

UTAH DIVISION OF OIL, GAS AND MINING

REMARKS: WELL LOG _____ ELECTRIC LOGS _____ FILE WATER SANDS _____ LOCATION INSPECTED _____ SUB. REPORT/ABD _____

DATE FILED 9-26-79

LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. U-42067 INDIAN

DRILLING APPROVED: 9-24-79

SPUDED IN:

COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: 12-18-79-Location Abandoned, well never drilled

FIELD: Undesignated 3/86

UNIT:

COUNTY: San Juan

WELL NO. Federal 24-1

API NO: 43-037-30503

LOCATION 620' FT. FROM (N) ~~XX~~ LINE. 840' FT. FROM (E) ~~XX~~ LINE. NE NE 1/4-1/4 SEC. 24

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
38S	25E	24	McCULLOCH OIL & GAS CORP.				

FILE NOTATIONS

Entered in NID File	Checked by Chief
Location Map Pinned	Approval Letter
Card Indexed	Disapproval Letter

COMPLETION DATA:

..... Completed	Location Insp
..... ..	Sound released
GW..... OS..... EA.....	State or Fee Land

LOGS FILED

Driller's Log.....
Electric Logs (No.)

E.....	I.....	Dual I Lat.....	GR-II.....	Micro.....
BHC Sonic GR.....	Lat.....	MI-L.....	Sonic.....	
CBLog.....	CCLog.....	Others.....		

1-30-97 jef

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

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

2. NAME OF OPERATOR
 McCulloch Oil & Gas Corporation

3. ADDRESS OF OPERATOR
 3033 N.W. 63rd St; Suite 250-E, Oklahoma City, Okla. 73116

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 620' FNL & 840' FEL of Section 24, T38S-R25E
 At proposed prod. zone Same as above **NE NE**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

5. LEASE DESIGNATION AND SERIAL NO.
 U 42067

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 Federal 24

9. WELL NO.
 1

10. FIELD AND POOL, OR WILDCAT
 Undesignated

11. SEC., T., E., M., OR BLE. AND SURVEY OR AREA
 Section 24, T38S-R25E

12. COUNTY OR PARISH 13. STATE
 San Juan Utah

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

16. NO. OF ACRES IN LEASE
 280

17. NO. OF ACRES ASSIGNED TO THIS WELL
 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH
 5800' *Akahn*

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 5158' GR

22. APPROX. DATE WORK WILL START*
 October 10, 1979

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	2550'	1200 sacks
7 7/8"	4 1/2"	10.5#	5800'	300 sacks

Additional information attached



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 *W.R. Siga* TITLE District Drlg Engr. DATE 9-11-79
 (This space for Federal or State office use)

