

VORTT EXPLORATION COMPANY, INC.

OIL AND GAS

(817) 244-4201
P. O. Box 26089

2728 LAREDO DRIVE
FORT WORTH, TEXAS 76116

June 8, 1981

Utah State Division of
Oil, Gas & Mining
1588 West North Temple
Salt Lake City, Utah 84116

Attention: Mr. Mike Minder

RE: Sec. 2, T17S, R6E,
Emery County, Utah

Dear Mr. Minder:

Enclosed herewith please find our application for permit to drill on the captioned land. This tract is included in a proposed federal unit, Indian Creek Unit, which should receive approval from the USGS in the next ten days.

We have a drilling rig tentatively scheduled for July 1, 1981, and would very much like to commence operations on that date. A few days of dirt work would be required in advance.

We acquired these leases via a farmin agreement from El Paso Exploration Company in January and have been delayed by spring weather. Anything you can do to help speed approval will be greatly appreciated.

Should you have any questions, please contact me at the above address. Thank you for your assistance in this matter.

Very truly yours,

VORTT EXPLORATION COMPANY, INC.


H. E. Patterson
Land Manager

HEP/ck


JUN 10 1981
DIVISION OF
OIL, GAS & MINING

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

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

2. NAME OF OPERATOR
VORTI EXPLORATION COMPANY, INC.

3. ADDRESS OF OPERATOR
P. O. BOX 26089, Fort Worth, Texas 76116

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
1538.07' FNL & 1240.36' FWL

At proposed prod. zone
1538.07' FNL & 1240.36' FWL

SWNW

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
13 miles West of Huntington, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
1240.36'

16. NO. OF ACRES IN LEASE
1,270.97

17. NO. OF ACRES ASSIGNED TO THIS WELL
320

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

19. PROPOSED DEPTH
6950' Dakota

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
8560' GL

22. APPROX. DATE WORK WILL START*
July 1, 1981

5. LEASE DESIGNATION AND SERIAL NO.
ML-27626

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
INDIAN CREEK

8. FARM OR LEASE NAME
02176

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 2, T17S, R6E, SLB&M

12. COUNTY OR PARISH
Emery

13. STATE
Utah

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 3/4"	10 3/4"	40.5#	200'	100 sacks
9 5/8"	7 5/8"	26.40#	2400', if needed	125 sacks
6 1/4"	4 1/2"	10.50#	6900'	175 sacks

Selectively perforate and fracture the Ferron and Dakota Formation with 20,000 gal. of jelled weak acid and 200 sacks of 20-40 sand. This gas is not dedicated. The N/2 of Sec. 2 is dedicated to this well. A 3000 psi Working pressure and 5000 psi test blowout preventer will be used. Diagram attached hereto.

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

DATE: 6/18/81
 BY: [Signature]

JUN 10 1981

DIVISION OF
OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED [Signature] TITLE Geologist DATE June 4, 1981
W. L. Andrews, Jr.

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

PROPERTY DESCRIPTION:

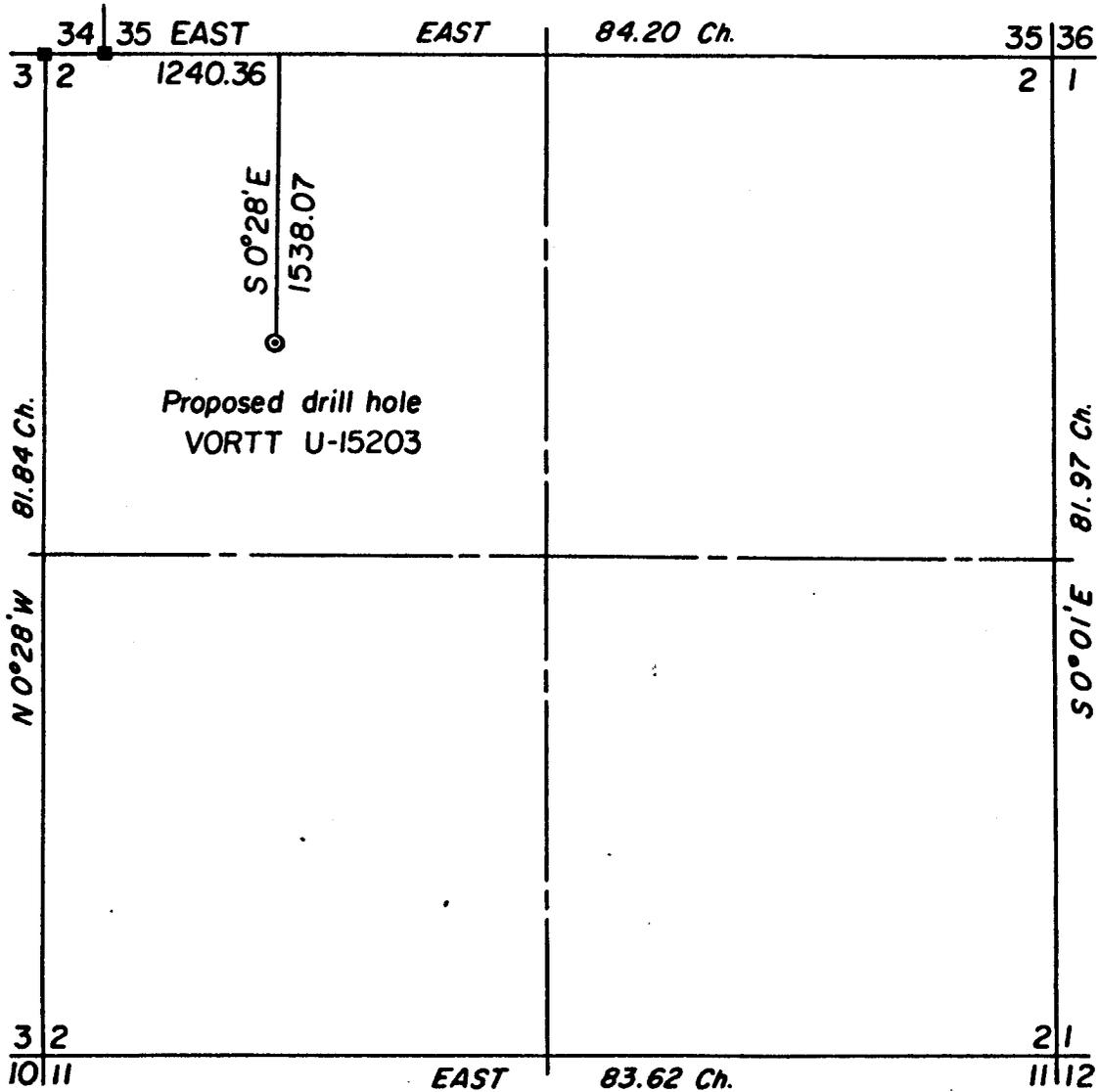
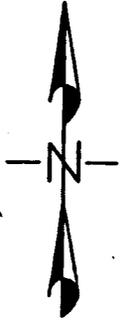
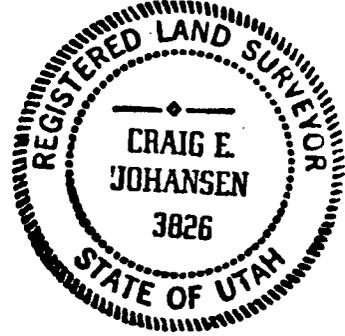
VORTT U-15203

Located at a point 1240.36 feet East and
 S 0°28'E, 1538.07 feet from the NW corner
 of Section 2, T.17S., R.6 E., SLB 8M.

■ - Denotes found corner.

CERTIFICATE

Craig E. Johansen
 CRAIG E. JOHANSEN
 A LICENSED SURVEYOR,
 HOLDING CERTIFICATE NO. 3826, DOHEREBY CERTIFY THAT
 THE PLAT SHOWN HEREON HAS BEEN PREPARED FROM A
 FIELD SURVEY MADE UNDER MY DIRECTION AND CORRECTLY
 SHOWS THE DIMENSIONS AND MONUMENTS OF THE PROP-
 erty DESCRIBED TO THE BEST OF MY KNOWLEDGE AND
 BELIEF. FURTHERMORE, ENCROACHMENTS OF FENCES AND
 IMPROVEMENTS ARE SHOWN WITH THE FOLLOWING EX-
 CEPTIONS: *none*



SECTION	TOWNSHIP	RANGE
2	17 S	6 E
DATE	SCALE	BLOCK
6-81	1"=1000'	
PLAT	SURVEY	

CRAIG E. JOHANSEN
 REGISTERED LAND SURVEYOR
 JOHANSEN & TUTTLE ENGR. INC.
 CASTLE DALE, UTAH

SURVEY FOR
**VORTT EXPLORATION
 COMPANY INC.**
 2728 LAREDO DRIVE
 FORT WORTH, TEXAS - 76116

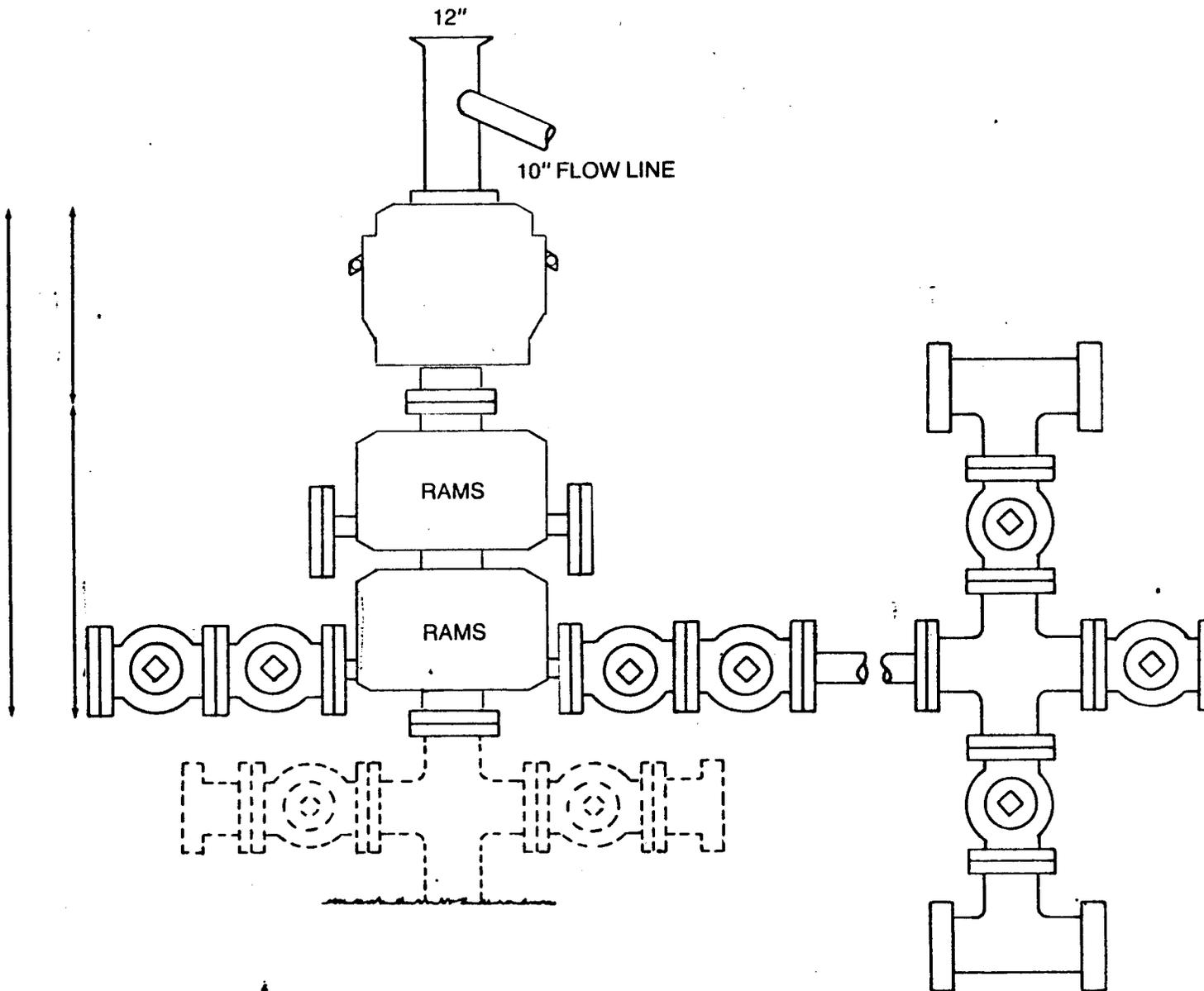


Crusher Resources Corporation

CRC COLORADO WELL, INC.

2603 East Main • Rangely, Colorado 81648

BOP AND CHOKE MANIFOLD



SERIES 10" X 3000 with positive and adjustable choke

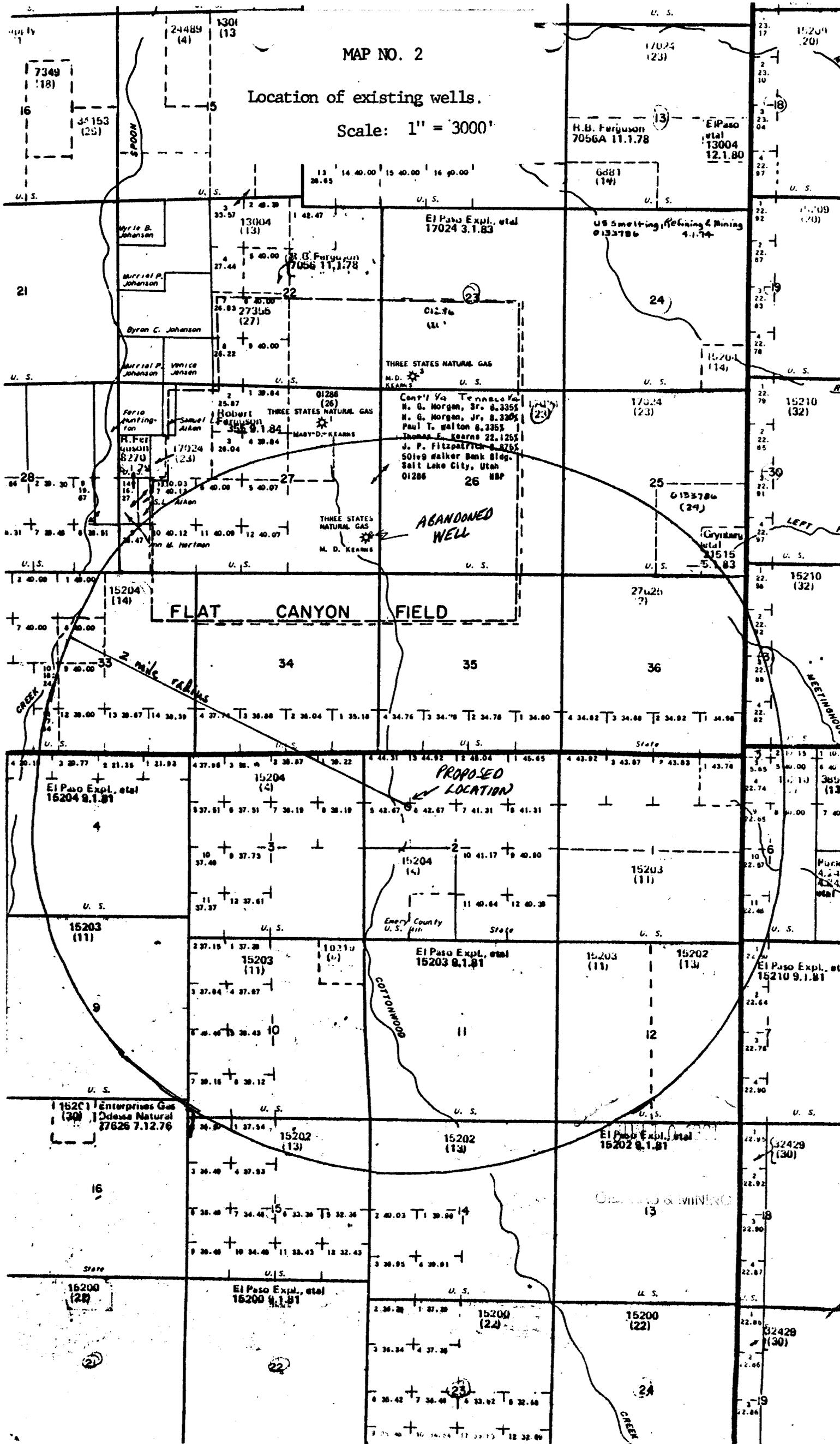
JUL 10 1981

DIVISION OF
OIL, GAS & MINING

MAP NO. 2

Location of existing wells.

Scale: 1" = 3000'



VORTT EXPLORATION COMPANY, INC.

OIL AND GAS

(817) 244-4201
P. O. Box 26089

2728 LAREDO DRIVE
FORT WORTH, TEXAS 76116

MULTI-POINT SURFACE USE PLAN INDIAN CREEK UNIT-WELL NO. 02176

1. **EXISTING ROADS** Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duration of this project. Existing road No. 040 will be widened in places where the original road has been covered up and gravel will be put down where needed.
2. **PLANNED ACCESS ROADS** Please refer to Map No. 1. The grade of the access roads will be consistent with that of the local terrain. The road surface will not exceed twenty feet (20') in width. Upon completion of the project, the access road will be adequately drained to control soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary by trained Company personnel to insure proper drainage. Gates and/or cattleguards will be installed if necessary. Access roads and well location will be graveled according to Forest Service regulation.
3. **LOCATION OF EXISTING WELLS** Please refer to Map No. 2.
4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES** There are no known production facilities within a one mile radius of proposed location. Map No. 1 shows proposed layout of gas gathering system. Any tank batteries would be located at the well site.
5. **LOCATION AND TYPE OF WATER SUPPLY** Due to the fact we will be drilling with air, water usage will be limited. Any water used would be brought by truck or pumped through a plastic hose from Mill Creek or Cottonwood Creek.
6. **SOURCE OF CONSTRUCTION MATERIALS** Pit run gravel will be used to build the location and the entrance to the location. No additional materials will be needed for the existing roads. A culvert will be placed at point of crossing of Cottonwood Creek.
7. **METHODS OF HANDLING WASTE MATERIALS** All garbage and trash materials will be put into a burn pit shown on the attached location Plat No. 1. When clean-up operations are begun on the proposed project, the burn pit with its refuse will be buried to a depth of at least three (3) feet. A port-a-potty will be provided for human waste. If large amounts of liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pit will be located on natural drainage; all earthen pits will be so constructed as to prevent leakage from occurring.

8. **ANCILLARY FACILITIES** No camps or airstrips will be associated with this project except for a small house trailer to be used by drilling and geological consultants.
9. **WELLSITE LAYOUT** Please refer to Plat No. 1.
10. **PLAN FOR RESTORATION OF THE SURFACE** After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed mixture as designated by the responsible government agency will be used. The reseeding operation will be performed during the time period set forth by the regulatory body. The location production equipment will be painted as designated by the responsible government agency.
11. **OTHER INFORMATION** The terrain is a canyon with some open sagebrush flats containing many rocks and some gullies. There is a scattering of timber, mostly aspen. Deer and elk have been known to use this area during certain months of the year. Other animals such as rabbits, ground squirrels, mice, cougars and eagles are also present in the general area. The area is used during the summer months by campers and sightseers. For archeological information, please see attached Report No. 1. The soil at the well site is derived from limestone and sandstone.
12. **OPERATOR'S REPRESENTATIVE**
- Bill Stockman
P.O. Box 0
Fruita, Colorado 81521
(303) 858-9481
13. **CERTIFICATION** I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in their plan are, to be best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Vortt Exploration Company, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.



H. E. Patterson
Land Manager

VORTT EXPLORATION COMPANY, INC.

OIL AND GAS

(617) 244-4901
P. O. Box 26089

2728 LAREDO DRIVE
FORT WORTH, TEXAS 76116

TEN POINT OPERATIONS PLAN

INDIAN CREEK UNIT - WELL NO. 02176

1. The geologic name of the surface formation is the North Horn of the Lower Tertiary.
2. Estimated tops of important geologic markers.

Ferron: 5760'
Dakota: 6800'
3. Due to lack of information in the area, we are unable to estimate what depth water would be encountered. Gas and/or oil is expected to be encountered based on porosity development in the Ferron from 5780' to 6180' and in the Dakota from 6800' to 6900'.
4. Proposed casing program:

10 3/4" to 200' of 40.5# New
7 5/8" to 2400', if needed, of 26.40# New
4 1/2" to Total Depth of 10.50# New
5. A 3000 psi working pressure and 5000 psi test rating. Equipment includes a 5 valve choke manifold with a positive and adjustable choke; kill line will be provided at all times.
6. The proposed well is to be drilled with air. If water is encountered, we will go to mist drilling or aerated drilling by injecting drilling soap into the system. This process can handle in excess of 100 barrels of formation water per hour. If conditions encountered in the hole force us to go to mud, we would use freshwater mud with Gel for viscosity and Bar for weight. The viscosity and weight of such mud would be governed by hole conditions.
7. Auxiliary equipment will include: (1) 6 5/8" left hand kelly cock, (2) floats at the bit, (3) floor safety valve at all times for drill pipe.
8. As many as three drill stem tests could be run in the hole during the course of drilling, depending on the quality of the formation to be tested. There will not be any coring in this hole. If no intermediate casing is run, the well will be logged from Total Depth back to surface casing when drilling is completed. If an intermediate string of casing is run, a cased hole log will be run thru pipe from the bottom of the intermediate

string to the surface. Logs to be run will include dual induction, density and cement bond logs.

9. It is not anticipated that any pressures, temperatures or hazardous gases will be encountered at this location. If any were encountered, they could be controlled by the BOP.
10. Anticipated starting date is July 11, 1981. Duration of operations should be no more than 24 days maximum.

United States Department of the Interior
Geological Survey
Oil and Gas Operations
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator/Project Name VORT EXPLORATION Co, INC. - INDIAN CREEK #1
Project Type GAS WELL
Project Location 3387' FSL, 1767' FEL, SEC 14, T 17S, R 6E
Date Project Submitted 6-15-81

FIELD INSPECTION

Date 7-6-81

Field Inspection
Participants

<u>GEORGE DIWACHAK</u>	<u>USGS</u>
<u>STEVE ROBINSON, CARTER REED</u>	<u>USFS</u>
<u>BRENT BARNEY</u>	<u>USFS</u>
<u>ED PATTERSON, W.L. ANDREWS</u>	<u>VORTT</u>
<u>John Nielson, WAYNE NIELSON</u>	<u>NIELSON CONST.</u>
<u>EVAN HANSEN</u>	<u>AMERICAN COAL ENG.</u>

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

7-31-81
Date Prepared

George J. Diwachak
Environmental Scientist

I concur

AUG 03 1981
Date

WJ Maitre FOR E. W. GYNN
District Supervisor DISTRICT ENGINEER

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria 516 DM 2.3.A	Federal/State Agency			Local and private corre- spondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
	Corre- spondence (date)	Phone check (date)	Meeting (date)						
1. Public health and safety	1 (7-27-81)				1	2	6	6 (7-6-81)	4, 8
2. Unique charac- teristics	1				1	2	6	6	4, 8
3. Environmentally controversial	1				1		6	6	4, 8
4. Uncertain and unknown risks	1				1		6	6	4, 8
5. Establishes precedents	1				1		6	6	4, 8
6. Cumulatively significant							6	6	4
7. National Register historic places	1				1				
8. Endangered/ threatened species	1				1				
9. Violate Federal, State, local, tribal law	1				1		6	6	4, 8

PLEASE REFER TO
ATTACHED REFERENCE
LEGEND

CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

1. Surface Management Agency Input *INCLUDING ENVIRONMENTAL ASSESSMENT AND FINDINGS OF NO SIGNIFICANT IMPACT FOR PROPOSED WELL.*
2. Reviews Reports, or information received from Geological Survey (Conservation Division, Geological Division, Water Resource Division, Topographic Division)
3. Lease Stipulations/Terms
4. Application Permit to Drill
5. Operator Correspondence
6. Field Observation (*FIELD NOTES*)
7. Private Rehabilitation Agreement
8. *RECOMMENDED STIPULATIONS*

U.S. FOREST SERVICE
STIPULATIONS

4

1. No Action

Assessment of the "NO Action" alternative is required by CEQ Guidelines (Federal Register, November 29, 1979). Under this alternative, permission to drill would not be given and drilling would not take place. This alternative does not meet alternative Formulation criteria #2 and #5.

2. Project as proposed with Mitigations

Several investigations of the Cottonwood Canyon area were conducted in an attempt to locate suitable drilling locations. The site selected is the most desirable site from a surface management standpoint. The following management requirements and constraints (mitigating measures) must be considered as part of the project as proposed:

- a. Top soil will be removed and stockpiled at the beginning of site preparation.
- b. All garbage will be hauled from the Forest and disposed of properly.
- c. The site will be returned to the approximate original contour.
- d. No camp sites will be permitted in Cottonwood Canyon
- e. Self-contained sanitation facilities shall be present at all times when crews are working at the site.
- f. An eyebrow ditch will be constructed above all cut slopes to divert overland flow around the site.
- g. Contaminated soils and gravel will be placed in the reserve pit and buried at the conclusion of drilling or hauled off National Forest lands and disposed of properly.
- h. The permittees shall make their own arrangements for water. The Forest Service cannot approve a water source. Any surface disturbing water developments need Forest Service approval. The Forest Service must be notified of all water developments.
- i. At the conclusion of drilling, the reserve pit will be fenced until dry to prevent livestock and wildlife from drinking the contaminated water.
- j. At the conclusion of drilling, topsoil will be re-distributed after site reclamation and seeded with the following seed mix:

RECOMMENDED STIPULATIONS

1. SEE USFS STIPULATIONS a through s on Pages 4 and 5 of EA (STIPS ATTACHED)
2. NATURAL GAMMA LOGS SHALL BE RUN THROUGH THE LOWER BLACKHAWK FORMATION TO HELP IDENTIFY AND PROTECT COAL BEDS. LOGS WILL BE FURNISHED TO USGS
3. ALL MINABLE COAL ZONES SHALL BE ISOLATED WITH CEMENT FROM A POINT 100 FEET BELOW THE FORMATION TO 100 FEET ABOVE THE FORMATION
4. THE LOCATION WIDTH SHALL BE REDUCED BY PULLIN IN 100 FEET OF THE WEST OR LOW SIDE OF THE PAD. NEW DRILL PAD DIMENSIONS WILL BE CONFINED TO 200 FEET EAST-WEST BY 300 FEET NORTH-SOUTH PLUS CUT AND FILL SLOPES.

