

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PERMIT IN STATE
(Under instruction on reverse side)

Form approved
Budget Project No. 41-3-1425

4

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
Mormac Oil & Gas Co.

3. ADDRESS OF OPERATOR
1675 Broadway, Suite 2380, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 1201' FWL, 555' FNL
At proposed prod. zone 1159'
NWNW

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
13 miles South of Green River

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
555'

16. NO. OF ACRES IN LEASE
2007

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.

19. PROPOSED DEPTH
9800'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
4266' GR

22. APPROX. DATE WORK WILL START*
January 15, 1981

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
16"	13-3/8"	54.5#/ft	300'	Cmt to surface
13-3/4"	9-5/8"	36#/ft	2200'	200 sx
7-7/8"	5 1/2"	20 & 23#/ft	9800'	500 sx

It is proposed to drill and test the Mississippian formation at the above location. If the well is productive, a 5 1/2" production string will be run and cemented, or the well plugged and abandoned, whichever test indicates.

See attached NTL-6 for further information.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 7/11/81
BY: [Signature]

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: Operations Manager DATE: 11/18/80

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE FOR E. W. GUYNN DISTRICT ENGINEER DATE MAR 10 1981
APPROVED BY [Signature] TITLE CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED

NOTICE OF APPROVAL

*See Instructions On Reverse Side

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80

[Signature]



United States Department of the Interior

IN REPLY REFER TO

3109
(U-603)

BUREAU OF LAND MANAGEMENT
Moab District
Grand Resource Area
P.O. Box M
Moab, Utah 84532

JAN 20 1981

Memorandum

To: Oil & Gas Office, USGS Conservation Div.
P.O. Box 3768
Grand Junction, Co. 81502

From: Acting Area Manager, Grand

Subject: Application to Drill: U-38239
Mormac Oil & Gas
Well: Fed. 1-14
Section 14, T. 22 S., R. 16 E.
Grand County, Utah

On January 9, 1981 a representative from this office met with Glenn Doyle, USGS, and Chris Pritchard, agent of the Mormac Oil & Gas for an inspection of the above referenced location. Subject to the attached conditions and an approved Permit to Drill from the USGS, I am approving the surface management portion of the Application for Permit to Drill.

The archaeological requirement has been fulfilled on this location. No threatened or endangered flora or fauna are indicated in the area.

Please forward the enclosed information to Mormac Oil & Gas.

M. Scott Parker

Enclosures: (4)
1-Reclamation Procedures
2-Suggested Color Hues
3-Waterbar Diagram
4-Roadway Diagram

U. S. GEOLOGICAL SURVEY
OIL AND GAS OPERATIONS
RECEIVED

JAN 21 1981

GRAND JUNCTION, COLORADO

Mormac/Alexander and Ambrose
Federal 1-14
U-38239
Section 14, T. 22 S., R. 16 E.

Supplemental Stipulations

1. Excess water will not be disposed on roads or any other land surface.
2. Minor diversion (less than 100 linear feet) of the ephemeral stream on the east side of the pad is acceptable as discussed on-site.
3. The southeast corner of the pad adjacent to the existing ephemeral stream will be riprapped at a 1:1 slope.
4. The last 3.0 miles of the access road will be upgraded as follows:
 - The existing road berms will be graded back onto the road and flat bladed with a total road width on 18 feet (maximum disturbance width 20 feet in most cases with 30 feet acceptable on sidehills).
 - Approximately ten (10) waterbars will be constructed as shown in Figure 4; the exact locations will be as discussed on-site.
 - On sidehill locations, the outside road berms will be brought back onto the road and the road outsloped as shown in Figure 5.
 - Minor re-routing is allowed on the last 1.0 mile of access road as discussed on-site.
 - Low water crossings will be used whenever drainages are crossed.
 - A single road turnout will be constructed as shown in Figure 5.
5. A trash cage will be used in lieu of a trash pit and all trash will be backhauled and properly disposed.
6. Four inches (approximately 800 cu. yds.) of topsoil shall be stockpiled on-site for reclamation purposes.

7. Stockpile topsoil will not be used for overflow berms around production facilities.
8. Notification of the BLM (Tom Hare) will be required at least 48 hours prior to beginning dirtwork.
9. Should the site become a producer, all facilities will be painted natural colors as specified by the BLM.
10. Reclamation and seeding specifications will be supplied by the BLM when a determination is made as to whether or not the well will be a production site.
11. The location was rotated 180 degrees. The pad will be shortened so that only the southeast corner of the location will extend into the wash.

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

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

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-3829

OPERATOR: Mormac Oil & Gas

WELL NO. Federal 1-14

LOCATION: NE 1/4 NW 1/4 NW 1/4 sec. 14, T. 22S, R. 6E, SLB & M
Grand County, Utah

1. Stratigraphy:

Morrison Fm - Surf. (4266 GR)	Hermosa Fm. - 4600'
* Carmel Fm - 1100'	Paradox mem - 5200'
Navajo S.S. - 1220'	Molas Fm. - ?
Wingate S.S. - 1750'	Leadville Limestone
Chinle Fm. - 2150'	- 8500'
Shinarump Fm - 2400'	TD @ 9800' in Devonian?
Cutler Fm - 3100'	* Entrada Sandstone - 700'

2. Fresh Water:

Useable water reported in Morrison Fm and Entrada and Navajo Sandstones. Saline and brines reported through Paradox mem. in sands and shale/evaporites.

3. Leasable Minerals:

Sodium and Potash will occur in the Paradox mem. of the Hermosa Fm (5200' to 7700')

4. Additional Logs Needed:

gamma, neutron, density, and resistivity need to be run through the Paradox mem (5200' to 7700').

5. Potential Geologic Hazards:

High gas pressures have caused blowouts from the Paradox mem.

6. References and Remarks:

WRD 9-7-71, PI cards, FCGS 1960 guidebook GS Bull. 979-5

Signature: Sray Shrin Date: 12-18-80

JAN 13 REC'D

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO. **U-38239**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME **Mormac/Alexander & Ambrose**

9. WELL NO. **Federal 1-14**

10. FIELD AND POOL, OR WILDCAT **Wildcat**

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA **Section 14-T22S-R16E**

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

1. TYPE OF WORK **DRILL DEEPEN PLUG BACK**

2. TYPE OF WELL **OIL WELL GAS WELL OTHER** **SINGLE ZONE MULTIPLE ZONE**

2. NAME OF OPERATOR **Mormac Oil & Gas Co.**

3. ADDRESS OF OPERATOR **1675 Broadway, Suite 2380, Denver, Colorado 80202**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface *** 1207' FWL, 555' FNL**
At proposed prod. zone **1157'**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* **13 miles South of Green River**

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) **555'**

16. NO. OF ACRES IN LEASE **2007**

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.

19. PROPOSED DEPTH **9800'**

20. ROTARY OR CABLE TOOLS **Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.) **4266' GR**

22. APPROX. DATE WORK WILL START* **January 15, 1981**

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
16"	13-3/8"	54.5#/ft	300'	Cmt to surface
13-3/4"	9-5/8"	36#/ft	2200'	200 sx
7-7/8"	5 1/2"	20 & 23#/ft	9800'	500 sx

It is proposed to drill and test the Mississippian formation at the above location. If the well is productive, a 5 1/2" production string will be run and cemented, or the well plugged and abandoned, whichever test indicates.

See attached NTL-6 for further information.

RECEIVED

DIVISION OF
OIL, GAS & MINING

6/1/81
Spoke to Chris at 303-623-5590
will send proper application to state immediately
M.T.M.

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 *Scott C. Smith* TITLE Operations Manager DATE 11/18/80

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY *W.P. Martin* FOR E. W. GYNN DISTRICT ENGINEER DATE MAR 10 1981
CONDITIONS OF APPROVAL, IF ANY: _____

**CONDITIONS OF APPROVAL ATTACHED
TO OPERATOR'S COPY
*See Instructions On Reverse Side**

DRILLING OR CEMENTING OF
WELL IS SUBJECT TO NTL 4-A
DATED 1/1/80

NOTICE OF APPROVAL

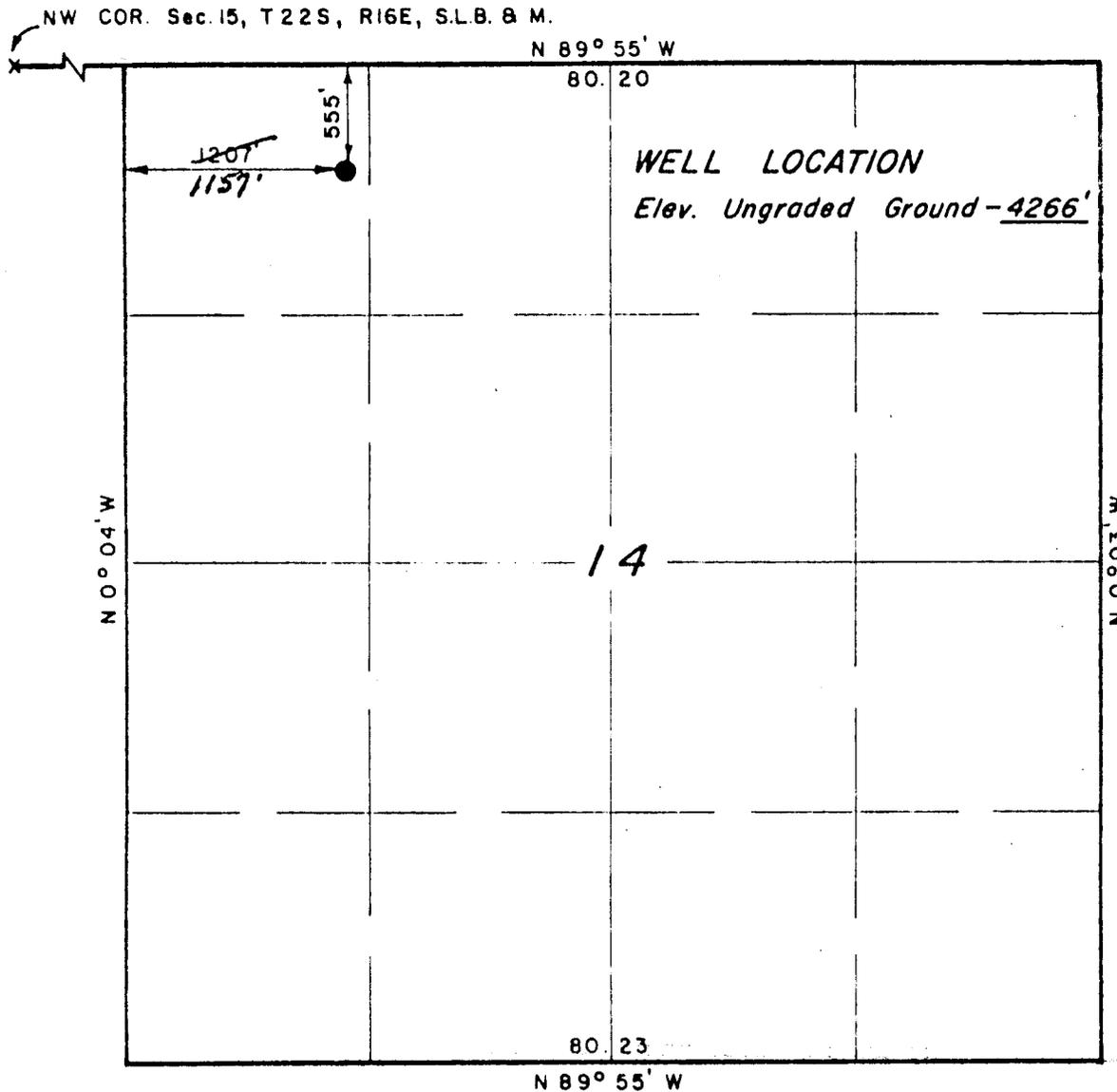
Ut. State O & G

PROJECT

MORMAC OIL & GAS CO.

Well location, located as shown in the NW1/4 NW1/4 Section 14, T22S, R16E, S.L.B. & M. Grand County, Utah.