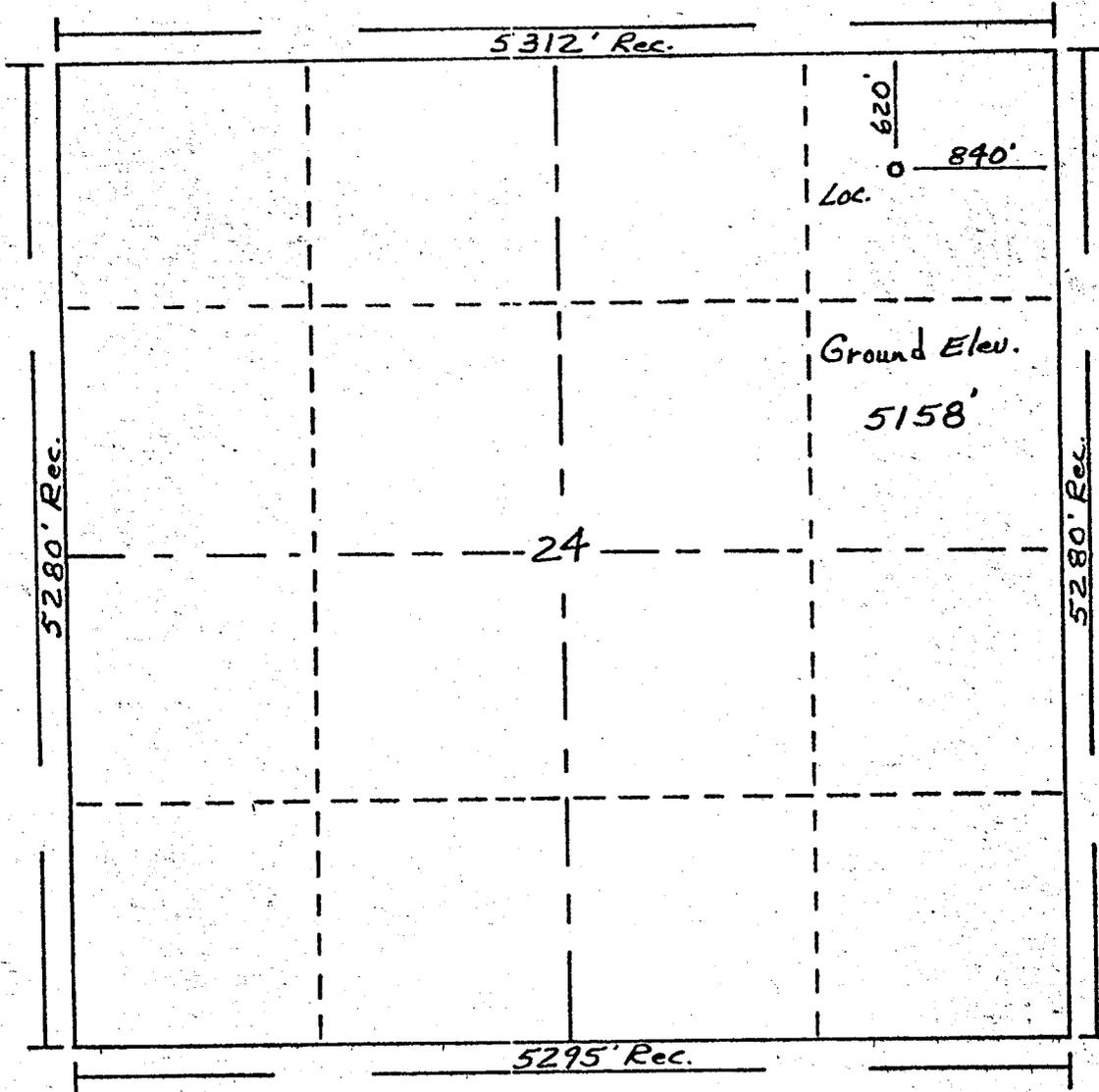
PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



R. 25 E.



T. 38 S.

Scale... 1" = 1000'

Powers Elevation of Denver, Colorado
 has in accordance with a request from Dick Lynn
 for McCulloch Oil & Gas Co.
 determined the location of #1-24 Federal
 to be 620' FNL & 840' FEL Section 24 Township 38 S.
 Range 25 E. Salt Lake Meridian
 San Juan County, Utah

I hereby certify that this plot is an
 accurate representation of a correct
 survey showing the location of #1-24 Federal