SEED MIXTURE

Crested Wheatgrass	4 lbs.
Western /Intermediate Wheatgrass	3 lbs.
Pubescent Wheatgrass	3 lbs.
Small Burnett	1 lbs.
Yellow Sweet Clover	<u>1 lbs.</u>

12 lbs./acre

- k. Adequate fire suppression tools must be kept at the site at all times.
- l. The drill pad shall be fenced with 4-strand barbed wire after it has been reseeded until the vegetation is established to prevent cattle from disturbing the site.
- m. Drill rig break down and travel on the Cottonwood road shall be coordinated with the livestock permittees to prevent problems with livestock removal from the Forest.
- n. Any damage to range improvements (fences, cattle-guards, etc.) shall be repaired immediately.
- o. Any special stipulations concerning roads and public safety included in the ~~Engineering Report~~, shall be made a part of the permit as well as the above stipulations. *U.S. FOREST SERVICE ROAD USE PERMIT DATED 7/27/81*
- p. It maybe necessary to line the pit to stop leakage of drilling fluids into Cottonwood Creek. An examination of the pit will be made by Forest Service personnel before drilling begins.
- q. A road use permit is required prior to moving any heavy equipment over Forest Service roads.
- r. The site will require fertilizing to help assure vegetative reestablishment.
- s. Site construction will be in accordance with "Guidlines for Oil and Gas Operations" unless specifically noted.
3. Alternate Drill Sites

The alternative for alternate drill sites did not meet evaluation criteriam #2 (the U.S. Geological Survey requires a 2-mile spacing of these two drill sites).

U. S. GEOLOGICAL SURVEY - CONSERVATION DIVISION

FROM: : DISTRICT GEOLOGIST, ME, SALT LAKE CITY, UTAH

TO : DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-15202

OPERATOR: VORTT EXPLORATION COMPANY, INC.

WELL NO. 1

LOCATION: NE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 14, T. 17 S., R. 6 E., SIM

EMERY County, UTAH

1. Stratigraphy: Castlegate SS ... surface

Blackhawk Fm ... 200'

Star Point SS ... 1500'

Mancos Sh ... 1650'

Ferron SS ... 5850'

Dakota SS ... 6850'

2. Fresh Water:

Fresh water may be encountered throughout the Castlegate SS, Blackhawk Fm, and Star Point SS. Brackish water may be encountered in the Ferron SS. Zones: 0 - 1650; 5850 - 6050.

3. Leasable Minerals:

Coal is the principal leasable mineral in the area; logging should be done to identify coal zones in the lower Blackhawk Fm (est. 1300 - 1600'). Oil and gas are expected in the Ferron SS and Dakota SS.

4. Additional Logs Needed:

A natural gamma log should also be run through the lower Blackhawk Fm to help identify and protect coal in this important coal area.

5. Potential Geologic Hazards:

Possible faulting in this area may have created fracture zones which may result in lost circulation and rough drilling.

6. References and Remarks:

Most information was obtained from U.S.G.S. coal drilling projects in the area.

Signature:

Kenneth J. Smith

Date: 2-JUL-81

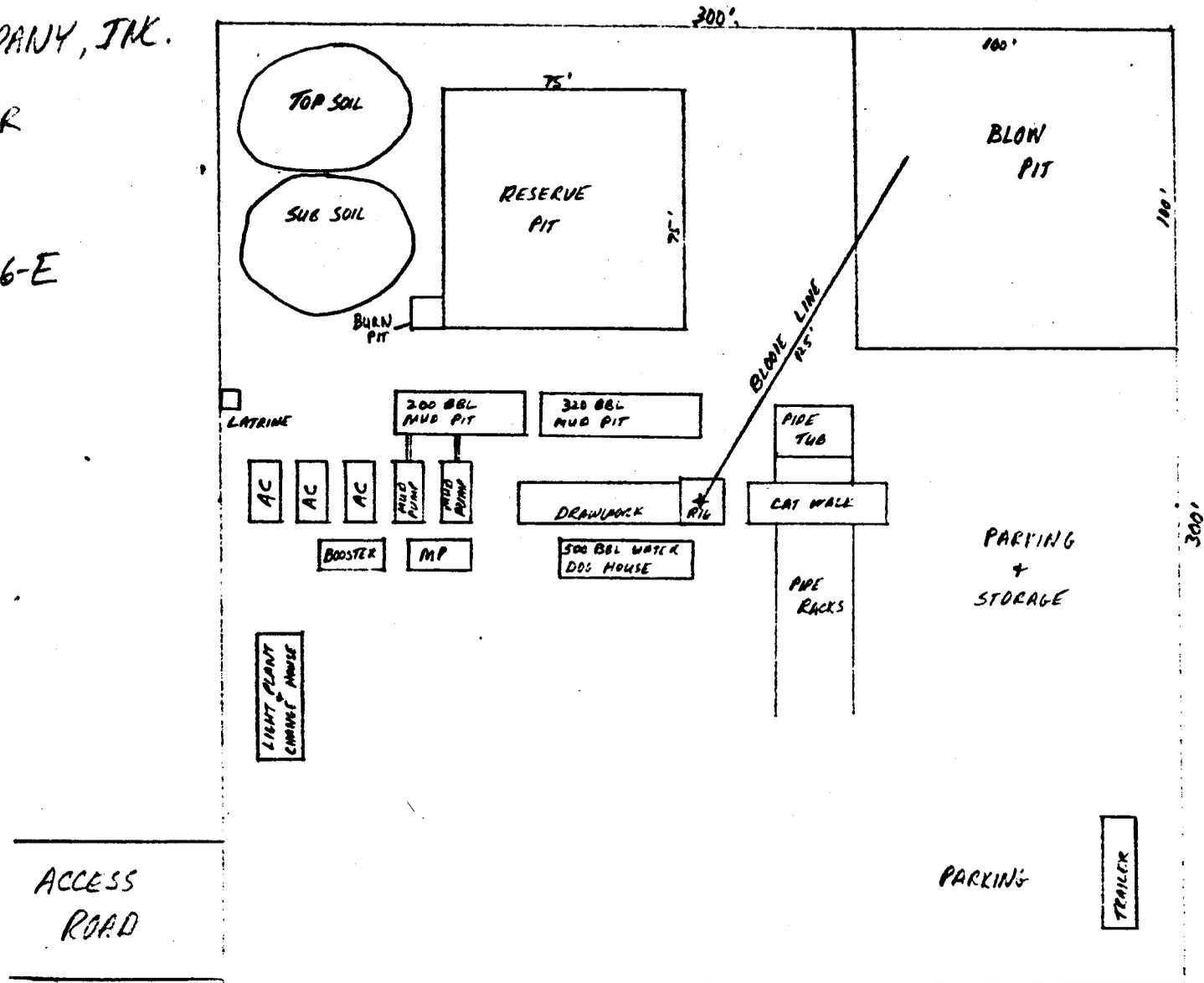
VORTT EXPLORATION COMPANY, INC.

LOCATION LAYOUT FOR
WELL LOCATION IN
NW/4 SEC. 2, T17-S, R6-E

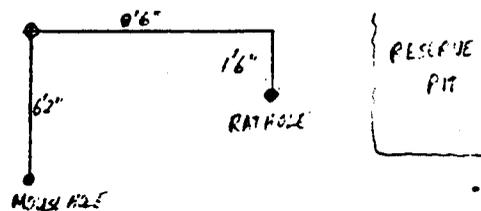
SCALE: 1" = 50'



WIND DIRECTION
S to N



RATHOLE + MOUSEHOLE DETAIL:



1. GROUND LEVEL TO TOP OF ROTARY BEAMS: 10'
2. GROUND LEVEL TO KELLY BUSHINGS: 12'
3. CENTER OF HOLE TO RESERVE PIT: 25'

PLAT NO. 1

ARCHAEOLOGICAL SURVEY OF A DRILL LOCATION
IN COTTONWOOD CREEK, EMERY COUNTY, UTAH

ABSTRACT: An archaeological survey was conducted by Utah Archaeological Research Corporation for a proposed oil well location in Cottonwood Creek, Utah.

CLIENT: Vortt Exploration Corporation

PROJECT AREA:

Legal - T17S, R6E, Section 14 SW $\frac{1}{4}$ of NE $\frac{1}{4}$
Map - Mahogany Point 7.5' 1979
Emery County, Utah

Forest land, Manti-LaSal National Forest, Ferron District
approximately 300 square feet surveyed around drill
location

DATE OF FIELDWORK: June 3, 1981

PERSONNEL INVOLVED: Diana Christensen

RESULTS AND RECOMMENDATIONS: No archaeological resources were located.
It is recommended that clearance be given the project as now
proposed.



UTAH ARCHAEOLOGICAL RESEARCH CORPORATION • 87 E. CENTER, SUITE 103 • SPANISH FORK, UTAH 84660 • (801) 798-
FIELD OFFICE: P.O. BOX 1147 • MONTICELLO, UTAH 84535

SUBJECT: Archaeological Survey of a Drill Location in Cottonwood
Creek, Emery County, Utah

AUTHOR: Diana Christensen
Principal Investigator

DATE: June 4, 1981

PROJECT: Vortt Exploration Corporation-1981-2

PERMIT: Utah State # 612
Forest Special Use Permit

PREPARED FOR:

Mr. Ed Patterson
Vortt Exploration Corporation
P.O. Box 26089
Fort Worth, TX 76116

Dr. David Madsen
Utah State Historical Society
300 South Rio Grande
Salt Lake City, UT 84101

Mr. Steve Robison
Ferron Ranger District
P.O. Box 129
Ferron, UT 84523

ARCHAEOLOGICAL SURVEY OF A DRILL LOCATION AT COTTONWOOD
AND MILL CREEKS, EMERY COUNTY, UTAH

INTRODUCTION

On June 3, 1981, Diana Christensen of Utah Archaeological Research Corporation conducted an archaeological survey for a proposed oil well location in Cottonwood Canyon just north of its junction with Mill Canyon in Emery County, Utah. The area is located on a flat terrace just east of Cottonwood Creek and north of Mill Creek at the base of the canyon wall in Township 17 South, Range 6 East, Section 2, the NE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of the NW $\frac{1}{4}$.

The area is a sage park surrounded by Quaking Aspen trees and is approximately 400 feet east of Cottonwood Creek, which is an intermittent drainage at this point. Large sandstone boulders are on the hillside directly north of the location.

A file search was conducted at the Ferron District Office which revealed no archaeological sites recorded in the section.

Previous archaeological work in the area includes several projects by AERC including the Grimes Creek Inventory (Hauck, 1977), The Central Coal Project (Hauck, 1979a), Cottonwood Creek Intensive (Hauck, 1979b) and the Trail Mountain Timber Sale conducted by Gillio of the Forest Service in 1975. These projects attest to frequent aboriginal occupation of the area which are mainly in the form of lithic scatters and quarries or rock shelters. Hauck(1977) found all three archaeological sites within a 6700-7000 foot elevation. The area investigated for this report was at a 7900 foot elevation which places it above that level.

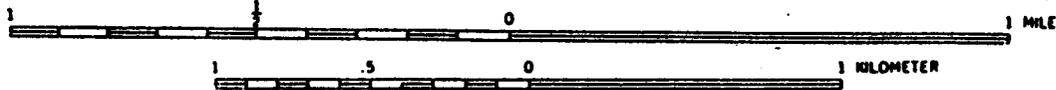
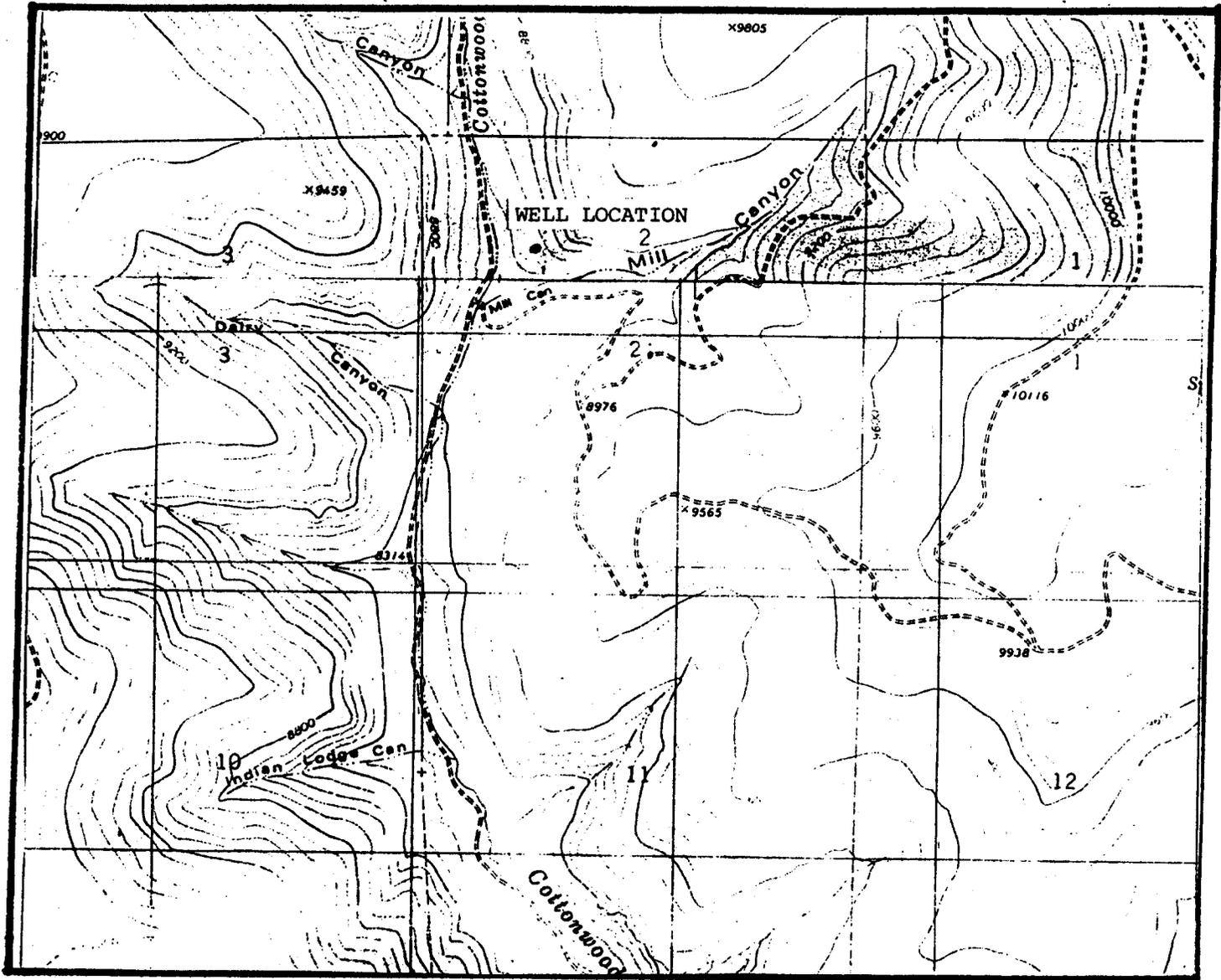
CITED REFERENCES:

- HAUCK, Richard
1977 Archaeological Inventory of Grimes Creek.
AERC ms.
- 1979a Cultural Resource Evaluation in Central
Utah 1977. BLM Cultural Resource Series
No. 3.
- 1979b Preliminary Report on the Cultural Resource
Evaluation and Test Excavations in Cottonwood
Canyon, Emery County, Utah. AERC Utah Power
and Light Report.
- 1980 Archaeological Sample Survey and Cultural
Resource Evaluations of the East Mountain
Locality in Emery County, Utah. AERC Utah
Power and Light report.



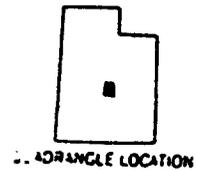
UTAH ARCHAEOLOGICAL RESEARCH CORPORATION
 87 E. Center, Suite 103
 Spanish Fork, Utah 84660
 Tel. (801) 798-7061

Archaeological Consultants



T 17S R 6E Section 2
 UTM Zone 12 N 481400 E 4358000
 Project: VEC-81-2
 Date: June 4, 1981
 Legend: Well location ●

County: Emery
 Quad: Rilda Canyon 7.5'



PROJECT LOCATION



DRILL LOCATION T17S, R6E, SECTION 2
LOOKING SOUTHWEST

UTAH ARCHAEOLOGICAL RESEARCH CORPORATION • 87 E. CENTER, SUITE 103 • SPANISH FORK, UTAH 84660 • (801) 798-706
FIELD OFFICE: P.O. BOX 1147 • MONTICELLO, UTAH 84535

SUBJECT: Archaeological Survey of a Drill Location at Cottonwood
and Mill Creeks, Emery County, Utah

AUTHOR: Diana Christensen
Principal Investigator

DATE: June 4, 1981

PROJECT: Vortt Exploration Corporation-1981-2

PERMIT: Utah State #612
Forest Special Use Permit

PREPARED FOR:

Mr. Ed Patterson
Vortt Exploration Corporation
P.O. Box 26089
Fort Worth, TX 76116

Dr. David Madsen
Utah State Historical Society
300 South Rio Grande
Salt Lake City, UT 84101

Mr. Steve Robison
Ferron Ranger District
P.O. Box 129
Ferron, UT 84523

JUN 10 1981

DIVISION OF
OIL, GAS & MINING

ARCHAEOLOGICAL SURVEY OF A WELL LOCATION AT COTTONWOOD
AND MILL CREEKS, EMERY COUNTY, UTAH

ABSTRACT: An archaeological survey was conducted by Utah Archaeological Research Corporation for a proposed oil well location north of the junction of Cottonwood Creek and Mill Canyon in Emery, County, Utah.

CLIENT: Vortt Exploration Corporation

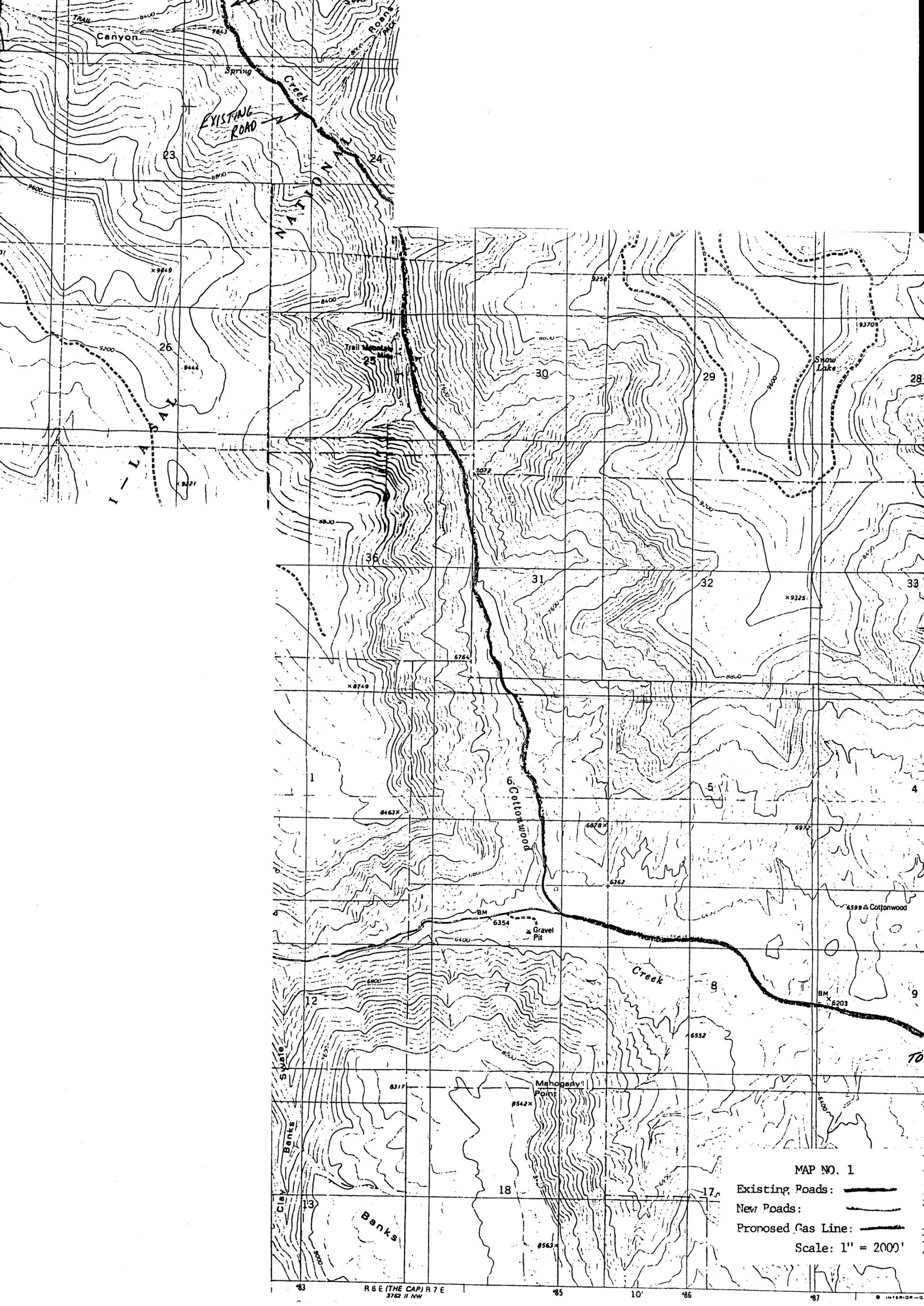
PROJECT AREA:

Legal - T17S, R6E, Section 2, NE $\frac{1}{4}$ of SW $\frac{1}{4}$ of NW $\frac{1}{4}$
Map - Rilda Canyon 7.5' 1979
Emery County, Utah
Forest land, Manti-LaSal National Forest, Ferron District
approximately 300 square feet was surveyed around well
location

DATE OF FIELDWORK: June 3, 1981

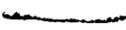
PERSONNEL INVOLVED: Diana Christensen

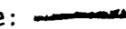
RESULTS AND RECOMMENDATIONS: No archaeological resources were encountered.
Clearance is recommended for the project as proposed.



MAP NO. 1

Existing Roads: 

New Roads: 

Proposed Gas Line: 

Scale: 1" = 2000'

PROPERTY DESCRIPTION:

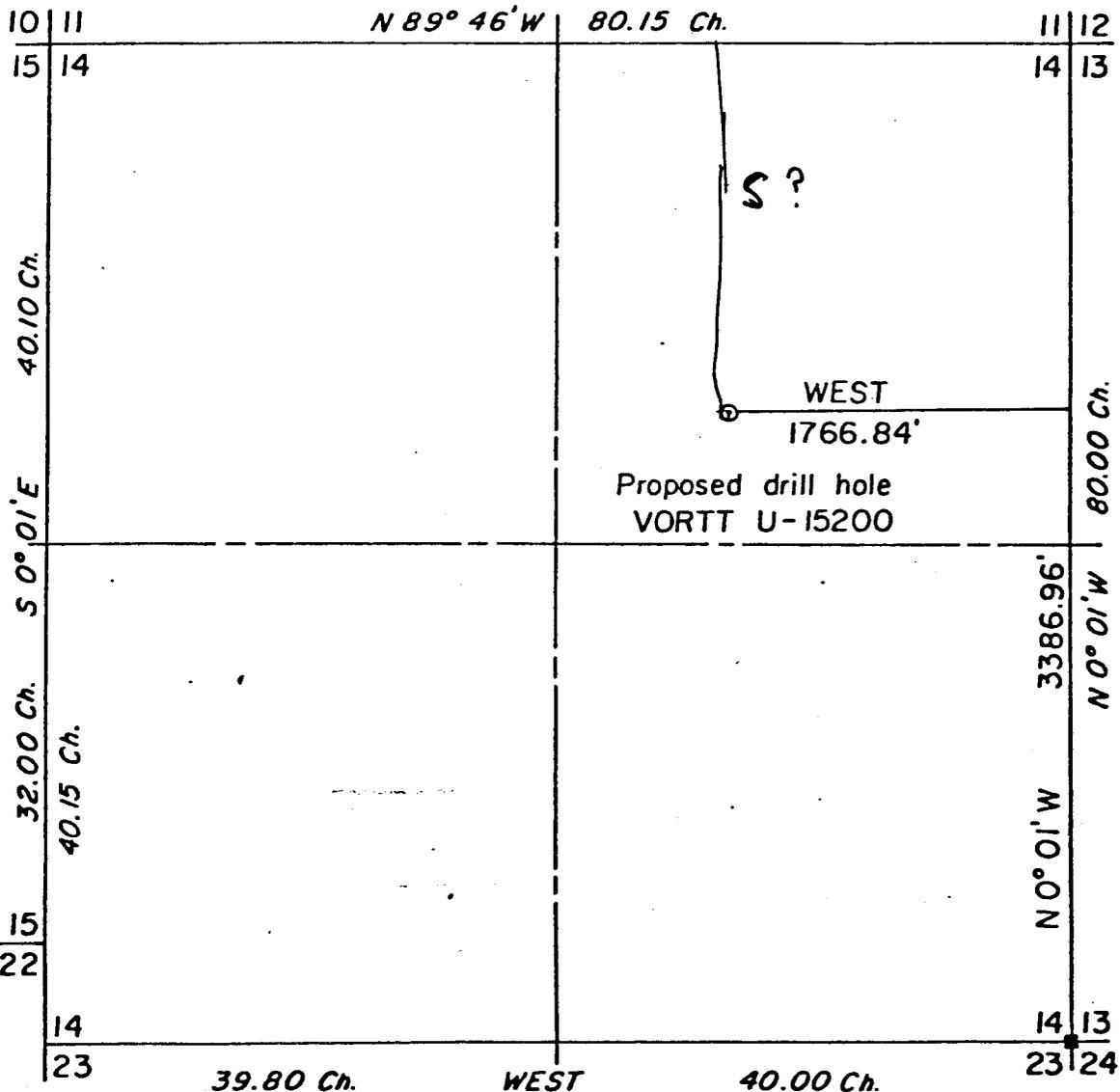
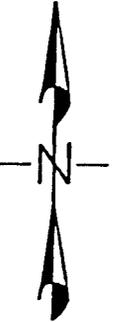
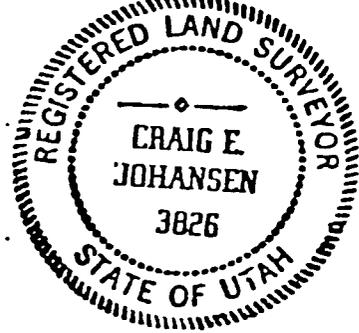
VORTT U-15200

Located at a point $N0^{\circ}01'W$, 3386.96 feet and 1766.84 feet West of the SE corner of Section 14, T.17S., R.6E., SLB & M.

