

**FILE NOTATIONS**

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

**COMPLETION DATA:**

Date Well Completed	.....	Location Inspected	.....
SW..... OS..... PA.....		Land released	.....
		State or Fee Land	.....

**LOGS FILED**

Driller's Log.....

Electric Logs (No.) .....

E..... I..... Dual I Lat..... GR-N..... Micro.....

BHC Sonic GR..... Lat..... MI-L..... Sonic.....

CBLog..... CCLog..... Others.....

# McCulloch Oil and Gas Corporation



July 27, 1979

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

Attn: Mr. Clem B. Fight

Re: McCulloch Oil and Gas Corp.  
Federal 8 Well No. 1  
1000' FSL & 1050' FWL  
Section 8, T38S - R26E  
San Juan County, Utah

Dear Sir:

Please accept this letter as request for a non-standard location for the subject well. This request is necessary because of geological and topographic conditions.

The attached Plat No. 1 shows that the nearest standard location would fall on the cliff to the west of the proposed location. Shown on Plat No. 2 is the seismic line run across Section 8. In order to maintain maximum geological control, it is desirous to drill the proposed well on or at least very near this seismic line.

The ownership of all oil and gas leases within a radius of 660 feet of the proposed location is common with the ownership of the oil and gas leases under the proposed location.

Yours very truly,

*W. R. Lynn*  
W.R. Lynn

WRL/ly  
Attach.

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 NW 63rd St. Suite 250-F

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)  
 At surface ~~1000'~~ FSL & ~~1100'~~ FWL of Section 8, T38S - R26E  
 At proposed ~~1754'~~ zone ~~250'~~  
 Same as above SW SW

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

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  
 160

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  
 5500' *Alan*

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 5073' GR

22. APPROX. DATE WORK WILL START\*  
 October 1, 1979

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	36#	300'	300 sacks
7 7/8"	4 1/2"	10.5#	5500'	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. Lynn *[Signature]* TITLE Dist. Drlg. Engr. DATE 7-25-79

(This space for Federal or State office use)

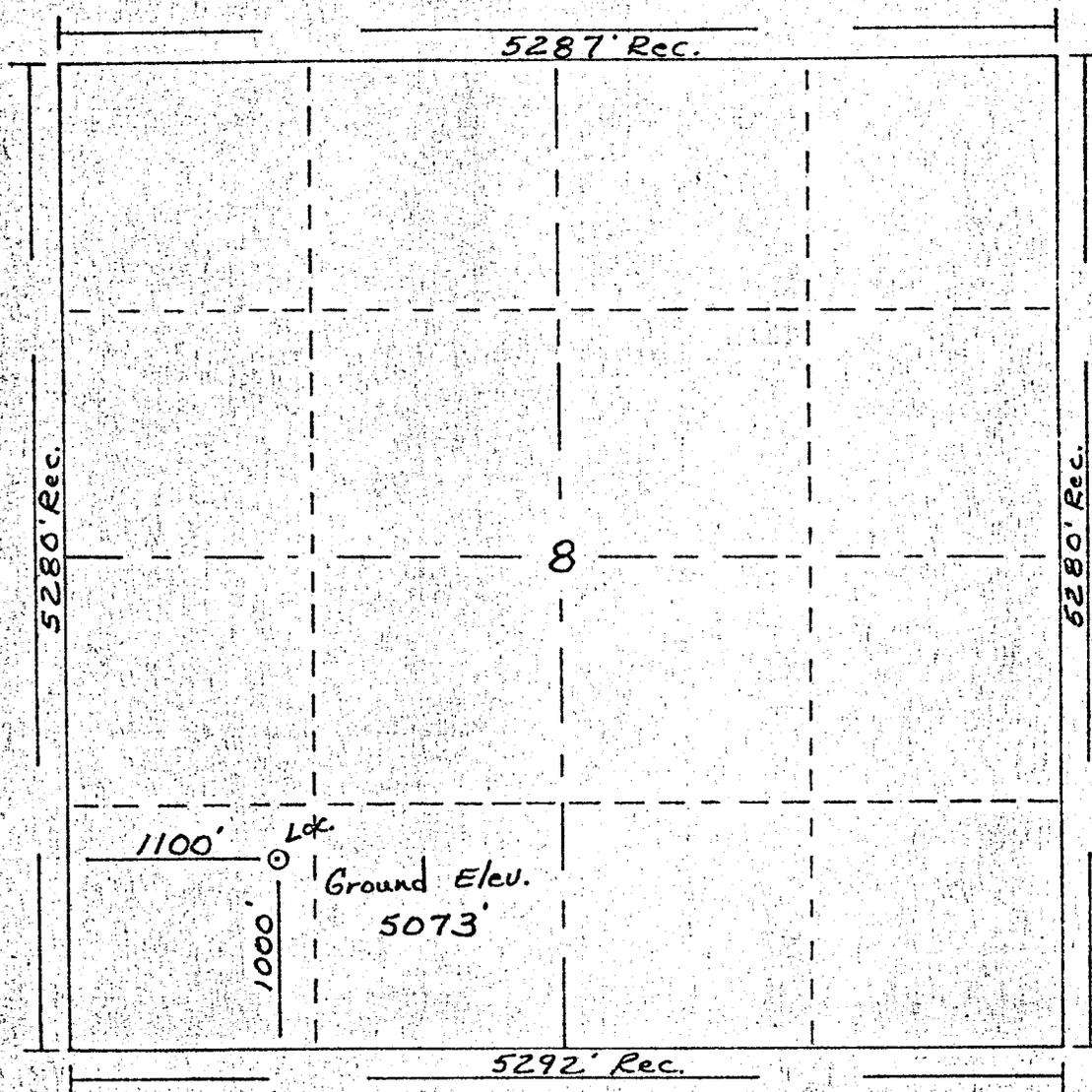
PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:



R. 26 E.



T. 38 S.

Scale... 1" = 1000'

Powers Elevation Company, Inc. of Denver, Colorado  
 has in accordance with a request from Dick Lynn  
 for Mc Culloch Oil + Gas Co.  
 determined the location of #1-8 Federal  
 to be 1000' FSL + 1100' FWL Section 8 Township 38 S.  
 Range 26 E. Salt Lake Meridian  
 San Juan County, Utah

I hereby certify that this plat is an  
 accurate representation of a correct  
 survey showing the location of #1-8 Federal

Date: 7-19-79

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

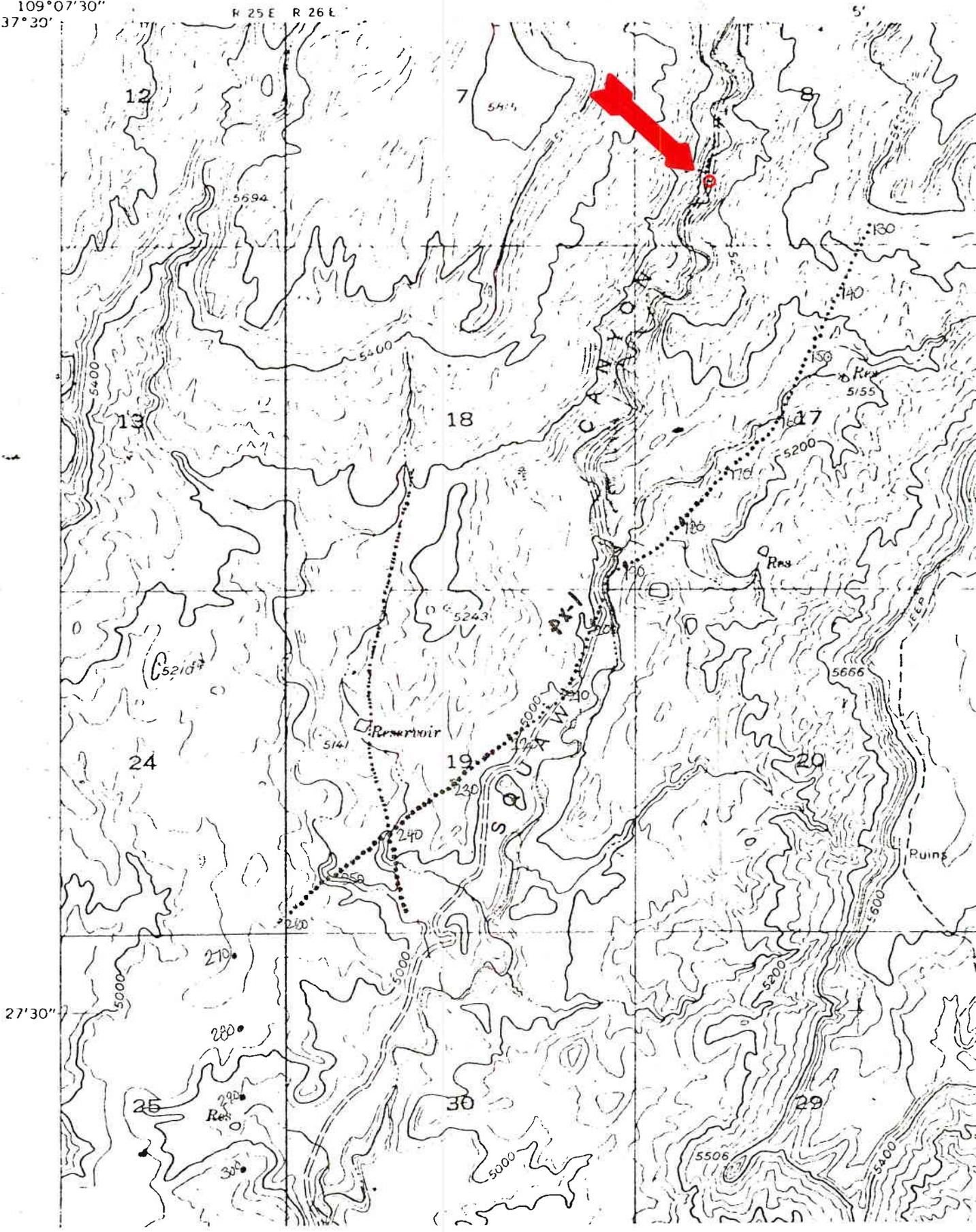
(VERDURE - SW)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

PLAT No. 1

109°07'30"  
37°30'

