgy-crm-lttan blkyl sft calc-vcalc
	TR	LS ltbrn dns mhd micxl
4470-4480	70%	SLTST AA
	30%	ANHY AA
	TR	LS AA
4480-4490	60%	ANHY AA
	40%	SLTST AA
	TR	SH blk sft carb vcalc
4490-4540	100%	HALITE clr-wh vcxl
4540-4550	40%	ANHY wh-clr vsft gummy vfxl-amor
	30%	HALITE AA
	30%	SLTST ltgy blkyl frm n-slcalc s/ANHY
4550-4560	55%	HALITE AA
	45%	ANHY AA
4560-4570	50%	HALITE AA
	40%	SLTST ltgy-wh blkyl frm n-slcalc s/sl ANHY
4570-4580	90%	SLTST ltgy-ltbrn blkyl sft-frm s/arg n-slcalc
	10%	SH ltgy-ltbrn blkyl vsft slty calc s/ANHY
4580-4590	85%	SLTST AA
	15%	SH AA
	TR	ANHY wh vsft amor
4590-4610	90%	SH pred ltbrn AA
	10%	SLTST pred ltgy AA
4610-4620	90%	SLTST AA
	10%	SH AA
4620-4630	70%	HALITE clr-wh vcxl
	15%	SH AA
	15%	ANHY wh blkyl vsft-msft amor

ENSERCH EXPLORATION, IN
 MINERAL CANYON #1-14
 SAMPLE DESCRIPTION CONT.

4630-4650	100%	HALITE AA
4650-4660	100%	HALITE AA
		TR ANHY wh
4660-4680	60%	HALITE AA
	40%	SLTST wh blkly mfrm sl dolo-calc s/sl ANHY
4670-4680	85%	HALITE AA
	15%	SLTST AA
4680-4690	70%	HALITE AA
	30%	SLTST ltgy-tan-wh blkly frm s/dolo-calc
4690-4790	100%	HALITE AA
4790-4800	80%	HALITE AA
	20%	ANHY wh vsft amor
4800-4810	75%	SLTST tan-buf blkly sft-frm ncalc-calc arg-varg s/dolo
	25%	DOLO tan-ltgy blkly dns frm s/slcalc s/slty
4810-4820	85%	SLTST AA
	15%	DOLO AA
4820-4830	65%	DOLO tan-ltgy AA
	35%	SLTST tan-buf AA
		TR FLOR dul yel/NO VIS <u>CUT/RES</u> dul gld
4830-4840	75%	DOLO AA
	25%	SLTST AA
		TR <u>FLOR/CUT/RES</u> AA
4840-4850	55%	HALITE AA
	35%	DOLO tan-ltbrn frm s/slcalc micxl arg-varg slty-vsly
	10%	ANHY wh vsft amor
4850-4860	60%	SH dkgy-blky sft-frm slcalc
	40%	DOLO tan-ltbrn AA w/sm grdg to dolo SLTST
4860-4870	60%	DOLO AA
	40%	SH AA
4870-4920	100%	HALITE clr-wh vcxl
4920-4950	100%	HALITE AA w/sm org (prob SYLVITE OR CARNALLITE) s/sl slty
4950-5050	100%	HALITE AA w/sm SYLVITE-CARNALLITE AA
5050-5060	100%	HALITE clr-wh vcxl
		TR ANHY AA
5060-5070	50%	SLTST wh-ltgy blkly frm s/dolo s/arg s/ANHY
	35%	HALITE AA
	15%	ANHY AA
5070-5080	70%	SLTST AA
	20%	ANHY AA
	10%	SH dkgy-blk sft carb s/slty
5080-5140	100%	HALITE AA
5140-5160	100%	HALITE AA
		TR ANHY AA
5160-5170	40%	SLTST ltgy-gy frm w/s sft dolo-calc
	35%	HALITE AA
	25%	ANHY AA
		TR <u>FLOR mnrl/NO CUT OR RES</u>
5170-5190	100%	HALITE AA
5190-5200	100%	HALITE AA
		TR ANHY wh vsft amor-vfxl s/gran
5200-5220	100%	HALITE AA
5220-5230	70%	ANHY AA
	15%	DOLO brn dns hd s/slty s/arg
	15%	SLTST gy-gygn blkly mfrm s/arg s/dolo-calc
5230-5240	60%	SLTST gy-brn gy AA
	40%	ANHY AA
5240-5250	85%	SLTST AA
	15%	ANHY AA

ENSERCH EXPLORATION, INC
 MINERAL CANYON 1-14
 SAMPLE DESCRIPTION CONT.

5250-5260	55%	SLTST AA	
	45%	ANHY AA	
5260-5360	100%	HALITE wh-clr vcxl	
5360-5370	100%	ANHY wh vsft amor-vfxl s/gran	
5370-5380	50%	SH dkgy blk sft-frm s/slty	
	30%	SLTST dkgy-gy w/sm wh blk mfrm-sft s/ANHY s/arg	
	20%	ANHY wh vsft amor	
5380-5390	45%	SH AA	
	35%	SLTST AA	
	20%	ANHY AA	
5390-5400	85%	SLTST dkgy-ofwh blk sft-frm s/dolo s/slcalc s/arg	
	15%	SH AA dkgy	
5400-5430	100%	HALITE AA	
5430-5450	100%	HALITE AA	
	TR	ANHY wh vsft amor	
5450-5500	100%	HALITE AA	
5500-5530	100%	HALITE clr-wh vcxl	
	TR	ANHY wh vsft amor	
5530-5550	100%	HALITE AA s/w ANHY STRGS	
	TR	ANHY AA incr	
5550-5560	55%	SH dkgy blk-pty mfrm s/slty	
	45%	SLTST gy-dkgy sft-frm s/arg s/sdy grd to vfg slty SS	
5560-5570	70%	SH AA	
	30%	SLTST gy blk sft-frm s/arg s/sl sdy	
5570-5580	60%	SH dkgy blk frm	
	45%	SLTST AA	
5580-5590	70%	SH AA	
	20%	SLTST AA	
	10%	ANHY wh vsft-sft amor	
5590-5600	50%	SLTST gy-ltgy blk mfrm s/arg	
	40%	SH dkgy blk-pty mfrm s/slty	
	10%	ANHY wh vsft amor	
5600-5610	100%	HALITE wh-clr vcxl	
5610-5660	100%	HALITE AA w/occ ANHY STRGS	
5660-5750	100%	HALITE wh-clr vcxl	
5750-5760	70%	SH dkgy-blk blk frm ncalc	
	15%	ANHY wh vsft-sft amor-vfxl	
	15%	SLTST gy blk mfrm arg	
5760-5770	55%	SH AA	
	45%	SLTST AA	
5770-5780	70%	SH AA	VPS (ABN LCM, CVGS AFTER TRIP @ 5773')
	30%	ANHY wh vsft amor	
5780-5790	70%	SH dkgy-blk blk s/pty mfrm	
	15%	ANHY AA	
	15%	SLTST AA	
5790-5840	100%	HALITE clr-wh vcxl	
5840-5850	50%	SH dkgy blk-pty mfrm slty	
	50%	HALITE AA	
	TR	PYR mass w/SH	
5850-5860	85%	HALITE AA	
	15%	SH AA	
	TR	PYR AA	
5860-5890	100%	HALITE clr-wh vcxl	
5890-5900	80%	SH dkgy-blk blk-pty mfrm s/slty	
	10%	ANHY wh sft vsft amor	
	10%	SLTST gy w/s gngy blk mfrm arg	
	TR	FLOR ON SH FRAC FACES/fast strmg bri yel	CUT & RES

ENSERCH EXPLORATION, INC
 MINERAL CANYON #1-14
SAMPLE DESCRIPTION CONT.

5900-5910	90%	SH AA
	10%	SLTST AA
5910-5920	80%	SH dkgy-blk AA
	10%	ANHY wh sft-vsft amor
	10%	HALITE clr-wh vcxl
5920-6020	100%	HALITE clr-wh-mott vcxl
6020-6040	100%	HALITE AA
	TR	ANHY wh vsft amor
6040-6050	85%	HALITE AA
	15%	ANHY wh sft-vsft amor s/gran
6050-6060	30%	ANHY AA
	25%	SH gy-dkgy blk-plty mfrm
	25%	SLTST gybrn blk mfrm arg
	20%	HALITE wh-clr-mot vcxl
	ABNT	FLOR bri yel f-strmg/CUT bri yel/RES bri yel (<u>FREE OIL ON ALL CUTTINGS</u>)
6060-6070		NS (MUD BYPASSING SHAKER THRU GAS BUSTER)
6070-6100	100%	HALITE clr-wh w/s mott vcxl
6100-6110	70%	HALITE AA
	30%	SH blk-dkgy blk frm s/slty
6110-6140	100%	HALITE clr-wh vcxl
6140-6150	50%	SH blk-dkgy blk sft-frm s/slty
	30%	HALITE AA
	20%	ANHY wh vsft amor
	ABNT	FLOR bri blu/CUT bluyel f-strmg/RES bri bluwh & <u>ABNT FREE OIL AA</u>
6150-6160	100%	HALITE clr-wh vcxl w/
	ABNT	OIL ON SALT CTGS
6160-6180		NS (MUD BYPASSING AA)
6180-6220	100%	HALITE clr-wh s/mott vcxl
6220-6230	100%	HALITE AA
	TR	ANHY wh vsft amor
6230-6330	100%	HALITE clr-wh vcxl
6330-6340	100%	HALITE AA
	TR	ANHY wh sft-vsft pred amor w/s gran
6340-6350	100%	HALITE AA
6350-6360	40%	SH dkgy-blk blk mfrm s/slty
	30%	SLTST ltbrn-ofwh-buf blk-plty mfrm ncalc
	TR	FLOR dul gld/NO CUT OR RES
6360-6370	30%	SH AA
	30%	HALITE clr-wh vcxl
	30%	SLTST AA
	10%	ANHY wh sft-vsft amor w/
	TR	<u>FLOR/CUT/RES AA</u>
6370-6480	100%	HALITE clr-wh w/sm mot vcxl
6480-6500		NS (BYPASS SHAKER TO CHANGE SCREENS)
6500-6620	100%	HALITE clr-wh w/sm mot vcxl
6620-6630	100%	HALITE AA
	TR	ANHY AA
6630-6690	100%	HALITE AA
6690-6700	100%	HALITE clr-wh w/sm mot vcxl
	TR	ANHY AA wh sft-vsft amor
6700-6810	100%	HALITE AA
6810-6820	90%	HALITE AA
	10%	ANHY wh sft-vsft amor
6820-6830	30%	SH dkgy-blk frm-hd s/fiss s/slty carb

ENSERCH EXPLORATION, INC
 MINERAL CANYON #1-14
 SAMPLE DESCRIPTION CONT.