T 22 S, R 16 E, S.L.B. & M.



NOTE: Basis of Bearings is from Solar Observation taken on September 24th, 1980.

Well location bears S 85°14'50"E 6,530.18' From the Northwest Corner Section 15, T 22S, R16E, S.L.B. & M.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Lawrence E. Key
REGISTERED LAND SURVEYOR
REGISTRATION NO 3137
STATE OF UTAH

UTAH ENGINEERING & LAND SURVEYING P.O. BOX Q - 110 EAST - FIRST SOUTH VERNAL, UTAH - 84078	
SCALE	DATE
1" = 1000'	10 / 7 / 80
PARTY	REFERENCE
RK DB BK AC	GLO Plat
WEATHER	FILE
Clear / hot	MORMAC OIL & GAS CO

X = Section Corner Located

EXHIBIT 1

NTL-6 ENVIRONMENTAL STATEMENT

SURFACE USE PLAN

OPERATOR: Mormac Oil & Gas Co.
LEASE & WELL NAME: Mormac/Alexander & Ambrose Federal 1-14
LOCATION: NW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 14-T22S-R16E (1207' FWL, 555' FNL)
COUNTY & STATE: Grand County, Utah ¹¹⁵⁷

TO: The United States Geological Survey (USGS) and the Bureau of Land Management (BLM).

The following information, maps, plats and description of various surface characteristics should fulfill the requirements of the various agencies as to the environmental commitment of the operator at the above named well site.

1. Geologic Name of the Surface Formation

The well will be spudded in Cretaceous sandy-clay loam.

2. Estimated Tops of Important Geologic Markers

<u>FORMATION</u>	<u>DEPTH</u>
Carmel	1100
Navajo	1220
Wingate	1750
Chinle	2150
Shinarump	2400
Coconino	3100
Permian	3750
Honaker Trail	4600
Paradox	5200
Salt Wash	5750
Desert Creek	6300
Akah	6700
Barker Creek	7400
Cane Creek	8000
Leadville	8500

3. Estimated depth at which Anticipated Water, Oil, Gas or other Mineral-bearing Formations are expected to be encountered

Possible oil and/or gas zones are the Hermosa, Leadville, Desert Creek, Ismay and McCracken.

4. Proposed Casing Program

13-3/8" K-55, 54.5#/ft, new to 300'
9-5/8" K-55, 36#/ft, new to 2200'
5 $\frac{1}{2}$ " C-95, 20 and 23#/ft, new to TD, approximately 9800'

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

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator/Project Name Mormac Oil & Gas Co. Federal 1-14
Project Type Wildcat Oil Test
Project Location 1157' FWL 555' FNL, Sec. 14, T22S, R16E, Grand Co., UT
Date Project Submitted November 21, 1980

FIELD INSPECTION Date January 9, 1981

Field Inspection

Participants Chris Pritchard - Mormac
Keith Brady Dirt Contractor
Tom Hare Bureau of Land Management
Glenn Doyle U. S. Geological Survey

Typing In & Out: 1/26/81

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.

January 16, 1981
Date Prepared

Glenn M. Doyle
Environmental Scientist

I concur

1/31/81
Date

EWS
District Supervisor

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria 516 DM 2.3.A	Federal/State Agency			Local and private correspondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
	Correspondence (date)	Phone check (date)	Meeting (date)						
1. Public health and safety					1, 2				
2. Unique characteristics					1, 2				
3. Environmentally controversial					1, 2				
4. Uncertain and unknown risks						4			
5. Establishes precedents					1, 2				
6. Cumulatively significant							6		
7. National Register historic places	1 - 1/21/81								
8. Endangered/threatened species	1 - 1/21/81								
9. Violate Federal, State, local, tribal law						4			3

Site-specific stipulations attached.

COMMON REFERENCE LIST

NEPA Categorical Exclusion Review

1. SMA Input
2. Reviews, reports, or information received from Geological Survey (CD, GD, WRD, TD).
3. Lease Stipulations/Terms
4. Application to Drill
5. Operator correspondence
6. Field observation
7. Private Rehabilitation Agreement

Site-Specific Stipulations

1. Rotate the location 180° in order to place the reserve pit in native soil.
2. Alter the reserve pit dimensions to 10' x 30' x 300' to accommodate the rig and the topography.
3. Move the location 50' to the west to avoid the main drainage on the east.
4. At the SE corner of the wellpad, the main drainage will be rerouted and the fill slope riprapped with rock to stabilize it.

5. Lessee's or Operator's Minimum Specifications for Pressure Control Equipment.

BOP will be as shown in Exhibit 3 attached hereto. The blind and pipe rams will be tested to 2000 psi and held for 20 minutes for each set of rams before the surface casing shoe is drilled out. During drilling, the pipe rams will be closed once a day and a check made for seating, fluid loss and operation. On each trip, the blind rams will be closed and a check made for seating, fluid loss and operation.

6. Type and Characteristics of the Proposed Circulating Medium

The hole will be drilled with rotary tools to total depth. A 16" surface hole will be drilled with a gel and lime mud to set 13-3/8" surface casing at approximately 300'. A 13-3/4" hole will be drilled with a gel and lime mud to approximately 2200', where 9-5/8" intermediate casing will be set. A 7-7/8" hole using a low solid, non-dispersed salt mud system will be used to drill to the total depth of approximately 9800'.

7. Auxiliary Equipment to be Used

A kelly cock will be used on the kelly, and a bottom hole float will also be installed. A full opening safety valve subbed to drill pipe threads will be on the floor at all times. Monitoring of the mud system will be performed using floats and daily measurements by a mud engineer.

8. Testing, Logging and Coring Programs to be Followed with Provision made for Required Flexibility

Drill stem tests will be run if samples, shows in the mud or drilling breaks indicate hydrocarbons. The well logging program will consist of dual induction lateral log from TD to surface. A neutron and density log will be run across zones of interest. If the well is determined to be commercial, 5 1/2" casing will be run and cemented. The indicated productive interval will be tested by perforating, acidizing and testing the zone for commercial hydrocarbon production. If the zone appears to have commercial quantities, we will then pressure test the zone to ascertain further stimulation treatment or producing as currently completed.

9. Anticipated Abnormal Pressures or Temperatures Expected to be Encountered

No abnormal pressures or temperatures are anticipated. Also, no potentially hazardous hydrogen sulfide gas is expected.

10. Anticipated Starting Date and Duration of Operations

Anticipated spud date is the first part of January, 1981, with subsequent drilling and completion operations lasting 60-90 days.

REC'D MAR 13 1961

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company Mormac Oil & Gas Co. Well No. 1-14
Location Sec. 14-225-16E Lease No. U-38239

A COPY OF THESE CONDITIONS SHOULD BE FURNISHED YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (30 CFR 221), and the approved plan of operations. The operator is considered fully responsible for the actions of his subcontractors. The following items are emphasized:

1. There shall be no deviation from the proposed drilling and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 30 CFR 221.22. Any changes in operations must have prior approval of this office. Pressure tests are required before drilling out from under all casing strings set and cemented in place. Blowout preventer controls must be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to insure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. All BOP pressure tests must be recorded on the daily drilling report.
2. All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and furnished this office for analysis. All oil and gas shows will be adequately tested for commercial possibilities, reported, and protected.
3. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of this office. If operations are to be suspended for more than 30 days, prior approval of this office must be obtained and notification given before resumption of operations.

In the event abandonment of the hole is desired, an oral request may be granted by this office but must be timely followed within 15 days with a "Notice of Intention to Abandon" (Form 9-331). Unless the plugging is to take place immediately upon receipt of oral approval, the District Engineer must be notified at least 48 hours in advance of the plugging of the well in order that a representative may witness plugging operation. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form 9-331) must be submitted within 15 days after the actual plugging of the well bore, reporting where the plugs were placed, and the current status of the surface restoration. If surface restoration has not been completed at

Operator

at that time, a follow-up report on form 9-331 should be filed when all surface restoration work has been completed and the location is considered ready for final inspection.

4. The spud date will be reported orally to the District Engineer within 48 hours after spudding. If the spudding occurs on a weekend or holiday, wait until the following regular workday to make this report.

Periodic drilling progress reports must be filed directly with the District Engineer's office on a frequency and form or method as may be acceptable to the District Engineer.

In accordance with NTL-1, this well must be reported on Form 9-329 "Monthly Report of Operations," starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report should be filed in duplicate directly with the U.S. Geological Survey Area Office, P.O. Box 2859, Casper, Wyoming 82602.

Any change in the program must be approved by the District Engineer. "Sundry Notices and Reports on Wells" (form 9-331) must be filed for all changes of plans and other operations in accordance with 30 CFR 221.58. Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground will require the filing of a suitable plan pursuant to NTL-6 and prior approval by the District Engineer.

5. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (form 9-330) will be submitted not later than 15 days after completion of the well or after completion of operations being performed, in accordance with 30 CFR 221.59. Two copies of all logs run, core descriptions, core analyses, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 9-330. Samples (cuttings, fluid, and/or gas) will be submitted only when requested by this office.

6. Significant surface values (are) (~~are not~~) involved at this location. Accordingly, you (must) (~~need not~~) notify the Surface Management Agency at least (24) (~~48~~) hours prior to commencing field operations to allow the Surface Management Agency office to have personnel present for consultation during the construction of roads and locations.

The Surface Management Agency contact is: Tom Hare
Office Phone: 801-259-6111, Home Phone: _____
City: Moab, State: Utah

The U.S. Geological Survey District office address and contacts are:

Address: 2000 Administration Building, 1745 West 1700 South, SLC, Utah 84104

Office Phone: (801) 524-4590

District Engineer E.W. Guynn

Home Phone: (801) 582-7042

Asst. Dist. Engineer W.P. Martens

Home Phone: (801) 466-2780

Asst. Engineer R.A. Henricks

Home Phone: (801) 484-2294

7. SURFACE OPERATING STANDARDS

Unless otherwise specified herein, construction and maintenance of surface facilities approved under this plan shall be in accordance with the guidelines set forth in the BLM/FS/GS Oil and Gas Brochure entitled, "Surface Operating Standards for Oil and Gas Exploration and Development." This includes but is not limited to such items as road construction and maintenance, handling of top soil, and rehabilitation.

8. If a replacement rig is contemplated for completion operations, a "Sundry Notice" to that effect must be filed for prior approval of the District Engineer, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
9. Pursuant to NTL-2B requirements regarding disposal facilities for new wells, this is authorization for unlined pit disposal of the water produced from this well for a period of 90 days from the date of initial production for sales purposes. During this period, an application for approval of the permanent disposal method, along with the required water analysis and other information must be submitted for the District Engineer's approval. Failure to timely file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order until the application is submitted.
10. This permit is valid for a period of one year from the date of approval. If construction does not commence within 90 days from approval, the operator must contact the Surface Management Agency 15 days prior to beginning construction. Construction under adverse conditions may require additional stipulations. If the permit terminates, any surface disturbance created under the application must be rehabilitated in accordance with the approved plan. After termination, future operations will require a new application be filed for approval.
11. If a tank battery is constructed on this lease, it must be surrounded by a fire wall of sufficient capacity to adequately contain the storage capacity of the battery.

12. _____

SUPPLEMENTAL STIPULATIONS OF APPROVAL ATTACHED

Mormac/Alexander and Ambrose
Federal 1-14
U-38239
Section 14, T. 22 S., R. 16 E.

Supplemental Stipulations

1. Excess water will not be disposed on roads or any other land surface.
2. Minor diversion (less than 100 linear feet) of the ephemeral stream on the east side of the pad is acceptable as discussed on-site.
3. The southeast corner of the pad adjacent to the existing ephemeral stream will be riprapped at a 1:1 slope.
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 - Minor re-routing is allowed on the last 1.0 mile of access road as discussed on-site.
 - Low water crossings will be used whenever drainages are crossed.
 - A single road turnout will be constructed as shown in Figure 5.
5. A trash cage will be used in lieu of a trash pit and all trash will be backhauled and properly disposed.
6. Four inches (approximately 800 cu. yds.) of topsoil shall be stockpiled on-site for reclamation purposes.

