

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

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

ML-31811

5. Lease Designation and Serial No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

6. If Indian, Allottee or Tribe Name

1a. Type of Work

DRILL

DEEPEN

PLUG BACK

7. Unit Agreement Name

b. Type of Well

Oil Well

Gas Well

Other

Single Zone

Multiple Zone

~~Middle Mountain Unit~~

8. Farm or Lease Name

State-ML-31811

2. Name of Operator

McMoran-Freeport Oil Company

9. Well No.

43-2A

3. Address of Operator

Suite 290, 1860 Larimer St., Denver, Colorado 80202

10. Field and Pool, or Wildcat

Wildcat

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface

2140 FSL
500' FEL

500' FEL, NE/4 SE/4, Sec. 2, T2N-R25E, Daggett Co.UT.

11. Sec., T., R., M., or Blk. and Survey or Area

Sec. 2, T2N-R25E

At proposed prod. zone

Same

14. Distance in miles and direction from nearest town or post office*

50 miles south of Rock Springs, WY.

12. County or Parrish 13. State

Daggett Co., Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)

500' FEL
State ML-31811

16. No. of acres in lease

643.40

17. No. of acres assigned to this well

1,022.10

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.

19. Proposed depth

16,000'

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc.)

8,672 Ground ungraded

22. Approx. date work will start*

June 1, 1983

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
40"	36"	260#	80'	100 sks
34"	26"	188#	3,000	500 sks - Shoe
				500 sks - Top
24"	20" (or 13 3/8")	133#	7,500'	1,000 sks
	if 13 3/8"	68#	7,500'	"
12 1/4"	9 5/8"	47# & 53.5#	10,500'	
8 1/2"	7" (or 7 5/8")	29#	16,000'	
	if 7 5/8"	33.5#	16,000'	

RECEIVED
MAY 02 1983

Mud Program: Air or foam to 7,500', 8.6# fresh water mud to TD.

Primary objectives are Frontier at 10,456', Dakota, Nugget at 11,848', ~~Peak~~ ^{Peak} at 13,850', Madison at 15,368'. Safety precautions will be of primary ^{importance} ~~importance~~ in drilling and H2S monitoring will be conducted if recommended by Utah Oil & Gas Division. Electric Logs will be run and submitted to Oil and Gas Office.

FOR ADDITIONAL INFORMATION: George Engle, address as above, Phone - (O) 297-9420 (H) 863-9380

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: George S. Engle, Jr. Title: LANDMAN Date: April 29, 1983

(This space for Federal or State office use) George S. Engle, Jr.

Permit No. _____ Approval Date _____

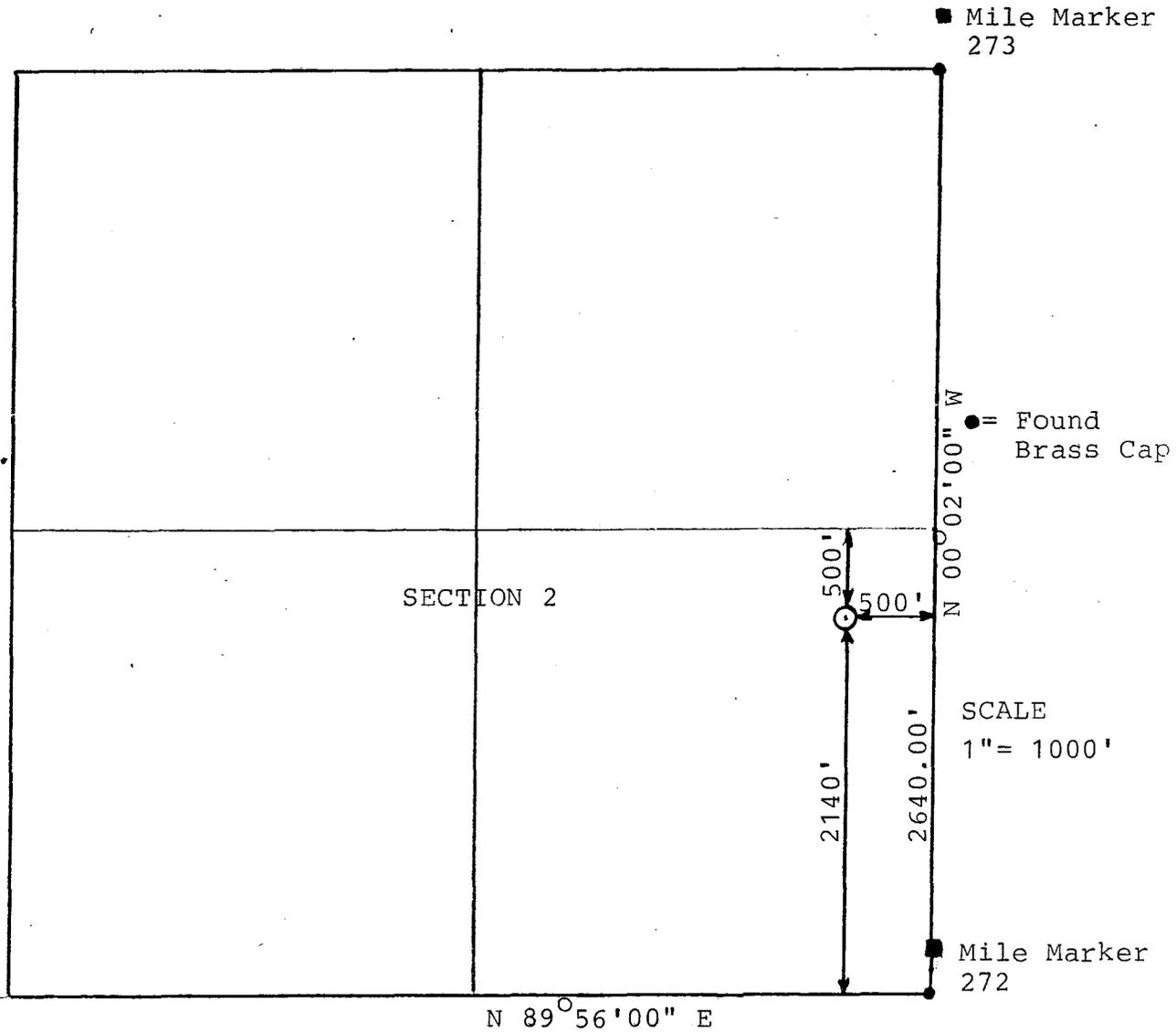
Approved by: _____ Title: _____

Conditions of approval, if any:

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

DATE: 5-2-83
BY: [Signature]

SECTION 2, TOWNSHIP 2 NORTH, RANGE 25 EAST

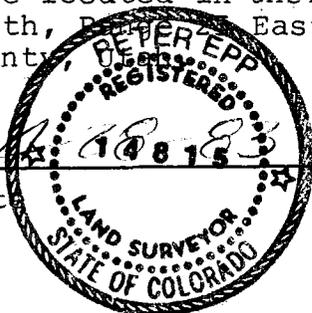


Note: All bearings and distances shown are taken from B.L.M. Resurvey

E & C Consulting, Inc., of Craig, Colorado, has in accordance with a request from Dan McClenahan for Hatcher Petro-Land, Inc., determined to be 500' FEL 2140' FSL of Section 2, Township 2 North, Range 25 East of the Salt Lake Meridian, Daggett County, Utah.

I hereby certify that this plat is an accurate representation of a correct survey showing the proposed location of a drill hole located in the NE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 2, Township 2 North, Range 25 East of the Salt Lake Meridian, Daggett County, Utah.

Date



Peter Epp

Peter Epp Colo. Reg. No. 14815



McMoRan-Freeport Oil Company

THE DOWNTOWN MEDICAL CENTER
1860 LARIMER STREET, SUITE 280
DENVER, COLORADO 80202

(303) 297-9420
TWX: 910-931-0578
TELECOPIER: 303-294-9227

April 29, 1983

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
4214 State Office Building
Salt Lake City, Utah 84114

Gentlemen:

Following our telephone conversation of this date I am hereby notifying you of our intention to drill the Middle Mountain #43-2A well seeking hydrocarbon production 500' FNL, 500' FEL of the NE/4 of the SE/4, Section 2, T2N-R25E, Dagget County, Utah.

I attach our application for permit to drill, a certified survey of our proposed location, and a copy of our State of Utah, Bond of Lessee, all in triplicate, for your examination and approval. I am sending the original of our Bond of Lessee to the attention of Mr. John Blake, Division of State Lands and Forestry.

We are preparing additional information for your Department and anticipate that it will be mailed the first week in May.

We would like to be prepared to commence operations late in May, or early June, and it is for this reason that I am sending you the enclosed at this time. Please contact me immediately should I be able to furnish you with any additionally required documentation.

Thank you.