	20%	ANHY AA
	20%	DOLO brn dns hd micxl arg
	20%	SLTST frm blk mfrm-sft w/ FLOR scatt dul yelgn/CUT yel gn poor strmg/RES yel gn poor
6830-6840	65%	SH AA
	35%	ANHY AA
6840-6850	50%	ANHY AA
	30%	SH AA
	20%	SLTST brn-ltbrn blk mfrm ncalc
6850-6860	40%	ANHY AA
	40%	SH AA
	20%	SLTST AA
		FLOR/CUT/RES AA w/TR OIL ON PITS (poss from uphole)
6860-6870	50%	ANHY AA
	40%	SH AA
	10%	SLTST AA
6870-6880	80%	ANHY wh sft-vsft amor
	10%	SH dkgy-blk blk-pty s/fiss ncalc
	10%	SLTST brn-ltbrn pty mfrm
6880-6890	100%	HALITE clr-wh w/sm mot vcxl
6890-6900	100%	HALITE AA
	TR	ANHY wh sft-vsft amor
6900-6920	100%	HALITE clr-wh w/sm mot vcxl
6920-6930	100%	HALITE AA
	TR	ANHY AA
6930-7000	100%	HALITE AA
7000-7010	25%	HALITE AA
	25%	ANHY AA
	25%	SH dkgy-gybrn-blk frm n-slcalc s/slty
	25%	SLTST brngy blk mfrm arg w/ TR FLOR dul yelgn/CUT yelgn slo strmg/RES yel gn (spl s aromatic)
7010-7020	70%	HALITE clr-wh-mot vcxl
	30%	ANHY wh sft-vsft amor
7020-7030	75%	HALITE AA
	25%	ANHY AA
7030-7050	100%	HALITE (clr-wh-mot) & SYLVITE (org-salmon-pink)
	TR	ANHY wh sft-vsft amor
7050-7070	100%	HALITE & SYLVITE AA
7070-7080	100%	HALITE & SYLVITE AA w/incrg SYLVITE
7080-7100	100%	HALITE & SYLVITE AA w/decrgr SYLVITE
7100-7120	100%	HALITE clr-wh mot vcxl
7120-7170	100%	HALITE & SYLVITE org AA
7170-7250	100%	HALITE clr-wh-mot vcxl
7250-7260	100%	HALITE AA
	TR	ANHY wh sft-vsft amor
7260-7280	100%	HALITE AA
7280-7290	100%	HALITE AA
	TR	ANHY wh sft-vsft amor
7290-7320	100%	HALITE clr-wh-mot vcxl
7320-7330	100%	HALITE AA
	TR	ANHY wh sft-vsft amor
7330-7340	25%	HALITE AA
	25%	ANHY AA
	25%	SH dkbrn-blk pred sft slcalc s/slty
	25%	SLTST gy blk mfrm slcalc-dolo
7340-7360	75%	SH AA
	25%	SLTST AA

ENSERCH EXPLORATION, INC
 MINERAL CANYON #1-14
SAMPLE DESCRIPTIONS CONT.

7360-7370	80%	SH AA
	20%	SLTST AA
7370-7380	65%	SH AA dkgy-blk
	35%	SLTST AA gy
7380-7390	60%	SH AA
	40%	SLTST AA
7390-7400	40%	SH AA
	40%	ANHY wh sft-vsft amor
	20%	SLTST AA
7400-7410	45%	ANHY AA wh
	30%	SH AA
	30%	SLTST AA
7410-7420	80%	ANHY AA
	20%	SH AA w/incr blk s/hd s/fiss calc w/
	TR	PYR mass
7420-7430	65%	ANHY AA
	35%	SH AA
	TR	DOLO
7430-7440	50%	DOLO brn-gybrn hd dns arg s/scu
	30%	SH blk-dkbrn blk mfrm s/slty
	20%	ANHY wh sft-vsft amor
7450-7460	90%	DOLO AA w/s incr calc s/ANHY
	10%	SH AA
7460-7470	75%	DOLO AA
	15%	SH AA
	10%	SLTST dkgy blk mfrm calc-dolo ANHY
7470-7480	80%	DOLO AA
	20%	SH AA
7480-7500	100%	LS ltgy-ltbrn-wh-ofwh dns hd-mhd s/arg s/dolo crp-micxl s/suc
7500-7510	100%	LS AA
	TR	PYR mass
7510-7530	100%	LS ltbrn-ltg y-wh dns mhd s/arg micxl f-cxln s/suc s/sparry s/rexl calcite dns
7530-7540	100%	LS AA w/ABNT cxl sparite (wh-ltgy)
7540-7560	100%	LS AA
7560-7570	100%	LS AA w/
	TR	PYR dism in LS
7570-7580	100%	LS AA
	TR	SS ltyel fg mcmt cal-cmt wsrt sbrd
7580-7600	100%	LS pred wh-ltgy sparry w/ABN FOSS debris (crin)
7600-7670	100%	LS AA w/sm brn-gy
	TR	PYR IN LS dism
7620-7630	70%	LS AA
	30%	DOLO gy-dkbrn micxl suc good vug porosity
7630-7660	60%	LS AA
	40%	DOLO AA (LOST APPROX 60 BBLS MUD @ 7637)
7660-7670	75%	DOLO incr ltgy AA w/sm vfxl s/micritic
	25%	LS AA VPS (ABN LCM)
7670-7680	70%	DOLO AA
	20%	LS AA
	10%	CHT wh-crm-ltgy vhd ang
7680-7690	75%	DOLO m-dkbrn-gy micxl suc s/vug por
	25%	CHT AA w/
		FLOR scat dull gn/CUT yelgn f-strmg/RES blgn good w/
	TR	OIL ON PITS
7690-7700	80%	DOLO
	20%	CHT AA
		<u>FLOR/CUT/RES</u> AA & OIL ON PITS

ENSERCH EXPLORATION, INC
 MINERAL CANYON #1-14
 SAMPLE DESCRIPTIONS CONT.

7700-7715	80%	DOLO AA
	20%	CHT AA
		FLOR/CUT/RES AA incrg
7715-7724	100%	DOLO (CORE #1 - RECV APPROX 1' RUBBLE) gy-dkgy-mot hd s/VIS VUG POR w/good HYDROCARBON AROMA W/ABNT FLOR ON CORE PIECES s/rex1 breccia FRAC FLG
7724-7740	70%	DOLO AA
	30%	CHT AA
		FLOR/CUT/RES AA
7740-7750	75%	DOLO pred crm-1tbrn-buf inc dn
7750-7780	100%	DOLO AA w/sm suc s/fxl
7780-7790		NS (BYPASS SHAKERS TO RETAIN LCM)
7790-7800	100%	DOLO 1t-mbrn dns micxl vfxl hd w/ TR FLOR dul gn/CUT & RES
7800-7840	100%	DOLO 1tbrn-tan-gy-mott dns micxl s/suc f-mxl s/sparry s/sl arg s/sl calc w/occ rex1 FRAC FL
7840-4860	100%	DOLO AA w/sm vug por w/ TR FLOR AA/CUT poor strmg yelgn & RES dul gn
7860-7870	100%	DOLO AA w/ TR SH ltgn s/wxy frm-brit sl-ncalc w/ TR FLOR/CUT/RES AA
7870-7900	100%	DOLO tan-brn micxl fxl w/sm sparry s/arg s/vug por dns w/ TR FLOR/CUT/RES AA
7900-7920	100%	DOLO AA
7920-7930	100%	DOLO tan-brn AA w/s incrg arg
7930-7940	60%	LS gy-ltgy dns plty-splty s/blky w/wxy frm sl-mcalc
	40%	DOLO AA
	TR	SH-CLYST ltgn plty-blky s/wxy frm sl-mcalc
7940-7950	60%	DOLO ltgy-tan micxl vfxl s/sparry dns
	40%	LS AA
7950-7960	75%	DOLO AA
	25%	LS AA
7960-7970	60%	LS pred 1st gy w/s gy micxl vfxl hd dns s/dolo-grdg to calc dolo
	40%	DOLO ltgy-tan micxl vfxl s/sparry dns
7970-7980	90%	LS AA
	10%	DOLO AA
7980-7990	70%	LS AA
	30%	DOLO AA
7990-8000	90%	LS ltgy-gy micxl f-vfxl dns hd s/dolo
	10%	DOLO 1t-brn dns hd micxl vfxl s/slcalc
8000-8070	80%	LS pred ltgy AA w/s sft wh chky w/occ rex1 CALC FL FRAC
	20%	DOLO AA 1tbrn
8070-8030	55%	DOLO 1tbrn-1ttan-ltgy micxl vfxl s/suc
	45%	LS AA
	TR	SH gygn mfrm splty mcalc s/wxy
8030-8040	70%	LS wh-ltgy w/s tan-1tbrn micxl vfxl hd dns s/x1 CALC FRAC FL s/dolo
	30%	DOLO AA tan-ltgy
8040-8050	75%	LS AA
	25%	DOLO AA
8050-8060	80%	LS AA
	20%	DOLO AA
8060-8070	60%	LS AA
	40%	DOLO AA
	20%	SH-CLYST ltgn mcalc frm-hd-sft
8070-8090	55%	DOLO crm-ltgy dns hd micxl fxln
	45%	LS AA wh-ltgy

ENSERCH EXPLORATION, INC
MINERAL CANYON #1-14
SAMPLE DESCRIPTION CONT.

8090-8100 50% DOLO AA w/s rdbrn strks s/styl
30% SH ltgn blkly frm dolo s/slty
20% LS AA wh-ltgy
8100-8110 40% DOLO AA buf-ltgy
40% SS clr m-vfg wcmt sil-cmt psrt sbrd-rdd tt
10% LS AA
10% SH AA w/occ QTZ grs fros-ltbrn cg wrdd
8110-8120 60% SS AA
20% DOLO buf-ltgy w/s pk strks AA
20% SH AA ltgn
8120-8130 70% SS AA
15% DOLO AA
15% SH ltgn blkly frm s/sl dolo-calc s/wxy
8130-8140 65% SS clr f-cg wcmt sil-cmt psrt rdd-sbrd tt-vtt
20% DOLO buf-ltgy AA
15% SH AA
8140-8150 50% SS AA
30% DOLO gy-ltbrn dns hd micxl vfxl
20% SH AA
8150-8160 80% DOLO AA gy-ltbrn
10% SS AA clr-ltbrn
10% SH ltgn-ltgy mfrm blkly s/wxy s/calc-dolo

ENSERCH EXPLORATION, INC.
 MINERAL CANYON 1-14
 SECTION 14 - T26S - R14E
 GRAND COUNTY - UTAH

FORMATION TOPS		
FORMATION	E-LOG TOP	SEA LEVEL DATUM
CLASTIC #3	4406	+1641
CLASTIC #4	4542	+1505
CLASTIC #5	4653	+1394
CLASTIC #6	4796	+1251
CLASTIC #7	5056	+ 991
CLASTIC #8	5162	+ 885
CLASTIC #9	5218	+ 829
CLASTIC #10	5360	+ 687
CLASTIC #11	5530	+ 517
CLASTIC #12-#13	5562	+ 485
CLASTIC #14	5751	+ 296
CLASTIC #15	5842	+ 205
CLASTIC #16 (BLACK OIL ZONE)	5894	+ 153
CLASTIC #17 (GREEN OIL ZONE)	6042	+ 5
CLASTIC #18	6102	- 55
CLASTIC #19	6350	- 303
CLASTIC #20	6813	- 766
CLASTIC #21	7002	- 955
CANE CREEK	7330	-1283
MISSISSIPPIAN LEADVILLE	7482	-1435
MISSISSIPPIAN MADISON	7675	-1628
DEVONIAN OURAY	7933	-1886
DEVONIAN ELBERT	8042	-1995

DRILL STEM TEST REPORT

DST # 1

Date 8/15/84

Testing Co. HALLIBURTON

WELL NAME: MINERAL CANYON #1-14

Formation: CLASTIC #6 Interval: 4810-4854 Wtr. Cushion NONE

Hole Size 8 3/4 Packer Size _____ Drl. Pipe Size _____ Bbls/Ft .01422

Dril. Collar Size 6" Bbls/Ft _____ Drlg. Contractor ANDERSON-MYERS #7

Mud Filtrate: Ppm Nitrate _____ Ppm Chlorides _____

	Minutes Duration	Gas to Surf. _____ Min; Rate _____
Preflow	<u>5</u>	Fluid to Surf. _____ Min; Rate _____
Initial Shutin	<u>30</u>	Mud _____ Min; Wtr _____ Min; Oil _____ Min
Flow Period	<u>60</u>	
Final Shutin	<u>120</u>	