■ - Denotes found corner.

CERTIFICATE

Craig E. Johansen LICENSED SURVEYOR,
 CRAIG E. JOHANSEN
 HOLDING CERTIFICATE NO. 3826, DO HEREBY CERTIFY THAT THE PLAT SHOWN HEREON HAS BEEN PREPARED FROM A FIELD SURVEY MADE UNDER MY DIRECTION AND CORRECTLY SHOWS THE DIMENSIONS AND MONUMENTS OF THE PROPERTY DESCRIBED TO THE BEST OF MY KNOWLEDGE AND BELIEF. FURTHERMORE, ENCROACHMENTS OF FENCES AND IMPROVEMENTS ARE SHOWN WITH THE FOLLOWING EXCEPTIONS: *none*



SECTION	TOWNSHIP	RANGE
14	17 S	6 E
DATE	SCALE	BLOCK
6 - 81	1" = 1000'	
PLAT	SURVEY	

CRAIG E. JOHANSEN
 REGISTERED LAND SURVEYOR
 JOHANSEN & TUTTLE ENGR. INC.
 CASTLE DALE, UTAH

SURVEY FOR
**VORTT EXPLORATION
 COMPANY INC.**
 2728 LAREDO DRIVE
 FORT WORTH, TEXAS - 76116

** FILE NOTATIONS **

DATE: June 16, 1981
OPERATOR: Vortt Exploration Company, Inc.
WELL NO: Indian Creek
Location: Sec. 2 T. 17S R. 6E County: Emery

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

API Number 43-015-30082

CHECKED BY:

Petroleum Engineer: _____

Director: OK under rule C-3(c) Condition on topo
exception being requested and Bond being w/ State Land
Board

Administrative Aide: As per C-3(c) needs
any oil & gas wells - No other oil & gas wells
within "three thousand miles"

APPROVAL LETTER:

Bond Required: Survey Plat Required:

Order No. _____ O.K. Rule C-3

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

Lease Designation Plotted on Map

Approval Letter Written

Hot Line P.I.

June 18, 1981

Vortt Exploration Company, Inc.
P. O. Box 26089
Fort Worth, Texas 76116

RE: WELL NO. INDIAN CREEK #02176-1
Sec. 2, T. 17S, R. 6E,
Emery County, Utah

Insofar as this office is concerned, approval to drill the above referred to gas well on said unorthodox location is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure. However, This Division requires that a letter be sent to this office stating that your company owns or controls the acreage within 660' radius of the proposed well site, and a written statement as to the necessity of the unorthodox location. Also we are requesting that a bond be filed with the State Land Board..

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

MICHAEL T. MINDER - Petroleum Engineer
Office: 533-5771
Home: 876-3001

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

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

The API number assigned to this well is 43-015-30082

Sincerely,

DIVISION OF OIL, GAS, AND MINING

Cleon B. Feight
Cleon B. Feight
Director

VORTT EXPLORATION COMPANY, INC.

OIL AND GAS

(817) 244-4201
P. O. Box 26089

June 19, 1981

2728 LAREDO DRIVE
FORT WORTH, TEXAS 76116

UTAH STATE DIVISION OF OIL, GAS & MINING
1588 West North Temple
Salt Lake City, Utah 84116

Attention: Mike Minder

RE: Application for Permit to Drill
Well No. 1, Sec. 2, T17S, R6E,
Emery County, Utah, Lease #ML-27626

Gentlemen:

Vortt Exploration Company, Inc. has been designated as Operator for the captioned lease and has applied for permission to drill an oil and gas test well at the following location:

1538.07' FNL & 1240.36' FWL of Section 2

We hereby request approval of the above location due to topographic difficulties in getting a well located on this lease. As shown on the attached topographic map, there are two streams involved, a steep mountain cliff and a Forest Service road. The location requested is in the best possible location on the lease. The attached lease map shows our ownership via our Designation of Operator from El Paso Exploration Company et al in a 660' radius of said location.

Should you have any questions or need further information, please contact me at the above number. Thank you for your favorable consideration.

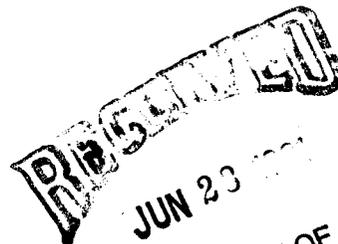
Very truly yours,

VORTT EXPLORATION COMPANY, INC.



H. E. Patterson
Land Manager

HEP/s
Encls.



DIVISION OF
OIL, GAS & MINING

ENTERPRISE

June 18, 1981

RECEIVED
JUN 24 1981
MELCHER
EXECUTIVE VICE PRESIDENT

Mr. Mike Minder
Utah State Division of Oil & Gas Mining
1588 West North Temple
Salt Lake City, Utah 84116

**DIVISION OF
OIL, GAS & MINING**

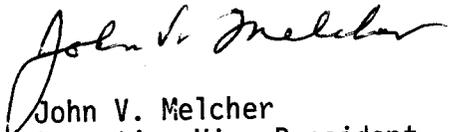
Re: State Lease #ML 27626

Dear Mr. Minder:

Enclosed is the Designation of Operator Form in triplicate designating Vortt Exploration Company, Inc. as operator for the above referenced State Lease.

Let us know should you require anything further.

Yours truly,


John V. Melcher
Executive Vice President

JVM;jc
enclosures

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City
SERIAL NO.: ML 27676 - State Lease

and hereby designates

NAME: Vortt Exploration Company, Inc.
ADDRESS: 2728 Laredo Drive, P.O. Box 26089
Fort Worth, Texas 76111

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Sec 2, T 17 S, R 6 E

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

Enterprise Gas Company

John V. Melcher
.....
(Signature of Lessee)
John V. Melcher, Executive Vice President

June 18, 1981
.....
(Date)

P. O. Box 4324, Houston
.....
(Address)

U. S. GOVERNMENT PRINTING OFFICE 16-53598-3

RECEIVED

JUN 24 1981

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City
SERIAL NO.: ML 27676 - State Lease

and hereby designates

NAME: Vortt Exploration Company, Inc.
ADDRESS: 2728 Laredo Drive, P.O. Box 26089
Fort Worth, Texas 76111

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Sec 2, T 17 S, R 6 E

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

Enterprise Gas Company

John V. Melcher
(Signature of lessee)
John V. Melcher, Executive Vice President

June 18, 1981
(Date)

P. O. Box 4324, Houston, TX 77210
(Address)

U. S. GOVERNMENT PRINTING OFFICE 16-53509 3

RECEIVED

JUN 24 1981
GFS (O&G) FORM 51

DIVISION OF
OIL, GAS & MINING

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City
SERIAL NO.: ML 27676 - State Lease

and hereby designates

NAME: Vortt Exploration Company, Inc.
ADDRESS: 2728 Laredo Drive, P.O. Box 26089
Fort Worth, Texas 76111

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Sec 2, T 17 S, R 6 E

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The lessee agrees promptly to notify the supervisor of any change in the designated operator.

Enterprise Gas Company

John V. Melcher
(Signature of lessee)
John V. Melcher, Executive Vice President

P. O. Box 4324, Houston, TX 77210
(Address)

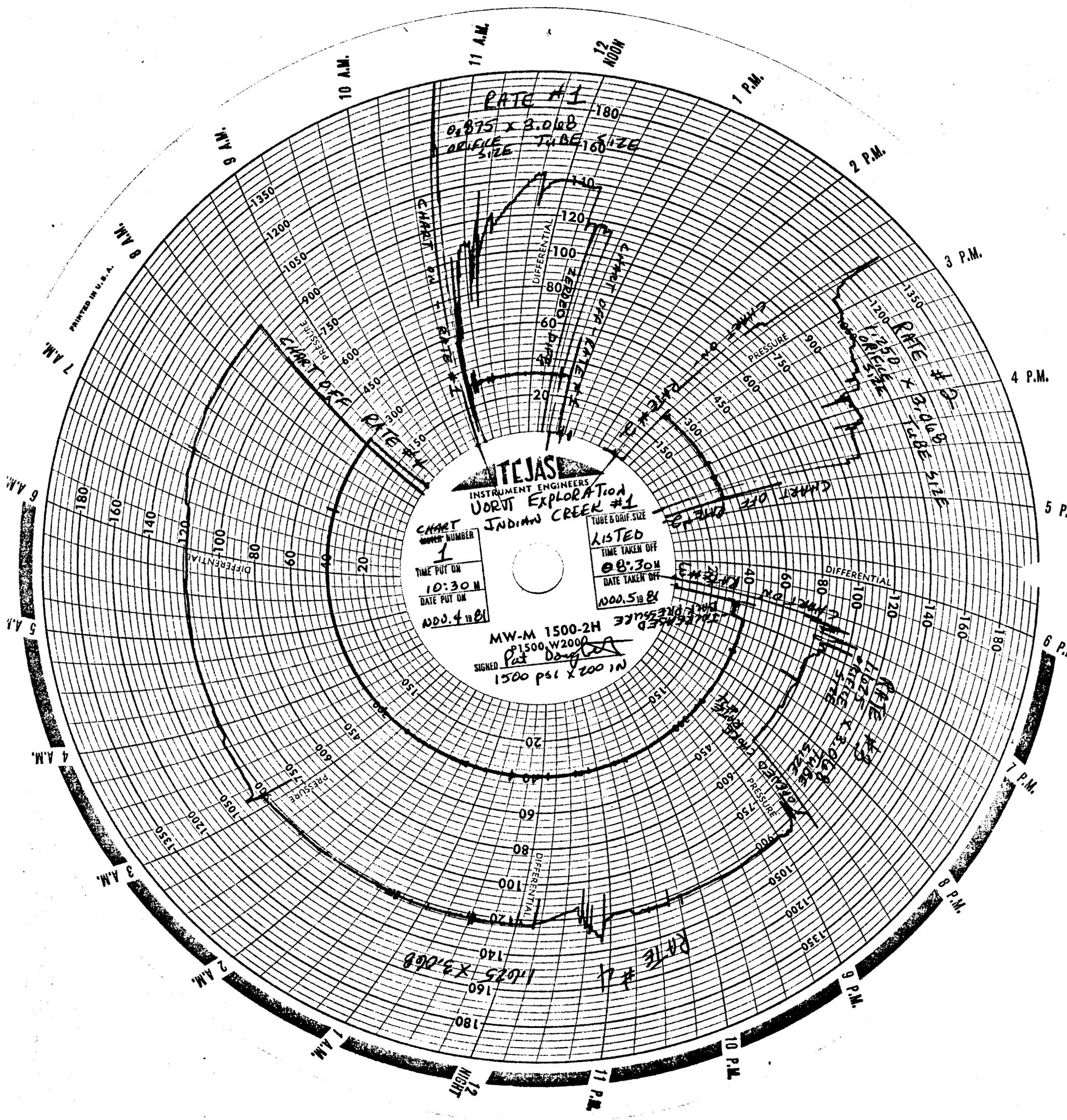
June 18, 1981
(Date)

U. S. GOVERNMENT PRINTING OFFICE 16-5351A 3

RECEIVED

JUN 21 1981
GFS (O&G) FORM 51

DIVISION OF
OIL, GAS & MINING



ITEJAS

INSTRUMENT ENGINEERS

WORT EXPLORATION

INDIAN CREEK #1

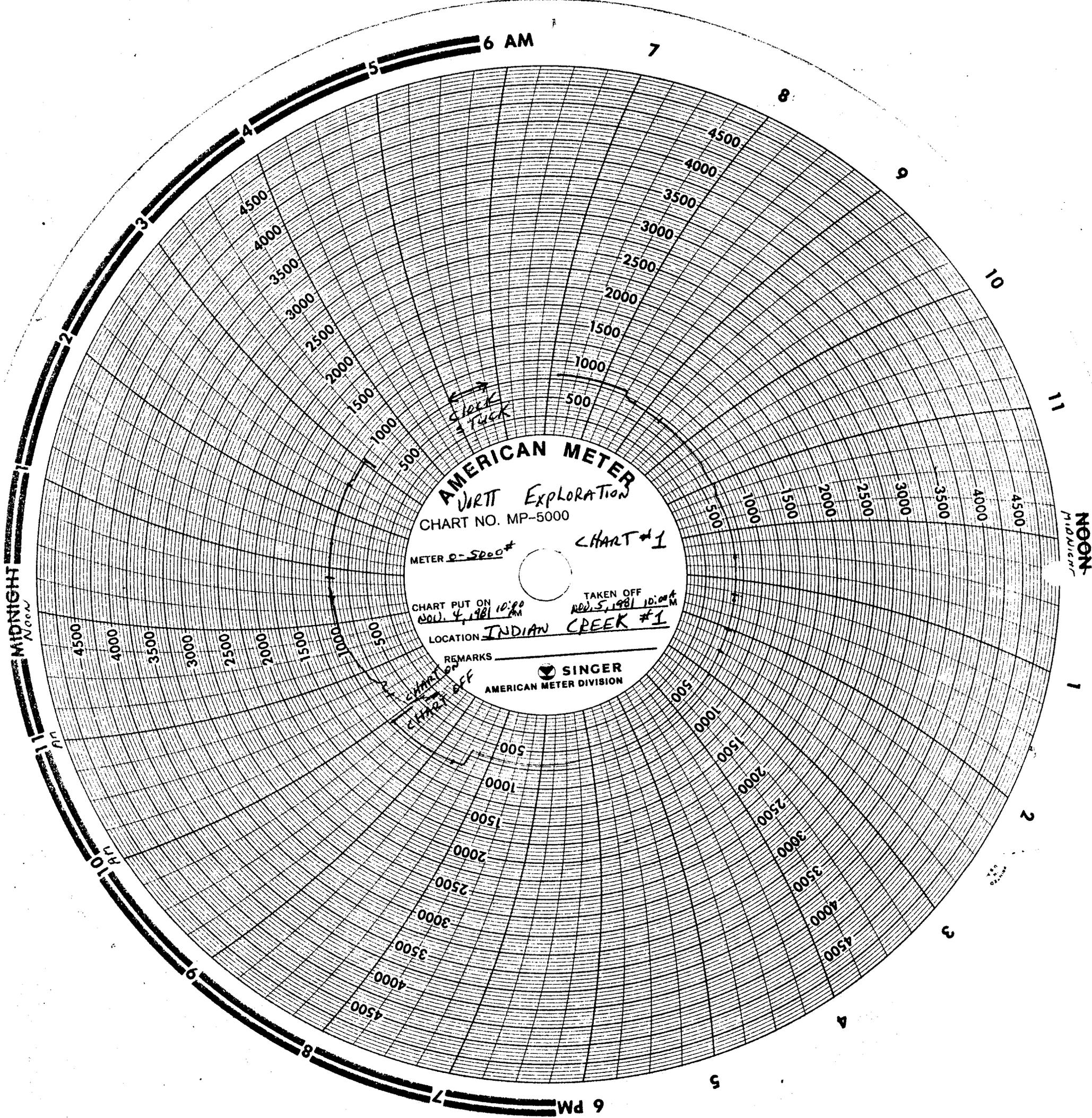
CHART NUMBER
1
TIME PUT ON
10:30 M
DATE PUT ON
NOV. 4 1981

TUBE & ORIF. SIZE
LISTED
TIME TAKEN OFF
08:30 M
DATE TAKEN OFF
NOV. 5 1981

MW-M 1500-2H

SIGNED Pat Douglas
1500 PSI x 200 IN

PRINTED IN U.S.A.



AMERICAN METER
VIRTT Exploration

CHART NO. MP-5000

METER R-5000*

CHART #1

CHART PUT ON
NOV. 4, 1981 10:00 AM

TAKEN OFF
NOV. 5, 1981 10:00 AM

LOCATION INDIAN CREEK #1

REMARKS

SINGER
AMERICAN METER DIVISION

STEEL
TUCK

MIDNIGHT
NOON

NOON
MIDNIGHT

6 AM

6 PM

DELSCO NORTHWEST

Sub-Surface Pressure Test

Field Indian Creek County Emery State Utah
 Company Vortt Expl. Co.
 Lease Indian Creek Well No. 1
 Date 11/4/81-11/7/81 Time 9:15 am. Status of Well Shut In
 Pay _____ Perforations 5634-50 Datum 5642

Depth Feet	Pressure lbs. sq. in.	Time Interval From Test Start At (in hours)	Gradient lbs./ft.
			Casing Press 880 psi. After Test
			Tubing Press 1020 psi. After Test
			Oil Level
			Water Level
			Hours - Shut In Flowing
			Temp. 112° At 5642
			Elevation - D.F. Ground
			Pressure This Test 1190 psi.
			Last Test Date 10/18/81
			Press Last Test 1117 psi.
			B.H.P. Change + 73 psi.
			Loss/Day
			Choke Size
			Oil Bbls./day
			Water Bbls./day
			Total Bbls./day
			Orifice and Line
			Static and Differential
			Gas Sp. Gr.
			Cu. ft./day
			GOR

Instrument	Number	Calibration Date
Kuster	0-5650 psi.	1/9/81

Calculations and Remarks

72 hr. 4 Point Test
 Bombs on Bottom @ 9:15 am. 11/4/81
 Bombs off Bottom @ 9:15 am. 11/7/81

Operator on Job Larry Cash

Test Calculated By George Landry

Witnesses: Company Jim. Davis
 State Utah

DELSCO NORTHWEST

72 hr. 4 Point Test

0-5650 psi.

Depth Feet	Pressure lbs. sq. in.	Time Interval From Test Start at (in hours)
5642	1204	9:15 am. 11/4/81
	1204	9:30
	1201	9:45
	1198	10:00
	1198	10:15
	1198	10:45
	1198	11:15
	1201	11:45
	1204	12:15 pm.
	1204	12:45
	1204	1:15
	1198	1:45
	1190	2:15
	1187	2:45
	1182	3:15
	1190	3:45
	1196	4:15
	1198	4:45
	1198	5:15
	1187	5:45
	1173	6:15
	1168	6:45
	1165	7:15
	1151	7:45
	1145	8:15
	1142	8:45
	1137	9:15
	1117	12:15 am. 11/5/81
	1103	3:15
	1087	6:15
	1137	9:15
	1165	3:15 pm.
	1173	9:15
	1182	3:15 am. 11/6/81

El Paso
Exploration Company

P. O. BOX 1492
EL PASO, TEXAS 79978
PHONE: 915-543-2600

June 19, 1980

RECEIVED

JUN 24 1980

DIVISION OF
OIL, GAS & MINING

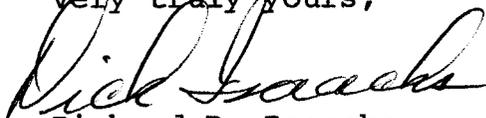
Mr. Mike Minder
Utah State Division of
Oil, Gas, and Mining
1588 West N. Temple
Salt Lake City, Utah 84116

Re: State of Utah Lease ML-27626

Dear Mr. Minder:

Attached are three copies of a Designation of Operator form from El Paso Exploration Company to Vortt Exploration, Inc., covering certain acreage in the captioned lease.

Very truly yours,



Richard B. Isaacks
Manager, Special Areas

RBI/mea
Attachment

DESIGNATION OF OPERATOR

The undersigned is, on the records of the State of Utah, holder of Lease ML-27626 and hereby designates

NAME: Vortt Exploration Company, Inc.
ADDRESS: 2728 Laredo Drive
Fort Worth, Texas 76116

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable there- to and on whom the Commission or its representative may serve written or oral instructions in securing compliance with the Rules and Regulations with respect to:

Township 17 South, Range 6 East, SLM
Section 2: Lots 1 through 12

(Limited from the surface of the earth
to the base of the Dakota Formation.)

It is understood that this Designation of Operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this Designation of Operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Commission or its representative.

The lessee agrees promptly to notify the Commission of any change in the designated operator.

EL PASO EXPLORATION COMPANY

By: 
Vice President
P. O. Box 1491
El Paso, Texas 79978

Date: June 19, 1981

U-2869

DESIGNATION OF OPERATOR

The undersigned is, on the records of the State of Utah, holder of Lease ML-27626 and hereby designates

NAME: Vortt Exploration Company, Inc.
ADDRESS: 2728 Laredo Drive
Fort Worth, Texas 76116

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable there- to and on whom the Commission or its representative may serve written or oral instructions in securing compliance with the Rules and Regulations with respect to:

Township 17 South, Range 6 East, SLM
Section 2: Lots 1 through 12

(Limited from the surface of the earth
to the base of the Dakota Formation.)

It is understood that this Designation of Operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this Designation of Operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Commission or its representative.

The lessee agrees promptly to notify the Commission of any change in the designated operator.

EL PASO EXPLORATION COMPANY

By: J. L. Luley
Vice President
P. O. Box 1491
El Paso, Texas 79978

Date: June 19, 1981

U-2869

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: Vortt Exploration Company

WELL NAME: Indian Creek #1

SECTION SW NW 2 TOWNSHIP 17S RANGE 6E COUNTY Emery

DRILLING CONTRACTOR Laredo Drilling Co.

RIG # 9

SPUDDED: DATE 7-31-81

TIME ?

How rotary

DRILLING WILL COMMENCE 7-31-81

REPORTED BY Ed Patterson

TELEPHONE # 817-244-4201 Fort Worth, Texas

DATE 7-30-81

SIGNED LM

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
VORIT EXPLORATION COMPANY, INC.

3. ADDRESS OF OPERATOR
P. O. BOX 26089, Fort Worth, Texas 76116

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1538.07' FNL & 1240.36' FWL
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

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

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

5. LEASE
ML-27626

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
INDIAN CREEK

8. FARM OR LEASE NAME
02176

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 2, T17S, R6E, SLB&M

12. COUNTY OR PARISH EMERY 13. STATE UTAH

14. API NO.
43-015-30082

15. ELEVATIONS (SHOW DF, KDB, AND WD)
8551 KDB - 8549DF - 8537GL

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

DIVISION OF OIL, GAS & MINING

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 well was drilled to a total depth of 6560'; a string of 4½" casing was run to 6520' to control water at 5982' and lost circ. zone at 6560. After drill out from 4½" casing, the well was drilled to 6628' with 3 7/8" bit. After trip out for new bit, was not able to get back into new hole. Cleaned up 7 7/8" hole (6520'-6560') and set open hole cement. Plug with cement coming back up into 4½" casing an undetermined amount.

Propose to set wire line bridge plug at 6060' and perforate 5976' to 5980' for squeeze over the Ferron back to approximately 5500' (top of Ferron 5631' by log) then perforate Ferron for production.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
 DATE: 1/19/83
 BY: [Signature] Ft.

Subsurface Safety Valve: Manu. and Type _____

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

SIGNED [Signature] TITLE Chief Geologist DATE 9-23-81
W.L. ANDREWS, JR.

(This space for Federal or State office use)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to plug back to a different reservoir. Use Form 9-331-C for such proposals.)

RECEIVED
DEC 28 1981

1. oil well gas well other

2. NAME OF OPERATOR
Vortt Exploration Company, Inc.

3. ADDRESS OF OPERATOR
P. O. Box 26089, Fort Worth, TX 76116

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1538.07' FNL & 1240.36' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
ML-27626

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Indian Creek

8. FARM OR LEASE NAME
02176

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 2, T17S, R6E, SLB & M

12. COUNTY OR PARISH
Emery

13. STATE
Utah

14. API NO.
43-015-30082

15. ELEVATIONS (SHOW DF, KDB, AND WD)
8551 KDB - 8549 DF - 8537 GL

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

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

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

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

The well was drilled to a total depth of 6560'; a string of 4½" casing was run to 6520' to control water at 5982' and lost circ. zone at 6560. After drill out from 4½" casing, the well was drilled to 6628' with 3-7/8" bit. After trip out for new bit, was not able to get back into new hole. Cleaned up 7-7/8" hole (6520' - 6560') and set open hole cement, plug with cement coming back up into 4½" casing an undetermined amount. Propose to set wire line bridge plug at 6060' and perforate 5976' to 5980' for squeeze over the Ferron back to approximately 5500' (top of Ferron 5631' by log) then perforate Ferron for production.

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

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

SIGNED [Signature] TITLE Chief Geologist DATE September 23, 1981

(This space for Federal or State office use)

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

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

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R855.5

5

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____
 b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other _____

2. NAME OF OPERATOR
Vortt Exploration Company, Inc.

3. ADDRESS OF OPERATOR
P. O. Box 26089 - Fort Worth, Texas 76116

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
 At surface **1538.07 FNL & 1240.36 FWL**
 At top prod. interval reported below **same**
 At total depth **same**

14. PERMIT NO. **43-015-30082** DATE ISSUED **06-18-81**

5. LEASE DESIGNATION AND SERIAL NO.
ML27626

6. IF INDIAN, ALLOTTED OR TRIBE NAME

7. UNIT AGREEMENT NAME
Indian Creek

8. FARM OR LEASE NAME
02176

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sect. 2, T17S, R6E

SL B&M

12. COUNTY OR PARISH **Emery** 13. STATE **Utah**

15. DATE SPUNDED **08-02-81** 16. DATE T.D. REACHED **09-15-81** 17. DATE COMPL. (Ready to prod.) **11-07-81** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* **8537GL-8551 KB*** 19. ELEV. CASINGHEAD **8539**

20. TOTAL DEPTH, MD & TVD **6628** 21. PLUG, BACK T.D., MD & TVD **5730** 22. IF MULTIPLE COMPL., HOW MANY* **single** 23. INTERVALS DRILLED BY **0-6628** ROTARY TOOLS **→** CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
5634-5650 2SPF 33 holes Ferron

25. WAS DIRECTIONAL SURVEY MADE
No

26. TYPE ELECTRIC AND OTHER LOGS RUN
Dual Induction, Compensated Neutron, BHC-Cal-GK

27. WAS WELL CORED
No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
16"	65#	40	24	170 sax Ready Mix	
10-3/4"	33#	324	12 1/2	335 sax Class H 2% CC 3/4#	Flo cele
4 1/2"	10.5#	6520	7-7/8	150 sax Class H + 15# Gil 3/4# Flo cele per sack	sanite +

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
None					2-3/8	5520	

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

5729-30 5 holes for squeeze
5634-50 25 PF 33 holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5729-30 (5 holes)	125 sax 50/50/pos+10% salt+6#Gi
5634-50 2SPF	1000 gal 15% acid
5634-50 2SPF	42000 gal Apollo + 56000# 20/4C Sd + 50 tons CO ₂

33.* PRODUCTION

DATE FIRST PRODUCTION **waiting on pipeline** PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) **Flowing** WELL STATUS (Producing or shut-in) **SI**

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
11-04-81	22	various	→	.86	2116	trace	2460-1

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
722#	807#	→	3.44	8700	trace	.6850

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) **Vented** TEST WITNESSED BY **Jim Davis Bill Davey**

35. LIST OF ATTACHMENTS
Complete 4 Pt. test with charts

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

SIGNED **Howard L. Wagner** TITLE **Production Manager** DATE **1/20/82**

*(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 23, 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 25.