Sincerely,

McMoRan-Freeport Oil Company

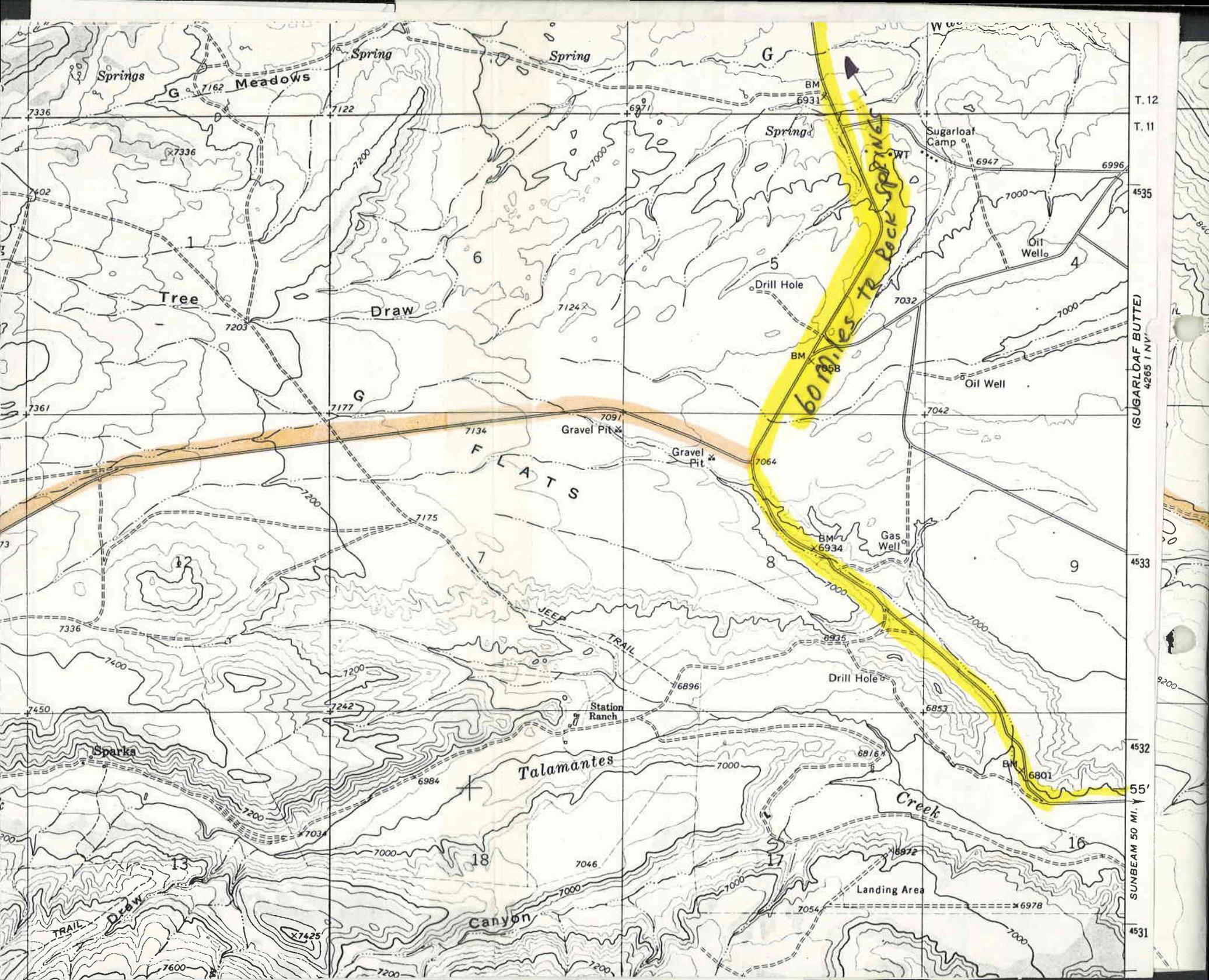
George S. Engle, Jr.
Land Department

RECEIVED
MAY 02 1983

GSEJr:in

Certified Mail
Return Receipt Requested

**DIVISION OF
OIL, GAS & MINING**



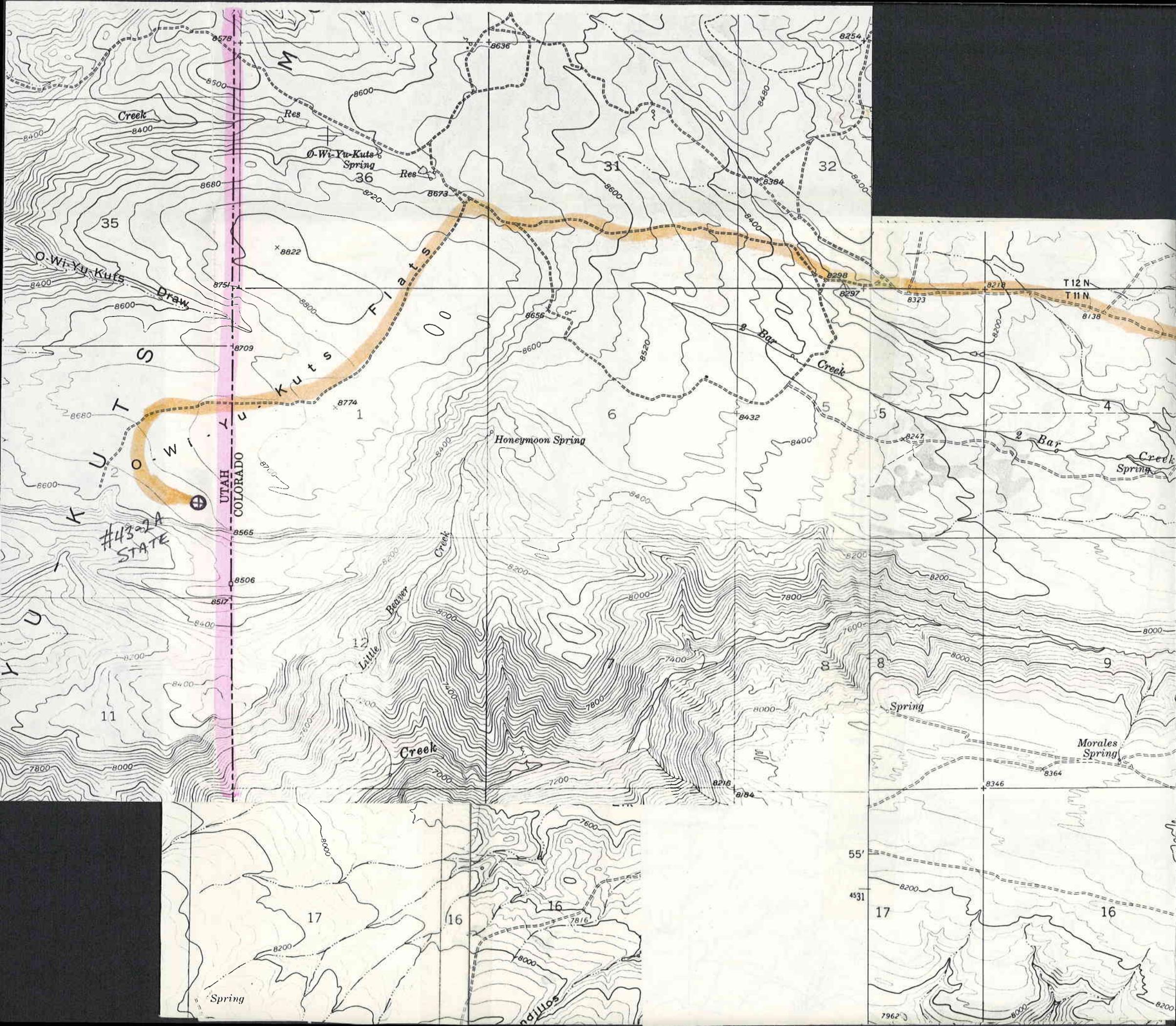
60 miles to Rock Springs

FLATS

Talamantes

(SUGARLOAF BUTTE)
4265 1 NV

SUNBEAM 50 MI.



OPERATOR Mc MORAN - FREEDPT OIL CO

DATE 5-2-23

WELL NAME STATE 43-2A

SEC N 25 E 2 T 2 N R 25 E COUNTY DAGGETT

43-009-30058
API NUMBER

STATE
TYPE OF LEASE

POSTING CHECK OFF:

INDEX

HL

NID

PI

MAP

PROCESSING COMMENTS:

NO OIL OR GAS WELLS WITHIN 4760'

ASF ✓

APPROVAL LETTER:

SPACING:

A-3

UNIT

c-3-a

CAUSE NO. & DATE

c-3-b

c-3-c

Approval subject to receipt of acceptable H₂S contingency plan, BOP programs, verification of adequate and approved water rights on private water source, surface use plan and compliance with environmental stipulations which may develop through review of the surface use plan.

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

AUTHENTICATE LEASE AND OPERATOR INFORMATION

VERIFY ADEQUATE AND PROPER BONDING *COPY OF STATE BOND ATTACHED*

AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

APPLY SPACING CONSIDERATION

ORDER NO

UNIT NO

c-3-b

c-3-c

CHECK DISTANCE TO NEAREST WELL.

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

IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

May 2, 1983

McMoRan-Freeport Oil Company
1860 Larimer Street, Suite 290
Denver, Colorado 80202

RE: Well No. State 43-2A
NESE Sec. 2, T.2N, R.25E
2140 FSL, 500 FEL
Dagget County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil/gas well is hereby granted in accordance with Rule C-3(b), General Rules and Regulations and Rules of Practice and Procedure. Approval subject to receipt of acceptable H₂S PLAN, BOP program, verification of adequate and approved water rights or private water source, surface use plan, and compliance with environmental stipulations which may develop through review of the surface use plan.

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

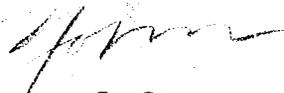
RONALD J. FIRTH - Chief Petroleum Engineer
Office: 533-5771
Home: 571-6068

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 43-009-30058.

Sincerely,



Norman C. Stout
Administrative Assistant

NCS/as
cc: State Lands
Enclosure



United States Department of the Interior

IN REPLY REFER TO.

3180
(CO-990)

BUREAU OF LAND MANAGEMENT
COLORADO STATE OFFICE
1037 20th STREET
DENVER, CO 80202

MAY 25 1983

McMoRan-Freeport Oil Co.
c/o Edmundson, Inc.
P. O. Box 1707
Denver, CO 80201

Gentlemen:

The Middle Mountain Unit Agreement, Moffat County, Colorado and Daggett County, Utah was approved on May 25, 1983. This agreement has been designated No. 14-08-0001-21178, and is effective as of the date of approval.

This unit provides for the drilling of one obligation well and subsequent drilling obligations pursuant to Section 9 of the unit agreement. This obligation well is considered to be a contractual commitment on the part of the unit operator. The initial unit obligation well will be located in the SE $\frac{1}{4}$ sec. 2, T. 2 N., R. 25 E., Daggett County, Utah. The unit agreement submitted provides for a well to test the entire upper 300 feet of the Mississippian Madison Limestone. Drilling should continue through the upper 300 feet of the Mississippian Madison Limestone or to a depth of 15,500 feet, whichever is lesser. No extension of time beyond November 24, 1983 will be granted to commence this "obligation well" other than "unavoidable delay" (Section 25); where justified. Any extension granted for "unavoidable delay" requires convincing written justification and documentation prior to the critical date, and is limited to 30 days, with possible renewal for 30-day periods, if the delay is extensive, with timely written documentation for each extension.

Enclosed is one copy of the approved unit agreement for your records. We request that you furnish the States of Colorado and Utah and all other interested principals with appropriate evidence of this approval.

Sincerely,

FOR 
Frank A. Salwerowicz
Acting Chief, Division of
Onshore Minerals Personnel

HATCHER PETRO - LAND, INC.

"Let Marv Handle Your Permit Requirements"

P.O. Box 38 • Mills, Wyoming 82644

Marvin L. Hatcher, Boss
Bus. Phone 307 - 237-8201
Home Phone 307 - 234-6718

May 3, 1983

McMoran-Freeport Oil Company
#43-2A State
NE SE Section 2-2N-25E
Daggett County, Utah

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

1. EXISTING ROADS

To find the above captioned well site, go South of Rock Springs, Wyoming on Highway #430 about 52 miles; bear right and enter a graveled/dirt road. Proceed on this road about 7 miles (into the State of Colorado), then turn right on an existing road (BLM Sign reads, (Diamond Peak), follow this road about 16 miles to location. This road was previously constructed by another oil company and should need no improvement.

There are no plans to upgrade the existing roads except where time and weather conditions have caused deterioration. An upgrading of existing culverts and area may be required. At the completion of operations, the road will be rehabilitated by putting it back into the original shape if possible.

2. PLANNED ACCESS ROAD

There are no plans to change the existing roads.

3. LOCATION OF EXISTING WELLS

There is no knowledge of any existing wells in the area.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

There are no production facilities in the area, nor any known pipelines.

All production facilities, if required will be installed on this site. Any materials needed, other than on location will be transported in from a commercial source.

If the well is a producer, the area which has been previously fenced on three sides, will be fenced on the fourth side...thusly discouraging livestock and wildlife from entering the area in potential danger areas. If there is oil on the pits, flagging will be placed across the top of the pit, again discouraging livestock, wildlife and especially birds from wanting to enter the area.

4. Continued...

All of the disturbed area not needed for operations after construction of the production facilities are completed, will be rehabilitated, such as reshaping, grading and seeding.

5. LOCATION AND TYPE OF WATER SUPPLY

The water source will be from the existing water well and previously drilled proposed oil/gas well. Any existing water in the previously built reserve pits will be used.

There will be no new drilling or construction for water.
All existing water is on location.

6. METHODS OF HANDLING WASTE MATERIALS

All of the cuttings and drilling fluids deposited during the drilling operations will be put in portable tanks and the existing reserve pit. The reserve pit is lined on the bottom and sides, thusly preventing seepage or draining. All produced fluids will be put in tanks on location.

All sewage will be contained in several drilled 24" x 30' holes drilled at previously approved camp area on location. Equipment attached to trailer houses lead to the holes in the ground. Suitable chemicals will be used to decompose the materials and when the operations are complete, the holes will be covered with a minimum of 6 ft of soils.

Waste materials will be put in a special pit built near the reserve pit. This pit will be enclosed on all sides and top with small mesh wire. At the completion of all operations, the wire will be removed and all materials will be covered with at least 4 ft of soils. The garbage will be retained in containers and transported to any authorized refuse area for disposal.

Any trash and litter recovered after the operations cease, will be collected and hauled to any authorized refuse area.

The area, which has been fenced on all sides will remain enclosed until the entire area has been rehabilitated.

7. ANCILLARY FACILITIES

There is an existing helicopter landing pad near the location, and a previously constructed camp site.

8. WELL SITE LAYOUT

See attached diagrams.