Test Description: PREFLOW: OPEN W/3½ OZ, WENT TO 13 OZ AFTER 5 MIN
FINAL FLOW: OPEN W/18 OZ, 24 OZ AFTER 5 MIN 25 OZ AFTER 18 MIN, 25½ AFTER 28 M, 25 3/4
AFTER 33 M, STARTED DECR @ 40 M
CLOSED TOOL: @ 24½ OZ

Orifice Plate Size	Temp.	Minutes from V.O.	Pressure	Rate
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Pressure Records (Field Readings) -- Bomb Depth 4851 + Bottom Hole Temp. _____
4791

~~XXXXXXXX~~ Final Flow
 @4791 IHP 2862 IFP 80/80 FFP 80/80 ISIP 266 ; IFP _____ FFP _____ FSIP 745 FHP 2810
 @4851 2862 80/80 80/80 266 745 2810
 Sampler Capacity _____ Cc's; Sampler Pressure _____ Rstv _____ Temp _____

Cu Ft Gas _____ Cc's Oil _____ Cc's Water _____ Cc's (Other) _____

Sampler Recovery (Water): Ppm Nitrate _____ Ppm Chlorides _____

Pipe Recovery: .9 BBL (186' GCM)

Problems: NONE

Remarks: _____

Agent of Operator _____

DRILL STEM TEST REPORT

DST # 2 Date 8/22/84 Testing Co. HOWCO

WELL NAME: MINERAL CANYON #1-14

Formation: CLASTIC #16 Interval: 5896-5908 Wtr. Cushion -----

Hole Size 6" Packer Size Drl. Pipe Size 3 1/2" Bbls/Ft

Drl. Collar Size 4 1/8" Bbls/Ft Drlg. Contractor ANDERSON-MYERS #7

Mud Filtrate: Ppm Nitrate ----- Ppm Chlorides -----

	Minutes Duration	Gas to Surf. <u> </u> Min; Rate <u> </u>	Fluid to Surf. <u> </u> Min; Rate <u> </u>	Mud <u> </u> Min; Wtr <u> </u> Min; Oil <u> </u> Min
Preflow	<u>5</u>			
Initial Shutin	<u>30</u>			
Flow Period	<u>60</u>			
Final Shutin	<u>120</u>			

Test Description: P.F.: OPEN W/SURFACE BUBBLE, WENT TO 1/2" BUBBLE AFTER 5 MIN
E.F.: OPEN W/NO BLOW.
CLOSED W/NO BLOW

Orifice Plate Size	Temp.	Minutes from V.O.	Pressure	Rate
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Pressure Records (Field Readings) -- Bomb Depth 5878+ Bottom Hole Temp. 108 °

Pre Flow: ~~XXXXXXXXXX~~ Final Flow: _____
 @ 5878 IHP 4030 IFP 42/42 FFP 48/48 ISIP 143 ; IFP _____ FFP _____ FSIP 48 FHP 4004
 @ 5908 3968 109/109 211/211 211 233 3968
 Sampler Capacity _____ Cc's; Sampler Pressure _____ Rstv _____ Temp _____ °

Cu Ft Gas _____ Cc's Oil _____ Cc's Water _____ Cc's (Other) _____

Sampler Recovery (Water): Ppm Nitrate _____ Ppm Chlorides 250 M

Pipe Recovery: 32' SLIGHTLY GAS CUT MUD

Problems: TOOL PROBABLY PARTIALLY PLUGGED

Remarks: _____

Agent of Operator _____

DRILL STEM TEST REPORT

DST # 3 Date 9/22/84 Testing Co. HOWCO

WELL NAME: MINERAL CANYON #1-14

Formation: MADISON Interval: 7676 - 7727 Wtr. Cushion NONE

Hole Size 6" Packer Size _____ Drl. Pipe Size 3 1/2 Bbls/Ft _____

Dril. Collar Size 4 1/8" Bbls/Ft _____ Drlg. Contractor ANDERSON-MYERS #7

Mud Filtrate: Ppm Nitrate _____ Ppm Chlorides _____

	Minutes Duration	Gas to Surf.	Min;	Rate	-----
Preflow	<u>6</u>	<u>30</u>			
Initial Shutin	<u>30</u>	<u>---</u>			
Flow Period	<u>60</u>	<u>Min;</u>	<u>Wtr</u>	<u>Min;</u>	<u>Oil</u>
Final Shutin	<u>120</u>				<u>Min</u>

Test Description: PREFLOW: OPEN W/GOOD BLO 4 OZ, INCR TO 7 PSI AFTER 6 M
FINAL FLOW: OPEN W/1 PSI, 18 PSI IN 30 M, 21 PSI IN 45, 22 PSI IN 60 M

Orifice Plate Size	Temp.	Minutes from V.O.	Pressure	Rate
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Pressure Records (Field Readings) -- Bomb Depth 7657+ Bottom Hole Temp. ---
7724

FINAL FLOW
~~FINAL FLOW~~

@ 7657 IHP 3762 IFP 121-135 FFP 2124 ISIP _____; IFP _____ FFP _____ FSIP 2448 FHP 3762
 @ 7724 IHP 3805 IFP 135-135 FFP 2153 Rstv 2477 Temp 3805

Cu Ft Gas _____ Cc's Oil _____ Cc's Water _____ Cc's (Other) _____

Sampler Recovery (Water): Ppm Nitrate _____ Ppm Chlorides _____

Pipe Recovery: 600' GASSY OIL, 275'; MUDDY & GAS CUT

Problems: NONE

Remarks: OIL + 44 GRAVITY @ 60°F

Agent of Operator _____

DRILL STEM TEST REPORT

DST # 4 Date 9/24/84 Testing Co. HOWCO

WELL NAME: MINERAL CANYON #1-14

Formation: MADISON Interval: 7728 - 7767 Wtr. Cushion NONE

Hole Size 6" Packer Size _____ Drl. Pipe Size 3 1/2" Bbls/Ft _____

Drl. Collar Size 4 1/8" Bbls/Ft _____ Drlg. Contractor _____

Mud Filtrate: Ppm Nitrate _____ Ppm Chlorides _____

	Minutes Duration	Gas to Surf. _____ Min; Rate _____	Fluid to Surf. _____ Min; Rate _____
Preflow	<u>5</u>		
Initial Shutin	<u>30</u>		
Flow Period	<u>60</u>	Mud _____ Min; Wtr _____ Min; Oil _____ Min	
Final Shutin	<u>120</u>		

Test Description: PREFLOW: OPEN W/WK BLO, INCR TO 1" AFTER 5 MIN

FINAL FLOW: OPEN W/WK BLO, WENT TO 9 OZ AFTER 60 M

Orifice Plate Size	Temp.	Minutes from V.O.	Pressure	Rate
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Pressure Records (Field Readings) -- Bomb Depth 7708+ 7762 Bottom Hole Temp. _____ °

~~XXXXXX~~ Final Flow

@7708 IHP 3778 IFP 27-27 FFP 54-94 ISIP 2558; IFP _____ FFP _____ FSIP 2585 FHP 3778

@7762 3778 27-27 54-108 2583 2610 3803

Sampler Capacity _____ Cc's; Sampler Pressure _____ Rstv _____ Temp _____

Cu Ft Gas _____ Cc's Oil _____ Cc's Water _____ Cc's (Other) _____

Sampler Recovery (Water): Ppm Nitrate _____ Ppm Chlorides _____

Pipe Recovery: 90' OIL, 120' GAS & MUD CUT OIL CHANGING TO MUDDY OIL

Problems: NONE

Remarks: OIL GRAVITY = 42 @ 66°F

Agent of Operator _____



ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL LOGGING — CORE AND WATER ANALYSIS

2450 INDUSTRIAL BLVD.

PHONE 243-3044

GRAND JUNCTION, COLORADO 81501

COMPANY ENSERCH EXPLORATION, INC.

WELL NO. MINERAL CANYON #1-14

LOCATION _____

ZONE OF INTEREST NO. 1

INTERVAL: From 4824 To 4828

DRILL RATE: Abv 4 MIN/FT Thru 7 MIN/FT Below 10 MIN/FT

MUD GAS-CHROMATOGRAPH DATA

	TOTAL	C ₁	C ₂	C ₃	C ₄	C ₅	OTHER
Before	8	1716	1100	580	228		
During	200	11,880	8,000	2,900	1140		
After	90	9,240	4,500	1,740	570		

Type gas increase: Gradual Sharp

Gas variation within zone: Steady Erratic Increasing Decreasing

CARBIDE HOLE RATIO: $\frac{\text{GRAMS}}{\text{READING}}$ X Min. in Peak = _____ Sensitivity: Poor Fair Good

FLUO: Mineral Even Spotty
 None % in total sample 80%
 Poor
 Fair % in show litholog 80%
 Good COLOR: YELLOW

CUT: None Streaming
 Poor Slow
 Fair Mod
 Good Fast
 COLOR: YEL, BLU MLKY

STAIN: None Poor Fair Good Live Dead Residue Even Spotty Lt. Dk.

POROSITY: Poor Fair Good Kind PROBABELY FRACTURE POROSITY

LITHOLOGY 80% DOLO: slty, tan, ltbrn, blk, calc 20% SLTST CLASTIC #6

SAMPLE QUALITY GOOD

NOTIFIED _____ @ _____ HRS. DATE: _____

REMARKS _____

ZONE DESCRIBED BY PAUL ZUREK



ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL LOGGING — CORE AND WATER ANALYSIS

2488 INDUSTRIAL BLVD.

PHONE 243-3644

GRAND JUNCTION, COLORADO 81501

COMPANY ENSERCH EXPLORATION, INC.

WELL NO. MINERAL CANYON #1-14

LOCATION _____

ZONE OF INTEREST NO. 2

INTERVAL: From 5894 To 5908

DRILL RATE: Abv 27 MIN/FT Thru 11 MIN/FT Below 21 MIN/FT

MUD GAS-CHROMATOGRAPH DATA

	TOTAL	C ₁	C ₂	C ₃	C ₄	C ₅	OTHER
Before	100	11,550	3,500	1,450	540		
During	150	20,460	6,250	2,350	855		
After	75	8,250	2,750	1,125	997		

Type gas increase: Gradual Sharp

Gas variation within zone: Steady Erratic Increasing Decreasing

CARBIDE HOLE RATIO: $\frac{\text{GRAMS}}{\text{READING}}$ X Min. in Peak = _____

Sensitivity: Poor Fair Good

FLUO: Mineral Even Spotty
 None % in total sample 1%
 Poor
 Fair % in show lithology 1%
 Good COLOR: BRIGHT YELLOW

CUT: None Streaming
 Poor Slow
 Fair Mod
 Good Fast
 COLOR: BRIGHT YELLOW

STAIN: None Poor Fair Good Live Dead Residue Even Spotty Lt. Dk.

POROSITY: Poor Fair Good Kind FRACTURE-FLOURESCENCE ON FRAC FACES

LITHOLOGY 95% SH:dkgy-blk,blky-plty,mfrm 5% SLTST:gy,blky,arg

SAMPLE QUALITY POOR

NOTIFIED _____ @ _____ HRS. DATE: _____

REMARKS TRACE OF BRN OIL IN POSSUM BELLY

ZONE DESCRIBED BY CUSH COPELAND



ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL LOGGING — CORE AND WATER ANALYSIS

2458 INDUSTRIAL BLVD.

PHONE 243-3044

GRAND JUNCTION, COLORADO 81501

COMPANY ENSERCH EXPLORATION, INC.