7. Stockpile topsoil will not be used for overflow berms around production facilities.

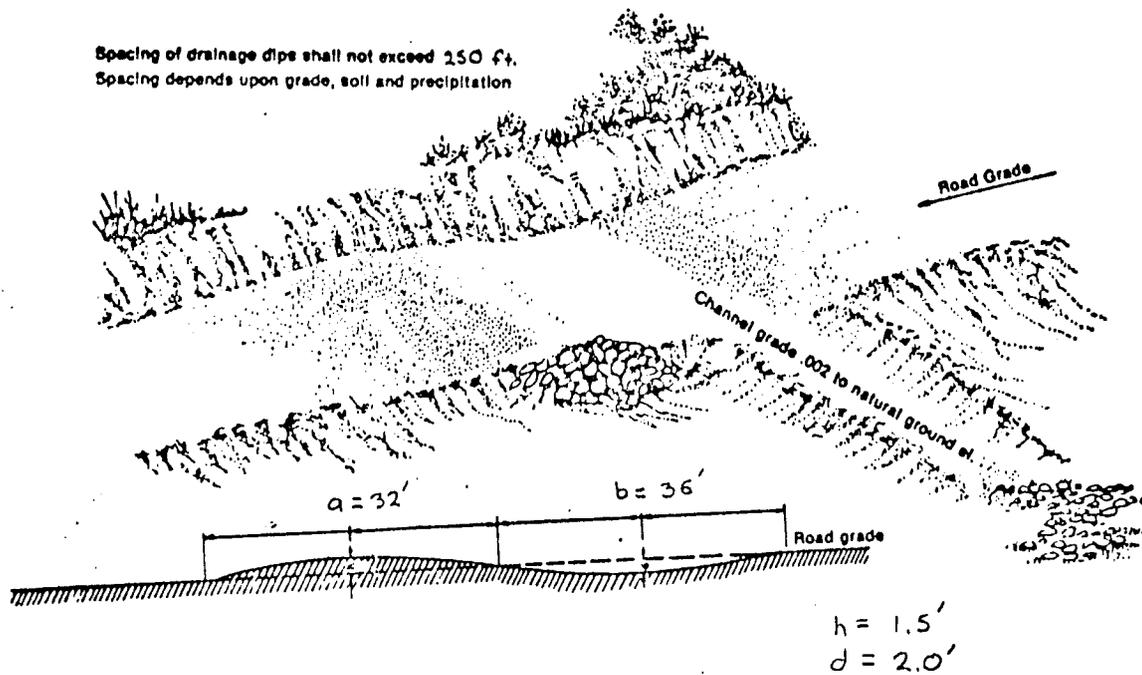
8. If the well is a producer, all production facilities will be painted natural colors, per attached list.

9. The location will be rotated 180 degrees. The pad will be shortened so that only the southeast corner of the location will extend into the wash.

10. The reserve pit dimensions will be altered to 10' X 30' X 300' to accommodate the rig and the topography.

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

Spacing of drainage ditches shall not exceed 150 ft.
Spacing depends upon grade, soil and precipitation



CROSS SECTION OF WATERBREAK ON c

Figure 4. "Thank-u-Mam" for Slight to Moderate Slope for Access Roads

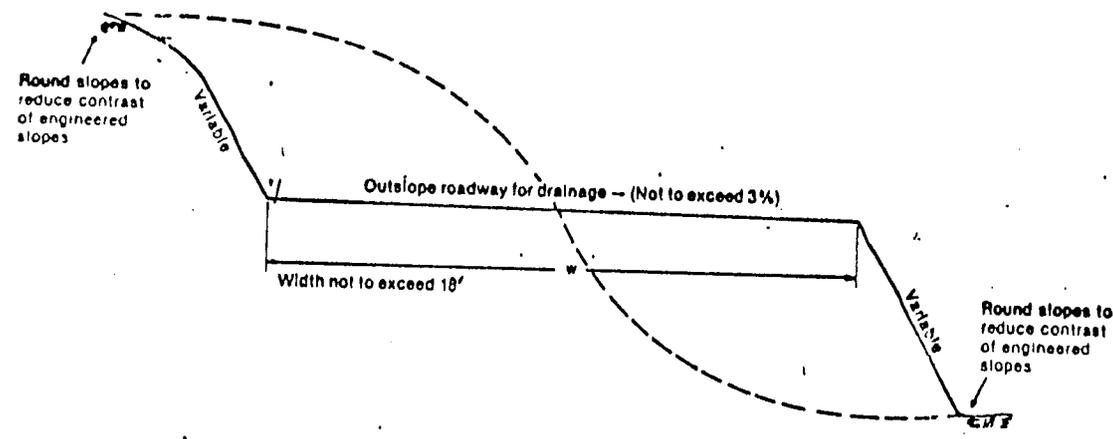
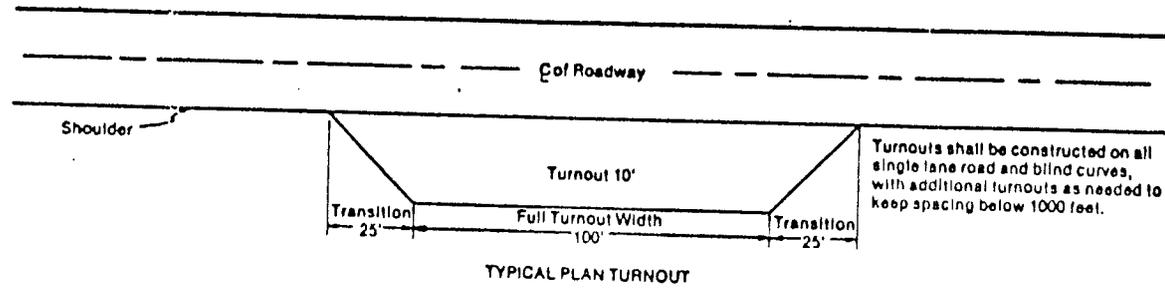
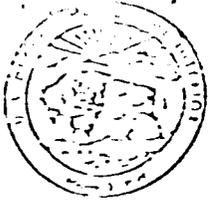


Figure 5. Typical Temporary Service Road



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

SUGGESTED COLORS TO PAINT OIL & GAS PRODUCTION FACILITIES

Cisco Desert and Flats below the Bookcliffs:

Dynasty Green	(Sears)
Tumbleweed	(Pratt & Lambert)
Desert Tan	-----
Sage Gray	(Pratt & Lambert)

Bookcliffs Region:

Sage Gray	(Pratt & Lambert)
Sea Life	(Pratt & Lambert)
Dynasty Green	(Sears)

Similar hues other than the ones mentioned above must be approved by the Grand Resource Area Manager.

MORMAC OIL & GAS CO.

Multi-point Requirements

Mormac/Alexander & Ambrose Federal 1-14

NWNW Section 14-T22S-R16E (120' FWL, 555' FNL)
Grand County, Utah

1. EXISTING ROAD

The area has been surveyed and staked by a registered land surveyor. (Exhibit 1)

The proposed Federal 1-14 location is shown on attached topographic map (Exhibit 2). Existing roads are color-coded green and red indicates planned access. To reach the Mormac/Alexander & Ambrose Federal 1-14 from Green River, Utah, travel east on Highway 6 for approximately 4.9 miles. Turn south onto existing dirt road. Proceed approximately 5.2 miles, then south at location marker, and continue south for approximately 2.9 miles. Travel 200 feet on new access to proposed location. The existing road into the location will require minor improvements, i.e., road will be bladed smooth.

2. PLANNED ACCESS ROADS

The planned access road shown on Exhibit 2 will proceed 200 feet west of existing road to the proposed well site. The width will be approximately 16 - 20 feet. Maximum grade will be approximately 12 to 15%. One turnout will be constructed in NWSW Section 11. All drainage will be according to USGS and BLM specifications. No culverts or cattleguards are necessary.

3. LOCATION OF EXISTING WELLS

Exhibit 4 shows existing wells within a one-mile radius of the proposed location.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

There are no existing lessee/operator owned facilities. In the event of gas production, a heated separator, flow lines, condensate and water storage tanks will be installed on the existing well pad (150' x 100'). In the event of oil production, a beam pumping unit, heated 3-phase separator, 4-400 barrel tanks and the necessary buried and surface lines will be installed (150' x 100').

Any construction will utilize soil materials native to the site. Construction methods will be employed to assure no drainage flows are impounded. Construction will be performed to prevent loss of any hydrocarbon from the site. This will be done in a manner to facilitate rapid recovery and clean-up.

Any pits constructed will be fenced and flagged to protect wildlife and livestock. The pumping unit will be furnished with guards.

Following completion of construction, those areas not required for continued production will be graded to provide drainage and minimum erosion. Those areas unnecessary for use will be graded to conform with the surrounding terrain and reseeded per BLM's recommendation.

5. LOCATION AND TYPE OF WATER SUPPLY

Water needed for this operation will be hauled by water hauling service trucks from the Green River, located approximately 3 miles from proposed well site.

6. SOURCE OF CONSTRUCTION MATERIALS

Construction materials will utilize soil encountered within the boundaries of the proposed well site.

7. METHODS FOR HANDLING WASTE DISPOSAL

Drill cuttings will be disposed of in the reserve pit. Remaining drilling fluids will be allowed to evaporate in the reserve pit until the pit is dry enough for backfilling. Produced fluids will be stored in the tanks on the location and hauled off by truck.

A trash pit will be provided for garbage and trash to hold it temporarily until it can be hauled to the nearest sanitary landfill. The trash pit will be fenced with a small mesh wire to prevent wind scattering.

A portable toilet will be provided for human waste.

Clean-up of this location will proceed after the rig moves off, as outlined in Section 10 of this report.

8. ANCILLARY FACILITIES

No ancillary facilities will be required.

9. WELL SITE LAYOUT

Exhibit 5 shows the proposed well site layout, cross sections, cuts and fills.

The location of mud tanks, pits, pipe racks, living facilities etc. is also shown on Exhibit 5.

The rig orientation is east and west and the access road enters the drilling pad near the southeast corner.

The reserve pit will not be lined unless extremely porous material is encountered.

10. PLANS FOR RESTORATION OF SURFACE

Within 3 months after the rig is moved off the location, those areas not needed for production facilities will be cleared of temporary structure and the approximate natural contour of the ground restored. Prior to leaving the drill site, upon rig move-out and before reshaping, any pit that is to remain open for drying will be fenced until backfilling and reshaping can be done.

Trash will be hauled to the nearest sanitary landfill.

The stockpiled topsoil will be spread over the disturbed areas, and the area reseeded with seed mixture selected by the BLM.

Prior to rig release, pits will be fenced and so maintained until clean-up. If it is determined there is oil on the pit, the oil will be removed or overhead flagging installed.

Rehabilitation operations will commence in the Spring and be completed in the Fall according to BLM specifications.

11. OTHER INFORMATION

Topography of the proposed area is low slope and drainage beds. Topsoil is red/brown, powdery to clayey. Vegetation on the site is sparse shadscale and grass. Surrounding vegetation consists of sparse shadscale and grass and prickly pear cactus.

For all lands to be affected by the construction of this location and access road, the surface ownership of record is Bureau of Land Management.

Nearest source of water is the Green River located approximately 1½ mile west of proposed well site.

There are no occupied dwellings in the immediate area. Nearest dwelling is the town of Green River located approximately 13 miles north of proposed well site.

There are no significant resources at the proposed well site. The area has been inventoried by a qualified archaeologist and her report is attached. Exhibit 6.

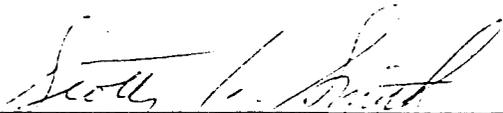
12. OPERATOR'S REPRESENTATIVE

Scotty A. Smith
Operations Manager
1675 Broadway, Suite 2380
Denver, Colorado 80202

Office Phone: 303/623-5590
Home Phone: 303/234-0257

13. CERTIFICATION

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



Scotty A. Smith, Operations Manager

To Pam

Date 5/20 Time 8:05

WHILE YOU WERE OUT

M. Bryce Montgomery

of Sefa Corp.