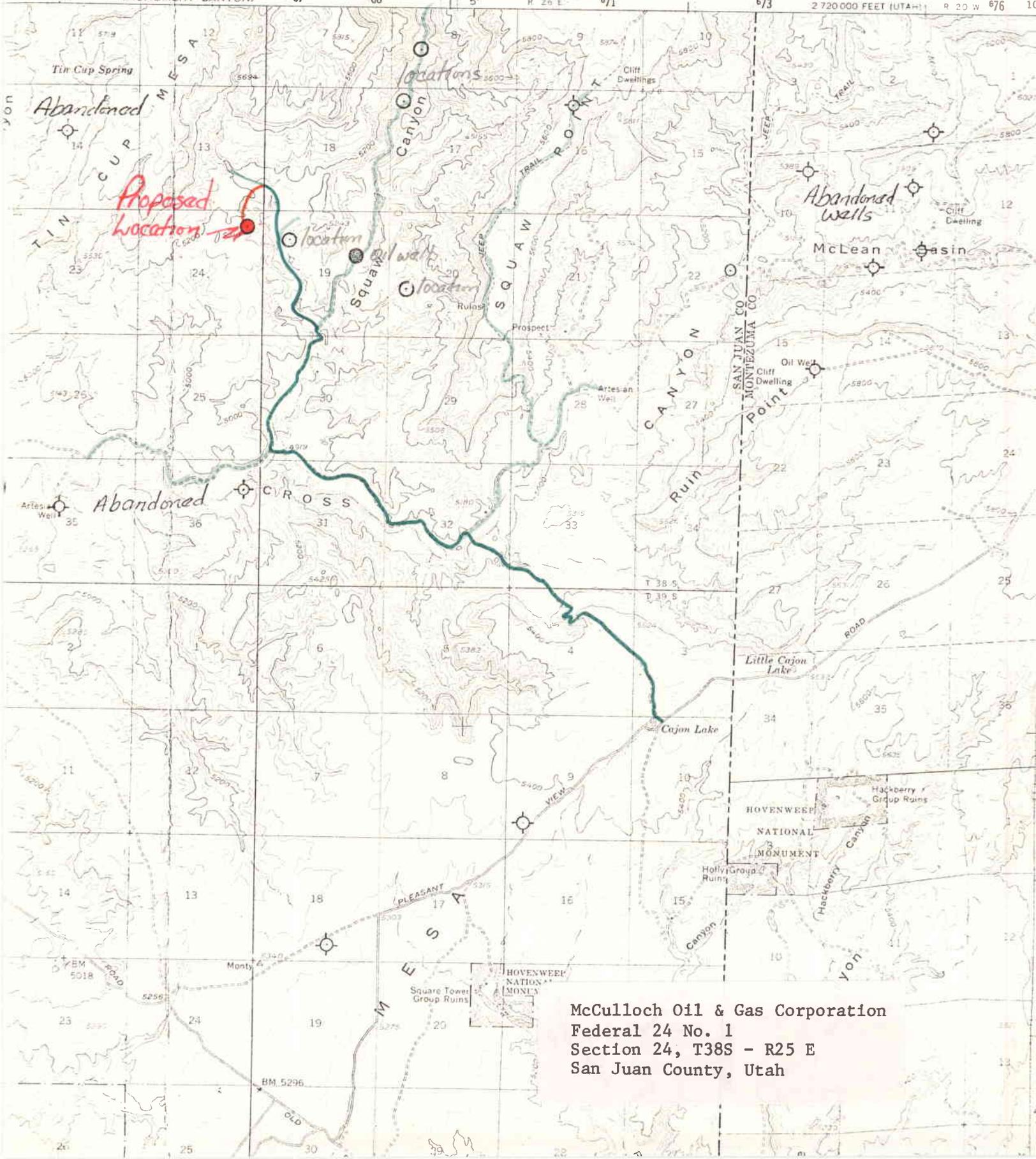
Date: 9-4-79

J. Nelson
 Licensed Land Surveyor No. 2711
 State of Utah

UNITED STATES
ATOMIC ENERGY COMMISSION

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

664 4159 II 667 668 5' R 25 E 671 673 2 720 000 FEET (UTAH) R 20 W 676 10



McCulloch Oil & Gas Corporation
Federal 24 No. 1
Section 24, T38S - R25 E
San Juan County, Utah

McCULLOCH OIL & GAS CORPORATION

Formation Information and Drilling Procedures
(continuation of Item 23 Form 9-331C)

WELL

Federal 24 No. 1

LOCATION

620' FNL & 840' FEL
Section 24, T38S-R25E
San Juan County, Utah

Federal Lease Number U 42067

1. Geologic name of Surface Formation
Morrison Sandstone

2. Estimated Tops of Important Geologic Markers

Jurassic	Curtis	530'
	Entrada	630'
	Carmel	760'
Triassic	Navajo	785'
	Kayenta	1030'
	Wingate	1130'
	Chinle	1400'
	Shinarump	2325'
	Moenkopi	2390'
Permian	Cutler	2505'
	U. Hermosa	4255'
Penn.	Paradox	5215'
	U. Ismay	5380'
	L. Ismay	5570'
	Desert Creek	5635'
	Akah	5745'
Total Depth		5800'

3. Estimated Depths at which Anticipated Water, Oil, Gas, or Other Mineral Bearing Formations are Expected

800'	Water
2400'	Water
5380'	Oil and Gas
5680'	Oil and Gas

4. Proposed Casing and Cementing Program

Conductor Casing: 13 3/8", 48.00#, H-40, ST&C new casing to be set at 80' and cemented to surface with 100 sacks Class "B" cement containing 2% CaCl₂.