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.
Emery	2300	2368	Dry
Ferron	5631	5672	Gas (zone of completion 5634-50)
Ferron	5920	6036	Possible gas
			TOP
			MEAS. DEPTH
			TRUE VERT. DEPTH
NAME			
First Black Hawk		323	
Star Point		733	
Upper Mancos		1195	
Emery		2274	
Middle Mancos		3710	
Ferron		5631	
Dakota		6560	
		(from Drill Time and samples)	

FILE IN TRIPLICATE
FORM OGC-8-X

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

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number Indian Creek 02176 #1
Operator Vortt Exploration Co., Inc. Address P. O. Box 26089, Fort Worth TX 76116
Contractor Laredo Mfg. Co. #9 Address Duchesne, Utah
Location 1/4 1/4 Sec. 02 T: 17 R. 6E County Emery

Water Sands

	<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
	From	To	Flow Rate or Head	Fresh or Salty
1.	Unknown		Limited	Fresh
2.				
3.				
4.				
5.				

(Continue of reverse side if necessary)

Formation Tops Ferron 5631

Remarks

- NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
- (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

VORTT EXPLORATION COMPANY, INC.

OIL AND GAS

(817) 244-4201
P. O. Box 26089

January 20, 1982

2728 LAREDO DRIVE
FORT WORTH, TEXAS 76116

JAN 25 1982
DIVISION OF
OIL, GAS & MINING

RECEIVED

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Attention: Mr. Cleon Feight

Re: Completion report, test data
and log for Indian Creek 02176
Emery County, Utah

Dear Mr. Feight:

Enclosed please find the completion report form 9-330, test data
and a log for the above referenced well.

Please do not hesitate to contact us if there is a need for clari-
fication or additional information.

Very truly yours,

VORTT EXPLORATION COMPANY, INC.



HOWARD L. WAGNER
Production Manager

HLW:lc

Enclosure



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

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

February 19, 1982

Vortt Exploration Company, Inc.
P. O. Box 26089
Fort Worth, Texas 76116

Re: Well No. Indian Creek #1
Sec. 2, T. 17S, R. 6E
Emery County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office January 20, 1982, from above referred to well, indicates the following electric logs were run: Dual Induction, Compensated Neutron, and BHC-CAL-GR. As of today's date, this office has not received these logs: Compensated Neutron & BHC-CAL-GR.

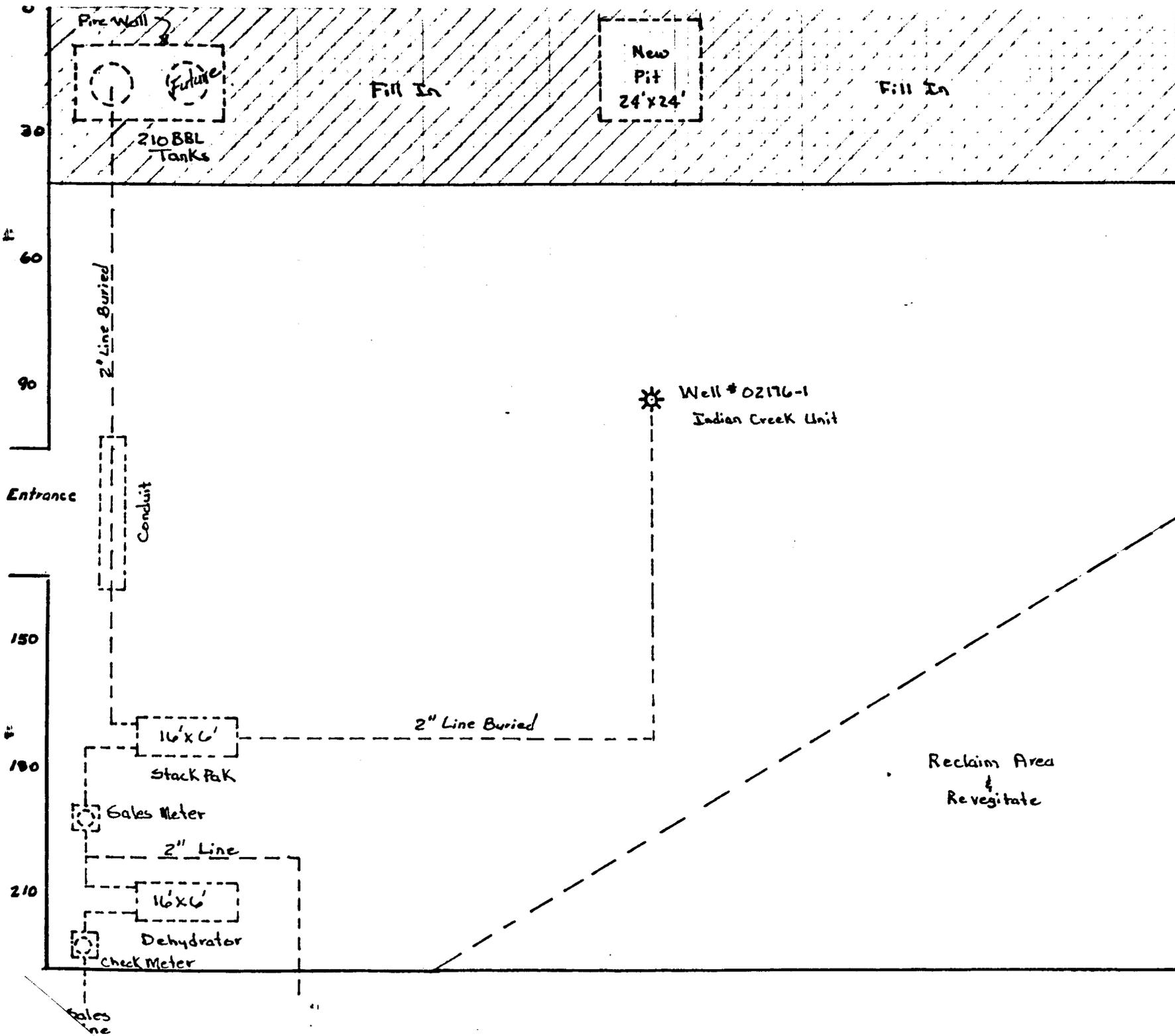
Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cari Furse
Clerk Typist



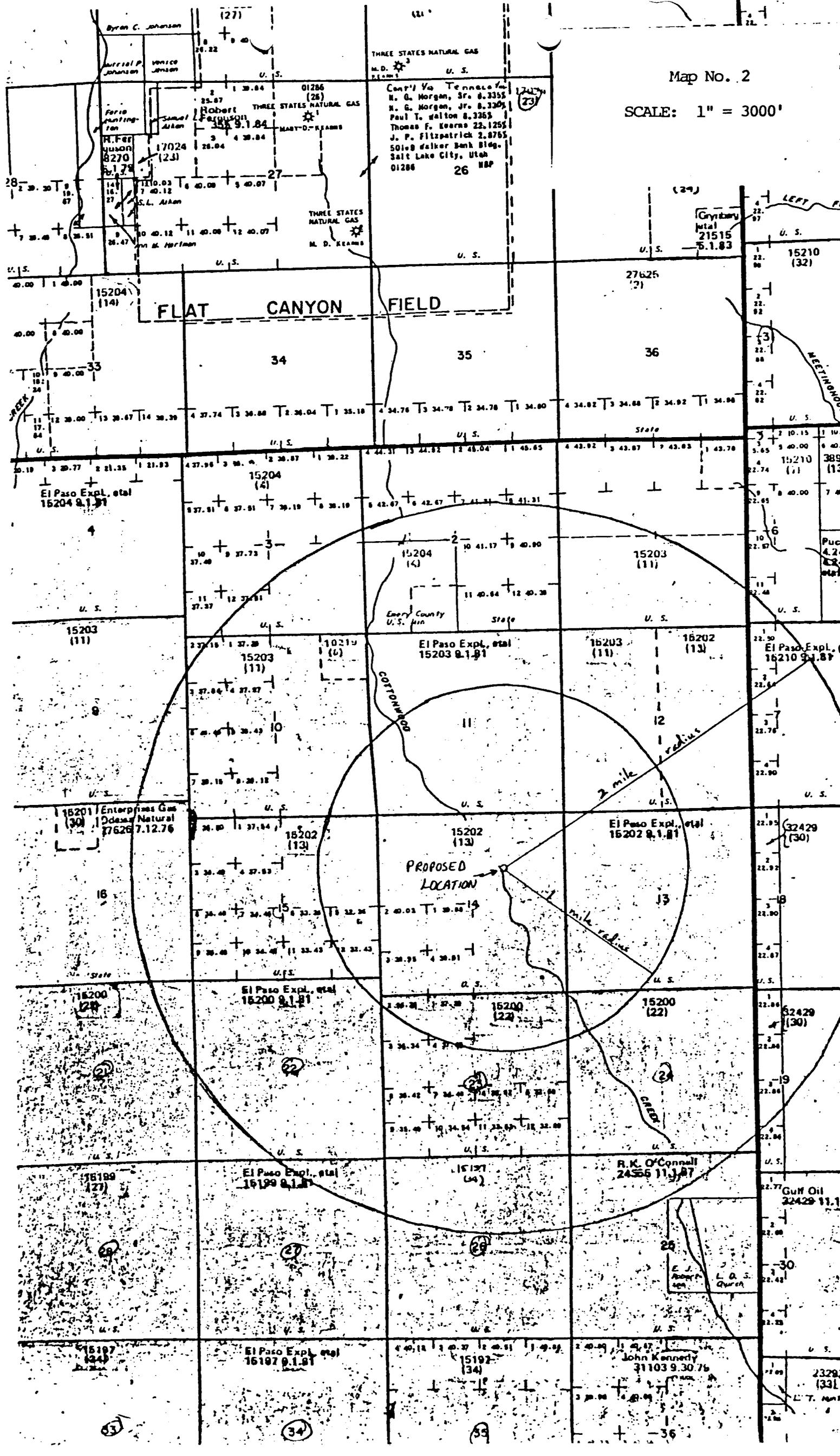
Vortt Exploration Company, Inc.
 Well No. 02176-1
 Section 2, T. 17 S., R. 6 E.
 Emery County, Utah
 Lease # ML-27626

Supplemental Stipulations:

1. Production facilities must be fenced.
2. Production facility equipment must be painted a color to blend with the natural surroundings. Forest Service will determine the color(s) to be used.
3. If large quantities of water are encountered, Vortt will need to submit a revised waste water disposal plan. If waste water becomes a problem, production may need to be suspended until the revised plan is approved.
4. No harassment of wildlife will be permitted.
5. The producing wells will be signed to inform and warn the public of the operations and hazards.
6. After production facilities have been installed, the remainder of the drill pad will be reclaimed as follows:
 - a. The site will be returned to the approximate original contour.
 - b. Top soil will be evenly redistributed on the site.
 - c. The permittee will perform a soils analysis of the site to determine if fertilizer will be applied to assure vegetative reestablishment.
 - d. Seeding of the site shall occur in the fall, between September 15 and November 15. The site will be harrowed after seeding to insure proper burial of the seed.
 - e. The following certified seed mix will be used for reseeding all disturbed areas in Cottonwood Canyon at a rate of 15 lbs./acre;

Common Name	Scientific name	Rate of Application/acre
Western wheatgrass	<u>Agropyron smithii</u>	4 lbs.
Intermediate wheatgrass	<u>Agropyron intermedium</u>	4 lbs.
Crested wheatgrass	<u>Agropyron cristatum</u>	3 lbs.
Smooth brome	<u>Bromus inermis</u>	3 lbs.
Ladak alfalfa	<u>Medicago sativa ladak</u>	½ lb.
Yellow sweetclover	<u>Melilotus officinalis</u>	½ lb.
TOTAL		15 lbs./acre

NOTE: Sites will be considered successfully revegetated when 80% of the adjacent existing cover is established or when ground cover is 60%. 50% of the plant composition must be seeded or other desirable native plant species.





STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

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

May 24, 1982

Vortt Exploration Company, Inc.
P. O. Box 26089
Fort Worth, Texas 76116

Re: Well No. Indian Creek #1
Sec. 2, T. 17S, R. 6E.
Emery County, Utah

Gentlemen:

Our office contacted you on February 19, 1982, requesting that you send in the electric logs for the above referred to well.

According to our records, a "Well Completion Report" filed with this office January 20, 1982, from above referred to well, indicates the following electric logs were run: Dual Induction, Compensated Neutron, and BHC-CAL-GR. As of today's date, this office has not received these logs: Compensated Neutron & BHC-CAL-GR.

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

****You are in violation of the above rule. If we do not receive the above logs within fifteen (15) days, we will turn this file over to the Attorney at the Division of Oil, Gas and Mining for legal action and we will not approve any more applications from your company.**

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS AND MINING

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

Cari Furse
Clerk Typist

RECEIVED

APR 23 1984

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
DIVISION OF OIL GAS & 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 Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
VORIT EXPLORATION COMPANY, INC.

3. ADDRESS OF OPERATOR
P.O. Box 26089, Fort Worth, Texas 76116

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1538.07 FNL & 1240.36 FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: SAME

5. LEASE
ML 27626

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Indian Creek

8. FARM OR LEASE NAME

9. WELL NO.
02176-1

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 2, T17S R6E

12. COUNTY OR PARISH Emery 13. STATE Utah

14. API NO.
43-015-30082

15. ELEVATIONS (SHOW DF, KDB, AND WD)
8537' GL 8551' KB

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

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

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

(other) Rehabilitate well site location and install production equipment.
See sketch for details.

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) Rehabilitate well site.

B) Install the following production equipment.

- 1) Production pak
- 2) 210 BBL tank
- 3) meter run
- 4) dehydrator
- 5) check meter
- 6) methynol pump (Not shown on sketch)
- 7) Associated piping

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

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

SIGNED Larry Watts TITLE PROJECT MANAGER DATE November 7, 1983
LARRY WATTS

(This space for Federal or State office use)

APPROVED BY [Signature] TITLE Associate District Manager DATE 3/16/84
CONDITIONS OF APPROVAL, IF ANY:

Approved RDJ

VORTT EXPLORATION COMPANY, INC.

OIL AND GAS

(817) 244-4201
P. O. Box 26089

2728 LAREDO DRIVE
FORT WORTH, TEXAS 76106

MULTI-POINT SURFACE USE PLAN

INDIAN CREEK UNIT-WELL NO. 14176

1. **EXISTING ROADS** Please refer to Map No. 1 which shows the existing roads. The existing road on Map No. 1 is Forest Route No. 040. It consists of some gravel and some sandy soil as a construction material. It will need to be widened just north of the coal mine operated by Utah Power and Light Company. The road in this area has been partially covered up on the up hill side. The road will be widened to its original size. In the event of production, existing roads will be maintained according to the type of vehicles that will be used. No oil production is anticipated, therefore we expect to have only four-wheel drive or small size vehicles using the road once or twice a week during production. Pit run gravel will be used according to Forest Service requirements (6" thick) where it is deemed necessary. All roads will be graded periodically during the duration of this project and in conjunction with Utah Power and Light Company. In the event of a dry hole, the existing roads will be left in as near a condition as possible in which they were found, except where they have been improved. It will take 15 loads to move the rig in and 15 loads to move the rig out.
2. **PLANNED ACCESS ROADS** Please refer to Map No. 1. The terrain at the wellsite is between 0-5% grade. Any new road will be consistent with the grade of the local terrain if possible. The road surface will not exceed 20' in width. A culvert will be placed at the point of crossing of Cottonwood Creek. The point of crossing shall be determined during the field inspection with the USFS. No turn-outs will be necessary. The drainage design will be adequate to prevent any soil erosion and will consist of 3:1 ditches and possible water bars. There will be no major cuts or fills except where the road crosses Cottonwood Creek. No gates, cattle guards or fence cuts will be necessary on the planned access road. The surfacing material for the planned access road will be 6" of pit run gravel, which will be brought by truck from off the forest boundary. This road will be center line flagged for convenience.
3. **LOCATION OF EXISTING WELLS** Please refer to Map No. 2. There are no water wells within a two mile radius of location. There are no abandoned wells within a two mile radius of location. There are no temporarily abandoned wells within a two mile radius of location. There are no disposal wells within a two mile radius of location. There are no drilling wells within a two mile radius of location. There are no producing wells within a two mile radius of location. There are no shut-in wells within a two mile radius of location.

There are no injection wells within a two mile radius of location. There are no monitoring or observation wells for other resources within a two mile radius of location.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES There are no tank batteries within a one mile radius of location. There are no production facilities within a one mile radius of location. There are no oil gathering lines within a one mile radius of location. There are no gas gathering lines within a one mile radius of location. There are no injection lines within a one mile radius of location. There are no disposal lines within a one mile radius of location. In the event of production of gas, we would propose to lay a gas gathering line as shown on Map No. 1 attached hereto. We do not feel it necessary to go to the expense of having this proposed gas line surveyed unless production is secured. In the event condensate is produced in conjunction with the gas, a 250-300 barrel tank battery would be placed at the wellsite. A separator would also be placed at the wellsite. The location production equipment will be painted according to Forest Service requirements. It is proposed that the gas gathering line would not be buried, allowing for easy removal upon completion of production. The gas line would be buried near roads. The flow line route will be flagged on the ground as required. The location will not exceed 300' square as shown on the attached Plat No. 1. Construction methods and materials will be based on Forest Service regulations, meaning we will use 12 inches of pit run gravel on the location. Cuts and fills will be made as shown on Plat No. 1. The location will be fenced during drilling operations as will any production facilities. Plans for rehabilitation of disturbed areas no longer needed will include filling and releveling all pits when fluids have had adequate time to dry. These areas will be reseeded according to Forest Service requirements.
5. LOCATION AND TYPE OF WATER SUPPLY Due to the fact we will be drilling with air, water usage will be limited. Any water used would be brought by truck or pumped through a plastic hose from Cottonwood Creek. We are in the process of acquiring permission or authorization to use this water from the local irrigation co-op and therefore cannot furnish such at this time. No water wells are to be drilled upon this location.
6. SOURCE OF CONSTRUCTION MATERIALS Pit run gravel will be used to build the location and the entrance to the location. Pit run gravel will be placed on the existing road to a depth of 6" in places where it is needed. The planned new access road, the existing road and the location will be built with pit run gravel that will be brought by truck from sources off the Forest Service property. The gravel will not be brought from either Federal or Indian land. All gravel will be brought to location via the access roads marked on Map No. 1 attached hereto. No other Federal or Indian lands will be used.

7. **METHODS FOR HANDLING WASTE-DISPOSAL** All cuttings, drilling fluids and produced fluids will be placed in the blow pit during drilling operations. All trash will be kept in a fenced pit and removed from the forest periodically. No trash will be left or buried at the location. A port-a-potty will be provided for human waste. The port-a-potty will be removed from the location upon completion of drilling operations. The well site area will be cleaned to the best of our ability once the drilling rig moves out. If large amounts of liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pit will be located on natural drainage; all earthen pits will be so constructed as to prevent leakage from occurring.
8. **ANCILLIARY FACILITIES** No camps or airstrips will be associated with this project except for a small house trailer to be used by drilling and geological consultants.
9. **WELL SITE LAYOUT** Please refer to Plat No. 1. A cross section of the drill pad is not necessary due to the fact the location is on a relatively flat area. The cuts and fills will be minor but are shown on Plat No. 1. All mud tanks, reserve, burn and trash pits, pipe racks, living facilities, and soil material stockpiles will be located as shown on Plat No. 1. Rig orientation, parking areas and access roads will be located as shown on Plat No. 1. All earthen pits will be lined with a polyurethane liner.
10. **PLAN FOR RESTORATION OF SURFACE** After completion of the proposed project, the location will be returned to as near a condition as which it was found. All pits will be backfilled as soon as possible. No contouring will be necessary due to the flat terrain and the fact that it detracts from the natural beauty of the forest. Fluids that will not dry will be removed from the forest. All polluting substances or contaminated materials, such as oil, oil saturated soils, and gravels, will be buried with a minimum of two feet of clean soil as cover or be removed from the forest. Drainage will be reestablished to prevent erosion to the site until vegetation is established. Reseeding operations will be carried out according to Forest Service regulations. Reseeding will be performed as soon as the surface can be made ready. All pits will be fenced until they are ready to be leveled and filled. Any oil left on the pit will be removed from the forest. All rehabilitation operations should be completed within 60 days after the completion of operations, weather permitting.
11. **OTHER INFORMATION** The terrain is a canyon with some open sagebrush flats containing many rocks and some gullies. There is a scattering of timber. Deer and elk have been known to use this area during certain months of the year. Other animals such as rabbits, ground squirrels, mice, cougars and eagles are also present in the general area. The area is used during the summer months by campers and sightseers. For archeological information, please see attached Report No. 1. The soil at the well site is derived from limestone and sandstone. The surface

silts + shales

of all involved lands is Manti La Sal Forest lands. There is some hunting activity in the area during certain times of the year. The closest body of water is Joe's Valley Reservoir, several miles from this location. The closest stream would be Cottonwood Creek to the West, less than 1/2 mile from the location. There are no known occupied dwellings within a 2 mile radius of location, however there is a coal mine in operation South of this location about 3 miles.

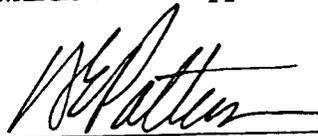
12. OPERATOR'S REPRESENTATIVES

Bill Stockman
P.O. Box 0
Fruita, Colorado 81521
(303) 858-9481

and

H. E. Patterson
P.O. Box 26089
Fort Worth, Texas 76116
(817) 244-4201

13. CERTIFICATION I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in their 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 Vortt Exploration Company, Inc. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.



H. E. Patterson
Land Manager

• HEP/ck

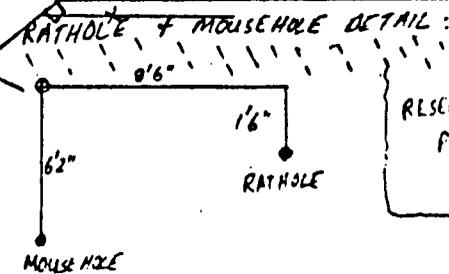
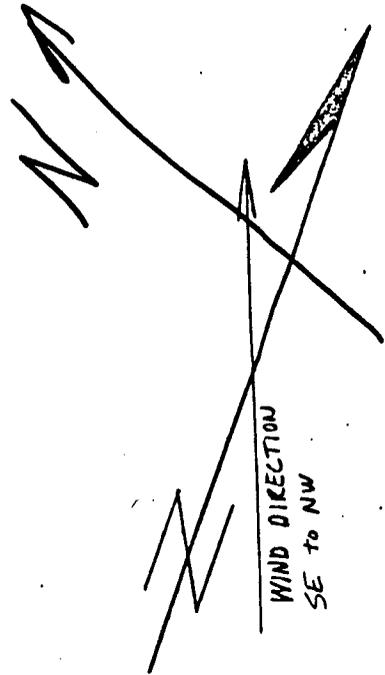
VORTT EXPLORATION COMPANY, INC

LOCATION LAYOUT FOR

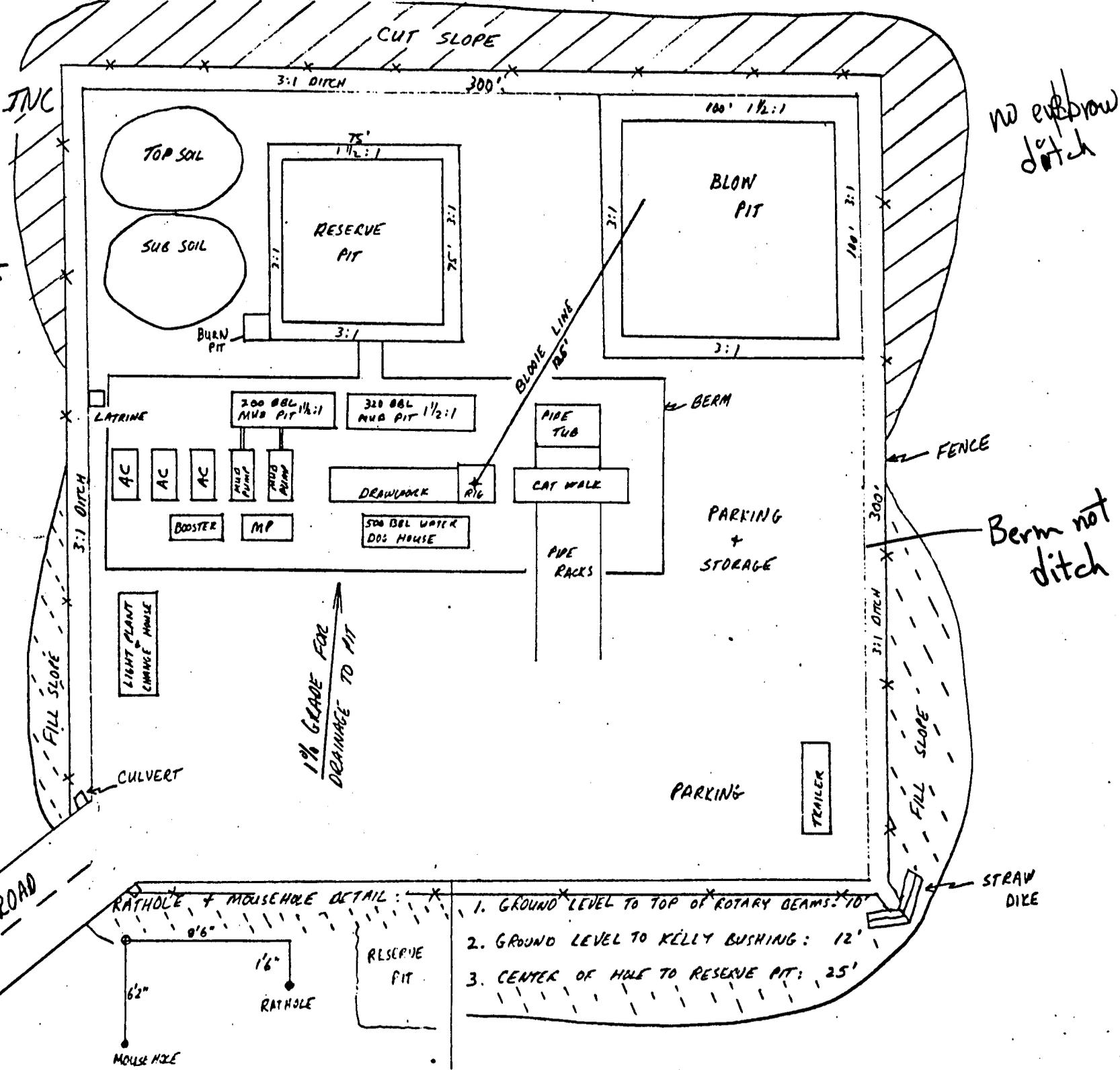
WELL LOCATION IN

NE/4 SEC. 14, T17S, R6E

SCALE: 1" = 50'



1. GROUND LEVEL TO TOP OF ROTARY BEAMS: 10'
2. GROUND LEVEL TO KELLY BUSHING: 12'
3. CENTER OF HOLE TO RESERVE PIT: 25'



PLAT NO. 1

ARCHAEOLOGICAL RECONNAISSANCE OF A DRILL LOCATION
IN COTTONWOOD CREEK, EMERY COUNTY, UTAH

INTRODUCTION

On June 3, 1981, Diana Christensen of Utah Archaeological Research Corporation conducted an archaeological survey for a proposed oil well location in Cottonwood Canyon of Emery County, Utah. The area is located on forest land of the Manti-LaSal National Forest (Ferron District) at Township 17 South, Range 6 East, Section 14, Southwest $\frac{1}{4}$ of the Northeast $\frac{1}{4}$.