9. PLANS FOR RESTORATION OF SURFACE

The restoration and revegetation will commence when the drilling operations have ceased and equipment is removed from the area. The reserve pit area will not be disturbed until the pits are dry. All debris will be collected and removed from the area. The area will be returned to the original topography if possible. There are many large rocks in the area and the good soils are very shallow. The seed mixture will be conducive to the area. The area should be rehabilitated and seeded by the Fall of 1985.

The proposed location is on a fairly rugged mountain mesa, where the major part of the location was constructed and drilled in 1981-82. A major drop off exists to the near South and West. Soil conditions are mostly shale. All sorts of wildlife are in the area, and were not disturbed during previous drilling. Live-stock also are in the area.

10. LESSEE OR OPERATOR'S FIELD REPRESENTATIVE

Hatcher Petro-Land Inc
P.O. Box 40
Mills, Wyoming 82644
Phone: 307-237-8201

George Engle, Jr.
McMoRan-Freeport Oil Co.
Suite 290
1860 Larimer Street
Denver, Colorado 80202
Phone: 303-297-9420

11. CERTIFICATION:

I hereby certify that I 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 McMoRan-Freeport Oil Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

DATE: May 3, 1983


Hatcher Petro-Land Inc, Agent



McMoRan-Freeport Oil Company

THE DOWNTOWN MEDICAL CENTER
1860 LARIMER STREET, SUITE 290
DENVER, COLORADO 80202

(303) 297-9420
TWX: 910-931-0578
TELECOPIER: 303-294-9227

May 5, 1983

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

Re: Well No. State 43-2A
NESE Sec. 2, T2N-R25E
2140 FSL, 500 FEL
Daggett Co., Utah

Attn: Mr. Norman C. Stout

Gentlemen:

We are in receipt of your transmittal of May 2, together with approved APD for API well No. 43-009-30058.

In compliance with the requests of the subject letter, please find enclosed our Multi-Point Surface Use and Operations Plan, with attached plat of the Access Road we plan to use.

I would appreciate your notifying me promptly should there be any environmental stipulation that relate to this use which should be addressed specifically at this time.

We shall be furnishing you with additional information as regards your additional requirements in the near future.

Thank you.

Sincerely,

McMoRan-Freeport Oil Company

A handwritten signature in cursive script that reads "George S. Engle, Jr.".

George S. Engle, Jr.
Land Department

GSEJr:in



OIL, Gas & MINING

SITE

BOP EQUIPMENT
PARKER RIG NO. 193

<u>QUANTITY</u>	<u>DESCRIPTION</u>
1	Well Control System, 10,000 psi, with choke line and kill line manifold, annular, single unit and double unit, all with H ₂ S trim, and including: <ul style="list-style-type: none">(1) Lot manifold modifications.(1) Lot choke manifold material.(1) Flow control 3½" if inside BOP.(1) Flow control 2-7/8" if inside BOP.(1) Flow control 5" inside BOP.(1) Lot studs, nuts, gaskets, etc.(1) Kill line manifold 4-1/16", 10,000 psi.(1) Choke line flange, Type "F", 4-1/16", 10,000 psi(1) Choke line valve, Type "F", 4-1/16", 10,000 psi with manual override.(1) Hydril drop-in back pressure valve.(1) 13-5/8" x 13-5/8" annular, 5,000 psi studded top, flanged bottom.(1) 13-5/8" x 13-5/8" 5,000 psi double studded adapter.(1) 13-5/8" 10,000 psi double gate valve unit, flanged top and bottom.(1) 13-5/8" 10,000 psi single gate valve, unit flanged top and bottom.(1) Drilling spool 13-5/8", 10,000 psi x 13-5/8" 10,000 psi flanged top and bottom.(1) Base choke manifold.(1) 20" Adapter Spool, flanged bottom 2,000 psi x 30" 2,000 psi.(1) Cameron 20" clamp.(1) Koomey Type 80, 240 gallon accumulator powered by Model T315-15B Triplex pump driven by 20 HP electric motor, Koomey manifold Model SU2KB35 air pump package. Koomey 8 station and remote control console, suitcases, and remote cable.(1) Lot, BOP suitcases for accumulator.(1) Upper Kelly Cock.(2) Lower Kelly Cock.(1) Inside BOP.

PARKER DRILLING COMPANY

SPILL PREVENTION CONTROL
AND COUNTERMEASURE PLAN

PARKER DRILLING COMPANY
SPILL PREVENTION CONTROL & COUNTERMEASURE PLAN
PART I
GENERAL INFORMATION

Rig Number 193

Type of Rig - Land Rotary Drilling Rig

Location of Rig - Daggett County, UTAH
- Current Drilling Location as indicated
on legal description posted in doghouse of rig.

Name and address of owner or operator:

PARKER DRILLING COMPANY

Designated person accountable for oil spill prevention at
rig:

Toolpusher on duty

Facility experienced a reportable oil spill event during
the twelve months prior to January 10, 1974: No

MANAGEMENT APPROVAL

This SPCC Plan will be implemented as herein described.

R. L. Parker, Jr.

R. L. Parker, Jr.

President

CERTIFICATION

I hereby certify that I have examined the facility and,
being familiar with the provisions of 40 CFR, Part 112,
attest that this SPCC Plan has been prepared in accor-
dance with good engineering practices.

M. H. Parker

Printed Name of Certified
Safety Professional

M. H. Parker

Signature of Certified
Safety Professional

(Seal)

Date 1-24-79

Registration No. 2893

PART I
GENERAL INFORMATION
POTENTIAL SPILLS - PREDICTION & CONTROL

Prediction of the direction of flow, and the rate of flow is not practical from mobile drilling and workover rigs because these will vary at each location depending upon topography, and differences in drilling operations requiring different equipment, and other factors. Total volume of potential spills can be specified for only tanks or storage normally installed or included as part of accessory equipment with each land rig as follows:

<u>Number</u>	<u>Above Ground Tank or Storage</u>	<u>Major Type of Failure</u>	<u>Capacity</u>
	Drilling Mud	Rupture or overflow	300 bbl.
	Diesel Fuel	Rupture	

Discussion: Drainage ditches are dug at each new drilling site to drain any fluids from the location to a catch basin adjacent to the reserve pit. If the catch basin nears capacity, fluid is pumped from this catch basin into the large reserve pit. If the reserve pit nears capacity an overflow pit is constructed at the low point of the dike of the reserve pit. An overflow pipe or ditch is installed from the reserve pit to the overflow pit.

Rig No. 193

Owner or Operator Parker Drilling Company

PART I
GENERAL INFORMATION

Containment or diversionary structures or equipment to prevent oil from reaching navigable waters are practicable (See Part II) (Also see Attachment #2) Yes

Inspection and records:

- A. The required inspections follow written procedures. Yes
B. The written procedures and a record of inspections, signed by the appropriate supervisor or inspector are attached as attachment #3. Yes

Personnel, Training, and Spill Prevention Procedures:

- A. Personnel are properly instructed in the following:
(1) Operation and maintenance of equipment to prevent oil discharges, and Yes
(2) Applicable pollution control laws, rules, and regulations Yes
Describe procedures employed for instruction: Company procedures are outlined to Toolpushers at quarterly meetings with superintendents. Toolpushers discuss with Drillers and crews once each month. Documented by crew safety meeting report.
- B. Scheduled prevention briefings for the operating personnel are conducted frequently enough to assure adequate understanding of the SPCC Plan. Yes
Describe briefing schedule: Same as A-2. Instructions also posted on rig bulletinboard.

Rig No. 193

Operator Parker Drilling Company

4

PART II
DESIGN AND OPERATING INSTRUCTIONS
ONSHORE DRILLING OR WORKOVER RIG

A. Drilling or workover rig is positioned or located so that the risk of discharge or spill reaching navigable water is minimized. Yes

B. Drainage from undiked areas is controlled as follows:

Drainage ditches are dug to drain any fluid on location to a catch basin.

C. Disposition of oil or oily effluent from secondary containment is:

Pumped into large reserve pit.

D. Primary containment (material, design and control devices):

Above ground - steel mud tanks and steel storage tanks for diesel fuel.

Mud pit level indicators can be read from the rig floor and when drilling, the derrick hand keeps visual check on the mud pit level.

E. Casing and BOP:

1. Before drilling below any casing string or during workover operations, a blowout prevention assembly and well control system is installed that is capable of controlling any well head pressure that is expected to be encountered while that assembly is on the well. Yes

2. Casing and BOP installations are in accordance with State or other regulatory agency requirements. Yes

ATTACHMENT #2

OIL SPILL CONTINGENCY PLAN IN THE EVENT OF:

Abnormal or accidental spill may be greater than secondary containment in the event of a well blowout or unusually heavy rains.

If such event occurred, bulldozers, road graders, front end loaders or other dirt moving equipment would be obtained from a construction contractor to build additional dirt dikes to contain the spill.

Drilling locations that are on Federal or Bureau of Indian Affairs land, maintain a bulldozer and or road-grader at the location at all times which would be put to use building additional dirt dikes to contain any abnormal or accidental spill that might occur.

Written commitment of Manpower is attached

No

Rig No. 193

Owner or Operator Parker Drilling Company

SPCC PLAN, ATTACHMENT #3
ONSHORE RIG BULK STORAGE TANKS
DRAINAGE SYSTEM

Inspection Procedure: Physical condition of steel storage tanks are inspected while empty after each rig move.

Daily check is made to see that ditch drainage is carrying any spilled fluid on location to catchment basin.

Record of drainage, bypassing, inspection, and oil removal from secondary containment:

<u>Date of</u> <u>Drainage</u>	<u>Date of</u> <u>Bypassing</u>	<u>Date of</u> <u>Inspection</u>	<u>Oil Removal</u>	<u>Supervisor's or</u> <u>Inspector's Signature</u>
	<u>Open</u> <u>Closed</u>			

Name of Rig OIME E-3000

Operator Parker Drilling Company



McMoRan-Freeport Oil Company

THE DOWNTOWN MEDICAL CENTER
1860 LARIMER STREET, SUITE 290
DENVER, COLORADO 80202

(303) 297-9420
TWX: 910-931-0578
TELECOPIER: 303-294-9227

June 2, 1983

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

Re: Middle Mountain #43-2A State
API No. 43-009-30058
Daggett County, Utah

Gentlemen:

In accordance with your Memorandum of December 15, 1982, McMoRan-Freeport Oil Company herewith requests that the above captioned well be placed on a Confidential Status from this date until a time seven (7) months following the date of completion.

We shall make every effort to mark all correspondence as Confidential, in red, as requested.

I would appreciate your acknowledging this request at your earliest opportunity.

Thank you.

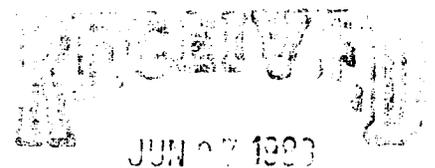
Sincerely,

McMoRan-Freeport Oil Company

George S. Engle, Jr.
Land Department

GSEJr:ib

cc: ODBJr



DIVISION OF
OIL, GAS & MINING



McMoRan-Freeport Oil Company

THE DOWNTOWN MEDICAL CENTER
1860 LARIMER STREET, SUITE 290
DENVER, COLORADO 80202

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June 3, 1983

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

Re: Middle Mountain #43-2A State
API No. 43-009-30058
Daggett County, Utah

Gentlemen:

This will serve to notify you that the Federal Unit for the above captioned well was approved May 25th, 1983. The Unit Agreement has been designated as 14-08-0001-21178.

I attach a copy of the cover letter granting such approval. I have been informed that the State of Utah has been copied as to the Unit Agreement and Unit Operating Agreement. I trust that this will be directed to your office. However, should you require an additional copy, I would be pleased to furnish one to you at your request.

Thank you.