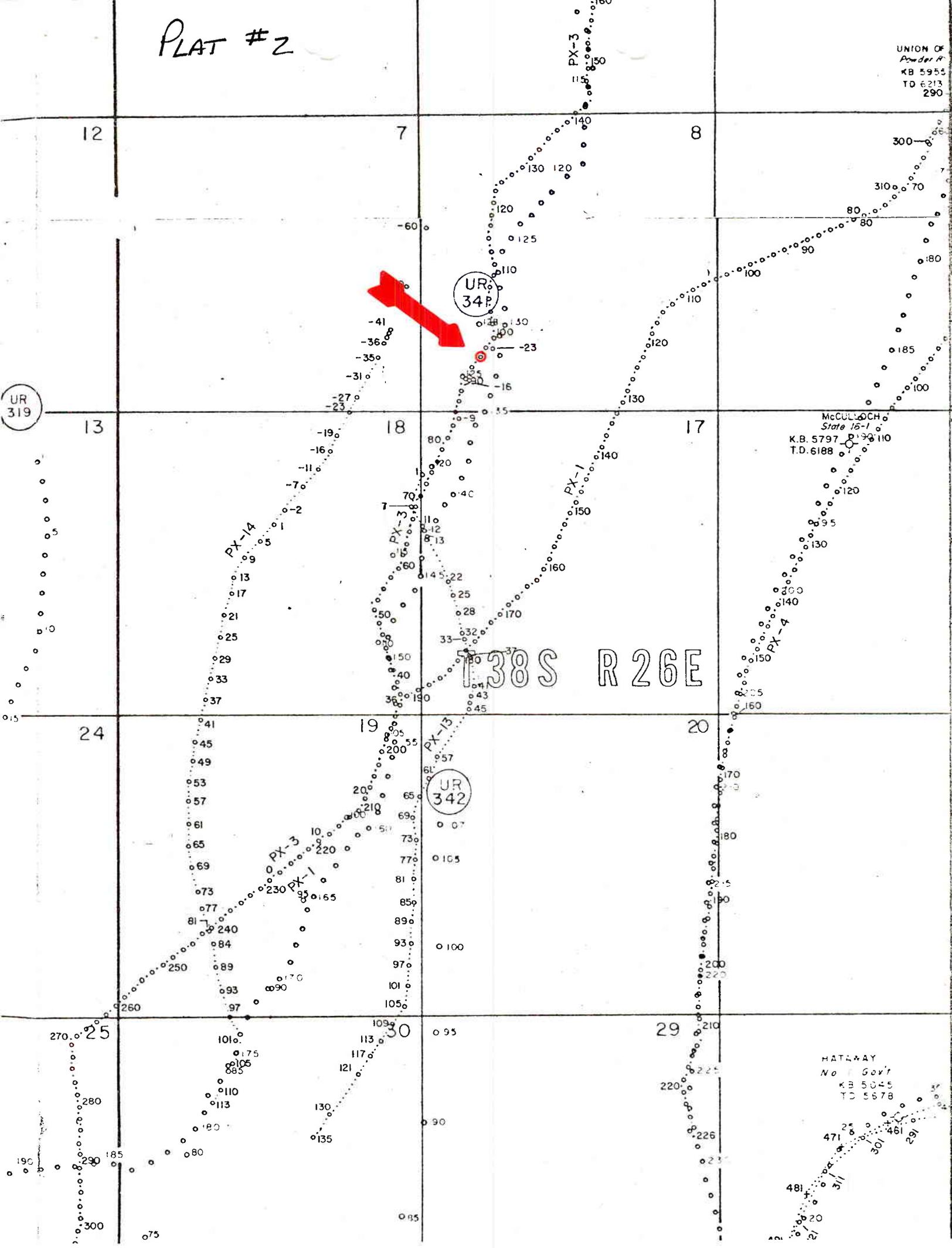
R 25 E R 26 E



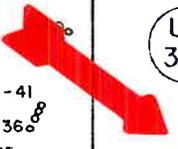
27'30"

PLAT #2

UNION OF  
Powder R  
KB 5955  
TD 6213  
290



UR 34P



UR 319

UR 342

138 S R 26 E

McCULLOCH  
State 15-1  
K.B. 5797  
T.D. 6188

HATWAY  
No Govt  
KB 5045  
TD 5578

McCULLOCH OIL & GAS CORPORATION

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

WELL

Federal 8 No. 1

LOCATION

1000' FSL & 1100' FWL  
Section 8, T38S, R26E  
San Juan County, Utah

Federal Lease Number U 12840

1. Geologic Name of Surface Formation

Morrison Sandstone

2. Estimated Tops of Important Geologic Markers

Jurassic	Curtis	310'
	Entrada	410'
	Carmel	520'
Triassic	Navajo	575'
	Kayenta	820'
	Wingate	930'
	Chinle	1230'
	Shinarump	2030'
Permian	Moenkopi	2090'
	Cutler	2240'
Penn.	U. Hermosa	4040'
	Paradox	4960'
	U. Ismay	5100'
	L. Ismay	5315'
	Desert Creek	5385'
	Akah	5482'
	Total Depth	5500'

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

600'	Water
2050'	Water
5100'	Oil and Gas
5440'	Oil and Gas

4. Proposed Casing and Cementing Program

Surface Casing: 9 5/8", 36 lb/ft, K-55, ST&C new casing to be set at 300' and cemented to surface with 300 sacks of Class "B" cement containing 2% CaCl<sub>2</sub>

Production Casing: 4 1/2", 10.5 lb/ft, K-55, ST&C new casing to be set at 5500' and cemented with 300 sacks 50:50 pozmix cement containing 10% salt and 0.75% CFR-2. If water flows are encountered in the upper formations, a two stage cementing operation will be performed. The first stage will be as outlined above and the second stage will consist of approximately 400 sacks of Lite cement followed by 100 sacks of Class "B" neat cement pumped through a cementing stage tool set 100' below the water flow.