The area is a relatively flat sage park on the east side of Cottonwood Creek at the base of the canyon wall. Flora around the drill site is sagebrush and grasses with pinyon and juniper trees nearby on the slope and willow along the creek approximately 200 feet west.

The soils are sandy riverine fill with sandstone on the hillside. The land is eroded by the creek but in good condition.

A file search was conducted at the Ferron District Office which revealed no archaeological sites recorded in the section.

Previous archaeological work in the area includes several projects by AERC including the Grimes Creek Inventory (Hauck, 1977), The Central Coal Project (Hauck, 1979a), Cottonwood Creek Intensive (Hauck, 1979b) and the Trail Mountain Timber Sale conducted by Gillio of the Forest Service in 1975. These projects attest to frequent aboriginal occupation of the area which are mainly in the form of lithic scatters and quarries or rock shelters. Hauck (1977) found all three archaeological sites within a 6700-7000 foot elevation.

The area investigated for this report was at a 7900 foot elevation which places it above that level.

METHODOLOGY

The oil well location was surveyed by the archaeologist in approximately 15 meter transects until a 300-foot square around the center stake was covered.

The day of the survey was clear and cool with partial cloud cover. The time spent on the inventory for this location was approximately 1½ hours.

RESULTS AND RECOMMENDATIONS

No archaeological resources were observed near the proposed well location. It is recommended that clearance be given with the following stipulations:

1. All construction activities will be restricted to those areas examined during the survey.
2. A qualified archaeologist should be notified if construction activities uncover any subterranean cultural remains during the course of the project.



Diana Christensen,
Principal Investigator

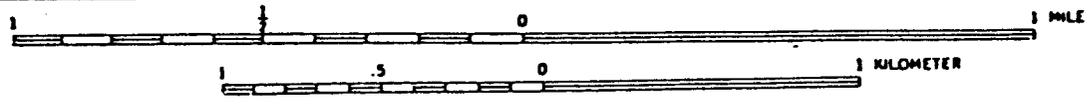
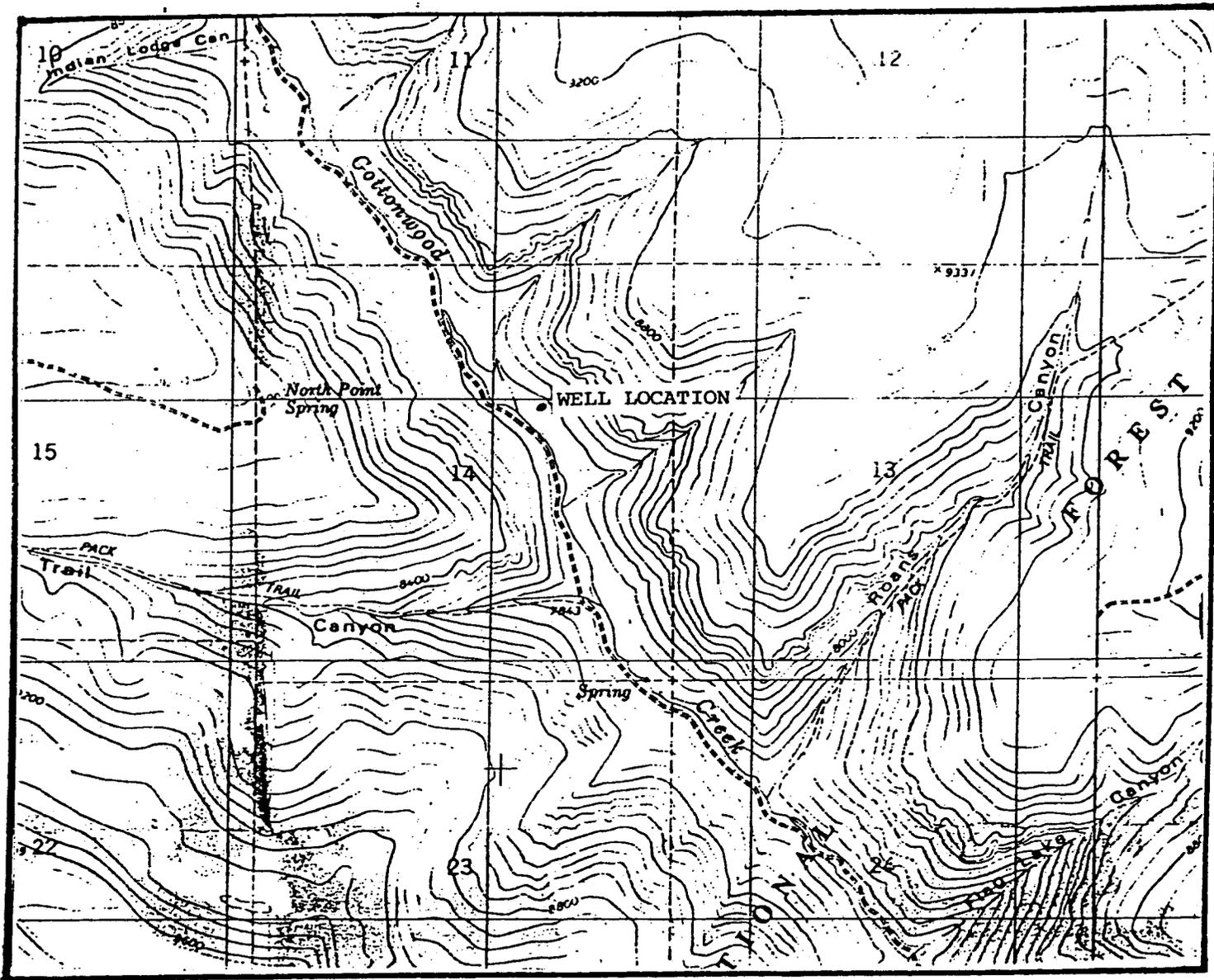
CITED REFERENCES:

- HAUCK, Richard
1977 Archaeological Inventory of Grimes Creek.
AERC ms.
- 1979a Cultural Resource Evaluation in Central
Utah 1977. BLM Cultural Resource Series
No. 3.
- 1979b Preliminary Report on the Cultural Resource
Evaluation and Test Excavations in Cottonwood
Canyon, Emery County, Utah. AERC Utah Power
and Light Report.
- 1980 Archaeological Sample Survey and Cultural
Resource Evaluations of the East Mountain
Locality in Emery County, Utah. AERC Utah
Power and Light report.



UTAH ARCHAEOLOGICAL RESEARCH CORPORATION
 87 E. Center, Suite 300
 Spanish Fork, Utah 84660
 Tel. (801) 798-7061

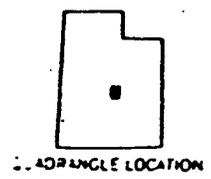
Archaeological Consultants



T 17S R 6E Section 14
 UTM Zone 12 N 482300 E 4354900

County: Emery
 Quad: Mahogany Point 7.5'

Project: UEC-81-2
 Date: June 4, 1981
 Legend: well location •





DRILL LOCATION T17S, R6E, SECTION 14
LOOKING NORTH

VORTT EXPLORATION COMPANY
COTTONWOOD CANYON ROAD #50040

I. INTRODUCTION

A. The Proposal or Need for Action

The proposal is to drill two gas/oil exploration wells in Cottonwood Canyon; one in SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 11, T17S, R6E, SLC B&M, and one in W $\frac{1}{2}$ NW $\frac{1}{2}$ Section 2, T17S, R6E, SLC B&M, to a depth of approximately 6,000 feet. This requires located two areas for the drill sites that can be graded to provide a level pad, 200 feet by 300 feet, and provide access for the drilling and supplying equipment to the drill site. The sites within the Cottonwood Drainage must be at least two miles apart to meet the U.S.G.S. requirements.

Nine potential well sites were identified within the bottom of the drainage. Three sites were identified as most desirable. One of these sites was eliminated because of the separation distance required by U.S.G.S.

The primary access within Cottonwood Canyon is Forest Development Road 50040, the Cottonwood Canyon Road. This is a Forest arterial road. The road presently carries coal exploration, stockmen, private land use, and recreation traffic. In addition, the first half-mile carries coal haul traffic and service traffic.

B. Alternative Formulation Criteria

1. Facilitates completion of the remainder of the transportation system.
2. Meets safety requirements.
3. Meets standards for design.
4. Provides reasonable access to the proposed geological structure.

C. Alternative Evaluation Criteria

1. Meets traffic requirements of the exploration, plus existing traffic use.
2. Prevents damage to resources by lessening the area impacted, reducing erosion, and stream sedimentation.
3. Lowest possible cost of transportation. (Environmental, construction, maintenance, and user costs.)

D. Issues, Concerns, and Opportunities

1. Opportunity to locate and redesign road to compliment or enhance potential oil and gas development operations.
2. Must provide access during exploration or developmental operations for all other traffic.
3. Must coordinate safe use of road through fee land near Trail Mountain Mine and proposed Cottonwood Fan Portal.

II. AFFECTED ENVIRONMENT

The Cottonwood Canyon Road, 50040, is a single-lane road with turnouts for most of its length. The road has been partially widened to a 20-foot or better width below the Forest Boundary and for the first one-half mile, to the Trail Mountain Mine and proposed Cottonwood Fan Portal. The Trail Mountain Mine presently hauls 15 loads of coal per day with future hauls of 48 loads planned. The road is the primary access road for recreation in Upper Joe's Valley. Recreation traffic has ranged from 20 trips per day during early summer months, to 50 trips per day during fall hunting season and should continue to increase.

The road is used as a stock driveway for up to 1,800 cattle and 600 sheep and provides access for mineral exploration. Three coal exploration drill operations are planned for the 1981 operating season. Coal exploration drilling programs should continue for the next five years. The road accesses approximately 85 square miles within the Forest Boundary.

The road is under county jurisdiction from State Highway 29, to the Forest Boundary. While some effort has been made to stabilize the subgrade with gravel, the horizontal and vertical alignment is poor. Narrow sections, poor sight distance, excessive speeds, and dust result in less than safe use.

The first quarter-mile, within the Forest Boundary, has much the same condition as the section from the State Highway to Forest Boundary, with some effort to widen and gravel. The next quarter-mile of road is across fee lands controlled by Trail Mountain Mine and UP&L. Right-of-way through this section is by prescriptive use over the years. This section has not been upgraded and in some areas the established roadway width has recently been lessened by exploration activities at the proposed Cottonwood Fan Portal.

The road at and past the mine site narrows down due to restrictive topography in the canyon for the next mile. After this, the canyon bottom flattens and widens to allow more flexibility in alignment, width, and grades. Two major culvert crossings occur along this section. Most cross-drainage is provided for by dips, rather than culverts. Turnouts are clearly defined only in the first mile beyond the mine sites.

III. ALTERNATIVES

A. Considered but not Evaluated

1. Use existing Forest Development Road #50040 without improvements. This alternative was not evaluated because it would not provide a safe route with the inter-mix of public and hauling traffic.
2. Upgrade to a double-lane standard with four inches crushed gravel as stabilization to provide for potential well development and present traffic. This alternative was not evaluated because the predicted ADT for the road above the mine site would be below 100 ADT.

B. Considered and Evaluated

1. Improve the road from the mine sites to the drill site with the addition of gravel to reduce dust and stabilize surfacing loss.
 - (a) Improve horizontal alignment, vertical alignment, and width on first mile to provide adequate safe sight distance, especially at MP 3.58 to 3.63.
 - (b) Provide and/or mark adequate turnouts.
 - (c) Add culverts at MP 3.58, MP 4.09, and MP 4.85.
 - (d) Spot-widen road at MP 4.80.
2. Spot improvements from mine sites to the drill site with the addition of gravel on weaker subgrades and steeper grades.
 - (a) Improve horizontal alignment, vertical alignment, and width on first mile to provide adequate safe sight distance; especially at MP 3.58 to 3.63.
 - (b) Provide and/or mark adequate turnouts.
 - (c) Add culverts at MP 3.58, MP 4.09, and MP 4.85.
 - (d) Widen road near MP 4.80.
 - (e) Control dust by addition of water or other acceptable stabilizers during heavy use periods.

IV. EFFECTS OF IMPLEMENTATION

The use of the Cottonwood Road from State Highway 29 to the Trail Mountain Mine for exploration drilling with air-mist, to a depth of 6,000 feet, will have short-lived and slight impacts to the road system and adjacent resources when compared to the present coal haul usage. The safe operation of all traffic in this section will be worsened for the short period of move-in and move-out.

The use of the section of road approximately one mile above the Trail Mountain Mine (MP 3.25 to MP 4.33) would result in native surfacing losses, stream sedimentation and potential safety hazards, without road improvements.

Reconstruction is needed to provide adequate width and proper alignment. Spot graveling would both stabilize the roadway, thereby reducing native losses and sedimentation, and reduce accident potential, due to reduced visibility from dust. Increased width and additional turnouts would provide for safe passage of traffic on the single-lane road.

The last section of road, from MP 4.33 to MP 8.20, is in sandy soil, with milder grades, better width and sight distance. Gravel could be used to stabilize the road and control dusting, but the reshaping and refinishing work to provide adequate base, would add more disturbance than the amount of traffic for the exploration traffic, without gravel stabilization. Also, the cost of stabilizing the road with gravel is high (\$72,000) compared with the potential environmental damage. Gravel haul would require 750 loads carried over the system. Dust control, by watering and construction of adequate turnouts, to reduce the accident potential, should be the first considerations. Also, if development of the well occurs and production is high, a double-lane facility could be required, instead of the existing single-lane facility with turnouts needed for exploration. Any major investment in gravel on the single-lane road would then be lost.

V. EVALUATION OF ALTERNATIVES

Alternative (2) provides for the least movement of traffic, least reconstruction and impacting of fill and cuts, and the least total cost of transportation, while providing a safe, unstable facility for the intended traffic.

Alternative (1) provides for the temporary upgrading of the remainder of the transportation system, but would do so at a lower standard than foreseen by present planning. If developmental drilling results, the road could be inadequate the first year. If no development results, traffic volumes to justify the initial investment for gravel may not occur for 10 years.

VI. SELECTION OF PREFERRED ALTERNATIVE

The Preferred Alternative is to use the section of the road from the Forest Boundary to the Trail Mountain Mine (MP 0.00 to MP 3.23) with improvement to narrow sections being coordinated with the UP&L Cottonwood Fan Portal activities. Extensive improvements past the mine site, from MP 3.23 to MP 4.33, will be required prior to use, to improve grades, sight distance, and turnouts along with spot stabilization. The last section of road, from MP 4.33 to MP 8.20, will require spot drainage, and widening and turnouts. Maintenance and dust control, with water truck and grader, will be required throughout the exploration drilling process.

Culvert Cleaning, Additions, or Relaying

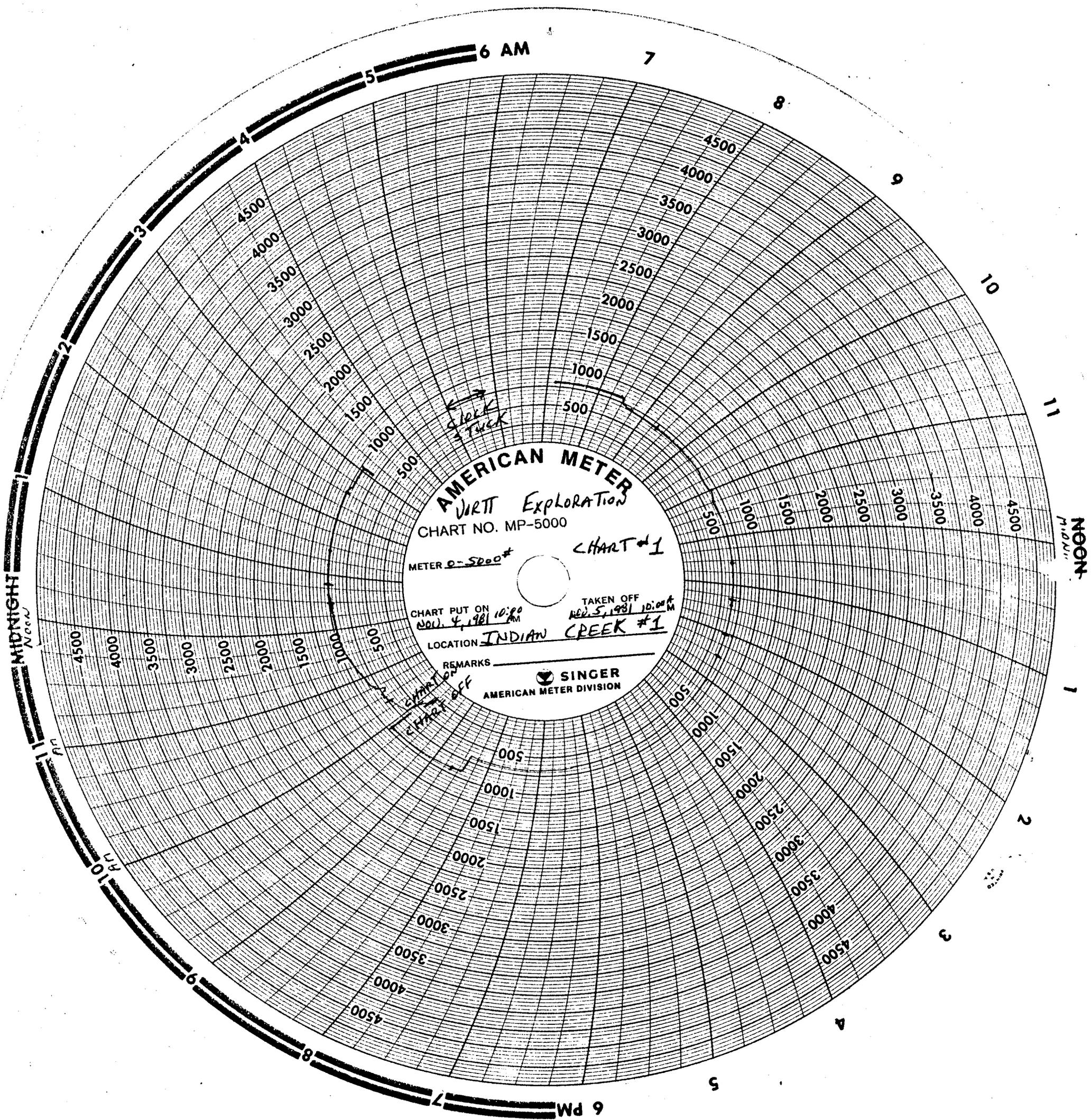
- MP 3.53 - Clean existing culvert.
- MP 3.58 - Replace existing culvert and build up narrow fill shoulder and add riprap at outlet.
- MP 3.87 - Clean existing culvert, add riprap at outlet.
- MP 3.91 - Clean existing culvert.
- MP 4.09 - Add new 18" culvert.
- MP 4.40 - Improve existing water bar.
- MP 4.85 - Add new 24" culvert.
- MP 5.39 - Remove existing water bar.

Spot Gravel

- MP 4.70 to MP 4.80 - Spot gravel pitch from 100 feet before cattle guard through narrow area to be reconstructed.
- MP 4.35 to MP 4.55 - Spot gravel pitch.
- MP 3.85 to MP 3.99 - Spot gravel pitch.
- MP 3.59 to MP 3.63 - Spot gravel pitch on "S" curve through area to be reconstructed.

Reconstruction Sections

- MP 3.58 to MP 3.63 - Reconstruct section to remove sharp curvature, excessive grade and narrow section.
- MP 4.77 to MP 4.85 - Reconstruct section to remove narrow section and reduce grades.



AMERICAN METER

VIRT Exploration

CHART NO. MP-5000

METER # 5200*

CHART # 1

CHART PUT ON
NOV. 4, 1981 10:00 AM

TAKEN OFF
NOV. 5, 1981 10:00 AM

LOCATION INDIAN CREEK #1

REMARKS

SINGER
AMERICAN METER DIVISION

START ON
START OFF

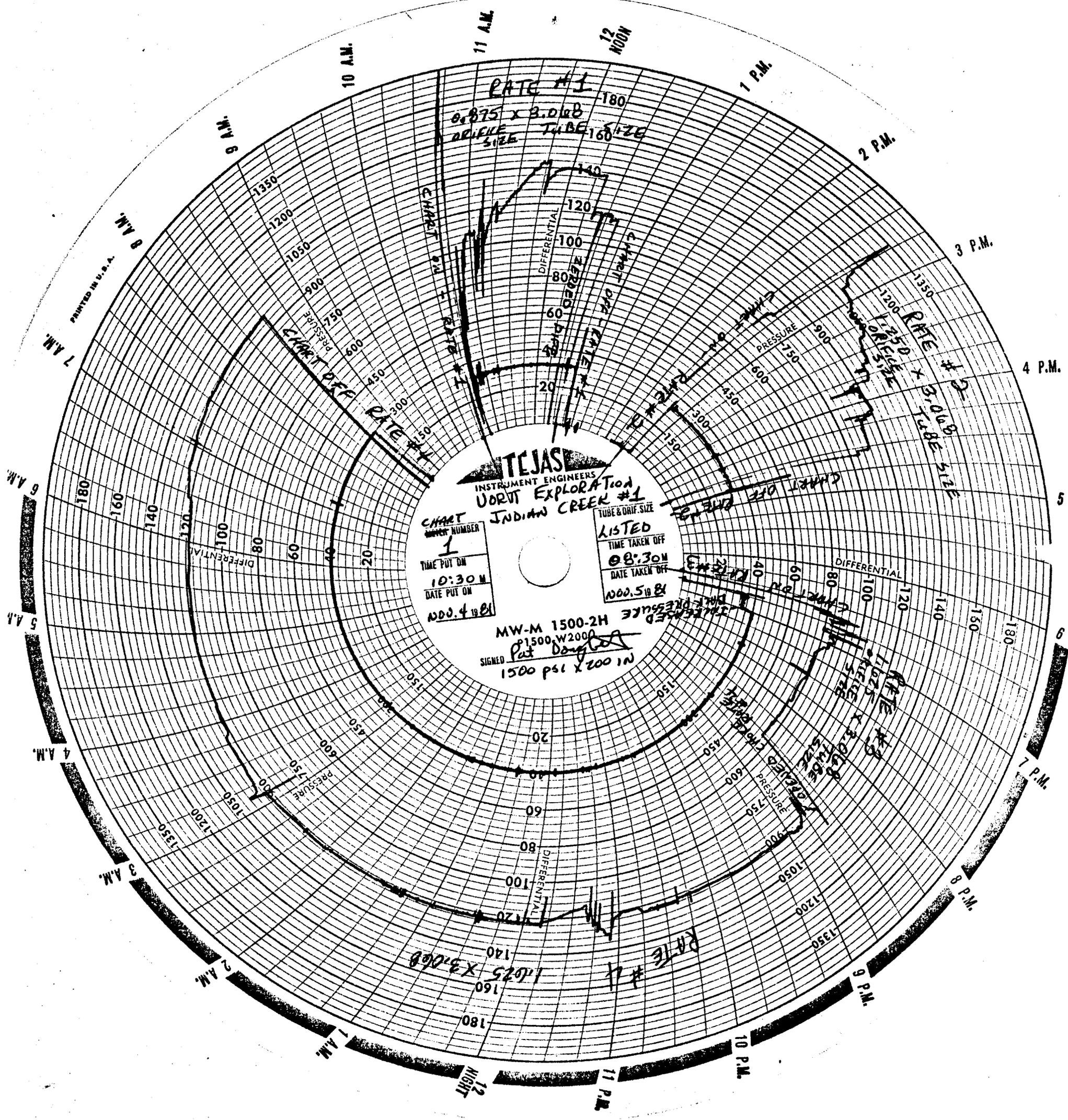
START
TRUCK

MIDNIGHT
NOON

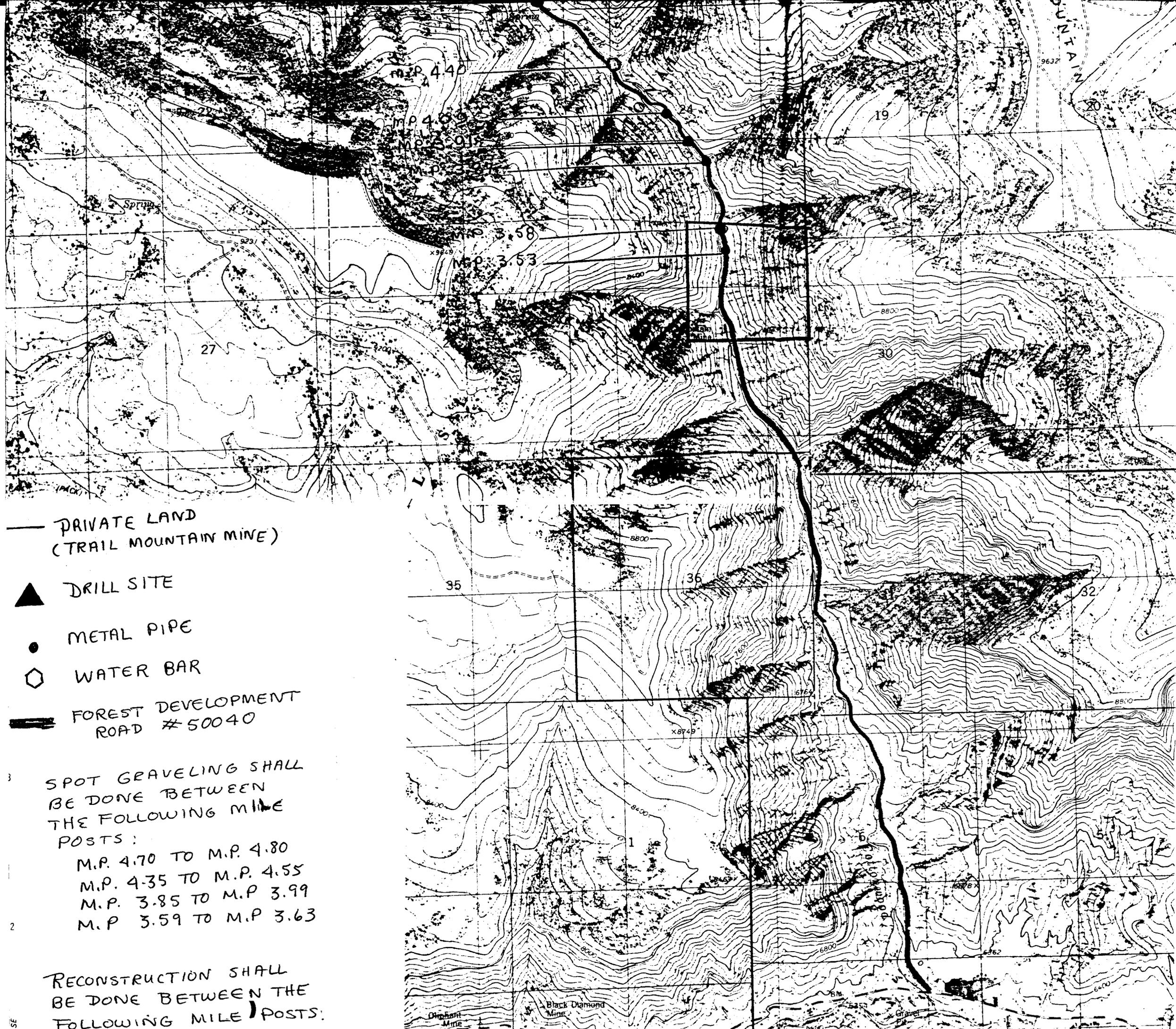
NOON
MIDNIGHT

6 PM

6 AM



PRINTED IN U.S.A.