Sincerely,

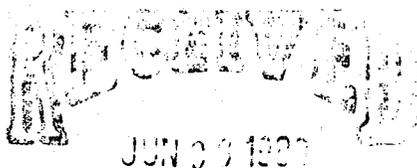
McMoRan-Freeport Oil Company

George S. Engle, Jr.
Land Department

GSEJr:ib

encl:

cc: ODBJr



JUN 3 1983

DIVISION OF
OIL, GAS & MINING

CONFIDENTIAL



McMoRan-Freeport Oil Company

THE DOWNTOWN MEDICAL CENTER
1860 LARIMER STREET, SUITE 290
DENVER, COLORADO 80202

(303) 297-9420
TWX: 910-931-0578
TELECOPIER: 303-294-9227

June 4, 1983

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

Re: Middle Mountain #43-2A State
API No. 43-009-30058
Daggett County, Utah

Gentlemen:

I would like to take this opportunity to advise you that the drilling company and rig number to be used on the captioned well will be Parker Drilling Company's rig No. 193.

I attach a copy of the rig's B.O.P. equipment inventory and several pages setting out their Spill Prevention Control and Countermeasure Plan. It is our engineering department's understanding that the B.O.P. Program will be as follows:

RECEIVED
JUN 08 1983

<u>Depth</u>	<u>Program</u>
Surface to 2,000'	Drill with air without B.O.P.
2,000' to 7,000'	30" hydril and divertor system
7,000' to 10,500'	20" hydril - 2,000 psi, w.p. 2 - 20" Ram type B.O.P.s - 3,000 psi, w.p.
10,500' to 16,000'	13-5/8" hydril - 3,000 psi, w.p. 2 - 13-5/8" Ram type B.O.P.s - 5,000 psi, w.p. 13-5/8" stack will be H ₂ S treated.

DIVISION OF
OIL, GAS & MINING

I also attach a copy of the H₂S monitoring system to be used by NL Baroid Logging Systems on this well.

Should you require any further information in these regards, please do not hesitate to contact me.

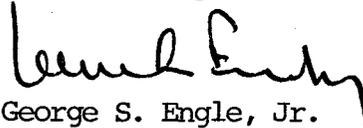
Thank you.

State of Utah
Oil, Gas & Mining
June 4, 1983

-two-

Sincerely,

McMoran-Freeport Oil Company



George S. Engle, Jr.
Land Department

GSEJr:ib

cc: WDS



McMoRan-Freeport Oil Company

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1860 LARIMER STREET, SUITE 290
DENVER, COLORADO 80202

(303) 297-9420
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TELECOPIER: 303-294-9227

July 8, 1983

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

Re: Middle Mountain #43-2A State
API No. 43-009-30058
Daggett County, Utah

Gentlemen:

This will serve as our written follow-up of our phone call of June 29, whereby we have advised you that the above captioned well was spudded on June 28, 1983.

Thank you.

Sincerely,

McMoRan-Freeport Oil Company

George S. Engle, Jr.
Land Department

GSEJr:ib

cc: BBH

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JUL 11 1983

DIVISION OF
OIL GAS & MINING

RECEIVED
MAR 5 1984

REBEL TESTERS

BOP Testing & Oilfield Equipment Rentals
P.O. Box 4036
Ogden, Utah 84403
(801) 479-6233

DIVISION OF
GAS & MINING

Date 2-23-84

Co. M^c Moran Oil Co.

Lease & Well # State 43-2-A County & State Daguerre Utah

Sec. _____ T.S. _____ Range _____

Field _____ Rig Parker #193

Operator & Equipment to Test Following 12,000 lb BOP + manifold

Hydrill 2500 PSI Choke Manifold 5000 PSI

Upper Rams 5000 PSI H.C.R. Valve No test PSI

Lower Rams 5000 PSI Manual Valve 5000 PSI

Blind Rams 5000 PSI Upper Kelly Valve 5000 PSI

Casing 1,000 PSI Lower Valve 5000 PSI

Other Kill line valve 5000 PSI Tool Joint Connection 4 1/2 IF

Remarks started test At 1:00

Test BOP Stack 8 hour Minimum _____ 800.00

Test Plug Used 12" Cameron 100.00

Test Subs Used 2 @ 50.00 each _____ N/C

Test Seals _____ @ _____ each _____

Special X over Subs 1 @ 50.00 each _____ N/C

Additional Hours _____ @ _____ Each _____

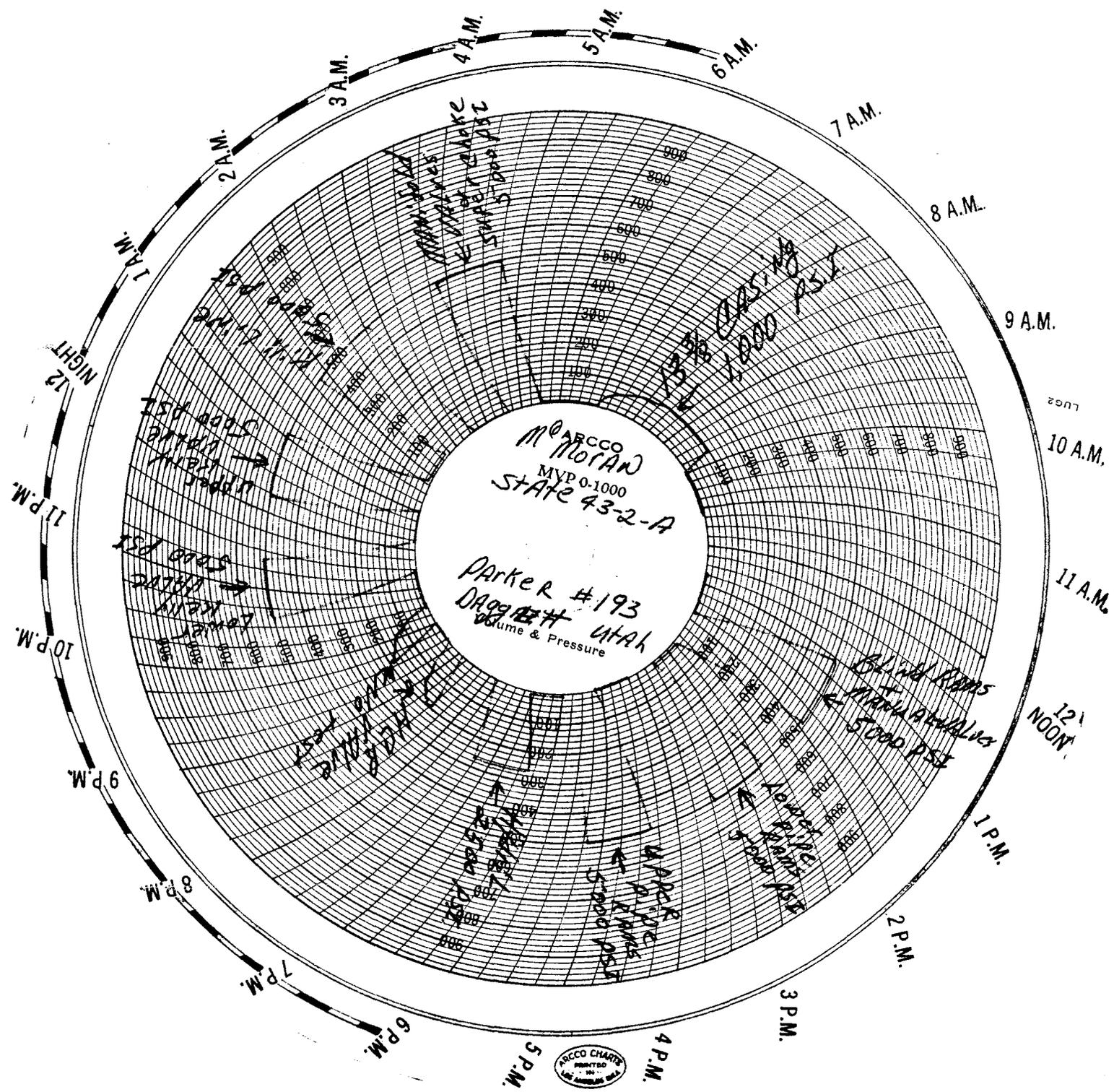
160 Miles @ 1.00 per Rd trip each _____ 160.00

Operator Scott Smith Unit No. 1 Total \$1,060.00

Prices Subject to Correction by Bookkeeping Dept.

Customers Signature G.M. Purcell

Customers Order No. _____



MORAN
MVP 0-1000
STATE 43-2-A

Parker #193
DAGGETT UTAH
Volume & Pressure

ARCO CHARTS
PRINTED
IN
LOS ANGELES, CALIF.



McMoRan-Freeport Oil Company

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1860 LARIMER STREET, SUITE 290
DENVER, COLORADO 80202

(303) 297-9420
TWX: 910-931-0578
TELECOPIER: 303-294-9227

July 5, 1983

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

Re: Middle Mountain #43-2A State
API No. 43-009-30058
Daggett County, Utah

Gentlemen:

Please find enclosed the final draft of the Contingency Plan
For Hydrogen Sulfide Safety as provided to us by Baroid.

This contains all appropriate and necessary names and phone
numbers and may simply replace the copy previously sent to your
attention, which did not have this information.

Thank you.

Sincerely,

McMoRan-Freeport Oil Company

George S. Engle, Jr.
Land Department

GSEJr:ib

RECEIVED

JUL 07 1983

**DIVISION OF
OIL, GAS & MINING**

CONTINGENCY PLAN FOR
HYDROGEN SULFIDE SAFETY

FOR

MR. CLARENCE CONN
McMoRan FREEPORT OIL COMPANY
43-2A STATE ML 31811
NE SE SEC. 2-T2N-R25E
DAGGETT COUNTY, UTAH

PURPOSE

This plan details precautionary measures to be implemented while drilling in the McMoRan 43-2A State ML 31811 well in Daggett County, Utah. Hydrogen Sulfide is EXTREMELY TOXIC. McMoRan intends to provide adequate safeguards against harm to persons both in the immediate vicinity and on location from the effects of hydrogen sulfide released to the atmosphere.

This Contingency Plan is designed to provide an organized plan of action for alerting and protecting all persons following the accidental release of a potentially hazardous volume of hydrogen sulfide under any foreseeable set of circumstances.

TO PROTECT THEIR OWN SAFETY AND THE SAFETY OF OTHERS, ALL PERSONNEL WILL RIGIDLY ADHERE TO THIS PLAN.