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</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Water Loss</u>
0 - 400'	Gel-lime	8.6 - 9.0	35 - 40	NC
400 - 5000'	Low solids	8.6 - 9.0	28 - 30	NC - 15
5000 - JD	Gel-Chem.	9.0 - 11.0	35 - 45	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 5100' to 5250' will be cored.

Drill Stem Tests: DST 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; however, the precautionary measures listed below will be taken immediately prior to and while drilling the Desert Creek formation.

- a. Test pressure control equipment to 1000 psi.
- b. Raise mud weight to at least 11.0 ppg prior to drilling into the Desert Creek formation.
- c. Check for flow after cutting 5' of a drilling break.
- d. Have on location adequate water, barite, gel, and chemicals to raise mud weight to 12.5 ppg.
- e. Have 24 hour supervision on location.

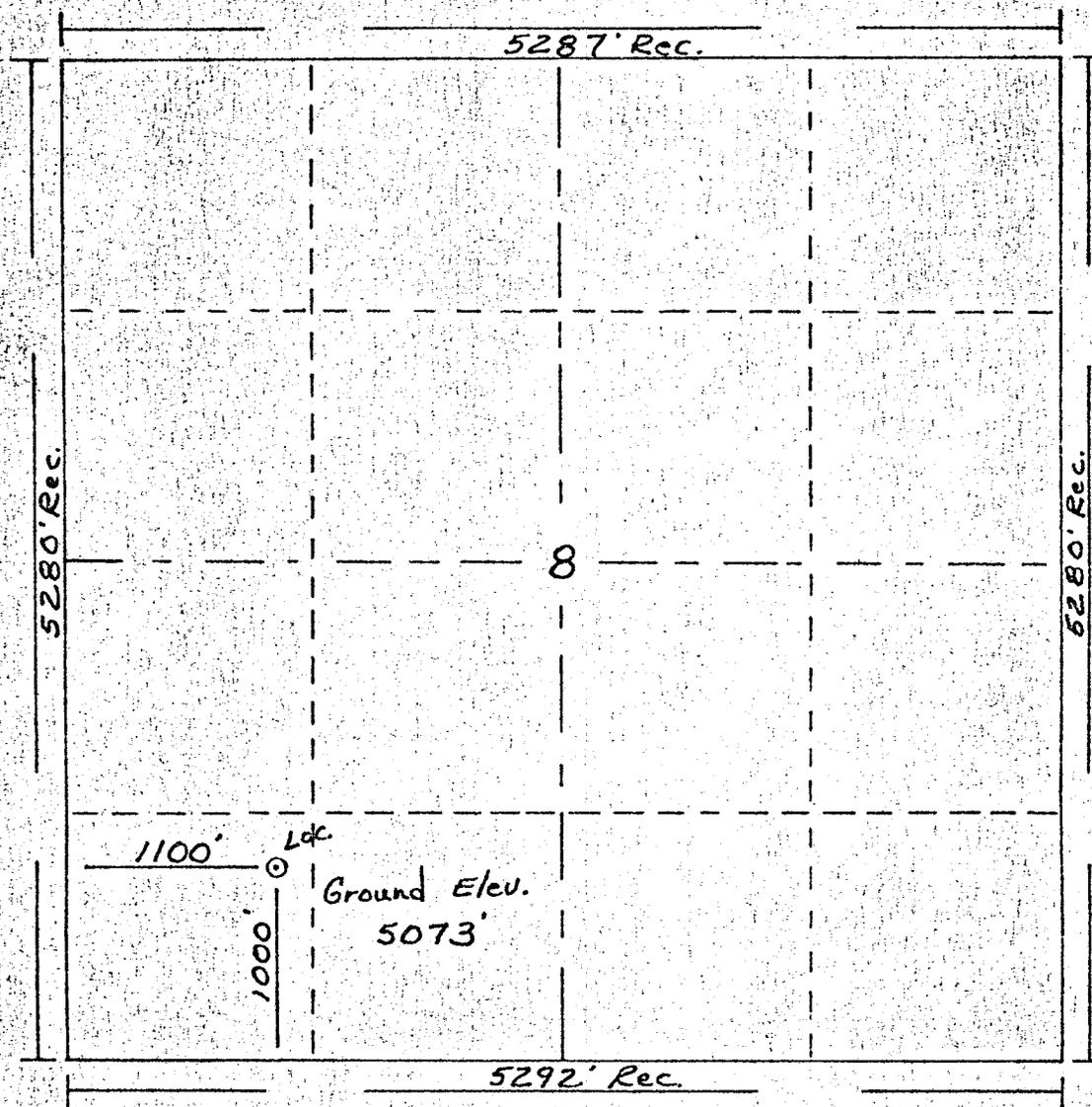
None of the formations to be penetrated are expected to contain any hazardous gasses.

9. Starting Date

The anticipated starting date is October 1, 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.