— PRIVATE LAND
(TRAIL MOUNTAIN MINE)

▲ DRILL SITE

● METAL PIPE

◊ WATER BAR

▬ FOREST DEVELOPMENT
ROAD # 50040

SPOT GRAVELING SHALL
BE DONE BETWEEN
THE FOLLOWING MILE
POSTS :

- M.P. 4.70 TO M.P. 4.80
- M.P. 4.35 TO M.P. 4.55
- M.P. 3.85 TO M.P. 3.99
- M.P. 3.59 TO M.P. 3.63

RECONSTRUCTION SHALL
BE DONE BETWEEN THE
FOLLOWING MILE POSTS:

- M.P. 3.58 TO M.P. 3.63
- M.P. 4.77 TO M.P. 4.85

FLUID PRODUCTION

SHEET No. 4 JOB No. 173

RUN #	TIME ON	TIME OFF	GRAVITY	FLOW RATE
4	20:31 NOV. 4, 1981	08:30 NOV. 5, 1981		3.36 MMCF/D @ 24:00

TIME	METHANOL TANK No. 1 SIZE 55 GALLONS								TEMP. °F	TANK No. SIZE								
	CONDENSATE		WATER		PROD.		SHIPPING			CONDENSATE		WATER		PROD.		SHIPPING		
	Ins.	Bbls.	Ins.	Bbls.	COND.	WATER	COND.	WATER		Ins.	Bbls.	Ins.	Bbls.	COND.	WATER	COND.	WATER	
	GALLONS		GALLONS		Bbls.	Bbls.	Bbls.	Bbls.		GALLONS		GALLONS		Bbls.	Bbls.	Bbls.	Bbls.	
20:30	0.0	0.0	0.0	0.0														
20:45	23.0	38.66	0.0	0.0	38.66	0.0	38.66	0.0	30									
21:00	26.0	43.71	0.0	0.0	43.71	0.0	43.71	0.0	30									
21:15	27.0	45.39	0.0	0.0	45.39	0.0	45.39	0.0	30									
21:30	20.0	33.62	0.0	0.0	33.62	0.0	33.62	0.0	30									
21:45	19.0	31.94	0.0	0.0	31.94	0.0	31.94	0.0	30									
22:00	19.0	31.94	0.0	0.0	0.0	0.0	0.0	0.0	30									
22:15	19.0	31.94	0.0	0.0	0.0	0.0	0.0	0.0	30									
22:30	18.0	30.26	0.0	0.0	30.26	0.0	30.26	0.0	30									
22:45	14.0	23.53	0.0	0.0	23.53	0.0	23.53	0.0	30									
23:00	5.0	8.40	0.0	0.0	8.40	0.0	8.40	0.0	30									
23:30	15.0	25.21	0.0	0.0	25.21	0.0	25.21	0.0	30									
24:00	23.0	38.66	0.0	0.0	38.66	0.0	38.66	0.0	30									
	0.0	0.0	0.0	0.0														
TOTALS					319.38	0.0	319.38	0.0		TOTALS								

REMARKS:

	TANK # 1		TANK #	
	COND.	WATER	COND.	WATER
OPENING GAUGE	0.0	0.0		
PLUS PRODUCTION	319.38	0.0		
TOTALS	319.38	0.0		
MINUS SHIPPING	319.38	0.0		
CLOSING GAUGE	0.0	0.0		

TEST DATA SHEET

SHEET No. 1 JOB No. 173

HIGH STAGE ORIFICE & METER RUN SIZE <u>0.875x3.068</u>	LOW STAGE ORIFICE & METER RUN SIZE _____
FLOWING: TUBING <input checked="" type="checkbox"/> ANNULUS <input type="checkbox"/>	H.S. METER SIZE <u>1500 PSI</u> x <u>200 IN</u> CALIBRATED @ <u>X</u> HRS. _____ L.S. METER SIZE _____ x _____ CALIBRATED @ _____ HRS. _____

TIME	AMB. TEMP	WELLHEAD READINGS				HEATER	HIGH STAGE SEPARATOR READINGS					LOW STAGE SEPARATOR READINGS						
		CHOKE SIZE	FLOW TEMP.	TUBING PRESS.	ANNULUS PRESS.		BATH TEMP.	STATIC PRESS.		DIFF.	M.R. TEMP.	SEP. TEMP.	FLOW RATE	STATIC PRESS.	DIFF.	M.R. TEMP.	SEP. TEMP.	FLOW RATE
								DEAD WT.	METER									
°F	IN.	°F	PSIG	PSIG	°F	PSIG	PSIG	IN.	°F	°F	MMCF/D	PSIG	IN.	°F	°F	MMCF/D		
		<u>.750</u>																
<u>10:30</u>	<u>34</u>	<u>14/64</u>	<u>46</u>	<u>807</u>	<u>392</u>	<u>SHUT</u>	<u>IN PRESSURE OPENED WELL THROUGH TEST UNIT</u>											
<u>10:35</u>	<u>35</u>		<u>46</u>	<u>712</u>	<u>250</u>													
<u>10:40</u>	<u>36</u>		<u>44</u>	<u>830</u>	<u>392</u>													
<u>10:45</u>	<u>36</u>		<u>44</u>	<u>865</u>	<u>392</u>	<u>150</u>		<u>240</u>	<u>100</u>	<u>74</u>	<u>75</u>	<u>.735</u>						
<u>10:50</u>	<u>36</u>		<u>44</u>	<u>870</u>	<u>391</u>													
<u>10:55</u>	<u>36</u>		<u>44</u>	<u>892</u>	<u>391</u>													
<u>11:00</u>	<u>36</u>		<u>44</u>	<u>897</u>	<u>390</u>	<u>156</u>		<u>240</u>	<u>102</u>	<u>76</u>	<u>77</u>	<u>.740</u>						
<u>11:15</u>	<u>38</u>		<u>44</u>	<u>942</u>	<u>387</u>	<u>170</u>		<u>240</u>	<u>120</u>	<u>80</u>	<u>81</u>	<u>.795</u>						
<u>11:30</u>	<u>39</u>		<u>44</u>	<u>977</u>	<u>385</u>	<u>176</u>		<u>240</u>	<u>137</u>	<u>82</u>	<u>83</u>	<u>.855</u>						
<u>11:45</u>	<u>42</u>		<u>46</u>	<u>985</u>	<u>385</u>	<u>182</u>		<u>240</u>	<u>138</u>	<u>88</u>	<u>90</u>	<u>.845</u>						
<u>12:00</u>	<u>44</u>		<u>48</u>	<u>992</u>	<u>382</u>	<u>172</u>		<u>240</u>	<u>140</u>	<u>83</u>	<u>85</u>	<u>.860</u>						
<u>12:15</u>	<u>44</u>		<u>48</u>	<u>991</u>	<u>382</u>	<u>169</u>		<u>240</u>	<u>118</u>	<u>83</u>	<u>85</u>	<u>.782</u>						
<u>12:30</u>	<u>44</u>		<u>48</u>	<u>1000</u>	<u>382</u>	<u>171</u>		<u>240</u>	<u>115</u>	<u>85</u>	<u>87</u>	<u>.780</u>						
				<u>END OF FIRST RATE</u>														
<u>12:35</u>	<u>44</u>			<u>1012</u>	<u>385</u>													
<u>12:40</u>	<u>44</u>			<u>1017</u>	<u>384</u>													
<u>12:45</u>	<u>44</u>			<u>1019</u>	<u>385</u>													
<u>12:50</u>	<u>44</u>			<u>1019</u>	<u>385</u>													
<u>12:55</u>	<u>44</u>			<u>1019</u>	<u>389</u>													
<u>13:00</u>	<u>44</u>			<u>1018</u>	<u>390</u>													
<u>13:15</u>	<u>44</u>			<u>1018</u>	<u>392</u>													
<u>13:30</u>	<u>44</u>			<u>1019</u>	<u>395</u>													
<u>13:45</u>	<u>44</u>			<u>1019</u>	<u>395</u>													
<u>14:00</u>	<u>44</u>			<u>1020</u>	<u>395</u>													
<u>14:15</u>	<u>43</u>			<u>1020</u>	<u>397</u>													
<u>14:30</u>	<u>40</u>			<u>1021</u>	<u>398</u>													

REMARKS: _____

TEST DATA SHEET

SHEET No. 2 JOB No. 173

HIGH STAGE ORIFICE & METER RUN SIZE 1.250X3.068 LOW STAGE ORIFICE & METER RUN SIZE _____
FLOWING: TUBING ANNULUS H.S. METER SIZE 1500 PSI x 200 IN CALIBRATED @ _____ HRS.
L.S. METER SIZE _____ x _____ CALIBRATED @ _____ HRS.

TIME	AMB. TEMP °F	WELLHEAD READINGS				HEATER BATH TEMP. °F	HIGH STAGE SEPARATOR READINGS						LOW STAGE SEPARATOR READINGS				
		CHOKE SIZE IN.	FLOW TEMP. °F	TUBING PRESS. PSIG	ANNULUS PRESS. PSIG		STATIC PRESS.		DIFF. IN.	M.R. TEMP. °F	SEP. TEMP °F	FLOW RATE MMCF/D	STATIC PRESS. PSIG	DIFF. IN.	M.R. TEMP. °F	SEP. TEMP °F	FLOW RATE MMCF/D
							DEAD WT. PSIG	METER PSIG									
		.750															
14:30	40	16/64		1021	398	SHUT IN TUBING & CASING PRESSURES											
14:31						OPENED WELL THROUGH TEST UNIT											
14:35	41		47	992	400												
14:40	41		46	972	401												
14:45	41		48	971	405	224		250	149	86	87	1.92					
14:50	41		48	972	406												
14:55	41		49	970	407												
15:00	41		49	969	409	205		250	140	68	69	1.89					
15:15	42		49	960	411	194		250	139	71	72	1.89					
15:30	39		49	951	408	192		250	132	70	71	1.86					
15:45	39		50	965	411	190		250	112	71	72	1.71					
16:00	39		50	947	414	188		250	120	67	68	1.76					
16:15	40		50	949	407	188		250	112	68	69	1.72					
16:30	39		50	948	403	190		250	105	68	69	1.64					
				END OF	SECOND	RATE											
16:35	38			1006	395												
16:40	36			1008	397												
16:45	35			1009	397												
16:50	33			1010	430												
16:55	33			1011	429												
17:00	33			1012	437												
17:15	31			1014	431												
17:30	30			1014	439												
17:45	29			1015	435												
18:00	28			1016	437												
18:15	28			1016	440												
18:30	27			1017	443												

REMARKS: _____

TEST DATA SHEET

SHEET No. 4 JOB No. 173

HIGH STAGE ORIFICE & METER RUN SIZE <u>1.625X3.068</u>	LOW STAGE ORIFICE & METER RUN SIZE _____
FLOWING: TUBING <input checked="" type="checkbox"/> ANNULUS <input type="checkbox"/>	H.S. METER SIZE <u>1500 PSI</u> x <u>200 IN.</u> CALIBRATED @ _____ HRS. L.S. METER SIZE _____ x _____ CALIBRATED @ _____ HRS.

TIME	AMB. TEMP °F	WELLHEAD READINGS				HEATER BATH TEMP. °F	HIGH STAGE SEPARATOR READINGS					LOW STAGE SEPARATOR READINGS					
		CHOKE SIZE IN.	FLOW TEMP. °F	TUBING PRESS. PSIG	ANNULUS PRESS. PSIG		STATIC PRESS.		DIFF. IN.	M.R. TEMP. °F	SEP. TEMP. °F	FLOW RATE MMCF/D	STATIC PRESS. PSIG	DIFF. IN.	M.R. TEMP. °F	SEP. TEMP. °F	FLOW RATE MMCF/D
							DEAD WT. PSIG	METER PSIG									
		<u>750</u>															
20:31		<u>26/64</u>	<u>NO</u>	<u>SHUT IN</u>	<u>OPENED</u>	<u>CHOKE</u>	<u>FOR EXTENDED RATE</u>										
20:35	30		52	775	515												
20:40	30		52	755	515												
20:45	30	<u>27/64</u>	52	742	522	182		300	116	54	55	3.22					
20:50	29		52	728	523												
20:55	29		52	729	530												
21:00	29		52	725	532	180		300	123	54	55	3.37					
21:15	29		52	717	540	182		300	123	54	55	3.37					
21:30	29		52	714	545	183		300	123	54	55	3.37					
21:45	29		51	712	550	183		300	123	55	56	3.37					
22:00	29		51	710	557	182		300	122	55	56	3.34					
22:15	29		50	710	565	184		300	122	56	57	3.34					
22:30	29		50	709	575	187		300	123	56	57	3.37					
23:00	29		48	685	580	194		300	122	59	60	3.34					
23:30	29		48	665	585	196		300	119	60	62	3.25					
24:00	29		48	685	589	198		300	123	59	61	3.36					

REMARKS: 20:45 OPENED CHOKE TO 27/64

TEST DATA SHEET

SHEET No. 5 JOB No. 173

HIGH STAGE ORIFICE & METER RUN SIZE 1.625X3.068 LOW STAGE ORIFICE & METER RUN SIZE _____
FLOWING: TUBING ANNULUS H.S. METER SIZE 1500PSI x 200 IN CALIBRATED @ _____ HRS.
L.S. METER SIZE _____ x _____ CALIBRATED @ _____ HRS.

TIME	AMB. TEMP °F	WELLHEAD READINGS				HEATER BATH TEMP. °F	HIGH STAGE SEPARATOR READINGS					LOW STAGE SEPARATOR READINGS						
		CHOKE SIZE IN.	FLOW TEMP. °F	TUBING PRESS. PSIG	ANNULUS PRESS. PSIG		STATIC PRESS.		DIFF. IN.	M.R. TEMP. °F	SEP. TEMP °F	FLOW RATE MMCF/D	STATIC PRESS. PSIG	DIFF. IN.	M.R. TEMP. °F	SEP. TEMP °F	FLOW RATE MMCF/D	
							DEAD WT. PSIG	METER PSIG										
		<u>.750</u>																
00:30	29	<u>27/64</u>	48	682	792	200		300	123	60	61	3.33						
01:00	29		48	680	792	199		300	123	60	61	3.33						
01:30	28		48	677	797	199		300	122	61	62	3.31						
02:00	28		48	677	805	199	<u>302</u>	300	122	61	62	3.31						
02:30	28		48	675	805	199		300	122	61	62	3.31						
03:00	26		48	679	805	199		300	123	61	62	3.33						
03:30	26		48	682	804	196		300	124	61	62	3.33						
04:00	26		49	677	802	199		300	124	61	62	3.29						
04:30	26		49	676	800	199		300	120	61	62	3.28						
05:00	26		49	676	800	199		300	120	61	62	3.28						
05:30	26		50	674	800	199		300	119	62	63	3.25						
06:00	26		50	677	797	196		300	119	62	63	3.25						
06:30	26		50	695	797	198		300	122	62	63	3.31						
07:00	26		52	707	795	198		300	124	62	63	3.33						
07:30	26		52	707	792	197		300	127	62	63	3.35						
08:00	27		52	707	792	197		300	127	62	63	3.35						
08:30	28		52	707	792	196		300	127	63	64	3.35						
			END OF FOURTH RATE															

REMARKS: 07:00 HIGH PRESSURE GAS SAMPLE TAKEN #1 - (46) WATER CONDENSATE TAKEN #1
07:50 DUPLICATE H.P. GAS SAMPLE TAKEN #2 - (40)
08:00 HIGH PRESSURE CONDENSATE & DUPLICATE TAKEN # 1 - (55) #2 (19)
08:00 DUPLICATE WATER & CONDENSATE SAMPLES TAKEN # 2
08:15 WELLHEAD SAMPLE & DUPLICATE TAKEN # 1 & 2

DELSCO NORTHWEST

Sub-Surface Pressure Test

Field INDIAN CREEK County EMERY State UTAH
 Company VORTT EXPL. CO.
 Lease INDIAN CREEK Well No. 1
 Date 11/4/81-11/7/81 Time 9:15 AM. Status of Well SHUT IN
 Pay _____ Perforations 5634-50 Datum 5642

Depth Feet	Pressure lbs. sq. in.	Time Interval From Test Start At (in hours)	Gradient lbs./ft.
			Casing Press 880 psi. After Test
			Tubing Press 1020 psi. After Test
			Oil Level _____
			Water Level _____
			Hours - Shut In _____ Flowing _____
			Temp. 1120 At 5642
			Elevation - D.F. _____ Ground _____
			Pressure This Test 1202 psi.
			Last Test Date 10/18/81
			Press Last Test 1117 psi.
			B.H.P. Change +85 psi.
			Loss/Day _____
			Choke Size _____
			Oil Bbls./day _____
			Water Bbls./day _____
			Total Bbls./day _____
			Orifice and Line _____
			Static and Differential _____
			Gas Sp. Gr. _____
			Cu. ft./day _____
			GOR _____

Instrument	Number	Calibration Date
Amerada	0-3000 psi.	5/28/81

Calculations and Remarks

72 hr. 4 Point Test
 Bombs on bottom @ 9:15 am. 11/4/81
 Bombs off bottom @ 9:15 am. 11/7/81

Operator on Job Larry Cash

Test Calculated By George Landry

Witnesses: Company Jim Davis

State Utah

DELSCO NORTHWEST

72 hr. 4 Point Test

0-3000 psi.

Depth Feet	Pressure lbs. sq. in.	Time Interval From Test Start at (in hours)
5642	1217	9:15 am. 11/4/81
	1217	9:30
	1217	9:45
	1217	10:00
	1214	10:15
	1214	10:45
	1211	11:15
	1209	11:45
	1213	12:15 pm.
	1213	12:45
	1213	1:15
	1213	1:45
	1205	2:15
	1200	2:45
	1195	3:15
	1194	3:45
	1203	4:15
	1206	4:45
	1209	5:15
	1208	5:45
	1189	6:15
	1180	6:45
	1177	7:15
	1172	7:45
	1169	8:15
	1155	8:45
	1149	9:15
	1129	12:15 am. 11/5/81
	1114	3:15
	1100	6:15
	1145	9:15
	1174	3:15 pm.
	1186	9:15
	1192	3:15 am. 11/6/81

081824
RECEIVED

AUG 08 1986

RULE I-9

**DIVISION OF OIL
GAS & MINING**

NOTICE OF TRANSFER OF OWNERSHIP

Classification of Well Transferred: Gas Well Disposal Well Enhanced Recovery Injection Well

Name of Present Operator Vortt Exploration Company, Inc. 43.015.30082

Address P. O. Box 26089, Ft. Worth, TX 76116

Well Being Transferred:

Name: Indian Creek #1

Location: Sec. 2 SW/4 NW/4 Twp. 17S Rng. 6E County Emery

Order No. Authorizing Injection N/A Date _____

Zone Injected Into: N/A

Effective Date of Transfer February 1, 1986

Signature

Date

Name of New Operator Southland Royalty Company

Address P. O. Box 1855, Billings, MT 59102-1855

W.G. Brewer
Signature of New Operator PRODUCTION SUPERINTENDENT

August 6, 1986
Date

FOR DOGM USE ONLY

It is acknowledged by the Division of Oil, Gas, and Mining that _____
is the new operator of the above-named well and may:

- 1. continue to inject fluids as authorized by Order No. _____
- 2. not inject fluids until after Notice, Hearing, and Approval by the Division

Signature _____ Date _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLIC.
(Other instructions on 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.)

OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
MERIDIAN OIL INC.

3. ADDRESS OF OPERATOR
P. O. Box 1855, Billings, MT 59109

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

DIVISION OF
SNNW (1538' FNL - 1240' FWL) OIL, GAS & MINING

14. PERMIT NO.
43-015-30082

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
.8551'

5. LEASE DESIGNATION AND SERIAL NO.

ML-27626

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

East Mountain Unit

8. FARM OR LEASE NAME

9. WELL NO.

02176-1

10. FIELD AND POOL, OR WILDCAT

Indian Creek

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

Section 2, T17S, R6E

12. COUNTY OR PARISH

Emery

13. STATE

Utah

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

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

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

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

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

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

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

Effective August 21, 1987, Meridian Oil Inc. is Operator of East Mountain Unit.

*3/3/89
This is not an operator name change per Bill Mitchell
of Meridian. Adelle*

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

SIGNED W. J. Bracco TITLE Production Superintendent DATE 2/24/89

(This space for Federal or State office use)

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

BLM (3), UOG&M (3), BMR, DEO, File

*See Instructions on Reverse Side

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
C	11075	2585	43-015-30231	E MOUNTAIN UNIT 32-23	SWNE	23	16S	6E	EMERY	9-16-89	1-2-96
WELL 1 COMMENTS: *EAST MOUNTAIN UNIT/FERRON P.A. EFF 10-15-87 (INDIAN CREEK 1,3 & 5 FR SOUTHLAND ROYALTY TO MERIDIAN OIL EFF 1-2-96/UNIT WELLS "FERRON A P.A./ENTITY 2585")											
C	10789	2585	43-015-30230	13-35 EMU HRE FEDERAL	NWSW	35	16S	6E	EMERY	9-11-87	1-2-96
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

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

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

(3/89)

L. CORDOVA (DOGM)

Signature

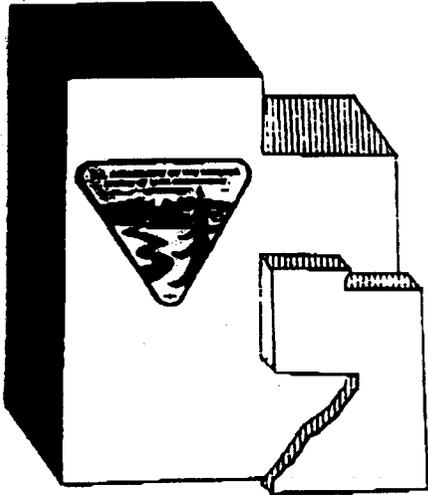
ADMIN. ANALYST

1-16-96

Title

Date

Phone No. ()



**FAX TRANSMITTAL
MOAB DISTRICT OFFICE**

TO: Lisha

FROM: Urbene

SUBJECT: Meridian Oil Inc.
operator of East Mountain

NUMBER OF PAGES: 3
(Including Cover Sheet)

DATE: 2/6/96

TIME: 1 P.M.

FAX MACHINE NO.: _____

COMMENTS: *call me if you have
questions, of course. Thanks!
Urbene*

Bureau of Land Management
Branch of Fluid Minerals (U-922)
324 South State Street
Salt Lake City, Utah 84111-2303

RECEIVED
MOAB DISTRICT OFFICE

1988 FEB 25 AM 9:08

BLM DISTRICT OFFICE
BUREAU OF LAND MANAGEMENT
3160
(U-922)

February 22, 1988

Meridian Oil Co.
5619 D.T.C. Parkway
Englewood, Colorado 80111

Gentlemen:

The Initial Ferron "A" Participating Area - East Mountain Unit is hereby approved effective as of October 15, 1987, pursuant to Section 11 of the East Mountain Unit Agreement, Emery County, Utah.

The application establishes an Initial Ferron "A" Participating Area of 344.72 acres, and is based upon the completion of unit well No. 13-35 in the NW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 35, T. 16 S., R. 6 E., unit tract No. 22, Federal lease No. U-56933 which had an initial production of 2,041.4 MCFPD from the Ferron Formation on October 15, 1987.