KEY PERSONNEL

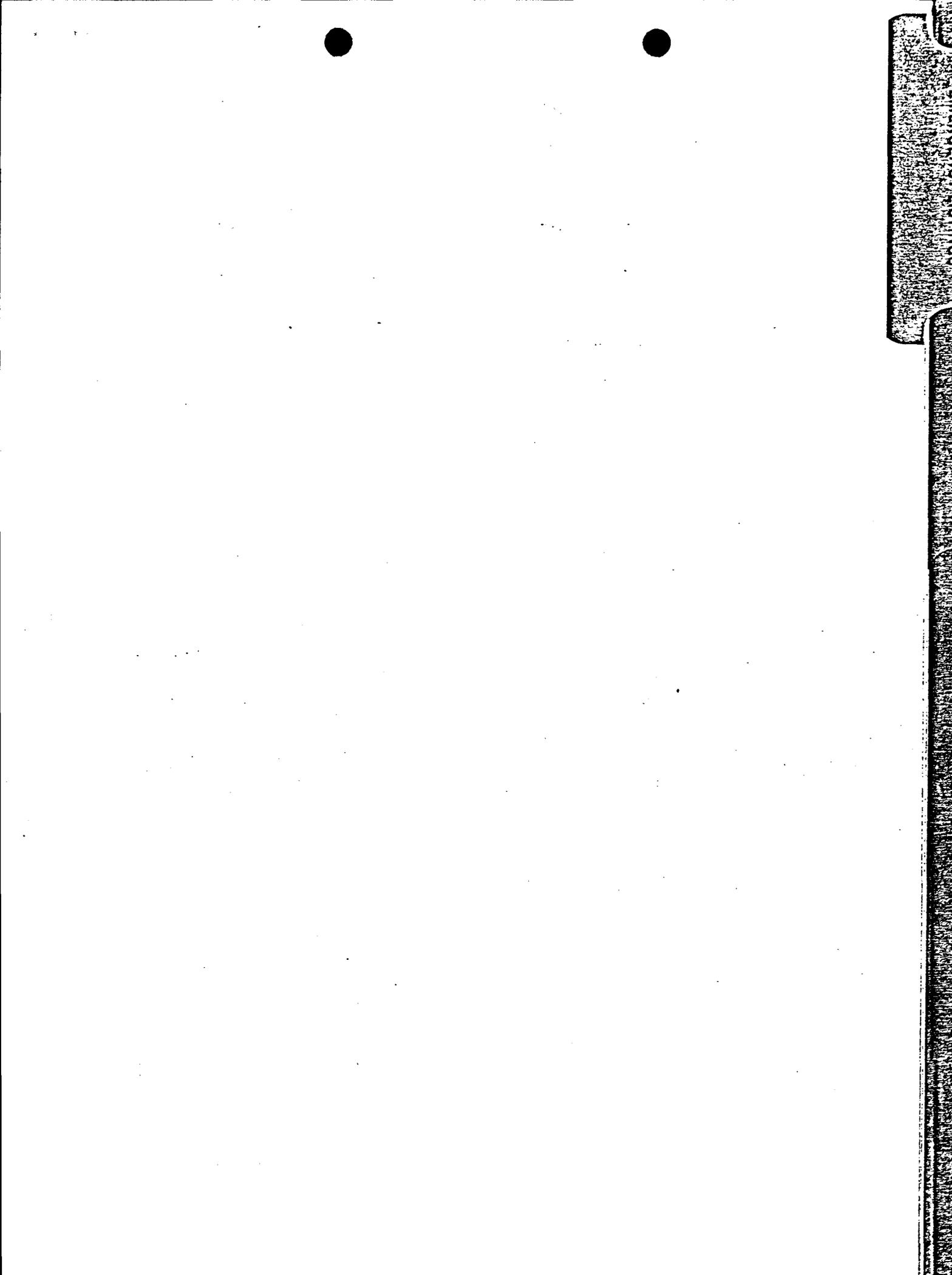
Mr. Clarence Conn - McMoRan Freeport Oil Company	(504) 528-9257
Mr. George Engel - McMoRan Freeport Oil Company	(303) 297-9420
Mr. Harold Addington - H.W. Addington and Associates, Inc.	(303) 629-6924
Mr. Orvan Pickett (Drilling Foreman) - H.W. Addington Associates, Inc.	(801) 789-1011

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EMERGENCY PHONE NUMBERS AND DIRECTIONS

AMBULANCE: (Rock Springs, Wyoming) (307) 362-5607
FIRE DEPARTMENT: (Manila, Utah) (801) 784-5500
DAGGETT COUNTY SHERIFF: (Manila, Utah) (801) 784-3255
SWEETWATER COUNTY SHERIFF: (Rock Springs, Wyoming) (307) 362-6900
UTAH HIGHWAY PATROL: (Vernal, Utah) (801) 789-3111
HOSPITAL: (Sweetwater County Memorial Hospital - Rock Springs, Wyoming)
(307) 362-3711

DIRECTIONS TO LOCATION:

Take Route 430 south from Rock Springs, Wyoming to just past the 52 mile marker. The paved road veers left but take the gravel road which goes straight ahead. Drive 7 miles (you pass into Colorado) to County Road 72 turn west (right). Drive 17.2 miles to location (Parker #193 is the rig).

DIRECTIONS TO SWEETWATER COUNTY MEMORIAL HOSPITAL:

Take Route 430 north to Rock Springs, Wyoming. Drive through Rock Springs on Route 430 to Center Street. Turn left on Center, continue as Center Street turns into Dewar Drive (Follow the blue H for hospital signs). Turn Right at College Drive. The hospital is located on the left.

EMERGENCY NOTIFICATION - OPERATIONAL PERSONNEL

MCMORAN FREEPORT OIL

Mr. Clarence Conn (504) 528-9257
Mr. George Engel (303) 297-9420

H.W. ADDINGTON AND ASSOCIATES, INC.

Mr. Harold Addington (303) 629-6924
Mr. Orvan Pickett (801) 789-1011

PARKER DRILLING

Mr. Louis Hall - Operations Manager Home (307) 472-5464
Jeep Mobil (307) 265-4033
Car Mobil (307) 265-4860
Office (307) 473-2480

Mr. Odell Williams - Field Superintendent Home (307) 266-5783
Pick up (307) 265-4089
Bronco (307) 266-8486
Office (307) 473-7117

Mr. Leo Nolan - Asst. Field Superintendent Home (307) 472-0189
Mobil (307) 266-8484

Mr. Dave Hall - Safety Director Office (307) 577-1877

EMERGENCY NOTIFICATION - STATE OFFICIALS

Utah Geological and Mineral Survey	(801) 581-6831
Utah Division of Lands	(801) 533-5771
Utah Division of Oil, Gas, and Mining	(801) 533-5771

EMERGENCY NOTIFICATION - LOCAL OFFICIALS

Daggett County Sheriff (Manila, Utah): (801) 784-3255

Utah Highway Patrol: (Vernal, Utah): (801) 789-3111

EMERGENCY NOTIFICATION - SERVICES

Drilling Fluids Contractor - Imco Services
Rock Springs Warehouse

(307) 382-2729

NL Baroid Logging Systems
Rock Springs Office

(307) 382-8261

Bill McCall-District Operations Supervisor

Home (307) 789-6048

Jeffery LeClere-Electronic Technician

Home (307) 362-9541

Mary Boland-Senior Safety Technician

Home (307) 875-6068

Special Emergency Services:

Boots and Coots

(713) 464-0230

Red Adair

(713) 931-8884

H₂S Properties

CHARACTERISTICS OF HYDROGEN SULFIDE

1. Extremely toxic. Six times as toxic as carbon monoxide.
2. Smells like rotten eggs - sometimes. H_2S cannot always be detected with the nose because the gas tends to paralyze the olfactory nerve. The odor is detectable only in smaller amounts. NEVER USE YOUR NOSE AS A HYDROGEN SULFIDE DETECTOR, IT IS NOT RELIABLE!!
3. Heavier than air. H_2S will tend to seek out low-lying areas and concentrate there. Hydrogen sulfide is difficult to disperse particularly when low wind velocities are present OR in enclosed areas.
4. Hydrogen sulfide is colorless - you cannot see it.
5. Hydrogen sulfide is an acid and therefore very corrosive. It will corrode steel and produce a mild irritation when it comes into contact with skin, eyes, nose and respiratory tract.
6. Will form an explosive mixture with air at concentrations between 4.3% to 46% by volume. A burning cigarette WILL set off the explosion.
7. Hydrogen sulfide is soluble in water.
8. H_2S burns in air with a blue flame and produces sulfur dioxide (SO_2) gas which is very irritating to eyes, skin and lungs. SO_2 is also toxic and can cause serious injury.

TOXICITY CHARTS FOR HYDROGEN SULFIDE

<u>Common Name</u>	<u>Chemical Formula</u>	<u>Specific Gravity</u>	<u>Threshold Limit 1</u>	<u>Hazardous Limit 2</u>	<u>Lethal Concentration 3</u>
Hydrogen Sulfide	H ₂ S	1.18	10 ppm-4 20 ppm-5	250 ppm/hr	600 ppm

1. **Threshold Limit** - Concentration at which it is believed that all workers may be repeatedly exposed day after day without adverse effects.
2. **Hazardous Limit** - Concentration that may cause death with prolonged exposure.
3. **Lethal Concentration** - Concentration that will cause death with short-term exposure.
4. **Threshold Limit** - 10 ppm - American Conference of Governmental Industrial Hygienists.
5. **Threshold Limit** - 20 ppm - ANSI acceptable ceiling concentration for eight-hour exposure (based on 40 hour week) is 20 ppm. OSHA Rules and Regulations (CFR. Vol. 37, No. 202, Part II, Oct. 18, '72).

CONCENTRATIONS AND TOXIC EFFECTS OF HYDROGEN SULFIDE

<u>Percent (%)</u>	<u>Concentrations</u>		<u>Physical Effects</u>
	<u>PPM</u>	<u>Grains/ 100 Std. Ft. 3</u>	
0.0001	1	0.065	Obvious and unpleasant odor.
0.002	20	1.30	Safe for 8 hours exposure.
0.01	100	6.48	Kills smell in 3 to 5 minutes; may sting eyes and throat.
0.02	200	12.96	Kills smell shortly; stings eyes and throat.
0.05	500	32.96	Dizziness; breathing ceases in a few minutes; needs prompt artificial respiration.
0.07	700	45.36	Unconscious quickly; death will result if not rescued promptly.
0.1	1,000	64.80	Unconscious at once; followed by death within minutes.

NOTE: Always remember that 1 ppm is a very small amount of anything, and when speaking of hydrogen sulfide, we are always speaking of very small amounts.

TREATMENT FOR HYDROGEN SULFIDE POISONING

FIRST AID

1. Never attempt to rescue a hydrogen sulfide poisoning victim without first donning proper breathing apparatus and getting help. Alert others to the fact that a dangerous situation exists.
2. Drag the victim to an area where it is certain that there is fresh air.
3. If there are multiple victims try to rescue them in the order of their exposure. Try to rescue and revive all victims.
4. Determine if the victim is breathing. If not, clear airway and begin ventilation; Use oxygen if possible.
5. Determine if the victim's heart is beating. If not, begin CPR compressions.
6. Get help. Have the helpers call an ambulance and the local hospital.
7. If the victim is breathing keep him still and monitor vital signs closely. Have a helper call the ambulance and hospital. Administer oxygen if possible. Don't allow the victim to get up until he has been cleared by a doctor.

TREATMENT FOR HYDROGEN SULFIDE EYE INFLAMMATION

1. Irrigate the eyes with cool water for a minimum of 15 minutes.
2. Avoid medication of any kind.
3. Ice packs or cold compresses may reduce pain.
4. Transport victim for medical attention.

PHYSICAL EFFECTS OF HYDROGEN SULFIDE POISONING

THE PRINCIPAL HAZARD IS DEATH BY INHALATION

When the amount of gas absorbed into the blood stream exceeds that which is readily oxidized, systemic poisoning results, with a general action on the nervous system. Labored respiration occurs shortly and respiratory paralysis may follow immediately at concentrations of 700 ppm and above. This condition may be reached almost without warning as the originally detected odor of hydrogen sulfide may have disappeared due to olfactory paralysis. Death then occurs from asphyxiation unless the exposed person is removed immediately to fresh air and breath-stimulated by artificial respiration. Other levels of exposure may cause the following symptoms individually or in combinations:

- a. Headache
- b. Dizziness
- c. Excitement
- d. Nausea or gastro-intestinal disturbances
- e. Dryness and sensation of pain in nose, throat and chest
- f. Coughing
- g. Drowsiness

All personnel will be alerted to the fact that detection of hydrogen sulfide solely by smell is rapidly paralyzed by the gas.

EFFECTS OF HYDROGEN SULFIDE ON METAL

Hydrogen sulfide dissolves in water to form a weak acid that can cause some pitting, particularly in the presence of oxygen and/or carbon dioxide. However, the most significant action of H_2S is its contribution to a form of hydrogen embrittlement known as sulfide stress cracking. Sulfide stress cracking is a result of metals being subjected to high stress levels in a corrosive environment where H_2S is present. The metal will often fail catastrophically in a brittle manner. Sulfide stress cracking of steel is dependent upon and determined by:

- a. Strength (hardness) of the steel - the higher the strength, the greater the susceptibility of sulfide stress cracking. Steels having yield strengths up to 95,000 psi and hardness up to Rc22 are generally resistant to sulfide stress cracking. These limitations can be extended slightly higher for properly quenched and tempered materials.
- b. Total member stress (load) - the higher the stress level (load) the greater the susceptibility of sulfide stress cracking.
- c. Corrosive environment - corrosive reactions, acids, bacterial action, thermal degradation, or low pH fluid environment.