Surface Casing: 8 5/8", 24.00#, K-55 & S-80, ST&C new casing to be set at 2550' and cemented to surface with 1000 sacks "Light" cement containing 2% CaCl₂ followed by 200 sacks Class "B" cement containing 2% CaCl₂.

Production Casing: 4 1/2", 10.50#, K-55, ST&C new casing to be set at 5800' and cemented with 300 sacks 50:50 pozmix cement containing 10% salt, and 0.75% CFR-2.

5. Specifications for Pressure Control Equipment

The attached schematic drawings show the pressure control equipment to be used while drilling. All equipment is rated at 3000 psi. The blowout preventer will be tested to 1000 psi prior to drilling from under the surface casing by applying pressuring through a casing valve with the blind rams closed. This procedure will be repeated with the pipe rams closed on a joint of drill pipe. Operation of the hydraulic system will be checked daily.

6. Drilling Fluids

<u>Depth</u>	<u>Type Fluid</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Water Loss</u>
0 - 100'	Spud mud	8.6-9.0	35-40	NC
100-2550'	Water	8.4-8.6	28-30	NC
2550-5000'	Gel-Chem.	9.0-10.0	35-45	10-20
5000-TD	Gel-Chem.	9.0-10.0	40-50	6-8

7. Logging, Coring, and Testing Program

Logging: Dual Induction Laterolog, Gamma Ray Sonic Log, Gamma Ray Compensated Neutron Formation Density Log, and High Resolution Dipmeter.

Coring: The Upper Ismay interval from approximately 5380' to 5560' and the Desert Creek from 5680' to 5730' will be cored.

Drill Stem Tests: DST's will be conducted only as warranted by indications of porosity and shows. Most probable candidates will be the Upper Ismay and Desert Creek Formations.

8. Abnormal Pressures, Temperatures, or Potential Hazards

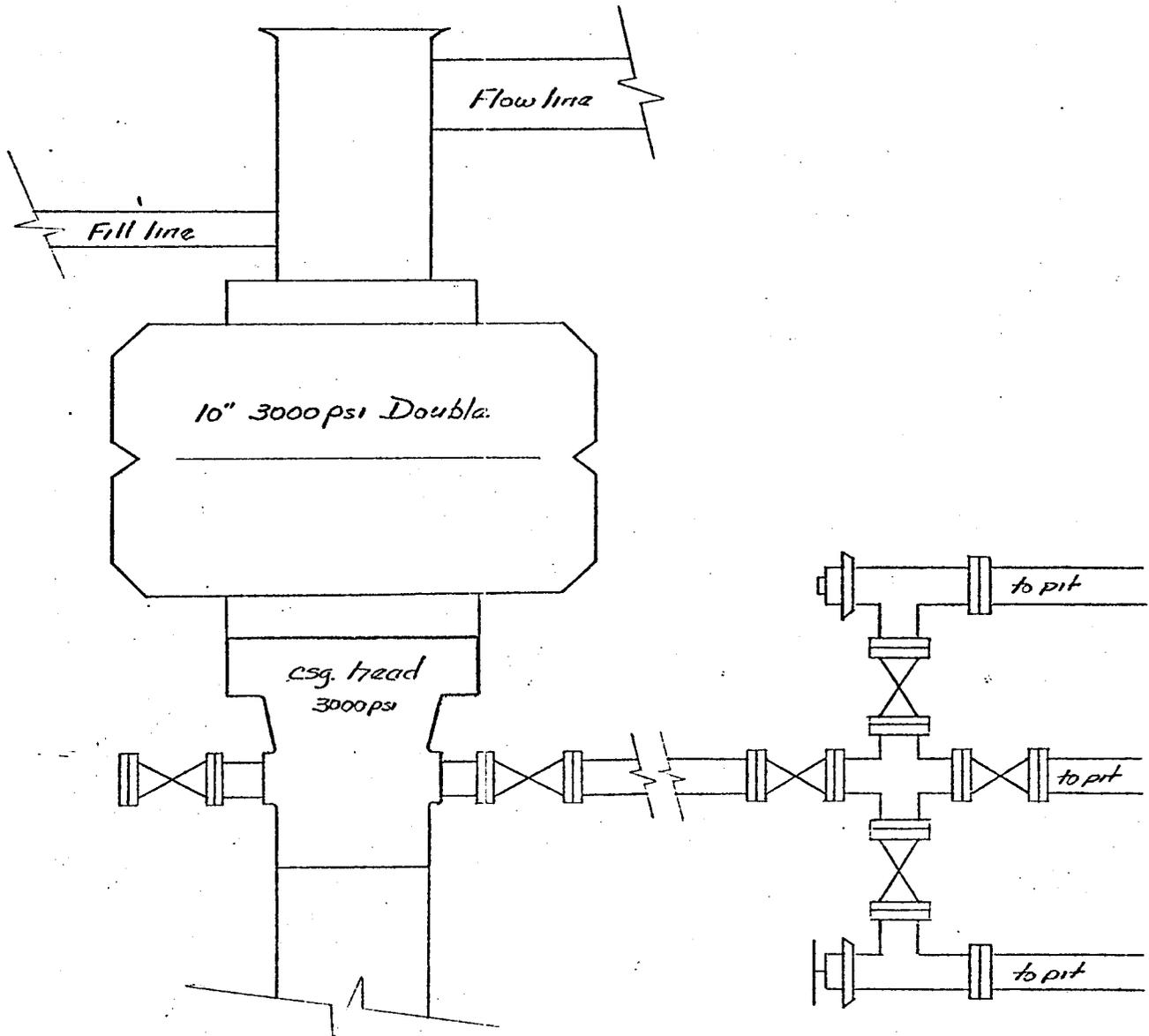
No abnormal pressures or temperatures are expected. None of the formations to be penetrated are expected to contain any hazardous gasses. Water flows are anticipated between 700' and 2400'.