WELL NO. MINERAL CANYON #1-14

LOCATION _____

ZONE OF INTEREST NO. 3

INTERVAL: From 6054 To 6077

DRILL RATE: Abv 12 MIN/FT Thru 3 MIN/FT Below _____

MUD GAS-CHROMATOGRAPH DATA

	TOTAL	C ₁	C ₂	C ₃	C ₄	C ₅	OTHER
Before	50	3300	1375	870	202		
During	1120	66000	55000	68150	62780		
After							

Type gas increase: Gradual Sharp

Gas variation within zone: Steady Erratic Increasing Decreasing

CARBIDE HOLE RATIO: $\frac{\text{GRAMS}}{\text{READING}}$ X Min. in Peak = _____

Sensitivity: Poor Fair Good

FLUO: Mineral Even Spotty
 None % in total sample _____
 Poor
 Fair % in show lithology _____
 Good COLOR: BRIGHT YELLOW

CUT: None Streaming
 Poor Slow
 Fair Mod
 Good Fast
 COLOR: BRIGHT YELLOW

STAIN: None Poor Fair Good Live Dead Residue Even Spotty Lt. Dk.

POROSITY: Poor Fair Good Kind FRACTURE

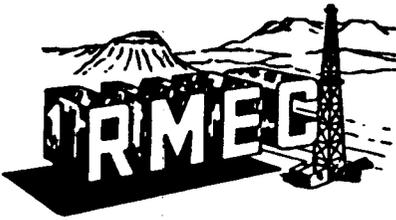
LITHOLOGY 30% ANHY:wh, fft, amor 30% SH:dkgy-blk-brn, blk mfrm

20% mass pyrite 20% SALT SAMPLE QUALITY FAIR

NOTIFIED KENT FOURET @ 17:50 HRS. DATE: 8/22/84

REMARKS WELL KICKED FROM 6054, MUD VERY OIL AND GAS CUT

ZONE DESCRIBED BY _____



ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL LOGGING — CORE AND WATER ANALYSIS

2450 INDUSTRIAL BLVD.

PHONE 243-3044

GRAND JUNCTION, COLORADO 81501

COMPANY ENSERCH EXPLORATION, INC.

WELL NO. MINERAL CANUYON #1-14

LOCATION _____

ZONE OF INTEREST NO. 4

INTERVAL: From 6155 To _____

DRILL RATE: Abv 12 MIN/FT Thru 5 MIN/FT Below _____

MUD GAS-CHROMATOGRAPH DATA

	TOTAL	C ₁	C ₂	C ₃	C ₄	C ₅	OTHER
Before	75	2145	1375	1885	1710		
During	1750	56100	48750	58000	142500		
After							

Type gas increase: Gradual Sharp

Gas variation within zone: Steady Erratic Increasing Decreasing

CARBIDE HOLE RATIO: $\frac{\text{GRAMS}}{\text{READING}}$ X Min. in Peak = _____ Sensitivity: Poor Fair Good

FLUO: Mineral Even Spotty
 None % in total sample 100%
 Poor
 Fair % in show lithology 100%
 Good COLOR: BRIGHT BLUE-WHITE

CUT: None Streaming
 Poor Slow
 Fair Mod
 Good Fast
 COLOR: LIGHT BLUE-YELLOW

STAIN: None Poor Fair Good Live Dead Residue Even Spotty Lt. Dk.

POROSITY: Poor Fair Good Kind PROBABLY FRACTURE

LITHOLOGY 50% SH: blk-dkgy, blk, sft-frm, s/slty 30% ANHYDRITE 20% SALT

SAMPLE QUALITY _____

NOTIFIED _____ @ _____ HRS. DATE: _____

REMARKS ABUNDANT FREE OIL ON ALL CUTTINGS AND IN MUD TANKS AFTER WELL KICKED

ZONE DESCRIBED BY _____



ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL LOGGING — CORE AND WATER ANALYSIS

2489 INDUSTRIAL BLVD.

PHONE 243-3044

GRAND JUNCTION, COLORADO 81501

COMPANY ENSERCH EXPLORATION, INC.

WELL NO. MINERAL CANYON #1-14

LOCATION _____

ZONE OF INTEREST NO. 5

INTERVAL: From 7005 To 7007

DRILL RATE: Abv 40 MIN/FT Thru 6 MIN/FT Below 49 MIN/FT

MUD GAS-CHROMATOGRAPH DATA

	TOTAL	C ₁	C ₂	C ₃	C ₄	C ₅	OTHER
Before	30	1800	750	425	417		
During	70	6930	2125	1595	1425		
After	32	2100	1100	550	525		

Type gas increase: Gradual Sharp

Gas variation within zone: Steady Erratic Increasing Decreasing

CARBIDE HOLE RATIO: $\frac{\text{GRAMS}}{\text{READING}}$ X Min. in Peak = _____ Sensitivity: Poor Fair Good

FLUO: Mineral Even Spotty CUT: None Streaming
 None % in total sample 20% Poor Slow
 Poor % in show lithology 40% Fair Mod
 Fair COLOR: DULL YELLOW-GREEN Good Fast YELLOW GREEN
 Good

STAIN: None Poor Fair Good Live Dead Residue Even Spotty Lt. Dk.

POROSITY: Poor Fair Good Kind _____ FRACTURE _____

LITHOLOGY SH:dkgybrn-blk,frm,n-sl calc,s/slty, sample slightly aromatic

SAMPLE QUALITY FAIR-POOR

NOTIFIED JACKY BROWN @ 20:30 HRS: DATE: 8/31/84

REMARKS CLASTIC #21

ZONE DESCRIBED BY GARY CONKLIN



ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL LOGGING — CORE AND WATER ANALYSIS

2450 INDUSTRIAL BLVD.

PHONE 243-3044

GRAND JUNCTION, COLORADO 81501

COMPANY ENSERCH EXPLORATION, INC.

WELL NO. MINERAL CANYON #1-14

LOCATION _____

ZONE OF INTEREST NO. 6

INTERVAL: From 7680 To 7712

DRILL RATE: Abv 5 MIN/FT Thru 3 MIN/FT Below 7 MIN/FT

MUD GAS-CHROMATOGRAPH DATA

	TOTAL	C ₁	C ₂	C ₃	C ₄	C ₅	OTHER
Before	20	2200	1100	820	380		
During	50	3040	1700	1740	1824		
After	30	1950	925	900	680		

Type gas increase: Gradual Sharp

Gas variation within zone: Steady Erratic Increasing Decreasing

CARBIDE HOLE RATIO: $\frac{\text{GRAMS}}{\text{READING}}$ X Min. in Peak = _____ Sensitivity: Poor Fair Good

FLUO: Mineral Even Spotty 40%
None % in total sample _____
Poor
Fair % in show lithology 70%
Good COLOR: YELLOW

CUT: None Streaming
Poor Slow
Fair Mod
Good Fast
COLOR: BLUE-GREEN

STAIN: None Poor Fair Good Live Dead Residue Even Spotty Lt. Dk.

POROSITY: Poor Fair Good Kind VUG AND INTERCRYSTALLINE

LITHOLOGY DOLOMITE:m-dkbrn,s/litgy-ltcrm,suc

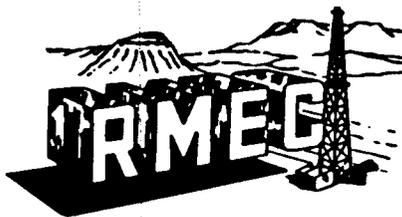
SAMPLE QUALITY POOR-FAIR

NOTIFIED KENT FOURET @ 1:00 HRS. DATE: 9/20/84

REMARKS MADISON POROSITY-CORE POINT @ 7715

TRACE OF OIL ON PITS, NOTE INCREASE OF C₃ AND C₄

ZONE DESCRIBED BY GARY CONKLIN



ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL LOGGING — CORE AND WATER ANALYSIS

2450 INDUSTRIAL BLVD.

PHONE 243-3044

GRAND JUNCTION, COLORADO 81501

COMPANY ENSERCH EXPLORATION, INC.

WELL NO. MINERAL CANYON #1-14

LOCATION _____

ZONE OF INTEREST NO. 7

INTERVAL: From 7755 To 7767

DRILL RATE: Abv 11 MIN/FT Thru 5 MIN/FT Below _____

MUD GAS-CHROMATOGRAPH DATA

	TOTAL	C ₁	C ₂	C ₃	C ₄	C ₅	OTHER
Before	5	330	175	72	55		
During	5	330	175	72	55		
After	5	330	175	72	55		

Type gas increase: Gradual Sharp

Gas variation within zone: Steady Erratic Increasing Decreasing

CARBIDE HOLE RATIO: $\frac{\text{GRAMS READING}}{\text{X Min. in Peak}} =$ _____ Sensitivity: Poor Fair Good

FLUO: Mineral Even Spotty
 None % in total sample 10%
 Poor
 Fair % in show lithology 10%
 Good COLOR: DULL YELLOW-GOLD

CUT: None Streaming
 Poor Slow
 Fair Mod
 Good Fast
 COLOR: YELLOW-GREEN

STAIN: None Poor Fair Good Live Dead Residue Even Spotty Lt Dk.

POROSITY: Poor Fair Good Kind VUG AND FRACTURE

LITHOLOGY 100% DOLO: 1tbrn., -ltgy, dns, hd TR CHERT TR PYRITE

SAMPLE QUALITY GOOD

NOTIFIED TRAVIS VAN HOOBE @ 20:15 HRS. DATE: 9/23/84

REMARKS _____

ZONE DESCRIBED BY GARY CONKLIN

GEOLOGIC SUMMARY
AND
ZONES OF INTEREST

Enserch Exploration, Inc's. well Mineral Canyon #1-14, located in Section 14, T26S, R14E of Grand County, Utah, was spudded 26 July, 1984 and completed 30 September, 1984.

Geological coverage began at the time the Mineral Canyon #1-14 was drilled out from under 9 5/8" intermediate casing (set at 4292') and into the Pennsylvanian Paradox Salt #3. There followed the cyclical salt and clastic facies characteristic of this area of the Paradox Basin.

CLASTIC UNITS (3 - 22)

The Clastic Units are numbered 3 through 21 in this field, with any given salt section bearing the same number as the Clastic that immediately overlies it. The top of Clastic #4 can be correlated to the south with the Desert Creek; Clastic #6 through Salt #10 is time equivalent to the Akah; #11 Clastic thru #19 Salt correlates to the Barker Creek; Clastic #20-Salt #21 correlates to the Alkalai Gulch; and the Cane Creek (Clastic #22) can be correlated with the Pinderton Trail.

The Salt sections typically consist of clear to white halite with occasional orange to pink sylvite and carnallite. A generalized clastic unit shows a cap of soft white anhydrite; underlying black shales are soft to firm, noncalcareous to calcareous and silty; dolomites are gray-brown, dense, hard, crypto-microcrystalline and argillaceous; and siltstones are white to gray, blocky, soft to firm, argillaceous, dolomitic to calcareous.

Clastics #16 (the "Black Oil Zone") and #17 (the "Green Oil Zone") are of particular interest as potential high pressure oil producing formations. These overpressured Clastics with pressure gradients of .65 to .70 produce a long generally vertical fracture systems and, in fact, Clastic #17 and an unnumbered clastic immediately below #18 kicked quite hard, both requiring 16.6# mud to keep the hole under control. Owing to difficulties in completing wells in both the Paradox and Mississippian Formations on any single well, the salt and clastic sections were cased-off behind a 7" liner. (The Mississippian Madison was the primary objective and usually shows pressure gradients of approximately .43.)