R. 26 E.



T. 38 S.

Scale... 1" = 1000'

Powers Elevation Company, Inc. of Denver, Colorado  
 has in accordance with a request from Dick Lynn  
 for Mc Culloch Oil + Gas Co.  
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 to be 1000' FSL + 1100' FWL Section 8 Township 38 S.  
 Range 26 E. Salt Lake Meridian  
 San Juan County, Utah

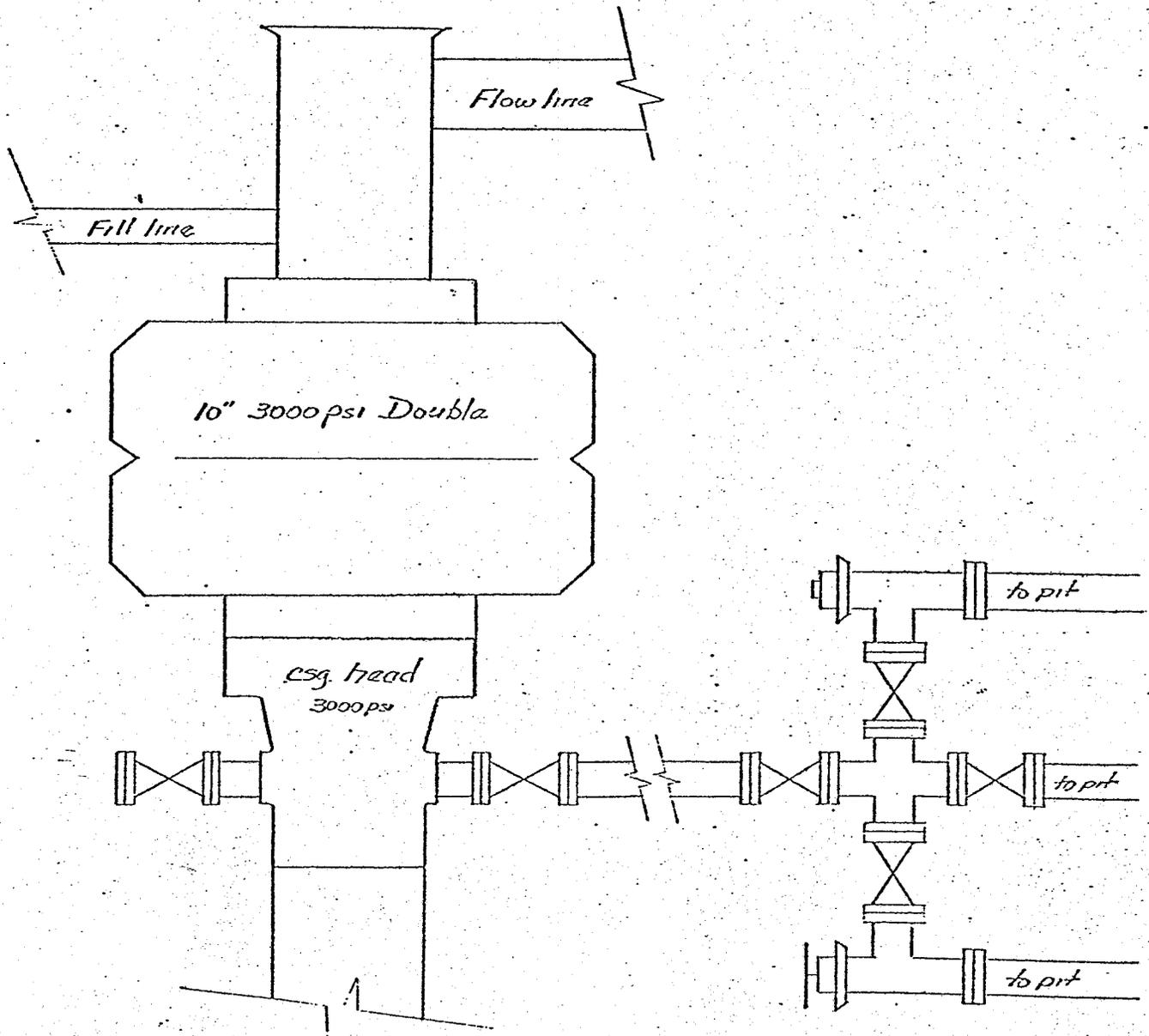
I hereby certify that this plat is an  
 accurate representation of a correct  
 survey, showing the location of #1-8 Federal

Date: 7-19-79

T. Nelson  
 Licensed Land Surveyor No 2711  
 State of Utah

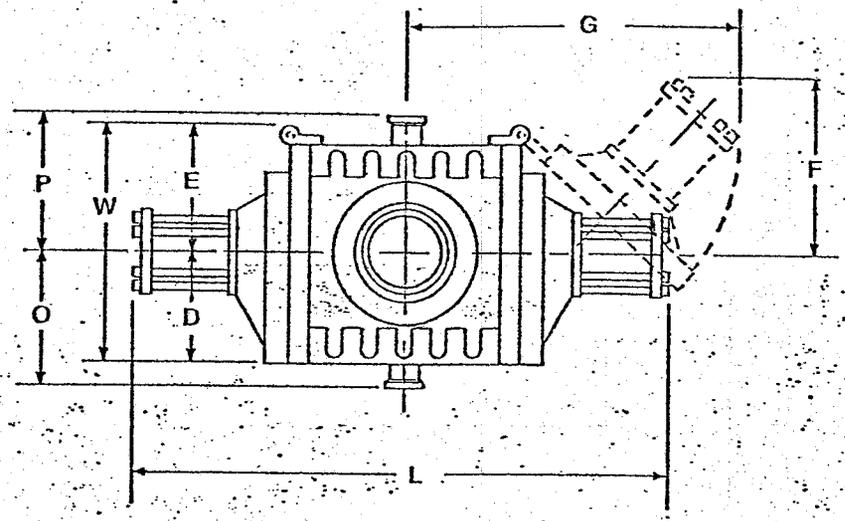
# Schematic of Pressure Control Equipment