9. Starting Date

The anticipated starting date is October 10, 1979. Approximately 30 days will be required to build roads and location and then drill the well to total depth. If commercial, completion operations will commence immediately and require an additional 15 days.

Schematic of Pressure Control Equipment

McCulloch Oil & Gas Corp.
Federal 24 No. 1
620' FNL & 840' FEL
Section 24, T38S-R25E
San Juan County, Utah



McCULLOCH OIL & GAS CORPORATION

Multi-Point Surface Use and Operations Plan

WELL

Federal 24 No. 1

LOCATION

620' FNL & 840' FEL
Section 24, T38S-R25E
San Juan County, Utah

Federal Lease Number U 42067

1. Existing Roads (Shown in green)

The attached topographic map shows all existing roads within three miles of the proposed location. To reach the proposed location go north of Cortez, Colorado, on HW.666 19 miles to the Hovenweep National Monument Road, turn left (west) onto the Hovenweep road and follow it for 23 miles to the Cross Canyon road. Turn right (north) onto the Cross Canyon road and go 2.5 miles just past Cross Canyon wash, then take the road going to the left (west) and go 1.75 miles to the road turning right (north) into Squaw Canyon. Follow this road 1 mile then take the road veering off to the left. Go approximately 1.4 miles to the location. All existing roads going to the location are marked in dark green on the attached map. The last 0.4 of a mile to the location will be new access road and is marked in orange.

The existing roads will have to be upgraded to take care of heavy truck traffic. This will require no more than leveling rough spots in the present roadway.

2. Planned Access Road (Shown in orange)

An access road approximately 2000' long and 20' wide will be necessary to connect the location with the existing road. The proposed roadway has been flagged. Drainage will run beside the road, with water bars used where necessary to prevent erosion. All surfacing material will be taken from the roadway. No turnouts will be required. No gates, cattleguards, or fences will be crossed. No major cuts or fills should be required.

3. Location of Existing Wells

All wells (water, abandoned, disposal, and drilling) are shown and so labeled on the topographic map.

4. Location of Tank Batteries, Production Facilities, and Production, Gathering, and Service Lines.

Temporary production facilities will be constructed on the location site for initial testing. Plans for a permanent production facility to serve several wells will be submitted as soon as our current development drilling program is completed and the producing capabilities of the wells are evaluated.