MISSISSIPPIAN:
LEADVILLE (7482' - 7675')

The Leadville in its top consisted of 2/3 of light colored limestone, dense, microcrystalline, occasionally sucrosic and sparry in nature. The bottom 1/3 saw a gradual increase in light and dark colored, dense, sucrosic dolomites with some vuggy porosity.

MADISON (7675' - 7933')

The Madison was the primary objective and was dominated by light to dark dolomites. These dolomites are dense, hard, predominantly microcrystalline, often sparry, and some with good vuggy porosity. The upper 1/3 of the Madison was seen to have occasional amounts of light, very hard chert. A drill stem test, run through a porosity zone that produced a gas increase from 20 to 50 units at 7676'-7727', recovered 600' of gassy oil in the drill pipe.

ENSERCH EXPLORATION,
MINERAL CANYON #1-14
GEOLOGIC SUMMARY CONTINUED

- 31 -

DEVONIAN:

OURAY (7933' - 8042') ELBERT (8042' - T.D.)

Although historically it is of minor significance as a hydrocarbon producer in the Paradox Basin, the Devonian was drilled and the well was completed just below the McCracken sandstone member of the Devonian Elbert.

The uppermost Devonian, the Ouray, was topped at 7933' and consisted of varying percentages of limestone and dolomite. The limestone was light colored, microcrystalline, and often considerably recrystallized, as were the dolomite. At 8042' the Devonian Elbert was penetrated. The upper 60 feet was a light color, microcrystalline, dense, and frequently recrystallized limestone and dolomite with minor amounts of light green, waxy, calcareous to dolomitic shale and claystone. The McCracken sandstone came in at 8104' and was a clear, clean, very fine to coarse grained, poorly sorted, siliceously cemented, rounded, very tight and very hard sand. The Devonian produced no hydrocarbon shows.

COMMENTS:

The Mineral Canyon #1-14 was drilled to total depth with few difficulties. Any problems that were encountered were skillfully and professionally overcome by all those involved.

I found all personnel on this project to be exceptionally helpful and concerned. I very much appreciated all the help I received. This well was very interesting and I appreciated the opportunity to serve as the geologist.

If we can be of any further assistance in the final evaluation, or if clarification of data collected is needed, please do not hesitate to contact us.

Thank you,

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(FORM 9-329)

(2/76)

OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Lease No. U-52387
Communitization Agreement No. N/A
Field Name Wildcat
Unit Name Mineral Canyon
Participating Area _____
County Grand State Utah
Operator Enserch Exploration, Inc.
 Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of September, 19 84

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
1-14	Sec. 14 SW/4 - SE/4	26S	19E	DRG.	None	None	None	None	Drilled 8-3/4 inch hole to 7470 feet, logged and ran directional survey. Then ran 7 inch drilling liner through Paradox Salt to 7470 feet and cemented into place. Tested liner to 3000 psi and drilled out with 6 inch bit. Activity on Sept. 30, 1984, was drilling ahead with 6 inch bit at 8158 feet.

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	None	None	None
*Sold	_____	_____	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	_____
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	_____	_____	XXXXXXXXXXXXXXXXXX

Authorized Signature: B. G. Vick Address: 1230 River Bend - #136 - Dallas, TX
Title: Drilling Superintendent Page 1 of 1 75247

UN) STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIP
(Other instruction, reverse side)

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

RECEIVED
OCT 09 1984

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME Mineral Canyon	
2. NAME OF OPERATOR Enserch Exploration, Inc.		8. FARM OR LEASE NAME Mineral Canyon Unit	
3. ADDRESS OF OPERATOR 1230 River Bend Drive - Suite 136 - Dallas, Texas 75247		9. WELL NO. 1-14	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 960' FSL & 1980' FEL (SW/4-SE/4)		10. FIELD AND POOL, OR WILDCAT Wildcat	
14. PERMIT NO. 43-019-31156 (State)		15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6032' GR	
		12. COUNTY OR PARISH Grand	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) <u>Drilling Operations</u> <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The following is a correct report of drilling operations for the month of September 1984:

The 8-3/4 inch hole was continued to a depth of 7470 feet, the top of the Mississippian formation. A multi-shot directional survey was run through the Paradox Salt interval. Open-hole logs were run from total depth to the intermediate casing point at 4291 feet. A 7 inch drilling liner was then set through the Paradox Salt from 7470 to 4004 feet using 29#, S-95, LTC casing. The liner was cemented with 650 sacks Class G + 18% salt + 25 lb/sack Barite + 1.25% D-65 + 0.2% D-59 + 0.1% D-13. Tested liner to 3000 psi and pressure held okay. Displaced salt mud system with fresh water and drilled out of 7 inch liner drilling a 6 inch hole. The operations on September 30, 1984, were drilling ahead with a 6 inch bit at a depth of 8158 feet.

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

SIGNED B. G. Vick TITLE Drilling Superintendent DATE October 4, 1984
B. G. Vick

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

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.)

<p>1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></p> <p>2. NAME OF OPERATOR Enserch Exploration, Inc. (303) 831-1616</p> <p>3. ADDRESS OF OPERATOR 1700 Lincoln St., Suite 3600, Denver, Colorado 80203</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 960' FSL, 1980' FEL (SW SE)</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. U-53387</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A</p> <p>7. UNIT AGREEMENT NAME N/A</p> <p>8. FARM OR LEASE NAME Mineral Canyon</p> <p>9. WELL NO. #1-14</p> <p>10. FIELD AND POOL, OR WILDCAT Wildcat</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 14, T26S, R19E SLB&M</p> <p>12. COUNTY OR PARISH Grand</p> <p>13. STATE Utah</p>
<p>14. PERMIT NO. 43-019-31156</p>	<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6032' 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 <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Progress Report</u> <input checked="" type="checkbox"/>	

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Moved in and rigged up completion unit on October 9, 1984. Preparing to commence completion operations.

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

SIGNED Danny E. Hagens TITLE District Production Superint. DATE 10/11/84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

RECEIVED

IN TRIPLICATE*
See instructions on
reverse side)

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

NOV 9 1984

SUNDRY NOTICES AND REPORTS ON WELLS OF OIL

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-53387
2. NAME OF OPERATOR Enserch Exploration, Inc. (303) 831-1616		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
3. ADDRESS OF OPERATOR 1700 Lincoln St., Suite 3600, Denver, Colorado 80203		7. UNIT AGREEMENT NAME Mineral Canyon
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 960' FSL, 1980' FEL (SE SE)		8. FARM OR LEASE NAME Mineral Canyon Unit
14. PERMIT NO. 43-019-31156	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6032' GR	9. WELL NO. #1-14
		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 14, T26S, R19E SLB&M
		12. COUNTY OR PARISH Grand
		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) <input checked="" type="checkbox"/> Progress Report	(Other) <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.)*

MIRU Pool Well Service. Nippled up tubinghead. RIH with 2 3/8" tubing. Drilled cement and displaced hole with 2% KCL water. RIH and set packer at 7622'. Perf. 4 1/2" casing from 7700-10', 7720-24' and 7734-36' with 3 3/8" perforating gun. Swbd emulsion and water. Res-set packer at 7602'. Swbd from seating nipple at 7571' recovering thick, heavy oil with trace of water. Rigged up Smith Energy and pumped 4200 gals diesel heated to 150° with 8 gals surfactant. Recovered diesel-cut oil. Halliburton acidized perfs from 7700-7710', 7720-24' and 7734-36' down 2 3/8" tubing with 1000 gals 15% MCA. Swbd and well began to flow. Flowed well to pit 8 hrs at 2600 MCFD rate of inert gas with trace of water. Sqzd perfs from 7700-36' with 100 sx Class "G". Dropped pkr down hole to 7728'. Perforated 4 1/2" casing from 7733-37' with 4 spf, 1 9/16" hollow carrier perforating gun. Swbd small amount of gas with trace of heavy green oil. Acidized perfs from 7733-37' with 250 gals 15% MCA. Recovered approx. 12 bbls load and acid water with trace of oil and estimated 200 MCFD of inert gas. Attempted to squeeze perfs from 7700-7710' and cemented up tubing and RTTS. Recovered all 2 3/8" tubing. Presently attempting to recovery RTTS.

CONFIDENTIAL - TIGHT HOLE

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

SIGNED Danny E. Hagins TITLE Production Superintendent DATE 11/13/84

(This space for Federal or State office use)

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

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

5. LEASE DESIGNATION AND SERIAL NO.	U-53387
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	N/A
7. UNIT AGREEMENT NAME	Mineral Canyon
8. FARM OR LEASE NAME	Mineral Canyon Unit
9. WELL NO.	#1-14
10. FIELD AND POOL, OR WILDCAT	Wildcat
11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA	Section 14, T26S, R19E SLB
12. COUNTY OR PARISH	Grand
13. STATE	Utah

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Enserch Exploration, Inc. (303) 831-1616

3. ADDRESS OF OPERATOR
1700 Lincoln St., Ste 3600, Denver, Colorado 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface

960' FSL, 1980' FEL (SE SE)

14. PERMIT NO.
43-019-31156

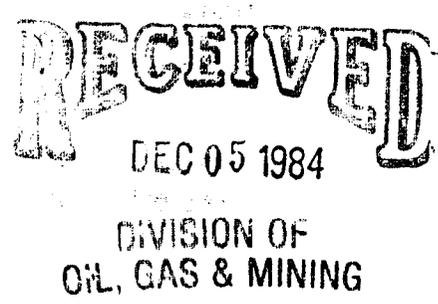
15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6032' GR

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

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This notice is submitted to request that any information on the above-referenced well be kept confidential until further notification from Enserch Exploration, Inc.



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

SIGNED Danny E. Hagins TITLE District Production Superintendent DATE 11/30/84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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

5. LEASE DESIGNATION AND SERIAL NO.
U-53387

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

7. UNIT AGREEMENT NAME
Mineral Canyon

8. FARM OR LEASE NAME
Mineral Canyon Unit

9. WELL NO.
1-14

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA
Sec. 14, T26S, R19E SLB&M

12. COUNTY OR PARISH
Grand

13. STATE
Utah

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Enserch Exploration, Inc. (303) 831-1616

3. ADDRESS OF OPERATOR
1700 Lincoln St., Suite 3600, Denver, Colorado 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
960' FSL, 1980' FEL (SE SE)

14. PERMIT NO.
43-019-31156

15. ELEVATIONS (Show whether OF, AT, GR, etc.)
6032' GR

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Progress Report</u>	<input checked="" type="checkbox"/>

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Unable to recover RTTS. Spotted 25 sack cement plug from 7162-6959'. Ran in hole with 4014' 7", 26# N-80 casing and landed in landing collar at 4014'. Ran CBL from 6959-3800', good bonding across zones of interest. Picked up McCullough tubing conveyed perforating gun and ran in hole. Perforated 7" casing from 6055-63'. Presently flow testing well to test tanks.

TIGHT HOLE - CONFIDENTIAL

RECEIVED
DEC 17 1984
DIVISION OF
OIL, GAS & MINING

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

SIGNED Danny E. Hagins TITLE Dist. Production Superint. DATE 12/12/84
 (This space for Federal or State office use)

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

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

5. LEASE DESIGNATION AND SERIAL NO.

U-53387

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

Mineral Canyon

8. FARM OR LEASE NAME

Mineral Canyon Unit

9. WELL NO.

#1-14

10. FIELD AND POOL, OR WILDCAT

Wildcat Big Flat

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

Section 14, T26S, R19E S.L.B.&M.