McCulloch Oil Corporation  
Federal 8 No. 1  
1000' FSL & 1100' FWL  
Section 8, T28S, R26E  
San Juan County, Utah

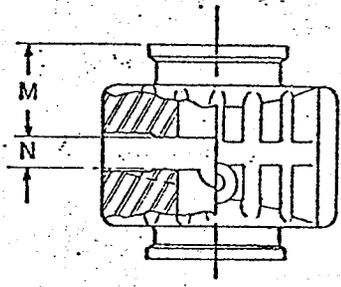
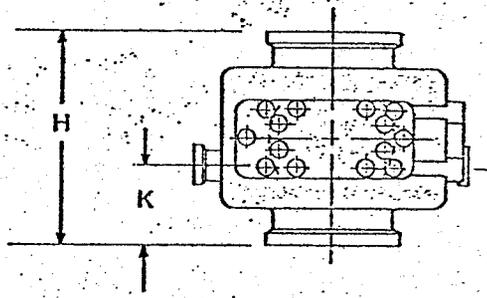




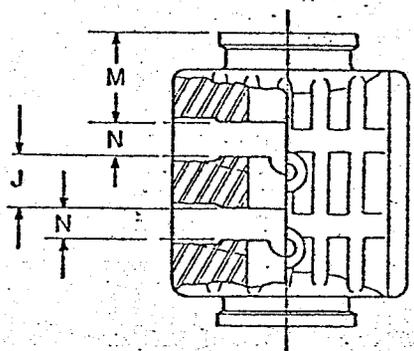
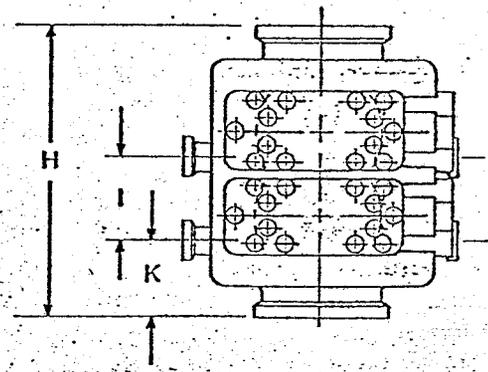
## DIMENSION DRAWINGS



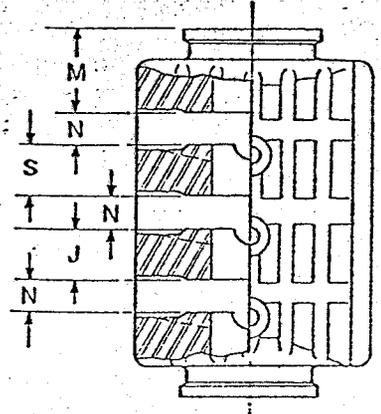
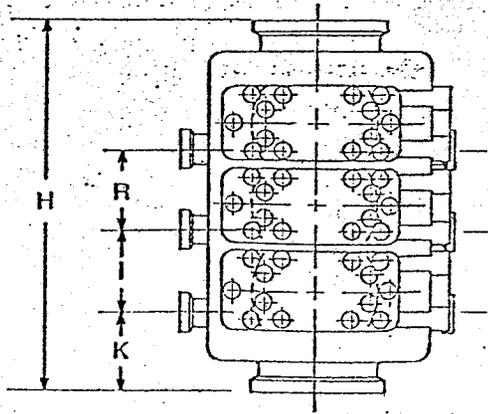
SINGLE



DOUBLE



TRIPLE



McCULLOCH OIL & GAS CORPORATION

Multi-Point Surface Use and Operations Plan

WELL

Federal 8 No. 1

LOCATION

1000' FSL & 1100' FWL  
Section 8, T38S, R26E  
San Juan County, Utah

Federal Lease Number U12840

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 3.25 miles to the location. These are all existing roads and are marked in dark green on the attached map.

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

The new access road will be approximately 1.25 miles long and 20' wide. Terrain requires the road to be constructed in a creek bottom. Drainage will run beside the road, with water bars used where necessary to prevent erosion. Maximum grade will be about 5%. No turnouts or culvert will be required. All surfacing material will be taken from the roadway. 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

All production facilities are to be contained within the proposed location site. McCulloch does not own or control any of the above facilities within one mile of the proposed location.

5. Location and Type of Water Supply

Water for drilling will be trucked from the artesian well in Cross Canyon located in Section 28, T38S - 26E, approximately 6 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, cuttings, 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

This location is in the bottom of Squaw Canyon with a steep hillside to the east and the creek bed to the west. The soil is a sandy loam. Sparse vegetation consists mostly of sage brush, some native grasses, and a few cottonwood trees.

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. The archaeologist's report is forthcoming.