5. Location and Type of Water Supply

Water for drilling will be trucked from the artesian well in Cross Canyon in Section 23, T38S-R26E approximately 5 road miles south and east of the location. This water source is located on federal land.

6. Source of Construction Materials

Any construction material required for roads or location will be excess material accumulated from building of such sites.

7. Method of Handling Waste Disposal

The location of the reserve and burn pit is shown on the attached drill site layout. All trash and burnable material will be burned in the burn pit when safety permits. All nonburnable material (drilling fluids, cutting, chemicals) will be stored in the reserve pit and then buried when they have dried. Any oil produced while drilling will be trucked from the location prior to leaving pit to dry out. Pits will be completely fenced during drying time, and then back-filled with dirt prior to preparing the location for production or abandonment.

A portable chemical toilet will be supplied for human waste.

8. Ancillary Facilities

No ancillary facilities are planned.

9. Well Site Layout

The attached layout shows the drilling rig with all associated facilities. Cut and fill required is also indicated.

10. Plans for Restoration of Surface

Restoration of the well site and access road will begin within 90 days of well completion, weather permitting.

Should the well be abandoned, the drilling site will be reshaped to its approximate former contour. The access road will be plowed up and leveled. Both drill site and road will have any top soil replaced and will be reseeded when germination of seeds can take place.

Should the well be commercial, that portion of the location not needed for operation will be repaired as above. The portion of the location needed for daily production operations and the access road will be kept clean and in good repair.

In either case, cleanup of the site will include burning of any safely burnable material, filling of all pits, carrying away of all nonburnable material and any chemicals that cannot be safely buried, and the hauling off of any oil that may have accumulated on the pits while drilling.

11. Other Information

General topography of the area may be seen on the attached map. This location is on a moderately sloping hillside just above a dry wash to the east. The soil is sandy and rocky. Sparse vegetation consists mostly of sage brush and some native grasses.

The surface agency for the drill site and access road is The Bureau of Land Management.

There are no occupied dwellings in the area.

There were no archaeological or cultural sites visible on the location. An archaeologist will be present for the pre-drill inspection and will submit his report afterward.

12. W.R. Lynn
McCulloch Oil & Gas Corporation
3033 N.W. 63rd St.
Suite 250-E
Oklahoma City, Oklahoma 73116

13. 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 the 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 McCulloch Oil & Gas Corporation and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