The First Revision to the Ferron "A" Participating Area - East Mountain Unit is hereby approved effective as of October 15, 1987, pursuant to Sections 11 and 33 of the East Mountain Unit Agreement.

The First Revision of the Ferron "A" Participating Area results in the addition of 892.75 acres to the participating area for a total of 1,237.48 acres. The Revision is based on the existing Ferron Participating Area, Indian Creek Unit.

* In accordance with Section 11 and 33 of the East Mountain Unit Agreement, the Indian Creek Unit No. 14-08-0001-19628 automatically terminated October 15, 1987, and the lands within the associated participating area are now incorporated and subject to the East Mountain Unit Agreement.

Copies of the approved requests are being distributed to the appropriate Federal agencies and one copy is returned herewith. Please advise all interested parties of the establishment and First Revision of the Ferron "A" Participating Area - East Mountain Unit and the effective date.

Sincerely,

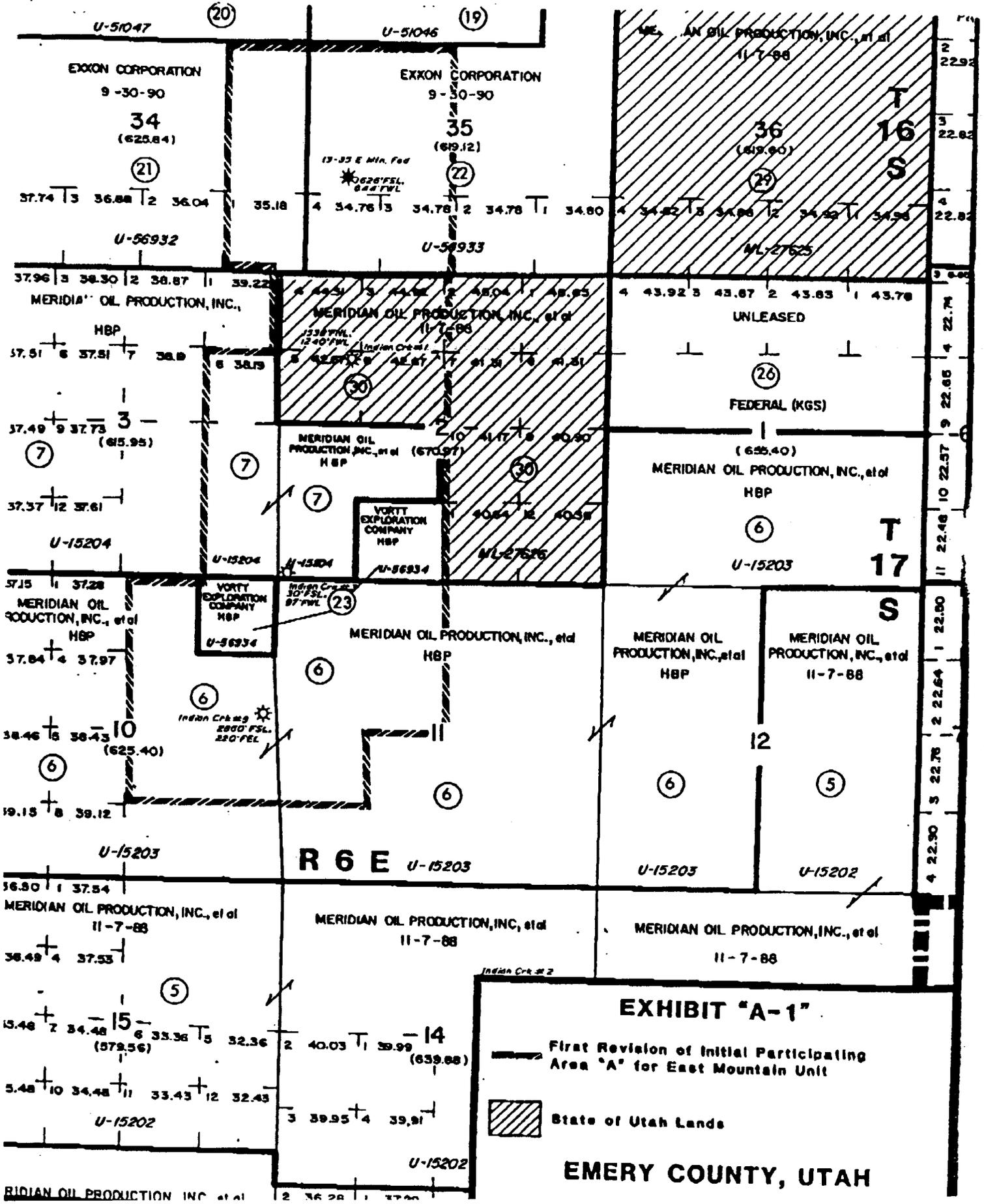
(Orig. Sgd.) R. A. Henricks

Robert A. Henricks
Chief, Branch of Fluid Minerals

MA
bcc: DM Moab
East Mountain Unit File
Agr. Sec. Chron.
U-942 w/allocation
RMP Denver w/allocation
McCluthard: iv-2/22/88

cc: SERA 4/24/88/ef

Atos 4.



MERIDIAN OIL

February 8, 1996

State of Utah
Division of Oil, Gas & Mining
3 Triad Center, Ste. 350
Salt Lake City, Utah 84180-1203

RECEIVED
FEB 9 1996

Re: Change of Operator

Gentlemen:

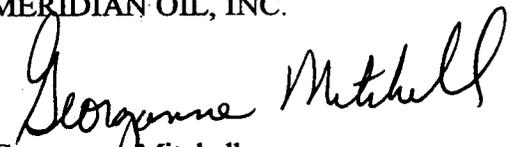
Enclosed please find copies of the Change of Operator sundries that were filed with the Bureau of Land Management, Moab, Utah for the following:

<u>Well Name</u>	<u>Location</u>	<u>API #</u>	<u>County</u>
Indian Creek #1	SWNW 2-T17S-R6E	43-015-30082	Emery
Indian Creek #3	SWSW 2-T17S-R6E	43-015-30175	Emery
Indian Creek #5	SENE 10-T17S-R6E	43-015-30117	Emery
#14176 #1 - Indian Creek #2	SWNE 14-T17S-R6E	43-015-30091	Emery
✓ E. Canyon Unit #3	NWSE 18-T16S-R25E	43-019-16203	Grand

If you should have any questions, please contact the undersigned at (303) 930-9407.

Sincerely,

MERIDIAN OIL, INC.


Georganne Mitchell
Regulatory Assistant

CDH/

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or re-entry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals.

5. Lease Designation and Serial No.

FEDERAL
57287U6920

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation
EAST MOUNTAIN UNIT

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
MERIDIAN OIL INC.

3. Address and Telephone No. (303)930-9393
5613 DTC PARKWAY, STE. 1000, P.O. BOX 3209, ENGLEWOOD, CO 80155-3209

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
3387' FSL, 1767' FEL
SWNW SEC. 2-T17S-R6E

8. Well Name and No.
1 INDIAN CREEK

9. API Well No.
43-015-3008200

10. Field and Pool, or Exploratory Area
FERRON/FERRON

11. County or Parish, State
EMERY, UT

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>CHANGE OF OPERATOR/SELF CERTIFICATION</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>

13. Described Proposed or Completed Operations (Clearly state all pertinent details and give pertinent dates including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

DUE TO A COMPANY CONSOLIDATION EFFECTIVE 1/2/96, PLEASE BE ADVISED MERIDIAN OIL INC. IS CONSIDERED TO BE THE OPERATOR OF 1 INDIAN CREEK; SWNW SECTION 2-T17S-R6E; LEASE 57287U6920; EMERY COUNTY, UTAH, AND IS RESPONSIBLE UNDER THE TERMS AND CONDITIONS OF THE LEASE FOR THE OPERATIONS CONDUCTED UPON THE LEASED LANDS. BOND COVERAGE IS PROVIDED BY NATIONWIDE BOND MT-0719. SOUTHLAND ROYALTY CO. WAS THE PRIOR OPERATOR OF RECORD.

FEB 9 1996

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

Signed Eileen Danni DeY Title REGULATORY COMPLIANCE ADMINISTRATOR Date 1/18/96

(This space for Federal or State office use)

Approved By _____ Title _____ Date _____
Condition of Approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FEB 20 1996

FORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or re-entry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals.

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

SOUTHLAND ROYALTY CO.

3. Address and Telephone No.

(303)930-9393

5613 DTC Parkway, Ste. 1000, P.O. Box 3209, Englewood, CO 80155-3209

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

3387' FSL, 1767' FEL (SW NW) Sec. 2-T17S-R6E

5. Lease Designation and Serial No.
57287U6920

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation
EAST MOUNTAIN UNIT

8. Well Name and No.
1 INDIAN CREEK

9. API Well No.
43-015-3008200

10. Field and Pool, or Exploratory Area
FERRON/FERRON

11. County or Parish, State
EMERY, UTAH

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

TYPE OF SUBMISSION

TYPE OF ACTION

Notice of Intent

Abandonment

Change of Plans

Subsequent Report

Recompletion

New Construction

Plugging Back

Non-Routine Fracturing

Casing Repair

Water Shut-Off

Final Abandonment Notice

Altering Casing

Conversion to Injection

Other Change of Operator

Dispose Water

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

13. Described 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.)*

Effective 1/2/96, please be advised that Southland Royalty Co. is no longer the operator of the subject well. The new operator is considered to be Meridian Oil, Inc. and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands.

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

Signed Eileen Danni Dey Title Regulatory Compliance Administrator Date February 16, 1996
Eileen Danni Dey

(This space for Federal or State office use)

Approved By _____ Title _____ Date _____
Condition of Approval, If any: _____

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

DOG M SPEED LETTER

To: Ed Bonner

From: Don Staley

School & Institutional Trust

Division of Oil, Gas & Mining

Lands Administration

Subject: Operator Change

MESSAGE

Date February 21 19 96

Ed,

For your information, attached are copies of documents regarding an operator change on a state lease(s)

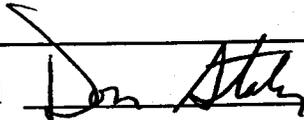
These companies have complied with our requirements. Our records have been updated. Bonding should be reviewed by your agency ASAP.

Former Operator: Southland Royalty Company (N0880)

New Operator: Meridian Oil Inc. (N7230)

Well(s):	API:	Entity:	S-T-R:	Lease:
Indian Creek 1	43-015-30082	02585	2-17S-6E	ML27626

cc: Operator File

Signed 

REPLY

Date _____ 19 ____

Signed _____

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1-LEC	7-FILE
2-DTS	8-FILE
3-VLD	
4-RJE	
5-LRC	
6-SJM	

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

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

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 1-2-96)

TO (new operator) <u>MERIDIAN OIL INC</u>	FROM (former operator) <u>SOUTHLAND ROYALTY CO</u>
(address) <u>PO BOX 3209</u>	(address) <u>PO BOX 3209</u>
<u>ENGLEWOOD CO 80155-3209</u>	<u>ENGLEWOOD CO 80155-3209</u>
<u>GEORGANNE MITCHELL</u>	<u>MARALENE SPAWN</u>
phone (303) <u>930-9300</u>	phone (303) <u>930-9419</u>
account no. <u>N 7230</u>	account no. <u>N 0880</u>

***EAST MOUNTAIN UNIT**

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

✓ Name: <u>*INDIAN CREEK #1/FRSD</u>	API: <u>43-015-30082</u>	Entity: <u>2585</u>	Sec <u>2</u> Twp <u>17S</u> Rng <u>6E</u>	Lease Type: <u>ML27626</u>
Name: <u>*INDIAN CREEK #3/FRSD</u>	API: <u>43-015-30175</u>	Entity: <u>2585</u>	Sec <u>2</u> Twp <u>17S</u> Rng <u>6E</u>	Lease Type: <u>U-15204</u>
Name: <u>*INDIAN CREEK #5/FRSD</u>	API: <u>43-015-30117</u>	Entity: <u>2585</u>	Sec <u>10</u> Twp <u>17S</u> Rng <u>6E</u>	Lease Type: <u>U-15203</u>
Name: <u>INDIAN CREEK #1/FRSD</u>	API: <u>43-015-30091</u>	Entity: <u>10907</u>	Sec <u>14</u> Twp <u>17S</u> Rng <u>6E</u>	Lease Type: <u>U-15202</u>
Name: <u>EAST CYN U 33-18/CDMTN</u>	API: <u>43-019-16203</u>	Entity: <u>9515</u>	Sec <u>18</u> Twp <u>16S</u> Rng <u>25E</u>	Lease Type: <u>U-05059</u>
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- Sec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Reg. 2-16-96) (Rec'd 2-20-96)*
- Sec 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec'd 2-9-96)*
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) ____ If yes, show company file number: _____.
- Sec 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- Sec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(2-20-96)*
- Sec 6. Cardex file has been updated for each well listed above. *(2-20-96)*
- Sec 7. Well file labels have been updated for each well listed above. *(2-20-96)*
- Sec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(2-20-96)*
- Sec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

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

BOND VERIFICATION (~~Fee wells only~~)

*Trust Lands Admin. / \$25,000 Statewide
(Trust will review st. wells assoc. w/meridian and req. increase to 80,000 if applicable)*

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

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated _____ 19____, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.

DCS 2. Copies of documents have been sent to State Lands for changes involving State leases.
2-21-96 to Ed Bonner

FILMING

- VLR 1. All attachments to this form have been microfilmed. Date: February 28 1996.

FILING

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

COMMENTS

960220 BLM/SL Meridian Oper. "E. mtn. Unit" eff. 8/87, P.A. #. 10/87.
BLM/maeb Meridian Oper. #1/43-015-30091 eff. 7/87.
BLM/maeb Aprv. 33-18/43-019-116203 2-9-96.
* Southland & Meridian never reg. oper. change until now. Southland has reported prod. & disp. to DOBm since 1987 & both operators have reported to mms.

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

MARALENE SPAWN
 MERIDIAN OIL INC
 PO BOX 3209
 ENGLEWOOD CO 80155-3209

UTAH ACCOUNT NUMBER: N7230

REPORT PERIOD (MONTH/YEAR): 7 / 96

AMENDED REPORT (Highlight Changes)

Well Name API Number	Entity	Location	Producing Zone	Well Status	Days Oper	Production Volumes		
						OIL(BBL)	GAS(MCF)	WATER(BBL)
INDIAN CREEK #1 4301530082	02585	17S 06E 2	FRSD			ML27626	E.mtn.Unit	
INDIAN CREEK 10176-5 4301530117	02585	17S 06E 10	FRSD			K15203	E.mtn.Unit	
INDIAN CREEK UNIT 021762-3 4301530175	02585	17S 06E 2	FRSD			K15204	E.mtn.Unit	
13-35 EMU HRE FEDERAL 4301530230	02585	16S 06E 35	FRSD			K56933	E.mtn.Unit	
E MOUNTAIN UNIT 32-23 4301530231	02585	16S 06E 23	FRSD			K17024	E.mtn.Unit	
HATCH POINT 27-1A 4303730518	02815	27S 21E 27	CNCR			K-20016	Hatch Point K (Non Committed lease)	Exxon? Susp.?
T CANYON UNIT 33-18 4301916203	09515	16S 25E 18	NWSE CDMTN			K05059		
NAVAJO FEDERAL 9-1 4303731001	09975	39S 25E 9	NWNE ISMY			K52333	Kiva (Upper Mesa) Unit	
NAVAJO FEDERAL 4-2 4303731161	09975	39S 25E 4	SWSE ISMY			K52333	Kiva (Upper Mesa) Unit	
NAVAJO FEDERAL #4-4 4303731179	09975	39S 25E 4	NWSW ISMY			K52333	Kiva (Upper Mesa) Unit	
24-4 KIVA FEDERAL 4303731745	09975	39S 25E 4	SESW ISMY			USA K52333	Kiva (Upper Mesa) Unit	
HAVASU-FEDERAL #22-19 4303731278	10654	38S 24E 19	SESW ISMY			K56186	Kechine Unit	
HAVASU-FEDERAL #41-24 4303731279	10654	38S 23E 24	NENE ISMY			K20895	Kechine Unit	
TOTALS								

COMMENTS: _____

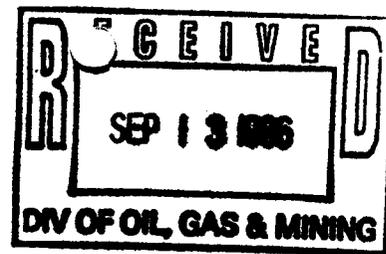
I hereby certify that this report is true and complete to the best of my knowledge.

Date: _____

Name and Signature: _____

Telephone Number: _____

MERIDIAN OIL



September 10, 1996

State of Utah
Division of Oil, Gas and Mining
~~1594~~ ³⁵⁵ West North Temple
Salt Lake City, UT 84180

Re: Name Change from Meridian Oil Inc. to
Burlington Resources Oil & Gas Co.

Gentlemen:

Please be advised effective July 11, 1996 Meridian Oil Inc. changed their name and address to:

Burlington Resources Oil & Gas Co.
3300 North "A" St., Bldg. 6
Midland, TX 79710-1810

Please see the attached list of wells that Burlington Resources operates in the State of Utah. If you should have any questions, please contact me at (303) 930-9393 or after September 30th at (915) 688-6800.

Sincerely,

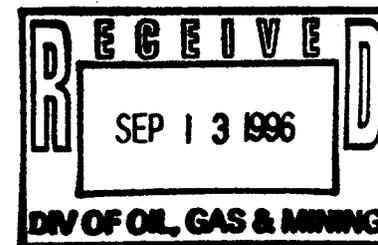
BURLINGTON RESOURCES OIL & GAS CO.

A handwritten signature in cursive script, appearing to read "Eileen Danni Dey".

Eileen Danni Dey
Senior Regulatory Compliance Representative

Enclosure

FIELD	WELL NAME	WELL NO	FORMATION/POOL	COUNTY	OCATIO	SEC	TWN	RGE	API NUMBER	FEDERAL LEASE NUMBER	STATE CONTROL NO.
BANNOCK	BANNOCK FEDERAL	21-33	ISMAY	SAN JUAN	NENW	33	038S	024E	43-037-3142500	UTU60786A	10923
CEDAR MOUNTAIN	EAST CANYON UNIT	33-18	CEDAR MOUNTAIN	GRAND	NWSE	18	016S	025E	43-019-1620300	UTU05059	9515
EAST MOUNTAIN	EAST MOUNTAIN FEDERAL	13-35	FERRON	EMERY	NWSW	35	016S	006E	43-015-3023000	57287U6920	10789
EAST MOUNTAIN	EAST MOUNTAIN FEDERAL	32-23	FERRON	EMERY	SWNE	23	016S	006E	43-015-3023100	57287U6920	11075
FERRON	INDIAN CREEK UNIT	1	FERRON	EMERY	SWNW	02	017S	006E	43-015-3008200	57287U6920	02585
FERRON	INDIAN CREEK UNIT	3	FERRON	EMERY	SWSW	02	017S	006E	43-015-3107500	57287U6920 30175	02585
FERRON	INDIAN CREEK UNIT 10176	5	FERRON	EMERY	SENE	10	017S	006E	43-015-3011700	57287U6920	02585
FERRON	INDIAN CREEK UNIT 14176	2	FERRON	EMERY	SWNE	14	017S	006E	43-015-3009100	UTU15202	10907
KACHINA	ARABIAN FEDERAL (wiw)	2	ISMAY	SAN JUAN	NWSW	19	038S	024E	43-037-3128200	UTU56186	10654
KACHINA	ARABIAN FEDERAL	3	ISMAY	SAN JUAN	NESW	19	038S	024E	43-037-3128700	UTU56186	10654
KACHINA	HAVASU FEDERAL (wiw)	11-19	UPPER ISMAY	SAN JUAN	NWNW	19	038S	024E	43-037-3145800	UTU56186	10654
KACHINA	HAVASU FEDERAL	12-19	UPPER ISMAY	SAN JUAN	SWNW	19	038S	024E	43-037-3145700	UTU56186	10654
KACHINA	HAVASU FEDERAL	12-19A	ISMAY	SAN JUAN	SWNW	19	038S	024E	43-037-3145900	UTU56186	10654
KACHINA	HAVASU FEDERAL	22-19	UPPER ISMAY	SAN JUAN	SENE	19	038S	024E	43-037-3127800	UTU56186	10654
KACHINA	HAVASU FEDERAL	41-24	UPPER ISMAY	SAN JUAN	NENE	24	038S	023E	43-037-3127900	UTU20895	10654
KACHINA	HAVASU FEDERAL (wiw)	42-24	UPPER ISMAY	SAN JUAN	SENE	24	038S	023E	43-037-3129800	UTU20895	10654
KACHINA	WASH UNIT (wsw)	2	CUTLER	SAN JUAN	SESE	13	038S	023E	43-037-3132400	UTU20894	10654
KIVA (DESERT CREEK)	NAVAJO FEDERAL	41-5	DESERT CREEK	SAN JUAN	NENE	05	039S	025E	43-037-3142100	UTU57895 31358	10810
KIVA (UPPER ISMAY)	KIVA FEDERAL	24-4	ISMAY	SAN JUAN	SESW	04	039S	025E	43-037-3174500	83687U6890	09975
KIVA (UPPER ISMAY)	NAVAJO FEDERAL (wiw)	12-4	ISMAY	SAN JUAN	SWNW	04	039S	025E	43-037-3139500	83687U6890	09975
KIVA (UPPER ISMAY)	NAVAJO FEDERAL (wiw)	14-4	ISMAY	SAN JUAN	SWSW	04	039S	025E	43-037-3132100	83687U6890	09975
KIVA (UPPER ISMAY)	NAVAJO FEDERAL (wiw)	21-9	ISMAY	SAN JUAN	NENW	09	039S	025E	43-037-3126700	83687U6890	09975
KIVA (UPPER ISMAY)	NAVAJO FEDERAL (wiw)	23-4	UPPER ISMAY	SAN JUAN	NESW	04	039S	025E	43-037-3125900	83687U6890	09975
KIVA (UPPER ISMAY)	NAVAJO FEDERAL	4-2	ISMAY	SAN JUAN	SWSE	04	039S	025E	43-037-3116100	83687U6890	09975
KIVA (UPPER ISMAY)	NAVAJO FEDERAL	4-4	ISMAY	SAN JUAN	NWSW	04	039S	025E	43-037-3117900	83687U6890	09975
KIVA (UPPER ISMAY)	NAVAJO FEDERAL	42-5	UPPER ISMAY	SAN JUAN	SENE	05	039S	025E	43-037-3126100	83687U6890	10655
KIVA (UPPER ISMAY)	NAVAJO FEDERAL (wsw)	42-9	WINGATE/CUTLER	SAN JUAN	SENE	09	039S	025E	43-037-3126300	83687U6890	09975
KIVA (UPPER ISMAY)	NAVAJO FEDERAL	9-1	UPPER ISMAY	SAN JUAN	NWNE	09	039S	025E	43-037-3100100	83687U6890	09975
KIVA (UPPER ISMAY)	NAVAJO FEDERAL (WIW)	4-1	ISMAY	SAN JUAN	SESW	04	039S	025E	43-037-3111200	83687U6890	09975
KIVA (UPPER ISMAY)	NAVAJO FEDERAL (WIW)	43-5	ISMAY	SAN JUAN	NWSW	05	039S	025E	43-037-3131700	83687U6890	09975
MON MESA	HATCH POINT FEDERAL	27-1A	CANE CREEK	SAN JUAN	NESW	27	027S	021E	43-037-3051800	8910184250	02815

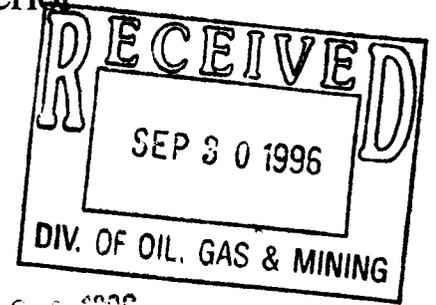




United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155



SEP 23 1996

In Reply Refer To
3100
SL-071010C
(UT-932)

NOTICE

Burlington Resources Oil & Gas Company	:	Oil and Gas
801 Cherry Street, Suite 900	:	SL-071010C
Fort Worth, Texas 76102	:	

Corporate Name Change Recognized

Acceptable evidence has been filed in this office concerning the corporate name change from Meridian Oil Inc. to Burlington Resources Oil & Gas Company.

For our purposes, the name change is recognized effective July 12, 1996, the date the Secretary of State of Delaware certified the name change.

The oil and gas lease files identified on the enclosed exhibit have been noted as to the name change. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice. If additional documentation for changes of operator are required by our field offices, you will be contacted by them.

A rider to Bond No. 400IA9059 (BLM Bond No. MT0719) has been accepted by the Montana State office as of September 16, 1996, its date of receipt. The rider changed the name on the bond from Meridian Oil Inc. to Burlington Resources Oil & Gas Company.