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

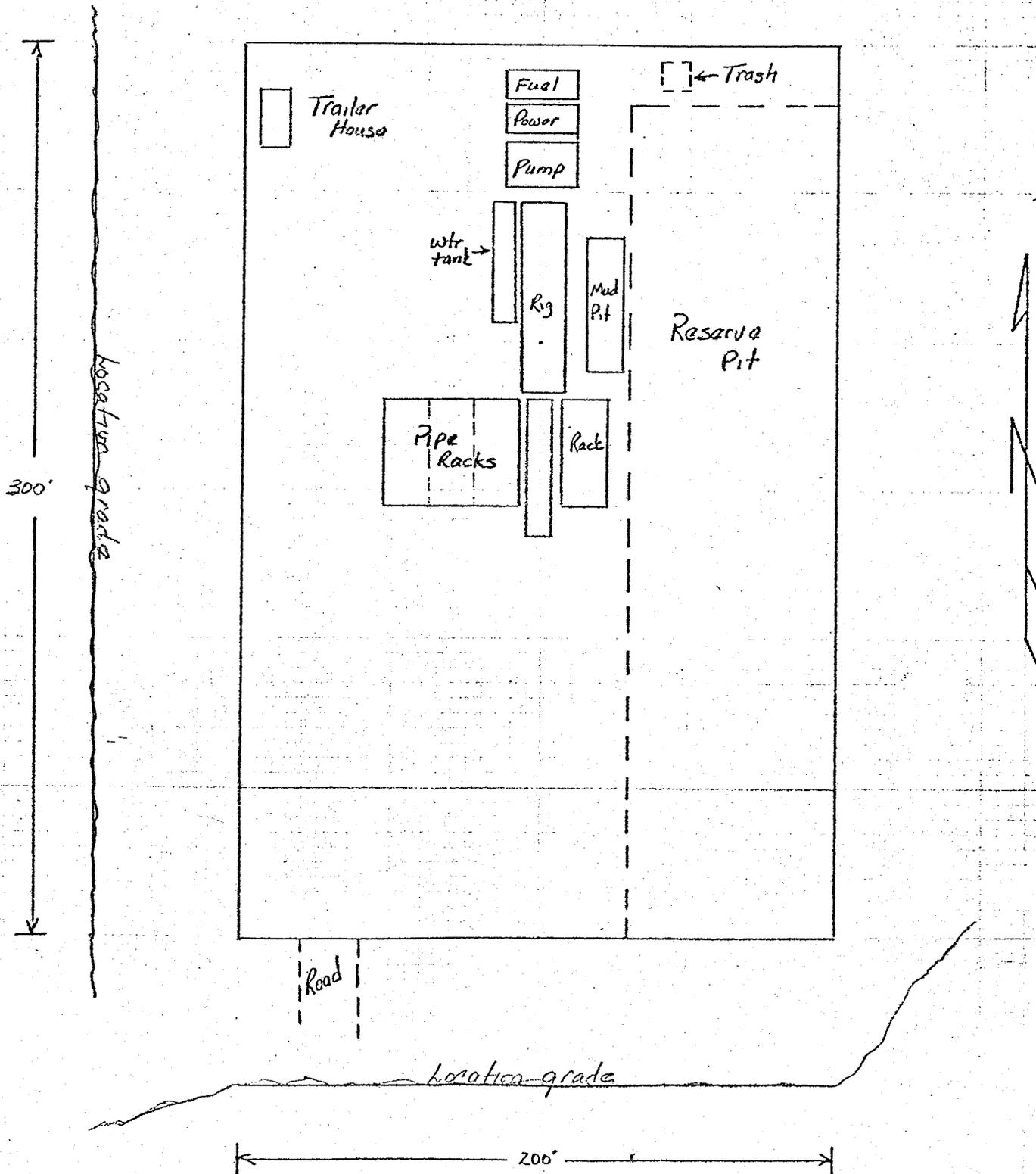
13. I hereby certify that I or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are to the best of my knowledge, true and correct; and, that the work associated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