Phone No. 298-9108

TELEPHONED		PLEASE CALL	
WAS IN TO SEE YOU		WILL CALL BACK	
WANTS TO SEE YOU		URGENT	
RETURNED YOUR CALL			

Message Re: loop in TOG

well NW NW, Section 14

T 225 R 16 E

Operator _____

MORMAC ENERGY CORPORATION

1675 BROADWAY, SUITE 2380 • DENVER, COLORADO 80202 • TELEPHONE (303) 623-5590

June 1, 1981

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

Attention: Michael Mender

RE: Request for Unorthodox Location
Section 14: T22S-R16E

Gentlemen:

Mormac Energy Corporation proposes to drill a well in the NWNW Section 14, Township 22 South, Range 16 East. Because of topography in the area, we request an unorthodox location of 1157' from the West line and 555' from the North line of Sec. 14. Mormac controls property within a 660' radius of the proposed location.

Yours very truly,



Scotty A. Smith
Operations Manager

SAS/peb

NORMAC OIL & GAS CO.

PROPOSED LOCATION

TOPO.

MAP "B"

EXHIBIT 2

SCALE - 1" = 5000'

ROAD CLASSIFICATION

Medium duty  Light duty 

Unimproved dirt 

 U. S. Route

 State Route



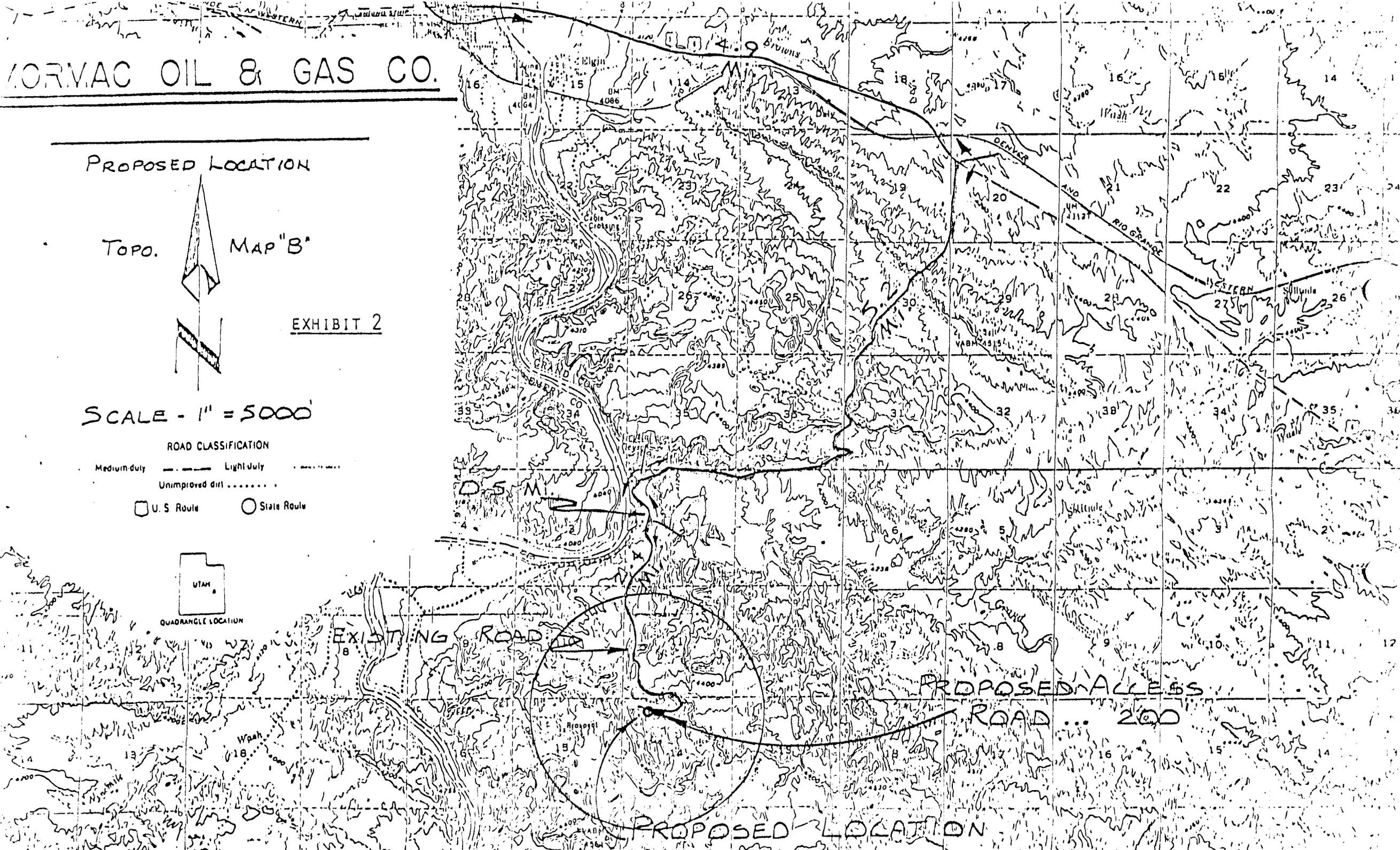
QUADRANGLE LOCATION

EXISTING ROAD

PROPOSED ACCESS

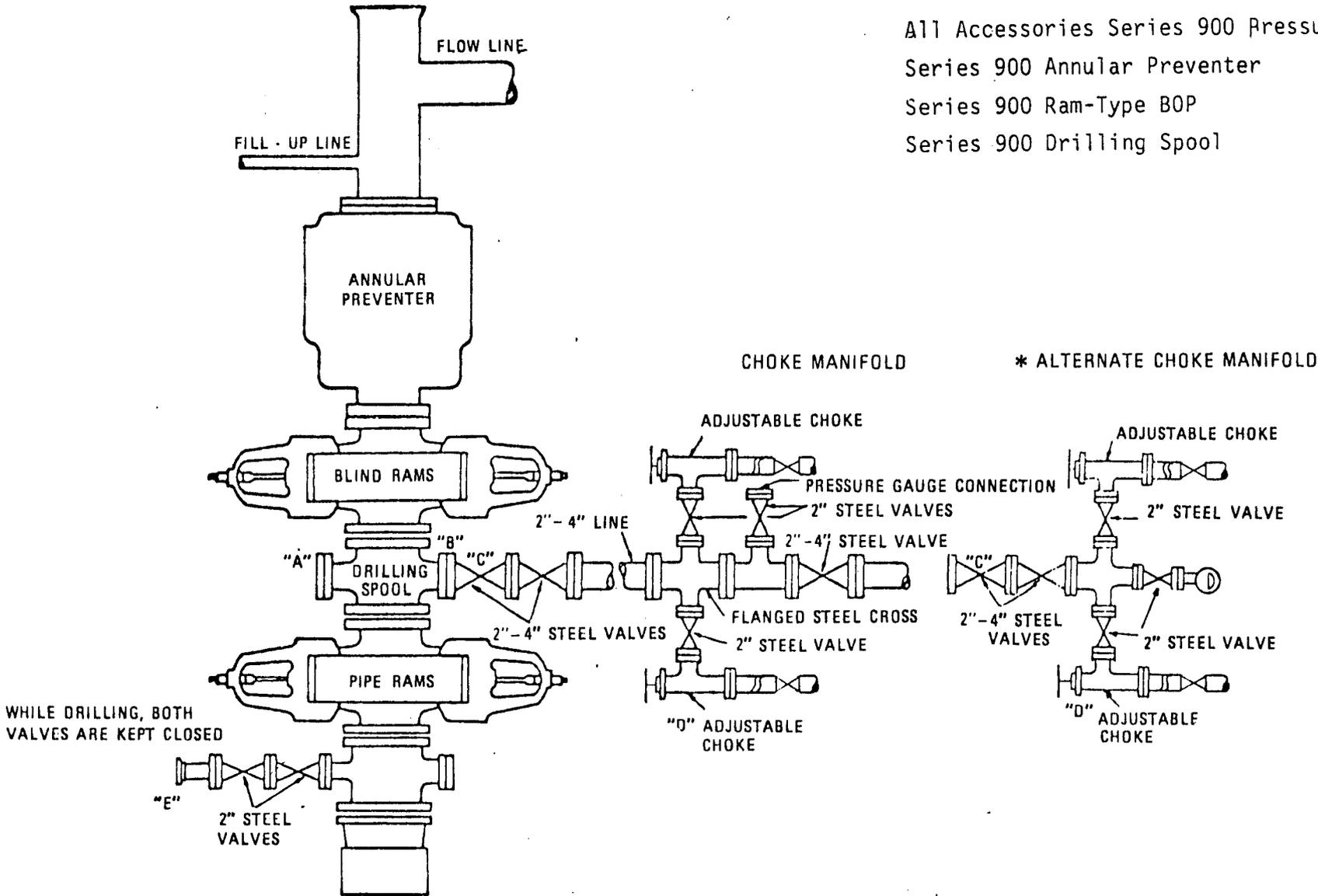
ROAD ... 200

PROPOSED LOCATION



BLOWOUT PREVENTER HOOK-UP

All Accessories Series 900 Pressure Rating
 Series 900 Annular Preventer
 Series 900 Ram-Type BOP
 Series 900 Drilling Spool



WHILE DRILLING, BOTH VALVES ARE KEPT CLOSED

IF POSSIBLE, CASING SPOOL SHOULD BE POSITIONED SO THAT THESE VALVES ARE DIRECTLY UNDER THE BARREL OF THE RAM PREVENTER.