12. COUNTY OR PARISH Grand 13. STATE Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [] DRY [] OTHER []

1b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [] DEEP-EN [] PLUG BACK [] DIFF. RESVR. [] Other []

2. NAME OF OPERATOR

Research Exploration Inc. EP Operating Division

3. ADDRESS OF OPERATOR

1700 Lincoln St., Suite #3600, Denver, Colorado 80203

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

At surface 960' FSL, 1980' FEL (SW/4-SE/4)

At top prod. interval reported below same

At total depth same

14. PERMIT NO. 43-019-31156 DATE ISSUED 6/22/84

15. DATE SPUNDED 7/25/84 16. DATE T.D. REACHED 10/1/84 17. DATE COMPL. (Ready to prod.) 12/1/84 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 6032' GR 19. ELEV. CASINGHEAD 6032'

20. TOTAL DEPTH, MD & TVD 8160' 21. PLUG, BACK T.D., MD & TVD 6959' 22. IF MULTIPLE COMPL., HOW MANY* -- 23. INTERVALS DRILLED BY Sur. - 8160' 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 6055'-6063' Elastic #16 Hermosa 25. WAS DIRECTIONAL SURVEY MADE 4370'-7350'

26. TYPE ELECTRIC AND OTHER LOGS RUN LDT/CNL/GR, LSS/GR (8 3/4" hole) LSS/GR, Dipmeter (7 7/8" hole) Yes - no recover

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

Table with columns: CASING SIZE, WEIGHT, LB./FT., DEPTH SET (MD), HOLE SIZE, CEMENTING RECORD, AMOUNT PULLED

29. LINER RECORD

Table with columns: SIZE, TOP (MD), BOTTOM (MD), SACKS CEMENT*, SCREEN (MD)

30. TUBING RECORD

Table with columns: SIZE, DEPTH SET (MD), PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

6055'-57' 2 SPF - 3 3/8" TCP Gun
6057'-61' 4 SPF - 3 3/8" TCP Gun
6061'-63' 2 SPF - 3 3/8" TCP Gun

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

Table with columns: DEPTH INTERVAL (MD), AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

Table with columns: DATE FIRST PRODUCTION, PRODUCTION METHOD, WELL STATUS, DATE OF TEST, HOURS TESTED, CHOKER SIZE, PROD'N. FOR TEST PERIOD, OIL-BBL., GAS-MCF., WATER-BBL., GAS-OIL RATIO

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

Used on lease and vented

TEST WITNESSED BY

Dave Armstrong

35. LIST OF ATTACHMENTS

Formation Tops

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

SIGNED Danny E. Hagins

TITLE Dist. Production Superintendent DATE 12/14/84

*(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.	NAME	MEAS. DEPTH	TOP
						TRUE VERT. DEPTH
Paradox salt clastic No. 6	4810'	4854'	DST #1 - No cushion, 65 min. flow, 150 min shut-in. Maximum flowing pressure 83#, maximum SIP 741#.	Paradox	4406'	
Paradox salt Elastic No. 15	5896'	5908'	DST #2 - No cushion, 66 min. flow period, 152 min. shut-in, maximum flow pressure 45#, maximum SIP 136#.	Hermosa Cane Creek Leadville Madison Ouray Elbert	7330' 7482' 7675' 7933' 8042'	
Mississippian Madison	7764'	7727'	DST #3 - No cushion, 63 min. flow, 148 min. shut-in, maximum flow pressure 276#, maximum SIP 2460#.			
Mississippian Madison	7728'	7767'	DST #4 - No cushion, 68 min. flow, 142 min. shut-in, maximum flow pressure 90#, maximum SIP 2598#.			

ENSERCH EXPLORATION, INC.
MINERAL CANYON 1-14
SECTION 14 - T26S - R14E
GRAND COUNTY - UTAH

FORMATION TOPS

FORMATION	E-LOG TOP	SEA LEVEL DATUM
CLASTIC #3	4406	+1641
CLASTIC #4	4542	+1505
CLASTIC #5	4653	+1394
CLASTIC #6	4796	+1251
CLASTIC #7	5056	+ 991
CLASTIC #8	5162	+ 885
CLASTIC #9	5218	+ 829
CLASTIC #10	5360	+ 687
CLASTIC #11	5530	+ 517
CLASTIC #12-#13	5562	+ 485
CLASTIC #14	5751	+ 296
CLASTIC #15	5842	+ 205
CLASTIC #16 (BLACK OIL ZONE)	5894	+ 153
CLASTIC #17 (GREEN OIL ZONE)	6042	+ 5
CLASTIC #18	6102	- 55
CLASTIC #19	6350	- 303
CLASTIC #20	6813	- 766
CLASTIC #21	7002	- 955
CANE CREEK	7330	-1283
MISSISSIPPIAN LEADVILLE	7482	-1435
MISSISSIPPIAN MADISON	7675	-1628
DEVONIAN OURAY	7933	-1886
DEVONIAN ELBERT	8042	-1995

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

RECEIVED

IN TRIPLICATE*
(Instructions on reverse side)

MAR 04 1985

SUNDRY NOTICES AND REPORTS ON WELLS OF OIL, GAS & MINING

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-53387
2. NAME OF OPERATOR Enserch Exploration, Inc. (303) 831-1616		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
3. ADDRESS OF OPERATOR 1700 Lincoln St., Suite 3600, Denver, Colorado 80203		7. UNIT AGREEMENT NAME Mineral Canyon Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 960' FSL, 1980' FEL (SE/SE)		8. FARM OR LEASE NAME Mineral Canyon
14. PERMIT NO. 43-019-31156	15. ELEVATIONS (Show whether OF, RT, GR, etc.) 6032' GR	9. WELL NO. #1-14
		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SLB&M Section 14, T25S, R19E
		12. COUNTY OR PARISH Grand
		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"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other) Install Artificial Lift Equip.	<input checked="" type="checkbox"/>		

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

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Install pumping unit, rods and pump. Release packer, circulate hole with 2% KCL water, pull out of hole with tubing. Pick up anchor catcher and run in hole on tubing. Land tubing and install wellhead. Pick up top hold down pump and run in hole on rods. Set pumping unit, hang well on and begin pumping operations.

18. I hereby certify that the foregoing is true and correct
SIGNED Danny E. Hagins TITLE District Production Superint. DATE 2/28/85
(This space for Federal or State office use)

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

*See Instructions on Reverse Side

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

RECEIVED
IN TRIPPLICATE*
See instructions on
reverse side
MAY 13 1985

152

DIVISION OF OIL
GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.
U-53387
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR
Enserch Exploration, Inc.-EP Operating Company (303) 831-1616

Mineral Canyon Unit

3. ADDRESS OF OPERATOR
1700 Lincoln St., Suite 3600, Denver, Colorado 80203

8. FARM OR LEASE NAME

Mineral Canyon

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

9. WELL NO.

#1-14

960' FSL, 1980' FEL (SE/SE)

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 14, ~~258~~²⁶⁵, R19E SLB&M

14. PERMIT NO.
43-019-31156

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6032' GR

12. COUNTY OR PARISH
Grand

13. STATE
Utah

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

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

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

A new master limited partnership has been formed by Enserch Corporation to carry on all of the oil and gas operations previously conducted for Enserch Exploration, Inc. EP Operating Company, a Texas limited partnership, has been assigned record ownership of all properties previously operated by Enserch Exploration, Inc., and will be the new Operator of these properties effective May 1, 1985

18. I hereby certify that the foregoing is true and correct
SIGNED Danny E. Hagins TITLE District Prod. Supt. New Enserch Exp., Inc. Managing General Partner DATE 5/3/85

(This space for Federal or State office use)

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

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

<p>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>		<p>5. LEASE DESIGNATION AND SERIAL NO. U-53387</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME NA</p> <p>7. UNIT AGREEMENT NAME Mineral Canyon Unit</p> <p>8. FARM OR LEASE NAME Mineral Canyon</p> <p>9. WELL NO. 1-14</p> <p>10. FIELD AND POOL, OR WILDCAT Wildcat</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SLB&M Section 14, T26S, R19E</p> <p>12. COUNTY OR PARISH 13. STATE Grand Utah</p>
<p>1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER</p>		
<p>2. NAME OF OPERATOR EP Operating Company</p>		
<p>3. ADDRESS OF OPERATOR 1700 Lincoln Street, Suite 3600, Denver, Colorado 80203</p>		
<p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 960' FSL, 1980' FEL (SW/4, SE/4)</p>		
<p>14. PERMIT NO. 43-019-31156</p>	<p>15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6032' 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 <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	
(Other) <u>Recomplete in lower zone</u> <input checked="" type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Squeeze cemented existing perforations at 6055-63' with 75 sacks class "H" cement containing 18% salt. Drill out squeeze and test to 2500 psi. Resqueeze if necessary. Pick up 4" tubing convey perforating gun and run in hole below dual packer. Run in hole with fresh water injection string and sting into packer. Drop bar and perforate 7" casing from 6147'-6152'. Record surface pressures and place well on production. It is estimated that this work will commence on February 12, 1986.

ACCEPTED BY THE STATE
 OF UTAH DIVISION OF
 OIL, GAS, AND MINING
 DATE: 2/13/86
 BY: [Signature]

Form 3160-5 submitted to BLM 1/6/86

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

SIGNED Danny E. Hagins TITLE Production Superintendent DATE 1/6/86
Danny E. Hagins

(This space for Federal or State office use)

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

Federal approval of this action is required before commencing operations.

*See Instructions on Reverse Side

X

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

RECEIVED
MAR 14 1986
SERIAL NO. 1-533

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME Division of Mining & Geology	
2. NAME OF OPERATOR EP Operating Company		8. FARM OR LEASE NAME Mineral Canyon Unit	
3. ADDRESS OF OPERATOR 1700 Lincoln Street, Suite 3600, Denver, Colorado 80203		9. WELL NO. 1-14	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 960' FSL, 1980' FEL (SW/SE)		10. FIELD AND POOL, OR WILDCAT Wildcat	
14. PERMIT NO. 43-019-31156		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SLB&M Section 14, T26S, R19E	
15. ELEVATIONS (Show whether OF, RT, GR, etc.) 6032' GR		12. COUNTY OR PARISH Grand	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) <u>Progress Report</u>	<input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Progress Report for the Month of February, 1986

Rigged up pulling unit and pulled rods and tubing. Ran 5.75" wireline gauge ring to 6000'. Ran Halliburton 7" cement retainer and set at 5855'. Attempted to squeeze perforations at 6055-6063' with a total of 275 sacks class "H" cement. Lost bit cones in hole while drilling retainer. Fished cones and retainer out of hole. Drilled out cement and lost circulation. Ran 7" cement retainer on tubing and set at 5894'. Pumped 200 sacks of cement. Left 169' of cement below retainer and 1' on top of retainer. Drilled cement on top of retainer and 6" of retainer. Will continue squeezing operations.

Form 3160-5 submitted to the BLM 3/12/86

NOTED DEH
dct

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

SIGNED J.R. Briscoe TITLE Petroleum Engineer DATE 3/12/86

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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

5. LEASE DESIGNATION AND SERIAL NO.

U-53387

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

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.)

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

Mineral Canyon Fed.