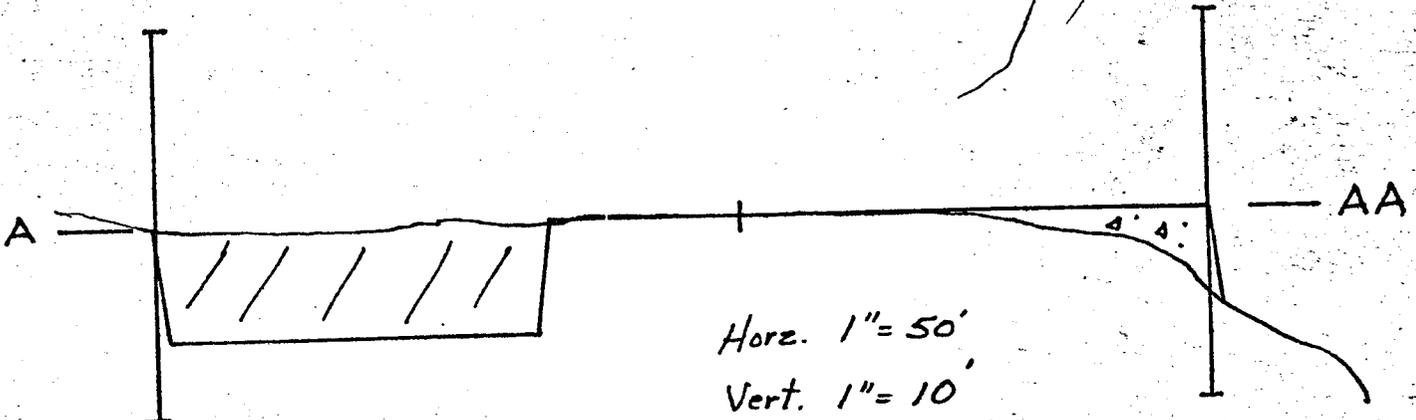
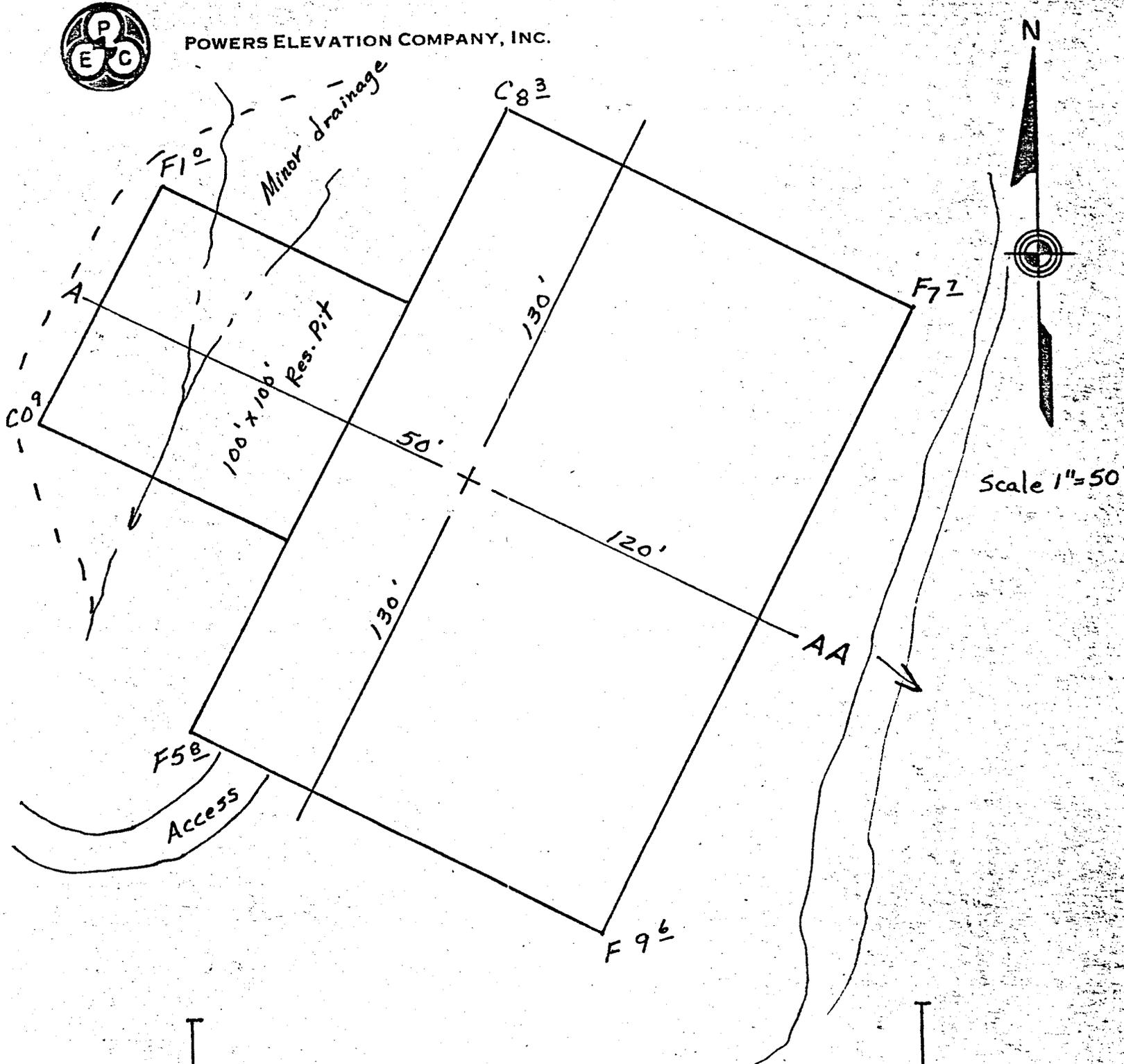
9-11-79


W.R. Lynn

McCulloch Oil & Gas
#1-24 Federal



POWERS ELEVATION COMPANY, INC.