Accident Prevention

TRAINING

Training will be conducted by Baroid Safety personnel. All regular workers and visitors to the rig will have successfully completed training prior to drilling the first suspected formation. New visitors and crew members will be required to attend a training session before being allowed to enter the location for the first time. No exceptions will be made.

Training will consist of:

1. An introduction to the properties and behavior of hydrogen sulfide.
2. Explanation of the proper and safe procedures for working in hydrogen sulfide as they pertain to that individual and his job.
3. Rescue procedures.
4. A film on hydrogen sulfide such as "Three Minutes to Live."
5. Demonstration and extensive practice donning and using the breathing apparatus which is appropriate for the individual and his job.
6. A demonstration of CPR and Artificial Respiration with each individual to perform on a CPR mannequin. (Not a certification course in CPR)
7. A short test.
8. Certification.

PERSONAL SAFETY REQUIREMENTS

Beards and Long Hair

Persons wearing facial hair or long hair which may interfere with the safe operation of breathing apparatus will not be certified or allowed on location once safety procedures are established on location for their own safety as well as the safety of others.

Contact Lenses and Eye Glasses

Persons who normally wear contact lenses cannot do so safely while wearing breathing apparatus. Therefore, they must acquire lens mounts for mounting spectacles in an air pack and wear glasses on location. Individuals who normally wear eye glasses must also acquire lens mounts.

OPERATING CONDITIONS

Operating conditions when drilling in H₂S areas are defined in three categories. A description of each of these conditions and the required action to take are given below.

A. GREEN FLAG

NORMAL OPERATING CONDITIONS-

Drilling Operations Under Control

Alarm:

None

Characterized By:

Normal drilling operations in zones which contain or may contain H₂S or SO₂.

Probable Occurrence:

No surface indications.

General Action:

- (1) Know location of safety equipment.
- (2) Check safety equipment for proper functioning. Keep it available.
- (3) Be alert for a condition change.
- (4) Follow instructions of supervisor.

B. YELLOW FLAG

POTENTIAL TO MODERATE DANGER TO LIFE

Alarm:

Flashing yellow light at 10 ppm H₂S.

Characterized By:

H₂S gas present in concentrations below 20 ppm.

Probable Occurrence:

- (1) As drill gas.
- (2) As trip gas when circulating bottoms up.
- (3) When a core barrel is pulled.
- (4) When a well kick is circulated out.
- (5) Surface pressure, well flow, or lost return problems.

B. YELLOW FLAG (Concluded)

General Action:

- (1) Follow instructions of supervisor.
- (2) Put on breathing equipment if directed or if conditions warrant.
- (3) Stay in safe briefing area if so instructed and not working to correct the problem.

C. RED FLAG

MODERATE TO EXTREME DANGER TO LIFE - H₂S Gas
Present in Concentrations at or Above 20 ppm.

Alarm:

Flashing Red light and continuous blast on horn at 20 ppm H₂S. In the event of an uncontrolled flow, the siren will be sounded.

Characterized By:

Critical well operations, well control problems. In the extreme, loss of well control. H₂S present in concentrations above 20 ppm.

Probable Occurrence:

- (1) As drill gas.
- (2) As trip gas when circulating bottoms up.
- (3) When a core barrel is pulled.
- (4) When a well kick is circulated out.
- (5) Surface pressure, well flow or lost return problems.

General Action:

- (1) Put on breathing equipment. Move to safe briefing area and remain there if not working to correct or control problems.
- (2) Follow instructions of Drilling Foreman or other supervisor.
- (3) The Drilling Foreman will initiate emergency action as provided in the Contingency Plan and as appropriate to the actual conditions.

C. RED FLAG (Concluded)

General Action:

- (4) The Drilling Foreman will ignite the well if deemed necessary as outlined on Page 36, titled, "Igniting the Well". The Drilling Foreman will conduct any necessary operations with an absolute minimum of personnel. All persons in the immediate hazard area will wear a self-contained breathing apparatus. All other personnel will restrict their movements to those directed by the Superintendent.
- (5) If the well is ignited, the burning hydrogen sulfide will be converted to sulfur dioxide which is poisonous. Therefore, DO NOT ASSUME THAT THE AREA IS SAFE AFTER THE GAS IS IGNITED. CONTINUE TO OBSERVE EMERGENCY PROCEDURES AND FOLLOW THE INSTRUCTIONS OF THE SUPERINTENDENT.

A large sign defining these conditions will be posted at each entrance to the location.

PREPARATION OF DRILLSITE LOCATION

1. The DRILLING RIG should be situated on location so that prevailing winds blow across the rig toward the reserve pit or at right angles to a line from the rig to the reserve pit.
2. The entrance to the location should be designed so that it can be barricaded if hydrogen sulfide emergency conditions arise. An auxiliary exit (or entrance) should be available so that in case of a catastrophe, a shift in wind direction would not preclude escape from the location. Appropriate warning signs and flags should be placed at all location entrances.
3. A minimum of two BRIEFING AREAS will be established not less than 250 feet from the wellhead and in such location that at least one area will be up-wind of the well at all times. Upon recognition of an emergency situation all personnel should assemble at the designated BRIEFING AREAS for instructions.
4. A SAFETY EQUIPMENT TRAILER will be stationed at one of the BRIEFING AREAS. A wind streamer will be attached near the trailer to indicate wind direction. It is recommended the SAFETY EQUIPMENT TRAILER consist of cascade air supply with 10 cylinders, 1000 feet low pressure air line hose, two low pressure manifolds, light air line masks with escape cylinders, six 30 minute self-contained units, two windsocks, first aid kit (36 units), resuscitator with cylinder, flare gun and pump type gas detector; THESE ARE MINIMUM REQUIREMENTS.
5. A windsock will be installed on top of the derrick or derrick stand and wind streamers (6 to 8 feet above ground level) placed at the location entrance. Windsock should be illuminated for night time operations. Personnel should develop wind direction consciousness.
6. The mud logging trailer will be hooked up for continuous monitoring. It will be located away from the shale shaker mud tank and a minimum of 125 feet from the well bore. The mud logging company will have an automatic hydrogen sulfide monitor.

PREPARATION OF DRILLSITE LOCATION (Concluded)

7. Shale shaker mud tanks will be located so as to minimize the danger from any gas that breaks out of the drilling fluid.
8. Electric power plant(s) will be located as far from the wellbore as practical so that it may be used under conditions where it otherwise would have to shut down.
9. All windbreakers and rig curtain will be removed from around the derrick floor and monkey board, regardless of weather conditions, when drilling approaches any zone which may contain hydrogen sulfide.
10. Explosion proof ventilating fans (bug blowers) will be positioned to ensure adequate circulation on the rig floor to blow gas vapor downwind, and under the rig floor to clear gas vapors from the substructure.
11. When approaching a depth where hydrogen sulfide may be encountered, appropriate warning signs will be posted on all access roads to the location and at the foot of all stairways to the derrick floor.
12. Appropriate smoking areas will be designated and smoking will be prohibited elsewhere.
13. A list of current emergency telephone numbers and topographic map of local areas with three mile radius will be posted in clear plastic envelopes on the rig bulletin board and in the SAFETY EQUIPMENT TRAILER.

SPECIAL EQUIPMENT.

(Should the location require, the following items would be available.)

1. A DEGASSER will be installed for separating gas from the drilling fluid between the first and second mud tanks.
2. A MUD-GAS SEPARATOR will be installed with two flare lines laid in opposite directions perpendicular to prevailing winds.
3. Flare lines should be as long a practical (150 feet minimum), securely staked, and equipped with a butane line and pilot lights which can be remotely ignited.
4. An automatic hydrogen sulfide monitor will be installed with a combination visible and audible alarm system located where it can be seen and/or heard throughout the drilling location.
5. The automatic monitor will be set to trigger the visible/audible alarms at the drilling location when the hydrogen sulfide concentration in the atmosphere reaches 10 ppm.

BLOWOUT PREVENTION EQUIPMENT

1. Blowout preventers will be sour gas trimmed dressed for hydrogen sulfide service. Choke manifolds will be of similar materials.
2. Installation and operation in testing of blowout preventers:
Blowout preventers will be tested for pressure up to 10,000 psi.
3. Manufacturer certification of the blowout preventer equipment for hydrogen sulfide service is desirable.
4. A kill line of ample strength and length will be laid to a safe point to allow pumping into the well in any emergency situation.
5. The closing unit should be located a safe distance from the well bore and positioned for maximum utilization based on the prevailing wind direction.

MUD ADDITIVES

1. Barite - Increase density as required to control well.
2. Caustic Soda - Maintain pH above 10 if soluble sulfides are detected in the mud or if H_2S gas is detected.
3. Zinc Compounds - Maintain 1-2 ppb if soluble sulfides are detected. Upper limit of zinc concentration to be determined by pilot testing. Zinc compounds may cause rheological and filtrate control problems in water-base muds at concentration higher than 1 ppb.
4. Chromate Compounds - Maintain minimum of 500 ppm if put in system. Add 1 ppb if soluble sulfides are detected. May cause rheological and filtrate control problems in water-base muds at concentration above 1 ppb. Will react with organic mud constituents at temperature. DO NOT USE in environmentally sensitive areas or if disposal problems are anticipated. EXTREMELY TOXIC.
5. Ironite Sponge - This product is controversial and is ineffective in low concentrations. Can be added in any concentration without affecting mud properties, except for density. Can be used to weight up kill fluids.
Maintain suction pit concentration at 20 ppb if continuous influx is experienced.
6. Amines - Specially selected amines should be used to coat the drill pipe on trips. Do not add to mud system.
7. Oil Mud - H_2S does not ionize in oil mud. If high concentrations of difficult conditions develop, displace with oil mud to keep drill string intact. Add lime for H_2S scavenging.
8. Ammonia - Ammonia solution may be added to drill pipe during trips to neutralize H_2S . Ammonia will not neutralize liquid H_2S .

CORING OPERATIONS

1. When coming out of the hole with a core barrel under suspected hydrogen sulfide conditions, the drilling crew will wear protective equipment while pulling the last 20 stands or at any time hydrogen sulfide reaches the surface.
2. "MASK ON" will be continued while opening the core barrel and examining the core.
3. If the core is to be sent for laboratory analysis, it must be placed in sealed containers and the receiving laboratory alerted of the presence of hydrogen sulfide. The shipping container for the core must be clearly labeled as containing a sour core.

DRILL STEM TESTS

1. DRILL STEM TESTING of hydrogen sulfide zones will be permitted only in daylight hours.
2. All non-essential personnel will be moved to "Safe Briefing Area."
3. Put on air mask before formation fluids are expected at the surface and continue "MASK ON" until flares are lighted, work areas test no more than 10 ppm hydrogen sulfide, and the area has been declared safe.
4. If warranted, Ammonia Hydroxide (26 Degree B'eaume Aqua Ammonia) may be used to treat hydrogen sulfide from tubing or drill pipe after a test.

Drill Stem Tests (DST) are often the most likely time to see large quantities of hydrogen sulfide on drilling rigs. While the hazards during a DST can be extreme, this situation can be anticipated and planning can eliminate real dangers to personnel.

Pre-treatment of the Drill String

Pre-treatment is adding chemicals to the inside of the drill string as the DST tools are being lowered into the hole. Pre-treatment accomplishes two things:

1. Adding corrosion inhibitors (such as NLTC Coat-415) protects the inside of the drill string from the corrosive effects of hydrogen sulfide.
2. Adding aqua-ammonia (or other caustic chemicals) will prevent small quantities of gaseous hydrogen sulfide from reaching the surface.

When planning a DST, the Baroid Safety Representative will make sure that proper chemicals, containers, and materials are available for treatment. The volume of Coat-415 needed will be determined by assuming 5 gallons per 20 stands, straight Coat-415. The volume of aqua-ammonia needed will be determined by assuming 2.5 gallons total needed for pre-treatment, and 2.5 gallons per 10 stands to be used if the sample cannot be reversed out of the drill string.