3

2

1

6

ONE MILE RADIUS

10

11

12

7

Proposed Location
Mormac/Alexander & Ambrose Federal 1-14



Ferguson Oil
#1-14 U-TEX et al
Temp Aban

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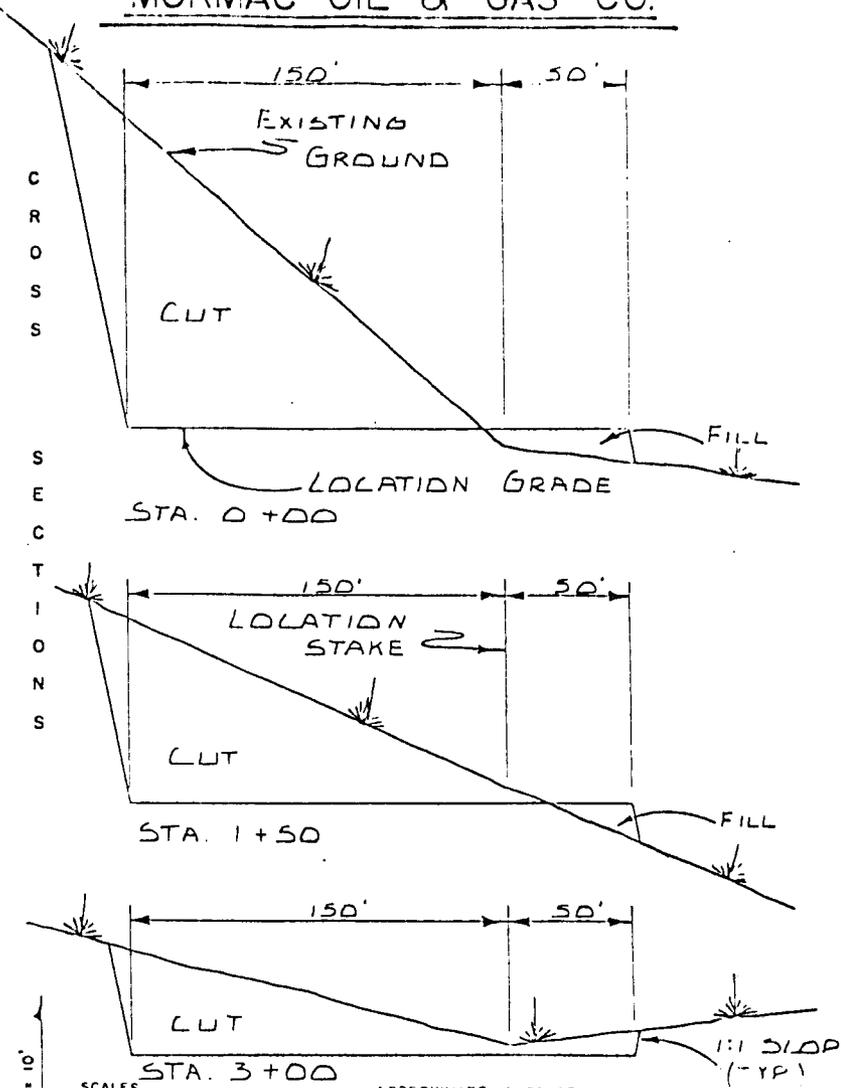
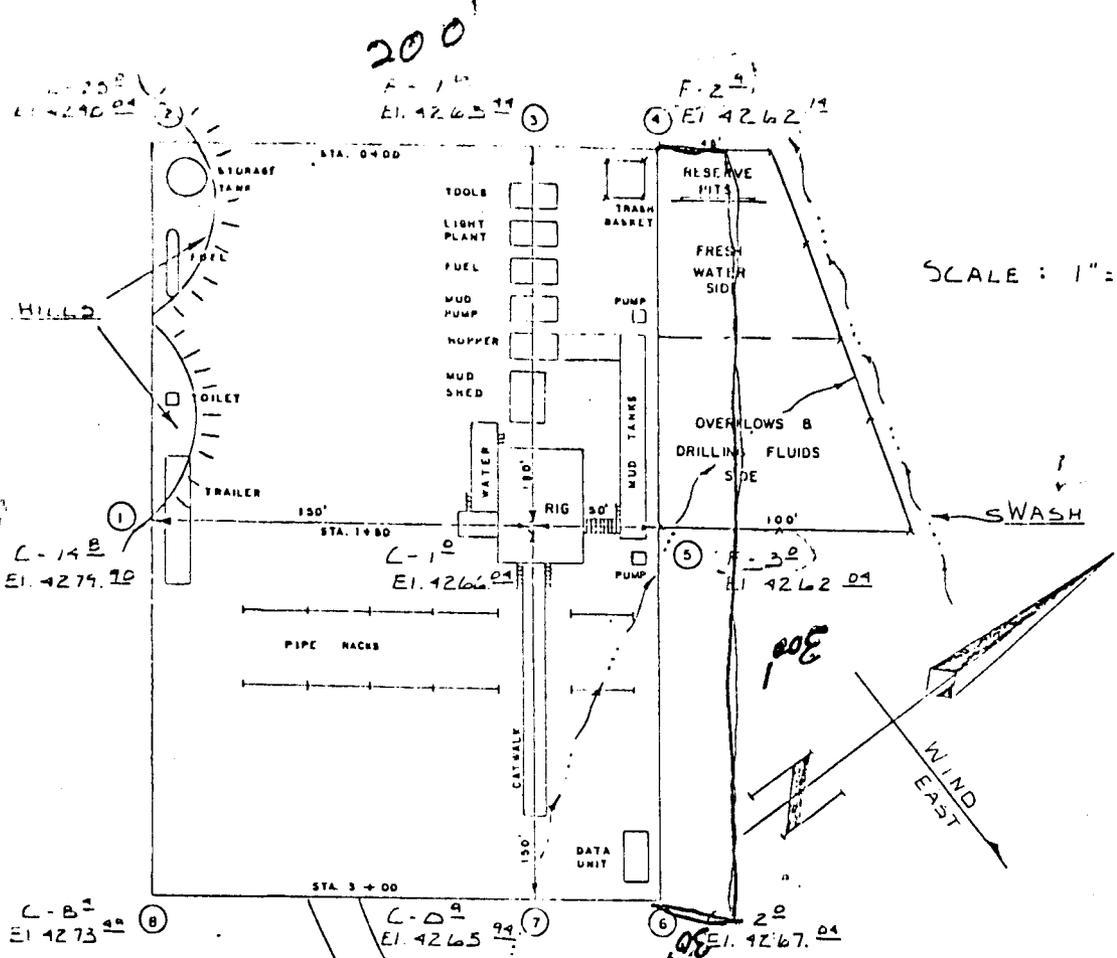
EXHIBIT 4

27

26

25

MORMAC OIL & GAS CO.



APPROXIMATE YARDAGES

Cubic Yards of Cut	15,525
Cubic Yards of Fill	684

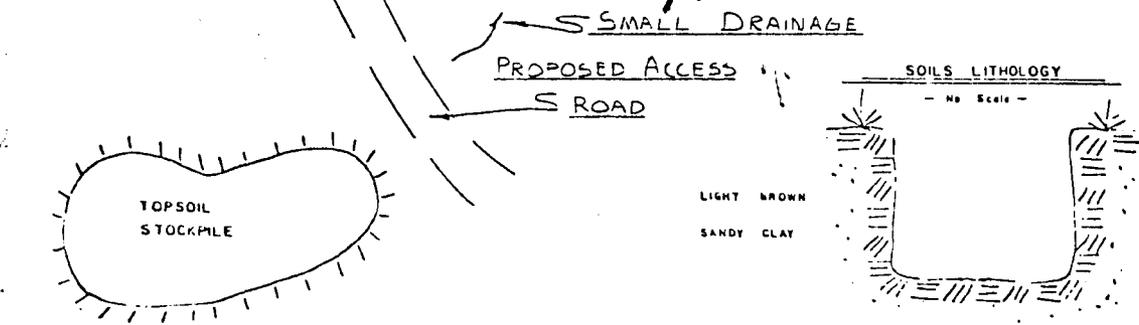


EXHIBIT 5
MORMAC OIL & GAS CO.

For BLM Use Only

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

Summary Report of Inspection for Cultural Resources

BLM Report ID No. [grid]

Report Acceptable Yes ___ No ___

Mitigation Acceptable Yes ___ No ___

Comments: _____

1. Cultural Report or Project [M]o[r]n[m]a[c] [G]r[e]n [R]iv[er] [P]r[o]s[p]e[c]t

2. Development Company Mornac Oil & Gas, Inc.

3. BLM Mini Permit No. [grid] 4. BLM Antiquities Permit No. [80-111-051]

5. Report Date [0]c[t] 3 h 9 8/6. Field Work Dates 9/25/80

7. Responsible Institution [G]o[r]d[o]n & [K]r[ai]n [Z]u[s]h

8. Fieldwork Location: TWN [2]2 [S] Range [1]6 [E] Section(s) [1]4

9. Resource Area [G]r Other: Grand

BO = Bonneville, WA = Wasatch, HR = House Range, WS = Warm Springs, SE = Sevier River, HM = Henry Mtns., BR = Beaver River, DX = Dixie, KA = Kanab, ES = Escalante, SJ = San Juan, GR = Grand, PR = Price River, SR = San Rafael, DM = Diamond Mountain, BC = Book Cliffs.

10. Description of Examination Procedures: Lit. Search: 9/80 No sites on record for Sec. 14. 100% pedestrian survey coverage by 3-4 meter-wide parallel, zigzag transects throughout staked well pad area and for approximately 50 to 100 feet surrounding the pad area. Photographs: GK-80-50-#12-#15. Mini-permit sent 9/19/80.

Table with 2 columns: Surveyed (Linear Miles, Definable Acres, Legally Undefinable Acres) and values (104, 113, 122, 112, 121, 130)

12. Inventory Type [I] R = Reconnaissance, I = Intensive, S = Statistical Sample

13. Description of Findings (attach appendices, if appropriate) GK-LOC-80-#15, a prehistoric activity locus of 3 utilized items was found within well pad boundaries. Items relocated outside of proposed impact zones. Locality is felt to be insignificant to the prehistory of the area due to paucity of remains & lack of diagnostic artifacts. (See attached LOC form.) Project area found to be natural source of chert & quartzite materials.

14. Number Sites Found: [0] No sites = 0 132 137 15. Collection: [N] Y = Yes, N = No

16. Actual/Potential National Register Properties Affected: NONE

17. Conclusion/Recommendations: As locality is felt to be insignificant to prehistory of area, GK-LOC-80-#15 is deemed ineligible for nomination to the National Register of Historic Places. As resources have been relocated outside proposed impact zones, No Further Work is recommended for the resources. Cultural Resource Clearance is recommended for Mornac Oil & Gas to proceed with construction of project as planned, contingent upon work stoppage & notification of the proper BLM Moab District agent should any subsurface cultural (cont.)

18. Signature of person in direct charge of field work: [Signature]

19. Signature and Title of Institutional Officer Responsible: [Signature] Principal Investigator

17. cont.) deposits be encountered during construction of the project. UT 8100-3 (4/79)



ISOLATED FIND RECORD

Locality

1) Resource No.: GK-LOC-80-#15 (2) Temp. No.: _____ 3) County Grand, UT

I. LOCATION

4) Legal Location: NE 1/4 & SE 1/4, NW 1/4, NW 1/4, Sec. 11, T 22S R 16E PM S.L.B. & M.

5) USGS Quad: Name Green River, UT Size 15 min. Date 1954

6) UTM: Zone 12, 5, 7, 5, 5, 7, 5, 4, 3, 0, 6, 2, 5 Q-N. Attach copy of portion of USGS Quad.

II. ARCHAEOLOGICAL DATA:

7) Artifacts: a) 1 brn/white chert/chalcedony creek cobble with left lateral edge bifacially worked - dk. brn cobble cortex dorsal side - possible chopper function

b) 1 red chert spall with 1 lateral edge unifacially worked

c) 1 clear/orange chalcedony tool with 1 edge bifacially worked & possible drill

8) Inferred function/description: function but tip has been fractured-some work along other edges. Item a) was found on top of a sandstone rock (6" high) at the edge of a drainage bed

Dim.: a) 9 x 7 cm. Item b) found just S of drainage bed on small rise. Item c) found

b) 6 x 2.5 cm. near base of knob to S of drainage.

c) 5 x 4.1 cm.

9) Cultural Affiliation unknown Time Period unknown EC

10) ^{LOC} Dimensions 225 ft X 150 ft AD

III. ENVIRONMENTAL DATA:

11) Elev. 4240 ft. 1292 m. 12) Soil red/brown - powdery to clayey

13) Topography low slope & drainage beds 14) Slope: size 3-8% surrounding 0-15%

15) Nearest water: name/distance unnamed seasonal tributary to Green River elev. 4240' dist. 6±150' direction N

Nearest permanent water Green River elev. 4040' dist. 1 1/2 mi direction NW

16) Veg. on site sparse shadscale & grass 17) Surrounding veg. same with prickly pear cactus

Additional Comments: ground covered with naturally-occurring chert/ chalcedony & quartzite pebbles & cobbles

IV. ADDITIONAL INFORMATION: (Narrative, drawings, sketch pad)

Locality found within staked well pad boundaries of proposed Mormac Oil & Gas Green River Prospect Location. Two items relocated to areas outside of proposed impact zones-1 item found outside of staked well pad area.