Horz. 1" = 50'
Vert. 1" = 10'

DESIGNATION OF OPERATOR

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

DISTRICT LAND OFFICE: Moab District Office, P.O. Box 970, Moab, Ut. 84535
SERIAL No.: U-42067

and hereby designates

NAME: McCulloch Oil and Gas Corporation
ADDRESS: Jamestown Office Park Suite 250, 3033 N.W. 63rd Street
Oklahoma City, Oklahoma 73116

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 38 SOUTH, RANGE 25 EAST, S.L.M.

Section 24: NE/4

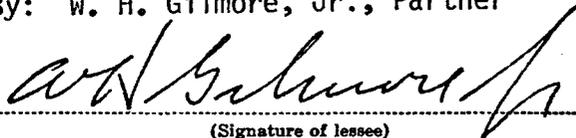
containing 160.00 acres in San Juan County, Utah

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.

Antelope Production Company
By: W. H. Gilmore, Jr., Partner



(Signature of lessee)

September 10, 1979

(Date)

P. O. Box 57
Kimball, Nebraska 69145

(Address)

** FILE NOTATIONS **

DATE: Sept. 17, 1979

Operator: McCulloch Oil & Gas Corporation

Well No: Federal 24-1

Location: Sec. 24 T. 38S R. 25E County: San Juan

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number 43-037-30503

CHECKED BY:

Geological Engineer: _____

Petroleum Engineer: COG OK, BOP OK JMS

Director: _____

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 2d

Plotted on Map

Approval Letter Written

utm

September 24, 1979

McCulloch Oil and Gas Corporation
3033 N.W. 63rd, Suite 250-E
Oklahoma City, OK 73116

Re: Well No. Federal 17-1, Sec. 17, T. 38S, R. 26E., San Juan County, Utah
Well No. Federal 20-1, Sec. 20, T. 38S, R. 26E., San Juan County, Utah
Well No. Federal 24-1, Sec. 24, T. 38S, R. 25E., San Juan County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil wells is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon these wells, you are hereby requested to immediately notify one of the following:

FRANK H. HAMNER
Chief Petroleum Engineer
Office: 533-5771
Home: 531-7827

MICHAEL T. MINDER
Geological Engineer
Office: 533-5771
Home: 531-7827

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 numbers assigned to these wells are: Federal 17-1 - 43-037-80501; Federal 20-1 - 43-037-30502; Federal 24-1 - 43-037-30503.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Frank H. Hamner
Chief Petroleum Engineer

/bhm

cc: USGS

**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
McCulloch Oil & Gas Corporation

3. ADDRESS OF OPERATOR
3033 N.W. 63rd St., Okla. City, OK 73116

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 620' FNL & 840' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

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

5. LEASE
U 42067

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal 24

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Undesignated

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 24, T38S-R25E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.
43-037-30503

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5274' GR

(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.)*

Please cancel our Application for Permit to Drill the subject well. The road and location have been prepared, but will be restored as outlined by the BLM's stipulations.

RECEIVED
DEC 21 1979

DIVISION OF
OIL, GAS & MINING

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

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

SIGNED J. D. Rawdon D. Rawdon TITLE District Mgr. DATE December 18, 1979

(This space for Federal or State office use)

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

Federal Building
701 Camino del Rio
Durango, Colorado 81301

RECEIVED
JAN 15 1980

JAN 18 1980

McCulloch Oil & Gas Corporation
3033 NW 63rd Street
Oklahoma City, OK 73116

*Location
Application*

DIVISION OF
OIL, GAS & MINING

Gentlemen:

By Sundry Notice dated December 18, 1979, you requested that approval be rescinded for Application for Permit to Drill Well No. 1 Federal #4, located in the NE 1/4, sec. 24, T. 38 S., R. 25 E., S1M, San Juan County, Utah, on Federal oil and gas lease U-42067. Application was approved October 19, 1979, and access road and well pad had been constructed.

Approval of Application for Permit to Drill is rescinded this date and returned herewith. Access road and well pad will have to be restored to the satisfaction of the Bureau of Land Management. Please file four copies Sundry Notice, form 9-331, reporting completion of restoration.

If at some later date you decide to drill at this location, it will be necessary to file a new application.

Sincerely yours

James F. Sims

James F. Sims
Acting District Engineer

Enclosures

cc: Utah Div. of Oil, Gas, and Mining
Salt Lake City, Utah 84116