9. WELL NO.

#1-14

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

SLB&M

Sec. 14, T26S, R19E

12. COUNTY OR PARISH

Grand

13. STATE

Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
E P Operating Company

3. ADDRESS OF OPERATOR (303) 831-1616
1700 Lincoln St., Ste. #3600, Denver, Colorado 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface

960' FSL, 1980' FEL (SW/SE)

14. PERMIT NO.
43-019-31156

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6032' GR

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

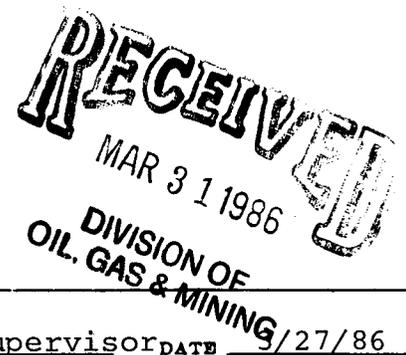
WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <u>Minor Oil Spill</u> <input checked="" type="checkbox"/>	

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On Tuesday, March 25, 1986, E P Operating Company had a minor oil spill on our Mineral Canyon Federal #1-14 location. The oil spill was caused by a rupture of a fresh water injection line used to dissolve free salt that is carried by the produced oil. The amount of oil spilled has been estimated to be 15 barrels or less and was totally contained in a small area of the location. Clean up of spill was undertaken immediately and was completed on 3/27/86.

If any additional information is needed, please advise.



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

SIGNED Gerald W. Gasch

TITLE Sr. Production Supervisor DATE 3/27/86

(This space for Federal or State office use)

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

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

5. LEASE DESIGNATION AND SERIAL NO.

U-53387

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT AGREEMENT NAME

Mineral Canyon

8. FARM OR LEASE NAME

Mineral Canyon Federal

9. WELL NO.

#1-14

10. FIELD AND POOL, OR WILDCAT

Wildcat **BIG FLAT**

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

Section 14, T26S, R19E
SLB&M

12. COUNTY OR PARISH

Grand

13. STATE

Utah

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

EP Operating Company

3. ADDRESS OF OPERATOR

1700 Lincoln Street, Suite 3600, Denver, Colorado 80203

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

At surface 960' FSL, 1980' FEL (SW SE)

At top prod. interval reported below

At total depth Same

14. PERMIT NO. 43-019-31156
DATE ISSUED 6/22/84
DIVISION OF OIL, GAS & MINING

15. DATE SPUNDED 7/25/84 16. DATE T.D. REACHED 10/1/84 17. DATE COMPL. (Ready to prod.) 3/13/86 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6032' GR 19. ELEV. CASINGHEAD 6032'

20. TOTAL DEPTH, MD & TVD 8160' 21. PLUG, BACK T.D., MD & TVD 6959' 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 0-8160 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 6147-6152' Unnamed Elastic Hermosa 25. WAS DIRECTIONAL SURVEY MADE Yes 4370-7350

26. TYPE ELECTRIC AND OTHER LOGS RUN 8 3/4" hole: LDT/CNL/GR, LSS/GR 7 7/8" hole: DLL/GR/MSFL, LDT/CNL/GR, LSS/GR, Dipmeter 27. WAS WELL CORRD Yes - 0' recovered

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

CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	48#	996'	17 1/2"	657 sx 35-65 POZ & 200 sx G	
9 5/8"	40#	4291'	12 1/4"	150 sx lite, 100 sx G	

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
7"	4015'	7470'	660 sx G		2 3/8"	6091'	Dual @ 6091'
4 1/2"	7162'	8076'	95 sx H		2 1/16"	6091'	

31. PERFORATION RECORD (Interval, size and number)
6055-57' 2 SPF, 3 3/8" TCP gun - squeezed
6057-61' 4 SPF, 3 3/8" TCP gun - squeezed
6061-63' 2 SPF, 3 3/8" TCP gun - squeezed
6147-52' 4 SPF, 4" TCP gun

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
3/13/86	Flowing	Producing					
DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
4/14/86	24	12/64"	→	116	78	3	679 cu ft/bbl
FLOW. TUBING PRESS.	CASINO PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
300	0	→	116	78	3	38.8	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Used for fuel on lease and vented. TEST WITNESSED BY Gerald Gasch

35. LIST OF ATTACHMENTS Formation Tops

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

SIGNED J.R. Briscoe TITLE Petroleum Engineer DATE 4/24/86

ENSERCH EXPLORATION, INC.
 MINERAL CANYON 1-14
 SECTION 14 - T26S - R14E
 GRAND COUNTY - UTAH

FORMATION TOPS

FORMATION	E-LOG TOP	SEA LEVEL DATUM
CLASTIC #3	4406	+1641
CLASTIC #4	4542	+1505
CLASTIC #5	4653	+1394
CLASTIC #6	4796	+1251
CLASTIC #7	5056	+ 991
CLASTIC #8	5162	+ 885
CLASTIC #9	5218	+ 829
CLASTIC #10	5360	+ 687
CLASTIC #11	5530	+ 517
CLASTIC #12-#13	5562	+ 485
CLASTIC #14	5751	+ 296
CLASTIC #15	5842	+ 205
CLASTIC #16 (BLACK OIL ZONE)	5894	+ 153
CLASTIC #17 (GREEN OIL ZONE)	6042	+ 5
CLASTIC #18	6102	- 55
CLASTIC #19	6350	- 303
CLASTIC #20	6813	- 766
CLASTIC #21	7002	- 955
CANE CREEK	7330	-1283
MISSISSIPPIAN LEADVILLE	7482	-1435
MISSISSIPPIAN MADISON	7675	-1628
DEVONIAN OURAY	7933	-1886
DEVONIAN ELBERT	8042	-1995

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

5. LEASE DESIGNATION AND SERIAL NO. U-53387	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
7. UNIT AGREEMENT NAME Mineral Canyon Unit	
8. FARM OR LEASE NAME Mineral Canyon Federal	
9. WELL NO. 1-14	
10. FIELD AND POOL, OR WILDCAT Wildcat	
11. SEC., T., R., M., OR BLK. AND SURVEY OR ASSA Section 14, T26S, R19E S1&M	
12. COUNTY OR PARISH Grand	13. STATE Utah

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	
2. NAME OF OPERATOR E P Operating Company (303) 831-1616	
3. ADDRESS OF OPERATOR 1700 Lincoln St., Suite 3600, Denver, Colorado 80203	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 960' FSL, 1980' FEL (SW SE)	
14. PERMIT NO. 43-019-31156	15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6032'

APR 28 1986
DIVISION OF OIL, GAS & MINING

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Progress Report</u> <input checked="" type="checkbox"/>	

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Progress Report for March, 1986

Drilled out squeeze. Attempted to test squeeze and began pumping into formation. Ran Guiberson 7" packer on tubing and set packer at 5895'. Attempted to squeeze perforations at 6055' - 6063' with 60 sacks RFC cement. Pulled out of hole with packer. Ran in hole and drilled out squeeze. Attempted to test squeeze and began pumping into formation. Ran Guiberson 7" packer on tubing and set packer at 5918'. Squeezed perforations at 6055' - 6063' with 60 sacks RFC cement. Drilled out squeeze and tested to 700 psi. Ran in hole with 7" Guiberson dual packer and tubing conveyed perforating gun on 2 3/8" tubing. Ran in hole with 2 1/16" tubing and stung into dual packer at 6091'. Dropped bar and perforated from 6147'-6152'. Tubing pressure climbed to 1700psi in 10 mins. Placed well on production March 14, 1986. Producing oil up 2 3/8" tubing and injecting water down 2 1/16" tubing to prevent salt plugged.

NOTED DEH
4/24/86

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

SIGNED J. R. Briscoe TITLE Petroleum Engineer DATE April 23, 1986

(This space for Federal or State office use)

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

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

5. LEASE DESIGNATION AND SERIAL NO. U-53387
6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
7. UNIT AGREEMENT NAME Mineral Canyon Unit
8. FARM OR LEASE NAME Mineral Canyon Federal
9. WELL NO. #1-14
10. FIELD AND POOL, OR WILDCAT Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR ASSA Sec. 14, T26S, R21E SLB&M ^{19E}
12. COUNTY OR PARISH 13. STATE Grand Utah

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
E P Operating Company (303) 831-1616

3. ADDRESS OF OPERATOR
1700 Lincoln St., Ste. #3600, Denver, Colorado 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface

960' FSL & 1980' FEL (SW/SE)

14. PERMIT NO.
43-019-31156

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6032' G.R.

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

NOTICE OF INTENTION TO:

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

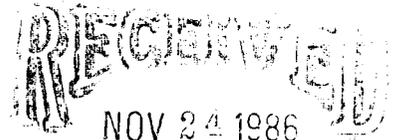
SUBSEQUENT REPORT OF:

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

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The Mineral Canyon Federal #1-14 was shut in on 11/18/86 pending further engineering evaluation. Lease #U-53387 will remain under primary term until 10/1/88.



DIVISION OF
OIL, GAS & MINING

Form 3160-5 mailed to BLM on 11/18/86.

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

SIGNED D. G. Benton TITLE Associate Pet. Engineer DATE 11/18/86

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CERTIFICATE OF APPROVAL IF ANY:

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

SUBMIT IN TRIPlicate
with instructions on
reverse side

020100

<p align="center">SUNDRY NOTICES AND REPORTS ON WELLS</p> <p align="center"><small>(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.)</small></p>		<p>5. LEASE DESIGNATION AND SERIAL NO. U-53387</p>
<p>1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER</p>		<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A</p>
<p>2. NAME OF OPERATOR E P Operating Company (303) 831-1616</p>		<p>7. UNIT AGREEMENT NAME Mineral Canyon Unit</p>
<p>3. ADDRESS OF OPERATOR 1700 Lincoln St., Ste. #3600, Denver, CO 80203</p>		<p>8. FARM OR LEASE NAME Mineral Canyon Federal</p>
<p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 960' FSL & 1980' FEL (SW/SE)</p>		<p>9. WELL NO. #1-14</p>
<p>14. PERMIT NO. 43-019-31156</p>		<p>10. FIELD AND POOL, OR WILDCAT Wildcat</p>
<p>15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6032' G.R.</p>		<p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 14, T26S, R21E SLB&M</p>
<p>12. COUNTY OR PARISH Grand</p>		<p>13. STATE Utah</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 <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) <input type="checkbox"/>	
(Other) Recomplete in Clastic #16 <input checked="" type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log (orm.)	

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.)

Set CIBP at 6050' above existing perforations at 6147'-6153'. Dump 50' cement on top of plug. Run in hole with packer and tubing setting packer at approximately 5880'. Rig up wellhead and perforate, through tubing, from 5900'-5918' with 4 SPF. Test Clastic #16 and place well on production.

JAN 30 1987
DIVISION OF
OIL, GAS, AND MINING

Form 3160-5 submitted to BLM 1/28/87.

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

SIGNED Greg Benton TITLE Assoc. Petroleum Engineer DATE 1/27/87

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

FEDERAL APPROVAL OF THIS ACTION IS REQUIRED BEFORE COMMENCING OPERATIONS.