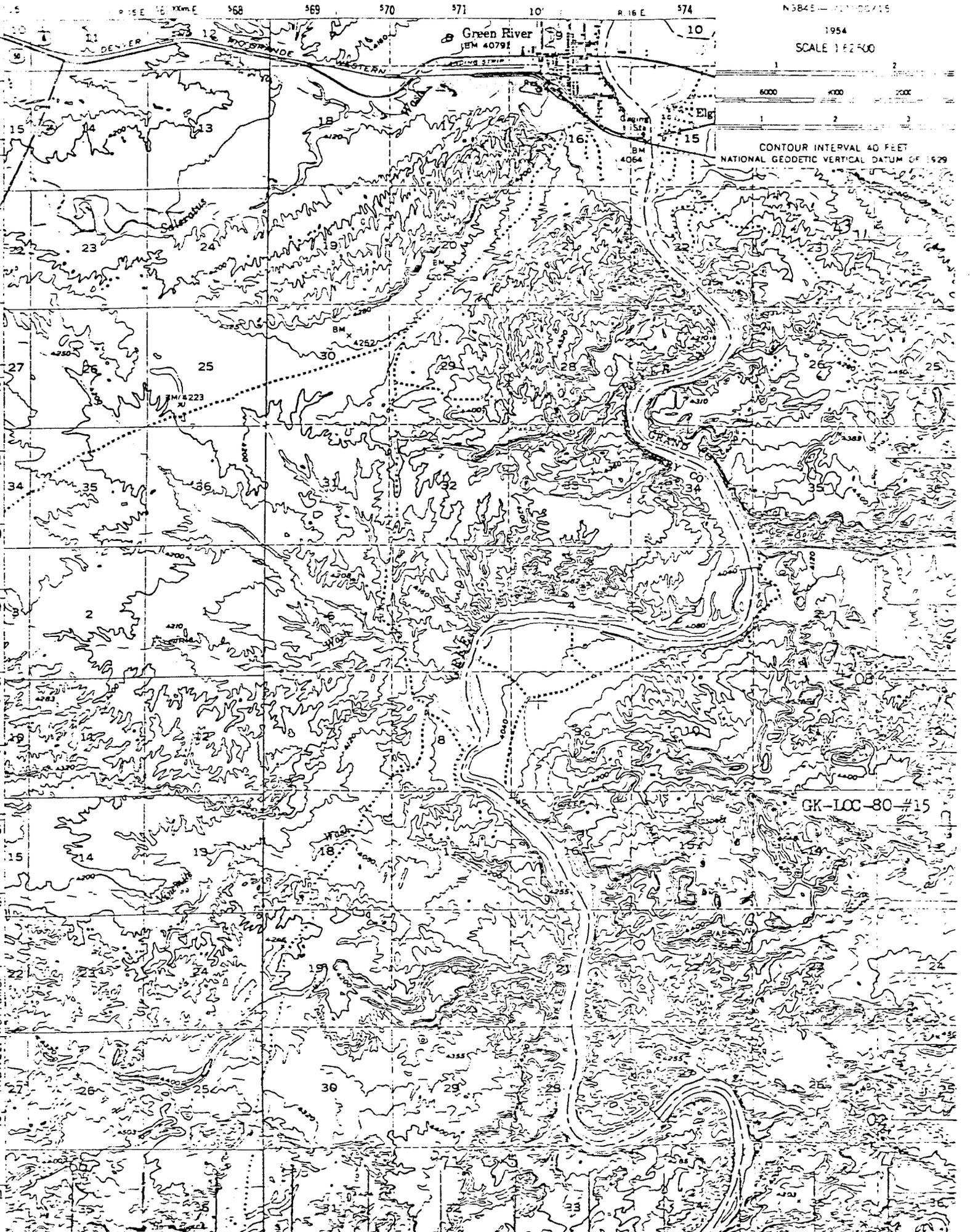
V. REFERENCE DATA:

18) Collection: yes no X describe _____

19) Repository: _____ 20) Landowner BLM

21) Report title UT BLM 8100-3 Form for Proposed Mormac Green River Prospect Location 22) Recorder D. Knox

23) Affiliation Gordon & Kranzush, Inc. 24) Date 9 / 25 / 80



PROJECT AREA SUMMARY SHEET

Project: Proposed Mormac Green River Prospect Well Location

Date(s) of survey: 9/25/80

County: Grand, UT

Proposed action: Construction of 1 oil/natural gas well location - minor improvement of existing roads into location.

Coverage(number of acres, general description and location, etc.)

Level IV: 3.5 acres of area including & surrounding staked well pad location.

Level III:

Legal description of project area: T22S, R16E, Section 14, NW $\frac{1}{4}$ NW $\frac{1}{4}$ S.L.B.& M.

Project area boundary delineation: staked well pad corners

Description of Study Area

Elevation Range: 4240 feet

Vegetation: sparse shadscale, grass, prickly pear cactus

Slope: 0-8% through pad area

Geology: Dakota Sandstone & Mancos Shale formations

Native lithics: sandstone, shale, conglomerates, quartz, chert

Other available resources: none - nearest fertile area around Green River 2-3 miles to NW

Water sources (name, nature, etc.): several unnamed seasonal drainages - Green River 2-3 miles to NW

Ground visibility: 85-100%

Vantage: poor due to higher ground surrounding as pad located in bottom area near dry drainage bed with steep rimrock lined wall to N & knobs to S

Exposure (types of limitation): pad area open however is surrounded by higher ground providing substantial protection

Inventory Results (list, describe, assess re: NR criteria, etc.)

Categories

Recent: jeep road disturbance, staking from dry hole in area, road disturbance from previous access into dry hole, numerous mining claims staked throughout area

Historic: none

Prehistoric: Activity locus GK-LOC-80-#15 consisting of 3 utilized items: a possible chopper, a worked spall unifacial knife?, & a bifacially worked tool with possible drill point. Materials utilized were native chert & chalcedony. 2 items found near dry drainage bed, 1 item at base of knob S of drainage - items diffusely distributed throughout project area. Due to the paucity of artifacts, the lack of diagnostic artifact, & the isolated nature of the remains, GK-LOC-80-#15 is felt to be insignificant to the prehistory of the region. As such, it is deemed ineligible for nomination to the National Register of Historic Places.

Impact: 2 items were located within pad boundaries - these were relocated outside of proposed impact zones. The other item was located outside of staked pad boundaries & was left in situ. No Effect to GK-LOC-80-#15 is expected from proposed Mormac actions.

Recommendations:

Prehistoric Resources: As GK-LOC-80-#15 is deemed ineligible for nomination to the National Register, No further Work is recommended for this resource. Cultural Resource Clearance is recommended for Mormac to proceed with construction of proposed project with subsurface cultural deposits stipulation.

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease
Alexander & Ambrose Oil Corporation, 1675 Broadway, #2380, Denver,
DISTRICT LAND OFFICE: Utah Colorado 80202
SERIAL No.: U-38239

and hereby designates

NAME: Mormac Oil & Gas Co.
ADDRESS: 1675 Broadway, #2380, Denver, Colorado 80202

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):

Township 22 South, Range 16 East SLM
Section 3: Lots 1, 18, 22, and 23
Section 9: SE $\frac{1}{4}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$
Section 10: N $\frac{1}{2}$, E $\frac{1}{2}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$
Section 11: N $\frac{1}{2}$
Section 12: NW $\frac{1}{4}$
Section 14: N $\frac{1}{2}$, E $\frac{1}{2}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$
Section 23: NE $\frac{1}{4}$, E $\frac{1}{2}$ NW $\frac{1}{4}$

containing 2,007 acres more or less, situated in Grand County, Utah

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.

ATTEST:

Anna M. Litzman
Assistant Secretary

December 19, 1980
(Date)

ALEXANDER & AMBROSE OIL CORPORATION

BY: A. Britton Browne III
(Signature of lessee)
A. Britton Browne, III President
1675 Broadway, Suite 2380
Denver, Colorado 80202
(Address)

Rule 30 CFR 221.20 requires well shall not be drilled closer than 200 feet from the lease boundary, or 200 feet from any legal subdivision, without adequate reasons or consent.

District Oil and Gas Engineer
U. S. Geological Survey
Conservation Division
2000 Administration Building
1745 West 1700 South
Salt Lake City, UT 84104

Re: Stipulation

Dear Sir:

Mormac/Alexander & Ambrose Oil is the owner of U. S. Oil and Gas Lease U-38239, and proposes to drill a well on the leased premises to test for oil and gas at a location in the NW ¼ NW ¼, Section 14, Township 22S, Range 16E, S.L.B&M Meridian, Grand County, State of Utah, 1157' from West line, and 555' from North line of Section 14.

Section 221.20 of the Federal Oil and Gas Regulations requires that no well be drilled less than 200 feet from the boundary of any legal subdivision without the written consent of the Supervisor, United States Geological Survey. The proposed location is approximately 163' from the East boundary line of the NW ¼ NW ¼ of Section 14, but is considered to be necessary because of topography in the area.

Mormac/Alexander & Ambrose Oil Lessee, requests the consent of the Supervisor to the drilling of the proposed well at the above-described location. In consideration of such consent, ^{Mormac/Alexander} & Ambrose Oil, Lessee, hereby expressly covenants and agrees that he will make no separate assignments of the NW ¼ NW ¼, and the NE ¼ NW ¼, Section 14, Township 22S, Range 16E, S.L.B&M Meridian, and that he will keep the two described subdivisions under joint assignment until the above-mentioned well has been plugged and abandoned with the approval of the Supervisor.

Sincerely Yours,


Frank A. Morrison
Vice President

GREEN RIVER
UTAH
15 MINUTE MAPS



Mormon/Alexander's Ambrose ADEL 1-14

Phone Number is Disconnected

** FILE NOTATIONS **

DATE: June 29, 1981

OPERATOR: Mormac dilt & Gasco

WELL NO: Mormac/Alexander + Ambrose Fed. # 1-14

Location: Sec. 14 T. 22S R. 16E County: Grand

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number 43-019-30817

CHECKED BY:

Petroleum Engineer: _____

Director: OK topo exception

Administrative Aide: ok as per Rule C-3^(b) ok on boundaries, ok on any other oil/gas wells

APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. _____

O.K. Rule C-3

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

Lease Designation Fed

Plotted on Map

Approval Letter Written

Hot Line

P.I.

July 6, 1981

Mormac Oil & Gas Company
1675 Broadway, Ste. #2380
Denver, Colo. 80202

RE: Well No. Mormac/Alexander & Ambrose Federal #1-14
Sec. 14, T. 22S, R. 16E,
Grand County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil 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.

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

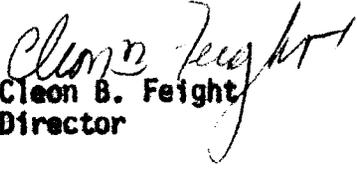
Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

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 43-019-30817.

Sincerely,

DIVISION OF OIL, GAS AND MINING


Cleon B. Feight
Director

CBF/db
CC: USGS

REC'D JIII 1981

cc *copy*
GLH
SAS
File

MORMAC ENERGY CORPORATION

SUITE 100—MORMAC BLDG. • 321 TEXAN TRAIL • (512) 851-2621
CORPUS CHRISTI, TEXAS 78411

July 20, 1981

Texas Energy Oil & Gas Corporation
1250 Poydras Street, Suite 2200
New Orleans, Louisiana 70112

Attention: Connie A. DeLanauville

Re: Green River Prospect
Mormac, et al Federal No. 1-14
Grand County, Utah

Gentlemen:

In connection with the captioned and your letter dated July 10, 1981, this is to confirm that Texas Energy Oil & Gas Corporation assumed all operational responsibilities and liabilities as of 12:00 noon, Mountain Daylight Time on July 11, 1981, under the terms of that certain Letter Agreement dated April 8, 1981, by and between Texas Energy Oil & Gas Corporation and Mormac Oil & Gas Co.

Such operations, responsibilities and liabilities being specifically relative to the drilling of the Mormac-Alexander & Ambrose Federal No. 1-14 located in the Northwest of the Northwest of Section 14, Township 22 South, Range 16 East, Grand County, Utah, and in accord with the terms and conditions of that certain Operating Agreement attached to and made a part of the above said Letter Agreement dated April 8, 1981.

The terms and conditions of various farmout agreements, operating agreements and/or letter agreements between Mormac and other parties owning an interest in the prospect acreage and an interest or reversionary interest in the abovesaid test well shall be binding upon all parties hereto. Further and in accord with a telephone conversation between Mr. D. P. Lohofener of Mormac and Mr. Rodney Bridges of Texas Energy Oil & Gas Corporation, Mormac will pay all invoices through July 10, 1981.

Beginning with invoices dated July 11, 1981, and all subsequent to that date, these will be approved by Mormac and forwarded to Texas Energy Oil & Gas Corporation for further handling.

Mormac continues to be responsible for the interest of its' partners and for maintenance of the leasehold interest committed to this prospect.

Texas Energy Oil & Gas Corporation
July 20, 1981
Page 2

All parties hereto are hereby advised that the applicable Operating Agreements should be amended and are hereby amended to designate Texas Energy Oil & Gas Corporation as operator.