DRILL STEM TESTS (Continued)

As the rig is coming out of the hole to pick up the DST tools, the Safety Representative will inspect his breathing apparatus, cascade system, detection system, and first aid supplies to ensure that everything is in working order and available for quick use. He will then bring 10 gallons of Coat-415 to the drill floor for the first twenty stands of pipe pulled. He will also mix 2.5 gallons of ammonia with 2.5 gallons of water to provide a single 5 gallon slug of ammonia water. When mixing and dispensing ammonia, the Safety Representative must wear breathing apparatus. Only the Safety Representative will be allowed on the rig floor while dispensing ammonia water.

When the bottom hole assembly has been placed in the hole, the 5 gallon container of ammonia water will be poured into the bottom hole assembly, followed by 2.5 gallons of Coat-415. Another 2.5 gallons of Coat-415 will be added for every 10 stands.

Additional Safety Controls

In addition to inspecting the breathing apparatus, cascade system, detection system, and first aid supplies, the Safety Representative will provide an ignited smudge pot at the end of the flare line before the initial opening of the DST tool. He will also make sure that a hand-held detector and adequate hydrogen sulfide and sulfur dioxide tubes are available on the floor during the test.

The Safety Representative (as well as everyone on location) will be responsible for knowing the wind direction and relative wind velocity, and will at all times be prepared to take appropriate action should wind direction become unfavorable. The Baroid Representative will check the tester sample hose frequently during tool openings and alert crew members as necessary. He will accompany crew members who must work in hazardous areas for the purpose of checking the area for hydrogen sulfide; and he will instruct crew members to wear breathing apparatus if the hydrogen sulfide concentration exceeds 20 ppm.

After testing tools have been closed and the crew is ready to trip out of the hole, the Safety Representative will test with a hand detector for hydrogen sulfide in the drill pipe as soon as the control head has been removed. He will continue to test every 1-5 stands (depending on severity) during the trip. An additional 5 gallons of ammonia water should be added to the drill string when the control head is broken off if any hydrogen sulfide has been detected up to this point. When the hydrogen sulfide concentration in the drill pipe begins to exceed 20 ppm, the decision should be made to reverse circulate the sample from the drill string. If for any reason the sample cannot be reverse circulated, procedures will be followed as detailed under the section of this plan entitled Ammonia Hydroxide.

DRILL STEM TESTS (Concluded)

The Baroid Safety Representative will remain on location until the DST tools have been laid down.

AMMONIA HYDROXIDE (26 Degrees B'eaume Aqua Ammonia)
USED TO NEUTRALIZE HYDROGEN SULFIDE

The use of this material and method is a "partial" control for removing sulfide (H_2S) from the drill stem after test, by use of an ammonia hydroxide solution.

Material and Equipment

1. One 55 gallon drum of 26 Degrees B'eaume aqua ammonia.
2. Metal spigot (faucet) and a stand for the drum to be raised at least 24 inches off ground.
3. Two clean five gallon cans for mixing NH_3 and water.
4. One lever or dump type five gallon metal container. This container will be placed over a box of D/P above rotary table, into which the mixture can be poured.
5. Three one gallon heavy plastic transparent bottles, or jugs, each with handles and previously marked off, or painted, at intervals of one quart (for "Use in Derrick Only").
6. A small metal funnel for partially filling plastic bottles from ammonia drum spigot.
7. In the event that "Bug Blowers" become necessary they will be provided on location.
8. Two signs (each 3 feet by 2 feet), one reading, "DANGER POISON GAS - KEEP OUT" which is to be posted at gate, or read to lease, preferably on both. A second sign to read, "DANGER POISON GAS - KEEP OFF RIG FLOOR". This sign is to be posted at foot of steps leading up to rig floor.

AMMONIA HYDROXIDE (Concluded)

Procedure

The 50/50 aqua ammonia and water mixture should be added to the pipe as soon as the control head is removed from the pipe after the tool has been closed. A sufficient quantity of this 50/50 solution should be added to neutralize at least five (5) stands (20 pints, or 2-½ gallons of 50/50 mixture) to begin with, and after that, treat each stand before it is drilled from the hole. (Approximately ½ gallon of 50/50 mixture per stand).

It is not always possible to completely neutralize five stands in this manner by only adding the calculated amounts. So at first, check with H₂S detector after each stand is broken out. Then, if the detector still shows harmful presence of H₂S, the pipe can then be immediately retreated, and the quantity of treatment increased, if necessary.

Special Note

The above treatment of H₂S in the D/P with ammonia solution is possible only until the fluid from the formation in the pipe is reached. It is then necessary to reverse circulate the fluid out of the hole. Should the pump-out sub fail, it will be necessary to pull the rest of the way out of the hole with the crew wearing their gas protection equipment.

Caution

There are three possible hazards in using ammonia to neutralize H₂S:

1. It may invite crews not to wear their masks when the liquid portion of D/S test is encountered. This would be wrong. At this time, you cannot neutralize the H₂S in the liquid by pouring the ammonia water down the drill pipe.
2. Wet stands (presently pulled and standing in derrick) can be neutralized by pouring ammonia water in from the top (and washing off floor at bottom). Be sure that the plastic bottle or container holding the solution sent to the monkey board is rugged, well secured, and that the crew is kept back while transporting it to derrick man.
3. Under these and other normal conditions of use, ammonia cannot create a poison hazard for the men. However, ammonia should not be breathed over long and extended periods of time. Harmful ammonia concentrations will always warn one by its sharp and pungent smell.

BREATHING EQUIPMENT

1. Filter-type or cartridge masks do not provide the necessary protection and will not be used in the drilling operation when a hydrogen sulfide environment may be encountered.
2. Self-contained breathing equipment will be used in the drilling operations involving a hydrogen sulfide environment. Pressure demand, or positive pressure breathing apparatus will have a Bureau of Mines and/or T.C. (NIOSH) approval, and shall be used only in positive pressure mode.
3. The pressure demand breathing apparatus will have alarms that signal when air supply is getting low, 425 to 500 psi. This would allow five to seven minutes escape time.
4. Masks should be stored on racks and protected from the weather. Rig crew equipment will be located at a readily accessible location on the rig floor.
5. The derrick man will have a mask. It will be equipped with a connection through a quick-disconnect from his Cascade System of breathing air so that if he must evacuate the derrick, he will have 5 to 7 minutes of air in his escape air bottle with his mask.

Procedures

OPERATIONS WHEN HYDROGEN SULFIDE IS DETECTED

1. At this time, the Drilling Foreman will assess the situation, outline a program of control and assign duties. His instructions will be followed carefully. Success depends on how quickly, thoroughly and effectively each man does his assigned duties.
2. When the severity of the situation has been determined, all personnel will be advised. If necessary, the Drilling Foreman will place a guard at the entrance to the location to keep unauthorized personnel from entering the location.
3. Personnel will develop practice of watching out for each other when emergency conditions exist. Where possible, work should be performed in pairs. When a hydrogen sulfide emergency exists, personnel should use the "BUDDY SYSTEM" to prevent anyone from entering a contaminated area alone.
4. HYDROGEN SULFIDE GAS DISCIPLINE will be adhered to. When the "MASK ON" requirements exist, THERE ARE NO EXCEPTIONS.
5. Personnel will not remove breathing equipment until tests indicate that the atmosphere is safe to breathe and all clear is announced.
6. In the event of SUDDEN GAS RELEASE without advance warning, personnel will be instructed to take the following general actions:
 - a. Put on protective breathing equipment.
 - b. Help any person(s) in distress.
 - c. Proceed to the designated safe briefing area and secure instructions from supervisor.
 - d. DO NOT PANIC.
 - e. If conditions warrant, driller will secure rig, stop motion of rig, and close blowout preventers.

NOTE: PUT ON YOUR BREATHING EQUIPMENT BEFORE ATTEMPTING A RESCUE. YOU, TOO CAN BECOME A VICTIM.

RESPONSIBILITIES AND DUTIES

ALL PERSONNEL

It is the responsibility of all personnel on the location to familiarize themselves with the procedure outlined in this directive.

All personnel will attend to their personal safety first.

Help anyone who may be injured or overcome by toxic gases. Remember to put breathing equipment on before helping anyone overcome by H_2S . Then get him to a safe area and administer oxygen.

Report to the "SAFE BRIEFING AREA" and follow instructions of the Drilling Superintendent.

DRILLING FOREMAN

Drilling Foreman will have complete charge of the rig operations and will take whatever action is necessary in an emergency situation to ensure personnel safety, to protect the well, and to prevent property damage. He will see that safety and emergency procedures are complied with by all personnel.

He will keep the Drilling Superintendent fully advised of all happenings and occurrences relating to this Contingency Plan as they occur and will see that this plan is strictly observed.

He will advise each contractor, service company and all others entering the site that hydrogen sulfide may be encountered and the potential hazards that may exist.

Will authorize the evacuation of local residents if hydrogen sulfide threatens their safety.

Will keep the number of persons on location to a minimum during hazardous operations.

Will designate "SAFE BRIEFING AREAS".

Will assess the situation when alarm sounds, and issue work orders or, when conditions warrant, order all personnel to "SAFE BRIEFING AREAS".

RESPONSIBILITIES AND DUTIES (Concluded)

Will direct corrective actions to control flow of gas.

Has full responsibility of the decision to ignite the well. The decision will be made only as a last resort.

DRILLING CONTRACTOR

1. Tool Pusher will assume all responsibility of Drilling Foreman in an emergency situation if Drilling Foreman is absent or incapacitated.
2. Tool Pusher will order Driller to secure rig if the time permits.
3. In absence of Tool Pusher and Drilling Company Foreman, the Baroid Safety Representative acting as an agent for the operator will assume their responsibility on behalf of the operator.

TEMPORARY SERVICE PERSONNEL

All service personnel, such as cementing crews, logging crews, specialists, mechanics, and welders will furnish their own safety equipment as required to comply with OSHA and Drilling Superintendent.

VISITORS

1. Visitors will be restricted, unless accompanied or authorized by Drilling Foreman, when hydrogen sulfide might be encountered.
2. Visitors and non-essential personnel will be prohibited from location at all times after the atmosphere exceeds 20 ppm.

NOTE: WHEN HYDROGEN SULFIDE MIGHT BE ENCOUNTERED, NO PERSONNEL ON LOCATION WILL BE PERMITTED TO SLEEP IN VEHICLES.

IGNITING THE WELL

RESPONSIBILITY

THE DECISION TO IGNITE THE WELL IS THE RESPONSIBILITY OF THE DRILLING FOREMAN. In case he becomes incapacitated, then the Tool Pusher will assume responsibility, and if he too is incapacitated, then the Baroid Safety Representative shall have the responsibility, acting as an agent for the operator.

1. The decision should be made only as a last resort and in a situation where it is clear that:
 - a. Human life and property are endangered.
 - b. There is no hope of controlling the blowout under the prevailing conditions at the well.
2. In all cases to the extent that time permits, every effort will be made to contact Operational Superintendent and secure his approval before igniting the well. However, such decision is not to be delayed if human life is in danger.

INSTRUCTIONS FOR IGNITING THE WELL

1. Two persons are required for the actual igniting operation. Both men will wear self-contained breathing units and will have retrieval safety ropes attached. One man is responsible for checking the atmosphere for explosive gases with an Explosimeter if available. The other man is responsible for igniting the well.
2. The primary method of igniting the well is a 25 mm flare gun with range of approximately 500 feet.
3. Always ignite the well from upwind and do not approach well any closer than is warranted.
4. Select a location that is clear and accessible for a hasty retreat and which provides maximum protection for the ignition team.
5. Before firing flare gun, check the atmosphere at the location for any combustible gases.
6. With the well ignited, remember that burned hydrogen sulfide is converted to sulfur dioxide, which is also toxic and poisonous. Do not assume the area is safe when the gas is being burned.