ACCEPTED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 1-30-87
BY: John R. Day

*See Instructions on Reverse Side

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

5. LEASE DESIGNATION AND SERIAL NO. U-53387 SOW	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A 062925	
7. UNIT AGREEMENT NAME N/A	
8. FARM OR LEASE NAME Mineral Canyon Federal	
9. WELL NO. #1-14	
10. FIELD AND POOL, OR WILDCAT Wildcat	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 24, T26S, R19E	
12. COUNTY OR PARISH	13. STATE
Grand	Utah

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
E P Operating Company (303) 831-1616

3. ADDRESS OF OPERATOR
1700 Lincoln St., Ste. #3600, Denver, CO 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface

960' FSL, 1980' FEL (SW/SE)

14. PERMIT NO. 43-019-31156

15. ELEVATIONS (Show whether OF, RT, OR, etc.)
6032' GR

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Minor Oil Spill</u> <input checked="" type="checkbox"/>	

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On June 10, 1987, E P Operating Company discovered that a small leak had occurred around the ratigan on the Mineral Canyon #1-14. The leak resulted in approximately 2 barrels or less of oil accumulating around the wellhead. Clean up was undertaken immediately consisting of: (1) removal and burial of oil saturated dirt, (2) replacement with clean dirt, (3) cleanup of wellhead and (4) repair of ratigan. The well remains shut-in. If any additional information is needed, please advise.

RECEIVED

JUN 26 1987

DIVISION OF
OIL, GAS & MINING

Form 3160-5 submitted to BLM on 6/23/87.

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

SIGNED Greg Benton TITLE Petroleum Engineer DATE 6/23/87

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CANDIDATE FOR APPROVAL IF ANY: _____

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

50W

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-53387
2. NAME OF OPERATOR E P Operating Company (303) 831-1616		6. IF INDIAN, ALLOTTEE OR TRIBE NAME 070710
3. ADDRESS OF OPERATOR 1700 Lincoln St., Ste. #3600, Denver, CO 80203		7. UNIT AGREEMENT NAME N/A
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 960' FSL, 1980' FEL (SW/SE)		8. FARM OR LEASE NAME Mineral Canyon Federal
14. PERMIT NO. 43-019-31156	15. ELEVATIONS (Show whether OF, RT, GR, etc.) 6032' GR	9. WELL NO. #1-14
		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 14, T26S, R19E
		12. COUNTY OR PARISH 13. STATE Grand 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) <u>Minor Oil Spill</u> <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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On June 10, 1987, E P Operating Company discovered that a small leak had occurred around the ratigan on the Mineral Canyon #1-14. The leak resulted in approximately 2 barrels or less of oil accumulating around the wellhead. Clean up was undertaken immediately consisting of: (1) removal and burial of oil saturated dirt, (2) replacement with clean dirt, (3) cleanup of wellhead and (4) repair of ratigan. The well remains shut-in. If any additional information is needed, please advise.

RECEIVED
JUN 26 1987

DIVISION OF
OIL, GAS & MINING

Form 3160-5 submitted to BLM on 6/23/87.

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

SIGNED Greg Benton TITLE Petroleum Engineer DATE 6/23/87

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CARDINALS OF APPROVAL IF ANY:

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

SOW

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-53387
2. NAME OF OPERATOR E P Operating Company (303) 831-1616		6. IF INDIAN, STATE OR TRIBAL NAME 100104 N/A
3. ADDRESS OF OPERATOR 1700 Lincoln St., Ste. #3600, Denver, CO 80203		7. UNIT AGREEMENT NAME Mineral Canyon Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 960' FSL, 1980' FEL (SW/SE)		8. FARM OR LEASE NAME Mineral Canyon Federal
14. PERMIT NO. 43-019-31156	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6032' GR	9. WELL NO. #1-14
		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SUBST OR AREA 19 Sec. 14, T26S, R2E SLB&M
		12. COUNTY OR PARISH Grand
		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 checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	
(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.)

On September 10, 1987 E P Operating began operations to recomplete the Mineral Canyon Federal #1-14 in the Clastic #16 interval.

1. Set CIBP @ 6050' above existing perforations at 6147'-6153'.
2. Dumped 10' cement on top of plug.
3. Ran in hole with tubing and packer, setting @ 5834'.
4. Perforated Clastic #16 from 5900' to 5918' with 62 shots.
5. Tested Clastic #16.

On September 15, 1987 the well was shut-in pending abandonment.

RECEIVED

SEP 24 1987

DIVISION OF OIL
& MINING

Form 3160-5 Submitted to the State of Utah on 9/21/87.

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

SIGNED Greg Barton TITLE Petroleum Engineer DATE 9/21/87

(This space for Federal or State office use)

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

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

<p>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>		<p>5. LEASE DESIGNATION AND SERIAL NO. U-53387</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A 100105</p> <p>7. UNIT AGREEMENT NAME N/A</p> <p>8. FARM OR LEASE NAME Mineral Canyon Federal</p> <p>9. WELL NO. #1-14</p> <p>10. FIELD AND POOL, OR WILDCAT Wildcat</p> <p>11. SEC., T., R., M., OR BLK. AND SUBST OR AREA Sec. 24 14, T26S, R19E</p> <p>12. COUNTY OR PARISH 13. STATE Grand Utah</p>
<p>1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></p> <p>2. NAME OF OPERATOR E P Operating Company (303) 831-1616</p> <p>3. ADDRESS OF OPERATOR 1700 Lincoln St., Ste. #3600, Denver, CO 80203</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 960' FSL, 1980' FEL (SW/SE)</p>	<p>14. PERMIT NO. 43-019-31156</p> <p>15. ELEVATIONS (Show whether DF, AT, OR, etc.) 6032' 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 <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(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.)*

E P Operating Company requests permission to abandon the Mineral Canyon #1-14, placing cement as follows:

1. 150' on top of CIBP @ 6050'.
2. 100' across Potash interval from 4900' - 5000'.
3. 100' at top of salt 4294' (50' in and out).
4. 100' at top of 7" liner 4004' (50' in and out).
5. 100' at top bottom of 13 3/8" surface casing 995' (50' in and out).
6. 100' at surface.

Enclosed please find a wellbore diagram.

Form 3160-5 submitted to the BLM on 9/24/87.

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

SIGNED Greg Benton TITLE Petroleum Engineer DATE 9/24/87

(This space for Federal or State office use)

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

DATE: 9-30-87
BY: John R. Bay

APPROVED BY _____ TITLE _____

Federal approval of this action is required before commencing operations.

*See Instructions on Reverse Side

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

15

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen a well. Use "APPLICATION FOR PERMIT—"

RECEIVED
JUL 22 1988

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-53387	
2. NAME OF OPERATOR E P Operating Company (303) 831-1616		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
3. ADDRESS OF OPERATOR 1700 Lincoln St., Ste. #3600, Denver, CO 80203		7. UNIT AGREEMENT NAME N/A	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 960' FSL, 1980' FEL (SW/SE)		8. FARM OR LEASE NAME Mineral Canyon Federal	
14. API NUMBER 43-019-31156		9. WELL NO. #1-14	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6032' GR		10. FIELD AND POOL, OR WILDCAT Wildcat	
		11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA Section 14, T26S, R19E	
		12. COUNTY OR PARISH Grand	13. STATE Utah

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

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

E P Operating Company plugged the Mineral Canyon Federal #1-14 on July 11, 1988, placing cement as follows:

1. 150' on top of CIBP @ 5880'.
2. 100' across Potash interval from 4900'-5000'.
3. 100' at top of salt 4294' (50' in and out).
4. 100' at top of 7" liner 4004' (50' in and out).
5. 100' at top bottom of 13 3/8" surface casing 995' (50' in and out).
6. 100' at surface (124'-24').

Reclamation pending removal of surface equipment.

Form 3160-5 Submitted to the BLM on 7/19/88.

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

SIGNED Greg Benton TITLE Petroleum Engineer DATE 7/19/88

(This space for Federal or State office use)

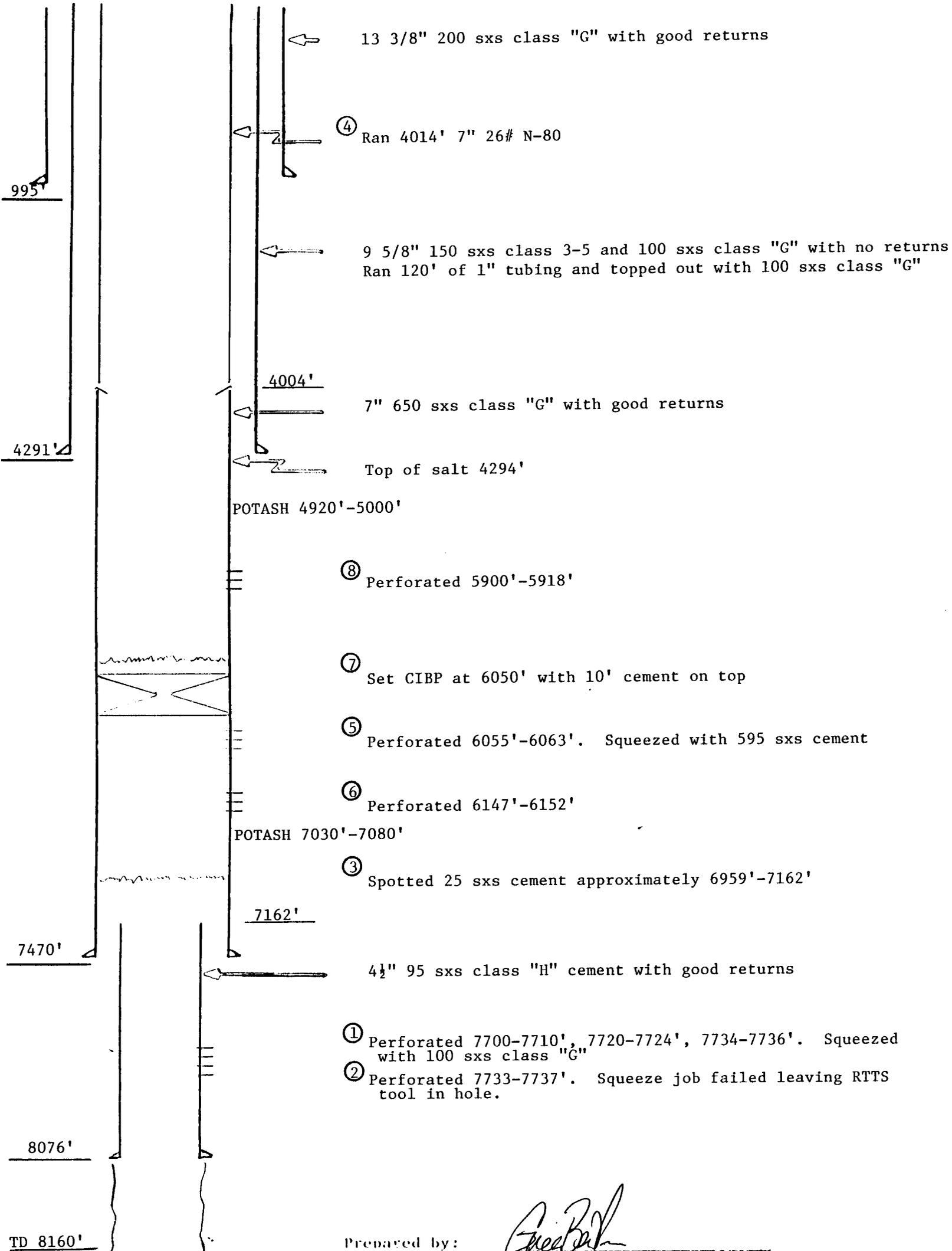
APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

OPERATOR: E P Operating Company
 WELL NAME & NO: Mineral Canyon #1-14
 FIELD Big Flat
 COUNTY Grand STATE Utah
 DATE 9/24/87

	GA. LOG	CASING	LINER	LINER
Size	13 3/8"	9 5/8"	7"	4 1/2"
Weight	48	40	29	11.35
Grade	H-40	K-55	S-95	N-80
Thread	ST&C	ST&C	LT&C	
Depth	995'	4291'	7470'	8076'



Prepared by:


 Greg Benton