Respectfully,

MORMAC ENERGY CORPORATION


Reece E. Meeker, Jr.

REMjr:kb

cc: P & O Falco, Inc.
Alexander & Ambrose Oil Corporation
Western Associated Development Corporation

RETURN RECEIPT REQUESTED
CERTIFIED NO. P15 335298



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

April 5, 1982

Mormac Oil & Gas Company
1675 Broadway, Suite #2380
Denver, Colorado 80202

Re: Well No. Mormac/Alexander & Ambrose Fed.
#1-14
Sec. 14, T. 22S, R. 16E.
Grand County, Utah

Gentlemen:

In reference to the above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If you plan to drill this location at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

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

Cari Furse
Clerk Typist

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
Mormac Energy Corporation

3. ADDRESS OF OPERATOR
1625 Broadway # 1530 Denver, Colorado 80202

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) 1157' FWL, 555' FNL, NWNW
AT SURFACE:
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF
- FRACTURE TREAT
- SHOOT OR ACIDIZE
- REPAIR WELL
- PULL OR ALTER CASING
- MULTIPLE COMPLETE
- CHANGE ZONES
- ABANDON*
- (other) Notice of Spud

SUBSEQUENT REPORT OF:

-
-
-
-
-
-
-
-
-

RECEIVED
APR 13 1982

DIVISION OF
OIL, GAS & MINING

5. LEASE
U-38239

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Mormac/Alexander & Ambrose

9. WELL NO.
Federal 1-14

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 14-T22S-R16E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

14. API NO.
30817

15. ELEVATIONS (SHOW DF, KDB, AND WD)
266' Ground

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.)*

This is to advise you of the following: above referenced well was spudded May 23, 1981. Effective July 11, 1981, operations of this well were taken over by Texas Energy Oil & Gas Corporation (see attached letter). Subject well was drilled to a total depth of 6336'. A completion was attempted; well was shut in and operations were suspended September 21, 1981(see enclosed report).

This is also to advise you that Mormac Oil & Gas Co. is now Mormac Energy Corporation

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

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

SIGNED [Signature] TITLE Operations Mgr. DATE April 8, 1982

(This space for Federal or State office use)

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

NOTICE OF SPUD

Company: MORMAC ENERGY CORPORATION
Caller: (TEXAS ENERGY OIL & GAS CORP.)
Phone: _____

Well Number: 1-14

Location: NW1/4 14-22S-16E

County: GRAND State: UTAH

Lease Number: U-38239

Lease Expiration Date: _____

Unit Name (If Applicable): _____

Date & Time Spudded: 5-31-81 see 4-8-82 Sundry

Dry Hole Spudder/Rotary: _____

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

Rotary Rig Name & Number: _____

Approximate Date Rotary Moves In: _____

FOLLOW WITH SUNDRY NOTICE

Call Received By: SUNDRY NOTICE REC'D 9-12-82

Date: 4-22-82

RECEIVED
APR 23 1982

DIVISION OF
OIL, GAS & MINING



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

March 17, 1983

Texas Energy Oil & Gas Corporation
 Mormac Energy Corporation
 1625 Broadway # 1530
 Denver, Colorado 80202

wrong address

Re: Well No. Mormac/Alexander & Ambrose
 Federal # 1-14
 Sec. 14, T. 22S, R. 16E.
 Grand County, Utah
 (May 1982- February 1983)

Gentlemen:

Our records indicate that you have not filed the monthly drilling reports for the months indicated above on the subject well.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1B, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

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

Your prompt attention to the above will be greatly appreciated.

Respectfully,

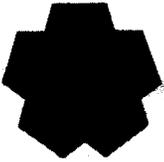
DIVISION OF OIL, GAS AND MINING

Cari Furse

Cari Furse
 Well Records Specialist

CF/cf
 Enclosure

Board/Charles R. Henderson, Chairman • John L. Bell • E. Steele McIntyre • Edward T. Beck
 Robert R. Norman • Margaret R. Bird • Herm Olsen



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

April 21, 1983

Texas Energy Oil & Gas Corporation
1250 Plydras Street, Suite # 2200
New Orleans, Louisiana 70112
Att: Connie A. DeLanerville

Re: Well No. Mormac/Alexander & Ambrose
Federal # 1-14
Sec. 14, T. 22S, R. 16E.
Grand County, Utah
(May 1982- February 1983)

Gentlemen:

Our records indicate that you have not filed the monthly drilling reports for the months indicated above on the subject well.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1B, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

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

Your prompt attention to the above will be greatly appreciated.

Respectfully,

DIVISION OF OIL, GAS AND MINING

Cari Furse
Well Records Specialist

CF/cf
Enclosure

Board/Charles R. Henderson, Chairman • John L. Bell • E. Steele McIntyre • Edward T. Beck
Robert R. Norman • Margaret R. Bird • Herm Olsen

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

State Office Building - Salt Lake City, UT 84114



MAIN OFFICE CARRIERS

NEW ORLEANS, LA. 70113
UNABLE TO DELIVER AS ADDRESSED
UNABLE TO FORWARD



Texas Energy Oil & Gas Corporation
1250 Poydras Street, Suite # 2200
New Orleans, Louisiana 70112
Att: Connie A. DeLaneuville



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

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

April 24, 1984

Texas Energy Petroleum Corp.
Attn. David Dabbs
P.O. Box 729
Humble TX 77347

RE: Well No. Fed. 1-14
API #43-019-30817
Sec. 14, T. 22S, R. 16E.
Grand County, Utah
May 31, 1981 to present

Dear Mr. Dabbs:

Pursuant to our telephone conversation of April 23, 1984 I have enclosed the necessary forms to bring our records on the above well up to date.

Our records indicate that you have not filed the monthly drilling reports for the months indicated above on the subject well. We also need a sundry stating the correct name of the current operator of this well.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1B, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells". We are enclosing forms for your convenience.

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

Your prompt attention to the above will be greatly appreciated.

Respectfully,

Claudia Jones
Well Records Specialist

CLJ/cj
cc Dianne Nielson, Director
Ronald J. Firth, Associate Director

Enclosure



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

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

January 4, 1985

Texas Energy Petroleum Corporation
P.O. Box 729
Humble, Texas 77347

Gentlemen:

Re: Well No. Federal 1-14 - Sec. 14, T. 22S., R. 16E.
Grand County, Utah - API #43-019-30817

Enclosed is a copy of correspondence sent to Mr. David Dabbs regarding the above referred to well. The Division has not as yet received the necessary forms to bring this well into compliance with our rules and regulations.

We have enclosed forms for your convenience to bring this well up to date. Please complete and submit these forms as soon as possible but not later than February 4, 1985.

We will be happy to acknowledge receipt of response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the return.

Thank you for your cooperation in this matter.

Respectfully,

A handwritten signature in black ink, appearing to read "Norman C. Stout".

Norman C. Stout
Administrative Assistant

Enclosures (5)
cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File
0051S/9



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

April 9, 1985

Texas Energy Petroleum Corp.
PO Box 729
Humble, Texas 77347

Gentlemen:

Re: Well No. Mormac/Alexander & Ambrose Federal #1-14 - Sec. 14,
T. 22S., R. 16E., Grand County, Utah - API #43-019-30817

Our records indicate that you have not filed drilling reports for the months of inception to present on the above referenced well. Our rules and regulations stipulate that these reports be filed by the sixteenth of each month until the well is completed.

Enclosed are forms for your convenience in filing the necessary reports as soon as possible but no later than April 22, 1985.

Thank you for your cooperation in this matter.

Sincerely,

Pam Kenna

Pam Kenna
Well Records Specialist

Enclosure

cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File

0161S/70



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

July 2, 1985

TXO Production Corporation
1660 Lincoln #1800
Denver, Colorado 80264

Gentlemen:

Re: Well No. Mormac/Alexander & Ambrose 1-14 - Sec. 14,
T. 22S., R. 16E., - Grand County, Utah - API #43-019-30817

According to information received by this office, the above referenced well is now operated by your company. We have not received the proper notification concerning this change.

Please submit a "Sundry Notice", Form OGC-1b, address and phone number of both the new and old operators and the date the change became effective.

Our records also indicate that drilling reports for the months of inception to completion have not been filed on the above referenced well. Our rules and regulations stipulate that these reports be filed by the sixteenth of each month until the well is completed.

Enclosed are forms for your convenience in filing the necessary reports as soon as possible but no later than July 16, 1985.

Also, please submit to this office all logs run on the above referenced well as soon as possible.

Thank you for your cooperation in this matter.

Sincerely,

Pam Kenna
Well Records Specialist

Enclosure

cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File

0161S/22



TXO PRODUCTION CORP.

1800 LINCOLN CENTER BUILDING
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

RECEIVED

July 12, 1985

JUL 16 1985

**DIVISION OF OIL
& GAS & MINING**

Utah Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center
Suite 350
Salt Lake City, Utah 84180-1203

Attention: Pam Kenna

Re: Mormac/Alexander & Ambrose 1-14
Section 14-T225-R16E
Grand County, Utah
API #43-019-30817

Gentlemen:

TXO Production Corp. is in receipt of your July 2, 1985 letter regarding the referenced well. Please be advised that TXO does not operate this well, nor does it have any interests in or knowledge of the well. TXO may have been linked to this well due to a misunderstanding. Evidently Bryce Montgomery contacted a TXO Engineering Secretary in an attempt to obtain logs for this well and it was suggested to him that he go through your office to obtain logs. If Mr. Montgomery was lead to believe TXO did have an interest in this well, it may have been due to confusion over the name; TXO does have an interest in an Ambra #14-1 well on a Federal lease held by TXO farther east in Grand County, Utah.

I trust you will be able to track down the current operator of the referenced well by contacting the former operator (TEOG?). If you have any questions about TXO wells, please feel free to call.

Very truly yours,

TXO PRODUCTION CORP.

Charles K. Curlee
Environmental Manager

CKC/gbp



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions
verse side)

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

Sup

5. LEASE DESIGNATION AND SERIAL NO.

U-38239

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

FEB 27 1985

7. UNIT AGREEMENT NAME

SUNDRY NOTICES AND REPORTS

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

RECEIVED
MAR 20 1986

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR T.E. Petroleum Corp.

DIVISION OF

3. ADDRESS OF OPERATOR 5315 Manor Oaks Dr. Kingwood, Texas 77339

OIL, GAS & MINING

8. FARM OR LEASE NAME Mormac/Alexander/Ambrose

9. WELL NO. Federal 1-14

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

At surface 1157' FWL 555' FNL SEC.14, T22S, R16E
Grand Co. Utah

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

SEC.14, T22S, R16E

14. PERMIT NO.

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

12. COUNTY OR PARISH

Grand

13. STATE

Utah

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other)

(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.)*

Well History

1. Surface casing 133/8" set at 320'- Cemented to surface.
2. Intermediate 95/8" set at 3445'- Cemented w/ 320sx.
3. Long String 51/2" set at 6336'- Stage collar at 4450'- Cemented w/300sx
4. PBTD 6322'
5. Baker F-1 packer set at 6180' w/ 23/8" tubing stung into it.
6. Perfs. from 6283' to 6273'.

We propose to P&A this well as follows. A proposed date of April 15, 1985.

1. Move in service rig and equipment.
2. Wash salt out of tubing and squeeze a 25 sx cement plug thru the packer in and across the perfs.
3. Cut and pull free 51/2" casing.
4. Cut and pull free 95/8" casing.
5. RIH with tubing and spot a 100' plug 50' in and 50' out of 51/2" casing.
6. Spot 100' plug 50' in and 50' out of bottom of 95/8" casing.
7. Spot 100" plug 50" in and 50' out of 95/8" casing stub.
8. Spot 100' plug 50' in and 50' out of bottom of surface casing.
9. Spot 50' plug at surface and erect regulation marker.
10. If 95/8 is not pulled a stabilization will be set half way between 51/2" stub and surface. plug
11. Location will be rehabed as required by BLM.

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

SIGNED

W.J. Pippin Jr.