IGNITING THE WELL (Concluded)

7. After gas has been ignited, continue to observe the emergency action and procedures as before. Continue to follow the instructions of the Drilling Foreman.
8. All unassigned personnel will limit their actions to those directions given by the Drilling Foreman.

REMEMBER: AFTER WELL IS IGNITED, BURNING H_2S WILL CONVERT TO SO_2 , WHICH IS ALSO HIGHLY TOXIC - DO NOT ASSUME THE AREA IS SAFE AFTER THE WELL IS IGNITED.

EVACUATION PROCEDURES

PROCEDURES

1. Notify local civic authorities so that the public can be kept from the area.
2. All unauthorized personnel will be directed to leave the location by the Drilling Foreman in the most expedient and safest manner.
3. Local residents residing in the immediate area are to be notified as listed in Section I - Emergency Listings, residents and livestock owners.

Appendix

EMERGENCY PHONE NUMBERS AND DIRECTIONS

AMBULANCE: (Rock Springs, Wyoming) (307) 362-5607
FIRE DEPARTMENT: (Manila, Utah) (801) 784-5500
DAGGETT COUNTY SHERIFF: (Manila, Utah) (801) 784-3255
SWEETWATER COUNTY SHERIFF: (Rock Springs, Wyoming) (307) 362-6900
UTAH HIGHWAY PATROL: (Vernal, Utah) (801) 789-3111
HOSPITAL: (Sweetwater County Memorial Hospital - Rock Springs, Wyoming)
(307) 362-3711

DIRECTIONS TO LOCATION:

Take Route 430 south from Rock Springs, Wyoming to just past the 52 mile marker. The paved road veers left but take the gravel road which goes straight ahead. Drive 7 miles (you pass into Colorado) to County Road 72 turn west (right). Drive 17.2 miles to location (Parker #193 is the rig).

DIRECTIONS TO SWEETWATER COUNTY MEMORIAL HOSPITAL:

Take Route 430 north to Rock Springs, Wyoming. Drive through Rock Springs on Route 430 to Center Street. Turn left on Center, continue as Center Street turns into Dewar Drive (Follow the blue H for hospital signs). Turn Right at College Drive. The hospital is located on the left.

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

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)		5. LEASE DESIGNATION AND SERIAL NO. ML-31811	
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Exploratory Test		7. UNIT AGREEMENT NAME	
2. NAME OF OPERATOR McMoRan-Freeport Oil Company		8. FARM OR LEASE NAME STATE-ML-31811	
3. ADDRESS OF OPERATOR Suite 290, 1860 Larimer St., Denver, CO 80202		9. WELL NO. 43-2A	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2140' FSL, 500' FEL, SE Sec. 2, T2N, R25E, Daggett County, Utah		10. FIELD AND POOL, OR WILDCAT Wildcat	
14. PERMIT NO.		11. SEC., T., S., M., OR BLK. AND SUBST OR AREA Sec. 2, T2N, R25E	
15. ELEVATIONS (Show whether OF, RT, OR, etc.) 8,672 Ground ungraded		12. COUNTY OR PARISH Daggett	13. STATE Utah

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

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

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

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

PLUGGING REPORT

1. First cement - 50 sx. class "H" cmt., plug set 8 1/2" hole, 15,594' to 15,694'
2. Second cement - 50 sx. class "H" cmt., plug set 8 1/2" hole, 13,456' to 13,556'
3. Halliburton EZSV bridge plug set at 11,213' in 9-5/8" liner
4. Third cement - 100 sx. class "H" cmt., plug set at 11,113' to 11,313'
5. Final plug - 20 sx. class "H" cmt., plug set at -3' to -40' in 13-3/8" surface casing

All of above operations performed and completed on June 30., 1984

Verbal approval received 6/21/84.

RECEIVED

JUL 16 1984

DIVISION OF OIL
GAS & MINING

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

SIGNED D.B. Singleton TITLE Manager - Engineering DATE 7/13/84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



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

September 25, 1984

McMoRan-Freeport Oil Company
1860 Larimer Street, Suite 290
Denver, Colorado 80202

Gentlemen:

Re: Well No. State 43-2A - SEc. 2, T. 2N., R. 25E.
Daggett County, Utah - API #43-009-30058

This letter is to advise you that we have received your "Sundry Notice" of subsequent abandonment on the above referred to well, however, we have not received the "Well Completion or Recompletion Report and Log" as required by our rules and regulations.

Rule C-5 of The Oil and Gas Conservation General Rules and Regulations and Rules and Practice and Procedure states:

Within ninety (90) days after the suspension of operations on, abandonment of, or the completion of any well drilled for the production of oil and/or gas, and within ninety (90) days after the completion of any further operations on the well, if such operations involved drilling deeper or drilling or redrilling any formation, a well log shall be filed with the Commission on a form prescribed by the Commission, together with a copy of the electric and radioactivity logs, if run.

Please complete the enclosed Form OGC-3 and forward it to this office as soon as possible.

Page 2
McMoRan-Freeport Oil Company
Well No. State #43-2A
September 25, 1984

Thank you for your prompt attention to the above matter.

Sincerely,



Claudia Jones
Well Records Specialist

clj
Enclosure
cc: Dianne R. Nielson
 Ronald J. Firth
 John R. Baza
 File
00000005/5-6



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 1, 1985

McMoRan - Freeport Oil Co.
1860 Larimer Street #290
Denver, Colorado 80202

2nd NOTICE

Gentlemen:

Re: Well No. State 43-2A - Sec. 2, T. 2N, R. 25E
Daggett County, Utah - API #43-009-30058

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

Please complete the enclosed Form OGC-3, and forward it to this office as soon as possible, but not later than April 15, 1985.

Also, according to our records, we have not yet received the required electric logs for this well.

Please take care of these matters as soon as possible, but not later than April 15, 1985.

Your cooperation in this matter is appreciated.

Respectfully,

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

Norman C. Stout
Administrative Assistant

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

161S/36



McMoRan-Freeport Oil Company

THE DOWNTOWN MEDICAL CENTER
1860 LARIMER STREET, SUITE 290
DENVER, COLORADO 80202

(303) 297-9420
TWX: 910-931-0578
TELECOPIER: 303-294-9227

TRANSMITTAL FORM

TO: State of Utah
Department of Natural Resources
Oil, Gas & Mining
355 W. North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

DATE: April 17, 1985

SHIPPED VIA: First Class U.S. Mail

ATTENTION: NORMAN C. STOUT

WELL/PROSPECT NAME AND LOCATION

Middle Mountain #43-2A
Daggett County, Utah
API #43-009-30058

RECEIVED
APR 19 1985
DIVISION OF OIL
GAS & MINING

TRANSMITTED HEREWITH ARE THE FOLLOWING:

- 1) Form OGC-3 (in duplicate)
- 2) One (1) copy each of the following logs:
 - ✓ Compensated Neutron Log
 - ✓ Borehole Compensated Sonic Log
 - ✓ Compensated Neutron-Litho Density
 - ✓ Dual Laterolog Micro-SFL
 - ✓ Dual Induction-SFL

SIGNED BY: Sharon R. Kimball
Sharon R. Kimball

PLEASE ACKNOWLEDGE RECEIPT OF THIS DATA BY SIGNING AND RETURNING THE YELLOW COPY OF THIS TRANSMITTAL FORM. THANK YOU.

RECEIVED BY: Rula McKinley DATE: 4/19/85

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

SUBMIT IN DUPLICATE*
(See other instructions
on reverse side)

9

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
McMoran Freeport Oil Co.

3. ADDRESS OF OPERATOR
Suite 290, 1860 Larimer St., Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 2140' FSL, 500' FEL, SE Sec 2, T2N, R25E *NESE*
At top prod. interval reported below
At total depth

14. PERMIT NO. DATE ISSUED
API 43-009-30058 5/2/83

5. LEASE DESIGNATION AND SERIAL NO.
ML-31811

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
STATE ML-31811

9. WELL NO.
43-2A

10. FIELD AND POOL, OR WILDCAT
MIDDLE-MT. Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
SEC 2, T2N, R25E

12. COUNTY OR PARISH
DAGGETT

13. STATE
UTAH

15. DATE SPUDED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 19. ELEV. CASINGHEAD
6/28/83 6/20/84 6-30-84 8717 KB

20. TOTAL DEPTH, MD & TVD 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 25. WAS DIRECTIONAL SURVEY MADE
16,715
Dry Hole - Abandoned

26. TYPE ELECTRIC AND OTHER LOGS RUN
Dual Induction, CNL-Litho-Dens, CR, Sonic *DL*

27. WAS WELL CORDED
NO

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
30"	260ppf, H60	1355'	36"	1400 Sx "A", 2020 Sx "H"	
20"	207, 170 ppf	3893	27 1/2"	2100Sx Lite, 550Sx "H", 2900	Sx "H" in top
13-3/8	395, 72#, 68#	8710	17 1/2"	900Sx "H"	
	88.2				

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
9-5/8-	8380	11263	170A, 150H	
S95 47#				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION

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

DATE OF TEST HOURS TESTED CHOKE SIZE PROD'N. FOR TEST PERIOD OIL—BSL. GAS—MCF. WATER—BSL. GAS-OIL RATIO

FLOW. TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE OIL—BSL. GAS—MCF. WATER—BSL. OIL GRAVITY-API (CORR.)

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

35. LIST OF ATTACHMENTS

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

SIGNED *D Singleton* TITLE Manager-Engineering DATE 4/15/85

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

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

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

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

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

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

FORMATION	TOP	DESCRIPTION, CONTENTS, ETC.	BOTTOM	38. GEOLOGIC MARKERS
Pre Cambrian	Surface			
Mancos	8890			
Frontier	11227			
Dekota	11622			
Entrada	12490			
Nugget	12665			
Chinle	13506			
Phosphoria	14480			
Weber	14660			
Morgan	15644			
Madison	16318			
TD	16715			

ORAL APPROVAL TO PLUG AND ABANDON WELL

43-009-30058
PA

Operator McMORAN - FREEPORT OIL CO. Representative HAL ADDINGTON (303) 629-6924

Well No. STATE 43-2A Location NE 1/4 SE 1/4 Section 2 Township 2N Range 25E

County DAGGETT Field _____ State UTAH

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

T.D. 16,715' Size hole and Fill per sack 8 1/2" Mud Weight and Top WATER #/gal. _____

Casing Size	Set At	Top of Cement	To Be Pulled	Plugging Requirements		
				From	To	Sacks Cement
<u>SEE ATTACHMENT</u>			<u>NONE</u>			
<u>Formation</u>	<u>Top</u>	<u>Base</u>	<u>Shows</u>			
<u>SEE ATTACHMENT</u>				<u>15,594'</u>	<u>15,694'</u>	
				<u>13,456'</u>	<u>13,556'</u>	
				<u>11,213'</u>	<u>11,313'</u>	
					<u>SURFACE</u>	<u>10 sx</u>

REMARKS

DST's, lost circulation zones, water zones, etc., Lost circ. encountered mainly in cased hole interval and in Nuggett formation. Regulation dry hole marker will be erected.

Approved by JRB Date 6/21/84 Time 15:00 p.m.

CASING

40"
30"
20"
13 3/8
9 5/8 liner

LANDED

72'
1355'
3893'
8720'
8374'-11,263'

CEMENTED

Surface
Surface
Surface
TOC @ 7930'
Cemented to top
of liner.

LOG TOPS:

Uintah Quartzite
Mancos 8890'
Frontier 11,227'
Mowry 11,436'
Dakota 11,622'
Morrison 11,742'
Curtis 12,324'
Entrada 12,490'
Carmel 12,621'
Nuggett 12,665'

Chinle 13,506'
Shirnarmp 13,604'
Moenkopi 13,640'
Phosph. 14,480'
Weber 14,660'
Morgan 15,644'
Round Valley 16,103'
Manning Cyn. 16,285'
Madison 16,318'
TD 16,715'