ROBERT LOPEZ

Robert Lopez
Group Leader,
Minerals Adjudication Group

Enclosure

Exhibit (1 p)

cc: MMS, Data Management Division, P.O. Box 5860, MS 3113, Denver, Colorado 80217
Moab District Office
Vernal District Office

bc: State of Utah, ATTN: Lisha Cordova, Division of Oil, Gas and Mining, P.O. Box 145801,
Salt Lake City, Utah 84114-5801
Teresa Thompson (UT-931)
Irene Anderson (UT-932)

Exhibit of Leases Affected

SL-071010C	U-8894A	U-40751	U-61752
SL-071595	U-8895A	U-45051	U-62143
U-0681	U-8897A	U-45929	U-62190
U-0683	U-15202	U-46825	U-63181
U-0684	U-15203	U-51045	UTU-64930
U-0685	U-15204	U-51046	UTU-64931
U-0719	U-16962A	U-51047	UTU-65329
U-0725	U-17024	U-52333	UTU-65607
U-0737	U-17623	U-56186	UTU-65750
U-0741	U-19281	U-56932	UTU-65751
U-0744	U-20016	U-56933	UTU-65868 (ROW)
U-03333	U-20895	U-56934	UTU-65940
U-04049	U-24606	U-57895	UTU-65943
U-04049A	U-39832	U-58728	UTU-66025
U-05059	U-40361	U-60428	UTU-66487
U-08107	U-40440	U-60520	UTU-66584
U-062420	U-40544 (ROW)	U-61556	UTU-66708
UTU-66830	UTU-66831	UTU-67565	UTU-67568
UTU-67569	UTU-67570	UTU-68232	UTU-68664
UTU-68676	UTU-69434	UTU-70115 (ROW)	UTU-70196
UTU-72660	U-60786X (Bannock Unit)	U-63089X (East Mountain Unit)	

OPERATOR CHANGE WORKSHEET

1-LEC	6-LEC
2-GL	7-KDR
3-DPS	8-SJ
4-VLD	9-FILE
5-RJF	

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

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

The operator of the well(s) listed below has changed, effective: 7-11-96

TO: (new operator) <u>BURLINGTON RESOURCES O&G CO.</u>	FROM: (old operator) <u>MERIDIAN OIL INC</u>
(address) <u>3300 N "A" ST BLDG 6</u>	(address) <u>PO BOX 3209</u>
<u>MIDLAND TX 79710-1810</u>	<u>ENGLEWOOD CO 80155-3209</u>
<u>EILEEN DANNI DEY</u>	<u>EILEEN DANNI DEY</u>
Phone: <u>(915)688-6800</u>	Phone: <u>(303)930-9393</u>
Account no. <u>N7670</u>	Account no. <u>N7230</u>

WELL(S) attach additional page if needed: ***KACHINA, KIVA, EAST MOUNTAIN, BANNOCK UNIT'S**

Name: <u>**SEE ATTACHED**</u>	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

OPERATOR CHANGE DOCUMENTATION

- Yes 1. (r649-8-10) Sundry or other legal documentation has been received from the FORMER operator (attach to this form). *(Rec'd 9-13-96)*
- Yes 2. (r649-8-10) Sundry or other legal documentation has been received from the NEW operator (Attach to this form). *(Rec'd 9-13-96)*
- Yes 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is the company registered with the state? *(yes)* no _____ If yes, show company file number: #096593. *(E.H. 1-29-82)*
- Yes 4. FOR INDIAN AND FEDERAL WELLS ONLY. The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of Federal and Indian well operator changes should ordinarily take place prior to the division's approval, and before the completion of steps 5 through 9 below.
- Yes 5. Changes have been entered in the Oil and Gas Information System (3270) for each well listed above. *(i. WC Program)*
- Yes 6. Cardex file has been updated for each well listed above. *(10-3-96)*
- Yes 7. Well file labels have been updated for each well listed above. *(10-3-96)*
- Yes 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. *(10-3-96)*
- Yes 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

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

BOND VERIFICATION - (FEE WELLS ONLY) *961002 "Rider" 80,000 to Burlington held by Trust Lands Admin.

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

LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

- N/A 1. Copies of documents have been sent on _____ to _____ at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
OTS 11/4/96

FILMING

- Yes 1. All attachments to this form have been microfilmed. Today's date: 12-27-96.

FILING

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

COMMENTS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or re-entry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals.

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No.
2. Name of Operator BURLINGTON RESOURCES OIL & GAS COMPANY	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No (915)688-6800 P. O. BOX 51810, MIDLAND, TX 79710-1810	7. If Unit or CA, Agreement Designation 57287U6920
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1538' FNL & 1240' FWL , SWNW 02 017S 006E, SLM	8. Well Name and No. INDIAN CREEK 1
	9. API Well No. 43,015,3008200
	10. Field and Pool, or Exploratory Area FERRON , FERRON
	11. County or Parish, State EMERY , UT

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

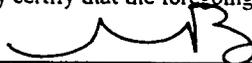
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other <u>CHANGE OF OPERATOR</u>	<input type="checkbox"/> Dispose Water <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>

13. Described 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.)*

EFFECTIVE JANUARY 1, 1997 , BURLINGTON RESOURCES OIL & GAS COMPANY, THE OPERATOR OF RECORD OF THE INDIAN CREEK 1 WELL, TRANSFERRED ALL OF ITS RIGHT, TITLE AND INTEREST IN SAID WELL TO MERIT PARTNERS, L.P. (AS TO 92.4%) AND MERIT ENERGY PARTNERS III, L.P. (AS TO 7.6%), C/O MERIT ENERGY COMPANY, 12222 MERIT DRIVE, DALLAS, TX 75251.

ON APRIL 1, 1997, MERIT ENERGY COMPANY, GENERAL PARTNER FOR MERIT PARTNERS, L.P. AND MERIT ENERGY PARTNERS III, L.P., WILL TAKE OVER PHYSICAL OPERATIONS OF SAID WELL ON BEHALF OF SAID LIMITED PARTNERSHIPS.

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

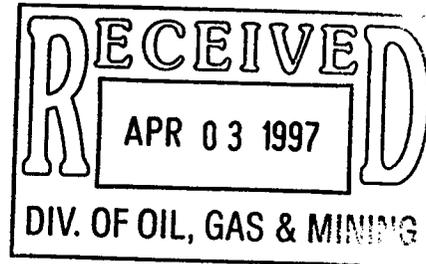
Signed  Title Attorney-in-Fact Date March 31, 1997
Kent Beers

(This space for Federal or State office use)

Approved By _____ Title _____ Date _____
Condition of Approval, If any:

MERIT ENERGY COMPANY

12222 MERIT DRIVE, SUITE 1500
DALLAS, TEXAS 75251
(972) 701-8377
(972) 960-1252 Fax



April 2, 1997

Utah Division of Oil, Gas and Mining
Attn: Ms. Lisha Cordova
1594 West North Temple
Suite 1210
Salt Lake City, Utah 84114

**RE: Change of Operator to Merit Energy Company
Emery and San Juan County**

Dear Ms. Cordova:

Enclosed please find a copy of Form 3160 executed by both parties, Merit Energy and Burlington Resources.

If additional information or forms are required to process this transaction, please contact me at 972-701-8377.

Yours very truly,
MERIT ENERGY COMPANY


Martha J. Rogers
Manager, Regulatory Affairs

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or re-entry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals.

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation
57287U6920

8. Well Name and No.
INDIAN CREEK 1

9. API Well No.
43,015,3008200

10. Field and Pool, or Exploratory Area
FERRON, FERRON

11. County or Parish, State
EMERY, UT

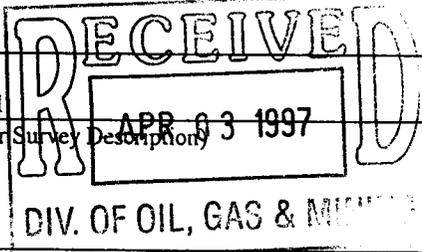
SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
MERIT ENERGY COMPANY

3. Address and Telephone No (972) 701-8377
12222 MERIT DRIVE, DALLAS, TX 75251

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1538' FNL & 1240' FWL, SWNW
02 017S 006E, SLM



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

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other <u>CHANGE OF OPERATOR</u>	<input type="checkbox"/> Dispose Water <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>

13. Described 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.)*

EFFECTIVE AS OF JANUARY 1, 1997, BURLINGTON RESOURCES OIL & GAS COMPANY, THE PRIOR OPERATOR OF RECORD, TRANSFERRED ALL RIGHT, TITLE AND INTEREST IN THE INDIAN CREEK 1 WELL TO MERIT PARTNERS, L.P. (AS TO 92.4%) AND MERIT ENERGY PARTNERS III, L.P. (AS TO 7.6%), C/O MERIT ENERGY COMPANY, 12222 MERIT DRIVE, DALLAS, TX 75251. ON APRIL 1, 1997, MERIT ENERGY COMPANY, THE GENERAL PARTNER FOR MERIT PARTNERS, L.P. AND MERIT ENERGY PARTNERS III, L.P., WILL TAKE OVER PHYSICAL OPERATIONS OF SAID WELL ON BEHALF OF SAID LIMITED PARTNERSHIPS AND IS CONSIDERED TO BE THE OPERATOR OF SAID WELL AS OF THAT DATE.

MERIT ENERGY COMPANY IS RESPONSIBLE UNDER THE TERMS AND CONDITIONS OF THE LEASE FOR THE OPERATIONS CONDUCTED UPON THE LEASED LANDS. BOND COVERAGE IN THE AMOUNT OF \$150,000 FOR MERIT ENERGY COMPANY IS PROVIDED UNDER BLM BOND NO. WY3011, IN FAVOR OF THE BUREAU OF LAND MANAGEMENT, U. S. DEPARTMENT OF THE INTERIOR.

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

Signed Martha Rogers Title Manager, Regulatory Affairs Date March 31, 1997

(This space for Federal or State office use)

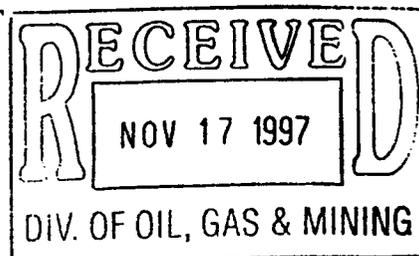
Approved By _____ Title _____ Date _____
Condition of Approval, If any: _____



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155



IN REPLY REFER TO
UT-931

COPY

November 13, 1997

Merit Energy Company
Attn: Martha J. Rogers
12222 Merit Drive, Suite 1500
Dallas, Texas 75251

Re: East Mountain Unit
Emery County, Utah

Gentlemen:

On November 7, 1997, we received an indenture dated April 1, 1997, whereby Burlington Resources Oil & Gas Company resigned as Unit Operator and Merit Energy Company was designated as Successor Unit Operator for the East Mountain Unit, Emery County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective November 13, 1997. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the East Mountain Unit Agreement.

Your nationwide (Wyoming) oil and gas bond No. 3011 will be used to cover all operations within the East Mountain Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks
Chief, Branch of Fluid Minerals

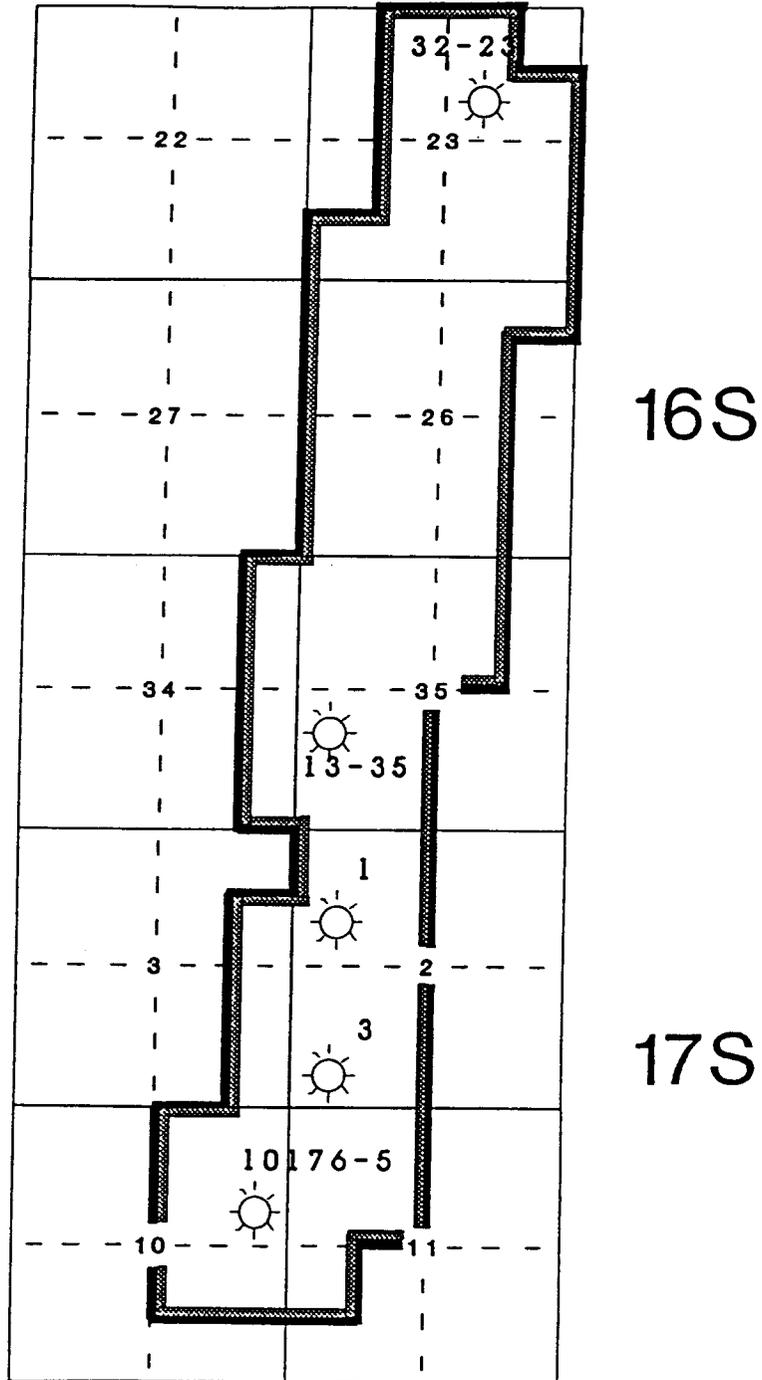
Enclosure

bcc: District Manager - Moab (w/enclosure)
Division of Oil, Gas & Mining
Minerals Adjudication Group U-932
File - East Mountain Unit (w/enclosure)
MMS - Data Management Division
Agr. Sec. Chron
Fluid Chron

UT931:TAThompson:tt:11/13/97

EAST MOUNTAIN UNIT

Emery County, Utah



EFFECTIVE: AUGUST 21, 1987 **6E**

—— UNIT OUTLINE (UTU63089X)

▨ FERRON PA "A"

AS CONTRACTED, OCTOBER 15, 1992

2,437.48 ACRES

FERRON PA "A"	
ALLOCATION	
FEDERAL	92.8310%
STATE	7.1690%
2,437.48 Acres	

CHANGE OF OPERATOR STATE OF - UT

COUNTY	FIELD NAME	WELL NAME	STR	LSE#	WELLTYPE	APIWELL	COMM NO.	FED CNTRL	ST CNTRL
EMERY	EAST MOUNTAIN ,FERRON	EAST MOUNTAIN FEDERAL 13-35	35 016S 006E	ML-27626	GAS WELL	43,015,3023000	UT060P49-87U69	57287U6920	025 U56933
EMERY	EAST MOUNTAIN ,FERRON	EAST MOUNTAIN FEDERAL 32-23	23 016S 006E		GAS WELL	43,015,3023100	UT060P49-87U69	57287U6920	025 U17674
EMERY	FERRON ,FERRON	INDIAN CREEK 021762 3	02 017S 006E	ML-27626	GAS WELL	43,015,3017500		57287U6920	025 U15204
EMERY	FERRON ,FERRON	INDIAN CREEK 10176 5	02 017S 006E	ML-27626	GAS WELL	43,015,3008200		57287U6920	025 mL-27626
EMERY	FERRON ,FERRON	INDIAN CREEK 10176 5	10 017S 006E	ML-27626	GAS WELL	43,015,3011700		57287U6920	025 U15203
EMERY	FERRON ,FERRON	INDIAN CREEK 14176 1	14 017S 006E	UTU15202	GAS WELL	43,015,3009100		UTU15202	109 U15202
SAN JUAN	BANNOCK ,ISMAY	BANNOCK FEDERAL 21-33	33 038S 024E	UTU60786	OIL WELL	43,037,3142500	60786A	UTU60786A	109 U46361
SAN JUAN	KACHINA ,CUTLER	WASH UNIT 2	13 038S 023E	UTU20894	WATER SOURCE	43,037,3132400		UTU20894	106 U20894 (To Water Rights 4-7-97)
SAN JUAN	KACHINA ,ISMAY	ARABIAN FEDERAL 2	19 038S 024E	UTU56186	WATER INJECTED	43,037,3128200		UTU56186	106 U56186
SAN JUAN	KACHINA ,ISMAY	HAVASU FEDERAL 11-19	19 038S 024E	UTU56186	WATER INJECTED	43,037,3145800		UTU56186	106 U56186
SAN JUAN	KACHINA ,ISMAY	HAVASU FEDERAL 12-19	19 038S 024E	UTU56186	OIL WELL	43,037,3145700		UTU56186	106 U56186
SAN JUAN	KACHINA ,ISMAY	HAVASU FEDERAL 12-19A	19 038S 024E	UTU56186	OIL WELL	43,037,3145900		UTU56186	106 U56186
SAN JUAN	KACHINA ,ISMAY	HAVASU FEDERAL 22-19	19 038S 024E	UTU56186	OIL WELL	43,037,3127800		UTU56186	106 U56186
SAN JUAN	KACHINA ,ISMAY	HAVASU FEDERAL 41-24	24 038S 023E	UTU20895	OIL WELL	43,037,3127900		UTU20895	106 U20895
SAN JUAN	KACHINA ,ISMAY	HAVASU FEDERAL 42-24	24 038S 023E	UTU20895	WATER INJECTED	43,037,3129800		UTU20895	106 U20895

DOG M SPEED LETTER

To: Ed Bonner

From: Lisha Cordova

School & Institutional Trust

Division of Oil, Gas & Mining

Lands Administration

Subject: Operator Change

MESSAGE

Date 05/04 19 98

Ed,

For your information, attached are copies of documents regarding an operator change on a state lease(s)

These companies have complied with our requirements. Our records have been updated. Bonding should be reviewed by your agency ASAP.

Former Operator: Burlington Resources Oil & Gas

New Operator: Merit Energy Company

Well(s):	API:	Entity:	S-T-R:	Lease:
Indian Creek 1	43-015-30082	02585	02-17S-06E	ML-27626

cc: Operator File

Signed *Lisha Cordova*

REPLY

Date _____ 19 _____

Signed _____

OPERATOR CHANGE WORKSHEET

Routing	
1-LEC <input checked="" type="checkbox"/>	6-LEC <input checked="" type="checkbox"/>
2-GLH <input checked="" type="checkbox"/>	7-KAS <input checked="" type="checkbox"/>
3-DTS <input checked="" type="checkbox"/>	8-SI <input checked="" type="checkbox"/>
4-VLD <input checked="" type="checkbox"/>	9-FILE <input checked="" type="checkbox"/>
5-JRB <input checked="" type="checkbox"/>	

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

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

The operator of the well(s) listed below has changed, effective: 4-1-97

TO: (new operator)	<u>MERIT ENERGY COMPANY</u>	FROM: (old operator)	<u>BURLINGTON RESOURCES O&G</u>
(address)	<u>12222 MERIT DR STE 1500</u>	(address)	<u>3300 N A ST BLDG 6</u>
	<u>DALLAS TX 75251</u>		<u>MIDLAND TX 79710-1810</u>
Phone:	<u>(972) 383-6511</u>	Phone:	<u>(915) 688-6800</u>
Account no.	<u>N4900</u>	Account no.	<u>N7670</u>

WELL(S) attach additional page if needed: *EAST MOUNTAIN UNIT

Name:	<u>INDIAN CREEK 1/FRSD</u>	API:	<u>43-015-30082</u>	Entity:	<u>2585</u>	S	<u>2</u>	T	<u>17S</u>	R	<u>6E</u>	Lease:	<u>ML27626</u>
Name:	_____	API:	_____	Entity:	_____	S	_____	T	_____	R	_____	Lease:	_____
Name:	_____	API:	_____	Entity:	_____	S	_____	T	_____	R	_____	Lease:	_____
Name:	_____	API:	_____	Entity:	_____	S	_____	T	_____	R	_____	Lease:	_____
Name:	_____	API:	_____	Entity:	_____	S	_____	T	_____	R	_____	Lease:	_____
Name:	_____	API:	_____	Entity:	_____	S	_____	T	_____	R	_____	Lease:	_____

OPERATOR CHANGE DOCUMENTATION

- Yec 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form). (Rec'd 4-3-97)
- Yec 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). (Rec'd 4-3-97)
- N/A 3. The **Department of Commerce** has been contacted if the new operator above is not currently operating any wells in Utah. Is the company **registered with the state?** (yes/no) _____ If yes, show company file number: _____
- N/A 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of **Federal** and **Indian** well operator changes should ordinarily take place prior to the division's approval, and before the completion of **steps 5 through 9** below.
- Yec 5. Changes have been entered in the **Oil and Gas Information System (3270)** for each well listed above. (5-4-98)
- Yec 6. **Cardex** file has been updated for each well listed above. (5-4-98)
- Yec 7. Well **file labels** have been updated for each well listed above. (5-4-98)
- Yec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" **memo** for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. (5-4-98)
- Yec 9. A folder has been set up for the **Operator Change file**, and a copy of this page has been placed there for **reference during routing and processing of the original documents.**

ENTITY REVIEW

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

BOND VERIFICATION - (FEE WELLS ONLY)

Trust/Bond No. 715100651080DCM (20,000) Actna Surety & Casualty Co.

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

LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

- lec 1. Copies of documents have been sent on 5-4-98 to Ed Bonner at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
- N/A/lec 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated _____ 19 __, of their responsibility to notify all interest owners of this change.

FILMING

- ___ 1. All attachments to this form have been microfilmed. Today's date: _____.

FILING

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

COMMENTS

971113	BLM/SJ	Aprv. oper. chg.	" East mtn. Unit "
971113	Trust	No Bond	
980114	"	"	
980214	"	"	
980318	"	"	
980414	"	"	
980504	Bond OK; see above.		

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-27626
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Gas Well		7. UNIT or CA AGREEMENT NAME: EAST MOUNTAIN
2. NAME OF OPERATOR: MERIT ENERGY COMPANY		8. WELL NAME and NUMBER: INDIAN CREEK 1
3. ADDRESS OF OPERATOR: 13727 Noel Rd Ste 500 , Dallas, TX, 75240		9. API NUMBER: 43015300820000
PHONE NUMBER: 972 628-1540 Ext		9. FIELD and POOL or WILDCAT: FLAT CANYON
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1538 FNL 1240 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 02 Township: 17.0S Range: 06.0E Meridian: S		COUNTY: EMERY
		STATE: UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 8/28/2015	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Site Security Diagram"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

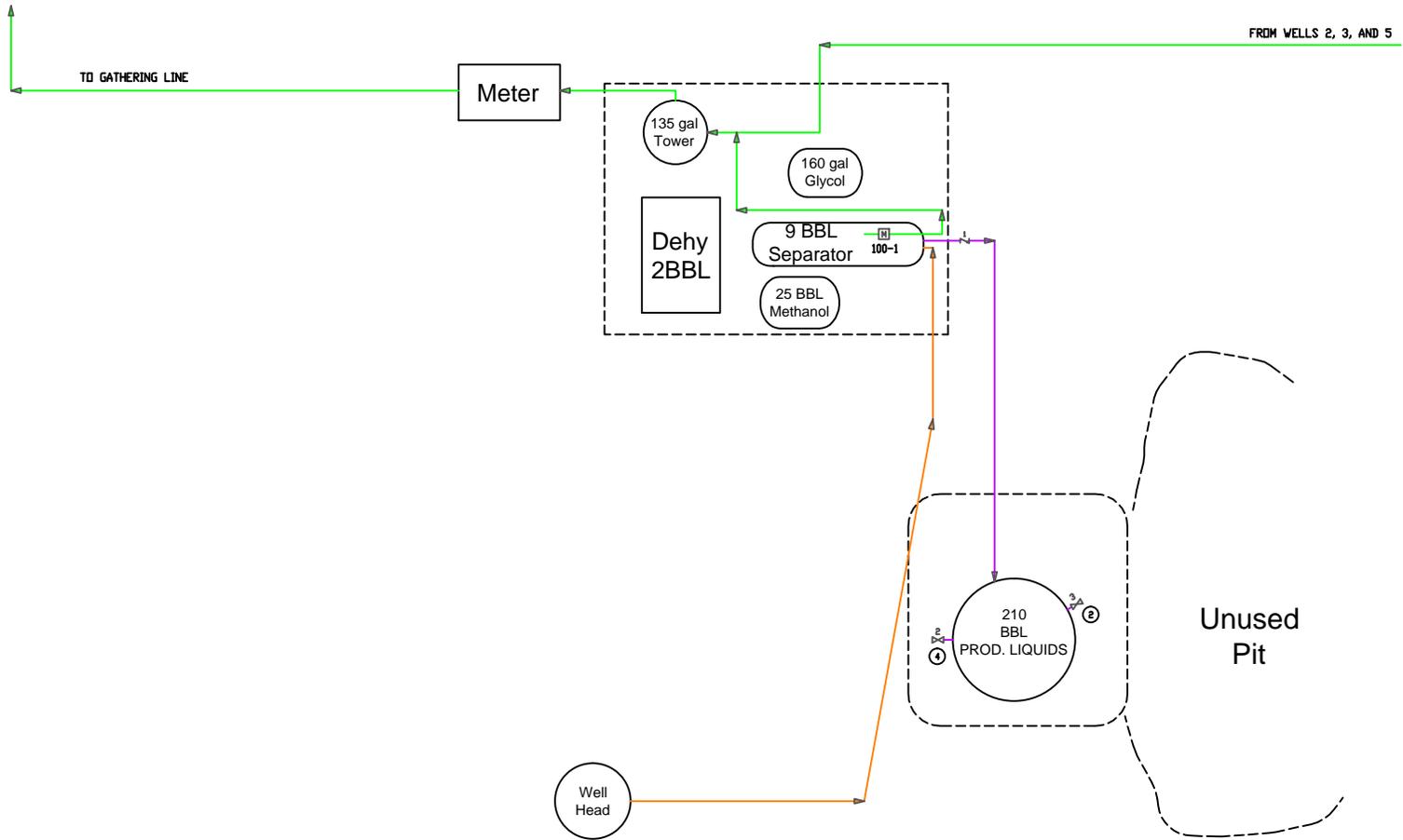
Please find the currant Site Security Diagram for the above referenced well for your records.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
September 02, 2015**

NAME (PLEASE PRINT) Katherine McClurkan	PHONE NUMBER 972 628-1660	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 8/28/2015	



NOT TO SCALE



API 43-015-30082
 Lat: 39.37561
 Long: -111.21682

Shed

Building

METER LEGEND

100-1 GAS TO GATHERING LINE

LINE LEGEND

SALES GAS
 WATER/OIL
 WELL FLOW TO SEPARATOR

VALVE LEGEND

- ① SEALED OPEN DURING ALL OPERATIONS
- ② SEALED CLOSED DURING ALL OPERATIONS
- ③ OPEN DURING PRODUCTION SEALED CLOSED DURING SALES
- ④ SEALED CLOSED DURING PRODUCTION OPEN DURING SALES

MERIT ENERGY COMPANY

EAST MOUNTAIN INDIAN CREEK #1
 SEC. 2 T17S, R6E
 EMERY COUNTY, UTAH

Site Security
 Diagram

AS BUILT
 August 2015