TITLE

President of Pippin Inc.

DATE

2/26/85

(This space for Federal or State office use)

APPROVED BY

Kenneth V. Price

TITLE

Acting District Manager

DATE

3/4/85

CONDITIONS OF APPROVAL, IF ANY:

*Approved GN
J 3/7/85*

*See Instructions on Reverse Side



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

December 30, 1991

TO: Ada Jensen
FROM: Vicky Carney *VJC*
RE: Ambrose Federal 1-14, 43 019 30817, SEC 14 T22S R16E
Federal 1-14 #2, 43 019 30904, SEC 14 T22S R16E

In reviewing the above referenced files, I find that several attempts have been made in the past to obtain the Well Completion Reports and logs for these two wells.

The last attempt was made by Norm Stout about March 1986. He contacted Carol Fruediger at the BLM in Moab and was told that they were still holding a bond, they had subsequent P&A sundries for both wells. Carol sent us copies of the P&A sundries and we changed our records to reflect same.

Carol also stated that the Well Completion was not available and the operator had vanished. Since we have no Completion Report, we have no way of knowing if any logs were run, and since the operator has vanished, there is no way to check further for the information.

I am sorry, but I feel there is no other way to check for this information.

cc: Files

FEDERAL 1-14
Grand County, Utah

- 8-22-81 This a.m. depth 6336'. Progress zero. PU Drlg. assembly on 2 7/8" DP. Present operation: drlg out stage collar. DC: \$17,120 TC: \$2,107,125.
- 8-23-81 This a.m. depth 6336'. PBSD 6326'. Drilled stage collar and pressure tested casing w/2,000 psi. Drilled float collar and cement to 6326'. Pressure tested casing w/2,000 psi. Present operation: POOH w/2 7/8" DP. DC \$10,920. TC: \$2,118,045.
- 8-24-81 This a.m. depth 6326'. Ran scraper twice. Present operation: Displacing mud w/brine. DC: \$10,175. TC: \$2,282,220.
- 8-25-81 This a.m. depth 6336'. Plug back 6310' (corrected). Present operation: logging, ran gama ray, CBL and CCL from plug back total depth to surface. Hole is loaded with brine. TC \$2,302,280.
- 8-26-81 This a.m. depth 6336'. Plug back 6310'. Present Operation: WO 2-7/8" DP & Fishing tools. Finished logging, down hole equipment. Attempted to free stuck Baker Model F-1 Packer. DC-\$23,905 TC-\$2,326,185.
- 8-27-81 This a.m. depth 6336'. Plug back to 6310'. Present operation: POOH w/fish string. Picked up fish string on 2 7/8" drill pipe to fish wire line setting tool. TC \$2,352,835
- 8-28-81 This a.m. depth 6336'. Plug back TD 6310'. Present operation: Waiting on new mill. POOH w/setting tool. Ran picker packer. Milled for 6 hours. POOH. TC \$2,371,335
- 8-29-81 This a.m. depth 6336'. Plug back to 6310'. Milled on packer POOH and laid down fish. Picked up bit and tripped in hole. Present operation: trip in hole. DC \$16,500 TC \$2,387,835.
- 8-30-81 This a.m. depth 6336'. Plug back to 6322 1/2'. Trip in hole. Drilled from 6310 to 6322 1/2'. Rigged up Schlumberger. Ran gauge ring. Set Baker model F-1 packer @ 6180'. Present operation: POOH and lay down drill pipe. DC \$19,280 TC \$2,407,115.
- 8-31-81 This a.m. depth 6336'. Plug back to 6322 1/2'. Nipple up BOP stack. Ran 2 3/8" tubing. Rig down tongs. Present operation: spacing out tubing. Preparing to set tubing head. DC \$21,800 TC \$2,428,915.
- 9-1-81 This a.m. depth 6,336'. Plug back to 6,324.5'. P.O.: Cleaning pits and preparing to rig down. Ran 2-3/8", 4.7#, N-80 tbg. w/AHC couplings and equipment. Spaced out. Installed tree. Tested tubing and tree to 5,000 psi. Perf. 6,263-73' w/4 SPF with 1-11/16" capsules oriented in one direction and decentralized. TP 2740 psi at shot. Cleaned up and tested as follows: Opened well at 2000 hrs on 4/64" choke. Rate at 2020 Hrs. 5.28 MMCF with spray of condensate with FTP 2250. Choke plugging. Changed chokes. Pressure declining. Rate stable at 2300 hrs. 115 MCFD with spray of condensate and no water, FTP 200 psi, 10/64" choke. Shut in well at 2300 Hrs.

TIME	SITP
2300	200
2330	900
2400	1300

FEDERAL 1-14
Grand County, Utah

9-1-81 (cont.)

<u>TIME</u>	<u>SITP</u>
0100	2000
0200	2700
0300	2800

Discontinued Readings.
CC: \$2,483,310.

- 9-2-81 Cleaned mud tank and released rig at 8:00 a.m. on 9-1-81. Operation suspended. Dropping from report.
- 9-8-81 Present operation: Preparing to perf from 6273 to 6283'. Bottom hole pressure @ middle perforation 5762 psi (field reading). Flowed well to clean up FTP 425. Choke 16/64". Rate 626 MCF per day. Spray of condensate.
- 9-9-81 Moved in Schlumberger shooting trucks, Rigged up to perf from 6273-6283'. Lubricator would not hold well pressure. Unsafe to bleed off well pressure while running perf gun. Waited on replacement lubricator from Vernal, Utah. Replacement equipment arrived during night. Present operation: preparing to proceed with perf above interval.
- 9-10-81 Present operation: well shut in for build up. Perforated from 6273-6283' with 1 11/16" capsules @ 4 shots per foot. Shut in tubing pressure @ 1800 hours. 4115 psi. Opened well @ 1800 hours on 8/64" choke. FTP @ 1900 hours. 2197 psi. Cleaned well to pit until 2345 hours. FTP 832 psi, Experiencing problems with test equipment. Shut in tubing pressure @ 0015 hours. 1598 psi.
- 9-11-81 Let pressure build up while running BHP recorder. MU & RU Baker wireline unit. Ran dual pressure recorder and hung in seating nipple at 6,198'. Final SITP 3773 psi. Opened well to pit at 1700 hours.

<u>Time</u>	<u>FTP</u>	<u>Choke</u>	<u>Rate</u>	<u>Remarks</u>
1730	1827	10/64"	190,000	BP 80 psi
1800	1460	10/64"	480,000	Well still unloading Making 8.3 bbls/hr cond.
2200	1093	10/64"	342,000	varying backpressure
2400	711	12/64"	230,000	BP 65 psi
0200	849	10/64"	280,000	
0600	877	10/64"	205,000	BP 60 psi

Produced 41.75 bbls. cond. in 13 hrs. BP 60 psi. P.O.: Flowing well.

Note: Will acidize 6,273-6,283' with 2,000 gals. 28% MSR.

- 9-12-81 SI well for pressure build-up @ 2310 hrs. WO pressure build-up. SITP 3213 psi.
- 9-13-81 SITP 3251 psi. Attempted to retrieve pressure bomb hung @ 6198', tools stopped at 3,800'. Opened well to clean out obstruction at 1150 hours. Recovered gas, cond. and some mud. SI well at 1230 hours to run impression block. WIH to 6193' (KR), tools drug at various points from 3800-4720'. Tagged bottom at 6193'. Impression block indicated salt bridge. WIH w/bailer, bailer hung at various points from 3569-6165', worked bailer down to 6195', POOH. Recovered rock salt. WIH w/Otis RS retrieving tool, hung up at 1690-4620', worked tool down to 4701'. Stuck tool at 4681'. RU Dowell to pump fresh water. ISIP at 2010 hrs. 3335 psi. Could not pump against tubing pressure. Opened well on 8/64" & 12/64" chokes at 2040 hrs. Closed well in at 2050 hrs. Tools came loose. Pulled tools into lubricator. Broke WL, tools fell back in hole. Opened well to bleed off pressure at 2110 hrs. Bled down to 2112 psi at 2300 hrs. Pumped in 3 bbls. fresh water, pressure increased to 4700 psi. Held at 4600 psi after 30 mins. Pressure back up to 5,000 psi w/½ bbl. at midnight, Opened well to blow down pressure. FTP dropped to 797 psi. P.O. Preparing to run WL tools.
- 9-14-81 Ran impression block, stopped at 6122'. Imprint indicated salt bridge. Blew well down to 290 psi at 1630 hrs. Pumped in 24 bbls. water with final press. 4350 psi. Bled off to 3450 psi in 3 mins. Water wash in place at 1645 hrs. Fished for & recovered Otis RS tool at 1845 hrs. Fished for & recovered pressure recorders at 2200 hrs. SITP at 2245 hrs. 2260 psi. Opened well to blow down pressure for acid job at 0635 hrs. Pumped in 57 bbls. 28% MSR acid. Displaced with 24 bbls. 2% KCL water. Pumped acid away w/4300-4600 psi at 4-4½ bbls/min. Final press. 4350 psi. Acid in place at 0658 hrs. SITP dropped back to 3500 psi at 0700 hrs. Opened well to flow back at 0712 hrs. P.O.: Flowing well to clean up.
- 9-15-81 Flowing well to clean up after acid job.

<u>Time</u>	<u>FTP</u>	<u>Choke</u>	<u>Remarks</u>
1100	650	29/64"	
1230	515	"	
1300		"	Well making 50% cond., 48% acid, 2% ^{water} salt.
			Rough est. rate 1368 MCFPD
1430	460	"	Well making 49% cond., 40% acid, 1% ^{water} salt.
1600	409	"	
1700	346	"	
1705	84	35/64"	Changed choke size - pressure decreased.
1710		"	S.I. well for pressure build-up.
1715	SITP 228		
1740	SITP 467		
2000	SITP 820		
2400	SITP 1242		

P.O.: Preparing to run WL gauge prior to perforating 6,306-6,314'.

FEDERAL 1-14

Grand County, Utah

- 9-16-81 RU Baker WL & ring gauge - could not go below 96'. WO Dowell pump truck until 1700 hours. SITP at 1735 hrs. 2107 psi. RU Dowell & water truck, pumped 24 bbls. in hole w/max. 3,000 psi at 2-2 1/2 bpm, water wash in place at 1820 hrs. Ran Baker 1.81" WL gauge w/min. obstructions to 6,179' (KB) and would go no further, POOH. PU bailer & WIH to 6,270' (KB) - would go no further, POOH. Pumped 5 bbls water in hole w/2500 psi, water wash in place at 2235 hrs. WIH w/bailer to 6,266' (KB) & POOH. SITP 2432 psi. Opened well on 12/64" choke at 0100 hrs. Flowed well on 15/64" choke from 0025-0130 hrs. TP dropped to 1695 psi. S. I. well. Opened well on 8/64" choke at 0515 hrs., TP 2571 psi. TP at 0700 hrs. 1951 psi. P.O.: Flowing well to clean up.
- 9-17-81 Flowed well until 1105 hrs. MTP @ 1000 hrs. 1429 psi on 14/64" choke. Pumped 25 bbls. water in hole with 1750-2000 psi, water wash in place at 1105 hrs. S.I. well, ran and hung 2 pressure gauges and released WL. P.O.: obtaining bottom hole S.I. pressure.
- 9-18-81 Clean up location and move out equipment. Present Operation: waiting on bottom hole pressure survey and leveling location.
- 9-18-81
through
9-20-81 Waiting on pressure build up.
- 9-21-81 Waiting on pressure build up to 10:00 hrs. Moved in Baker WL equipment. WIH w/retrieving tools - worked through bridge @ 33' - could not get below 77'. Pumped in 26 bbls. fresh water @ 1 1/2 bpm w/2750-3,000 psi. Water wash in place @ 1900 hrs. WIH w/retrieving tools, worked through soft bridge from 73-98'. WIH to bottom, Recovered pressure gauges @ 2045 hrs. RD Baker. RU Gray. Installed back pressure valve in Xmas tree. Checked shut-off, OK. SI well. Present operation: Operations suspended, dropping from report until work commences.