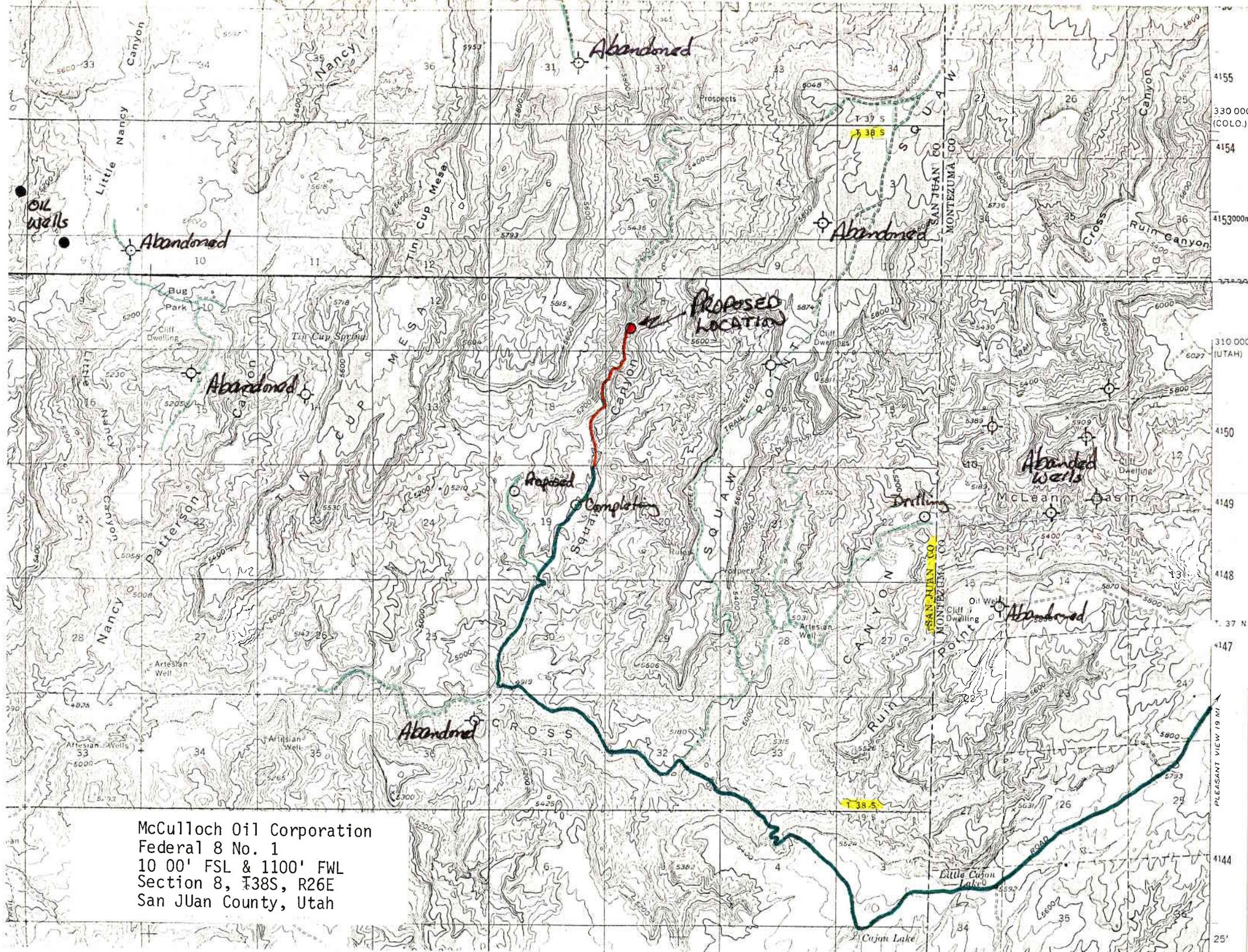
July 25, 1979

  
\_\_\_\_\_  
W.R. Lynn

WELL SITE LAYOUT

McCulloch Oil Corporation  
Federal 8 No. 1  
1000' FSL & 1100' FWL  
Section 8, T38S, R26E  
San Juan County, Utah





McCulloch Oil Corporation  
Federal 8 No. 1  
10 00' FSL & 1100' FWL  
Section 8, T38S, R26E  
San Juan County, Utah

STATE OF UTAH  
DIVISION OF OIL, GAS, AND MINING

\*\* FILE NOTATIONS \*\*

Date: July 30, 1979

Operator: McCulloch Oil & Gas Corp.

Well No: Federal 8-1

Location: Sec. 8 T. 38S R. 26E County: San Juan

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number: 43-037-30495

CHECKED BY:

Administrative Assistant: \_\_\_\_\_

Remarks:

Petroleum Engineer: M.S. Minder 8-1-79

Remarks:

Director: F

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. \_\_\_\_\_

Surface Casing Change   
to \_\_\_\_\_

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

O.K. Rule C-3

O.K. In \_\_\_\_\_ Unit

Other:

Letter Written/Approved



SCOTT M. MATHESON  
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON  
Executive Director,  
NATURAL RESOURCES

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771

CHARLES R. HENDERSON  
Chairman

CLEON B. FEIGHT  
Director

JOHN L. BELL  
C. RAY JUVELIN  
THADIS W. BOX  
CONSTANCE K. LUNDBERG  
EDWARD T. BECK  
E. STEELE McINTYRE

August 1, 1979

McCulloch Oil and Gas Corp.  
3033 NW 63rd Street Suite 250-E  
Oklahoma City, Oklahoma 73116

Re: Federal 8-1  
Sec. 8, T. 38S., R. 26E.,  
Sna Juan County

Dear Sir:

Insofar as this office is concerned, approval to drill the above referred to well on said unorthodox location is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure.

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

MICHAEL T. MINDER - Geological Engineer  
HOME: 876-3001  
OFFICE: 533-5771

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 43-037-30495.

Sincerely,

DIVISION OF OIL, GAS AND MINING

MICHAEL T. MINDER  
GEOLOGICAL ENGINEER

MTM/tlh

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE  
(Other instructions on  
reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.  
U 12840

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
McCulloch Oil & Gas Corp.

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface  
*1600' FSL & 1200' FWL of Section 8, T38S-R26E*  
*NW3W*  
*1131* *250*

5. LEASE DESIGNATION AND SERIAL NO. U 12840

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Federal 8

9. WELL NO.  
1

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 8, T38S-R26E

12. COUNTY OR PARISH  
San Juan

13. STATE  
Utah

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, CR, etc.)  
GL 5084'

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

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

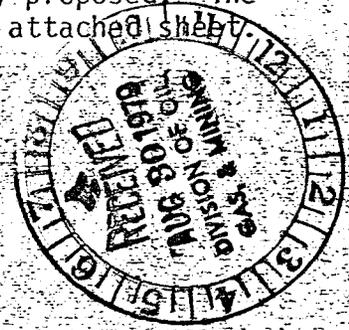
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to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

As requested by the Bureau of Land Management the original location of the proposed well (1000' FSL & 1100' FWL, Section 8, T38S-R26E) has been moved to 1600' FSL and 1200' FWL of Section 8, T38S-R26E. A location plat showing the new location is attached along with a revised well site layout plat.

In addition to the location change, please be advised of McCulloch's intention to change the proposed casing program. Basically we now plan to set 2300' of surface casing instead of 300' as originally proposed. The revised casing program is outlined in more detail on the attached sheet.

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING  
DATE: Sept 16 1979  
BY: [Signature]

*Well  
File  
COPY*



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

SIGNED [Signature] TITLE District Manager DATE 8-27-79  
V.D. Rawdon

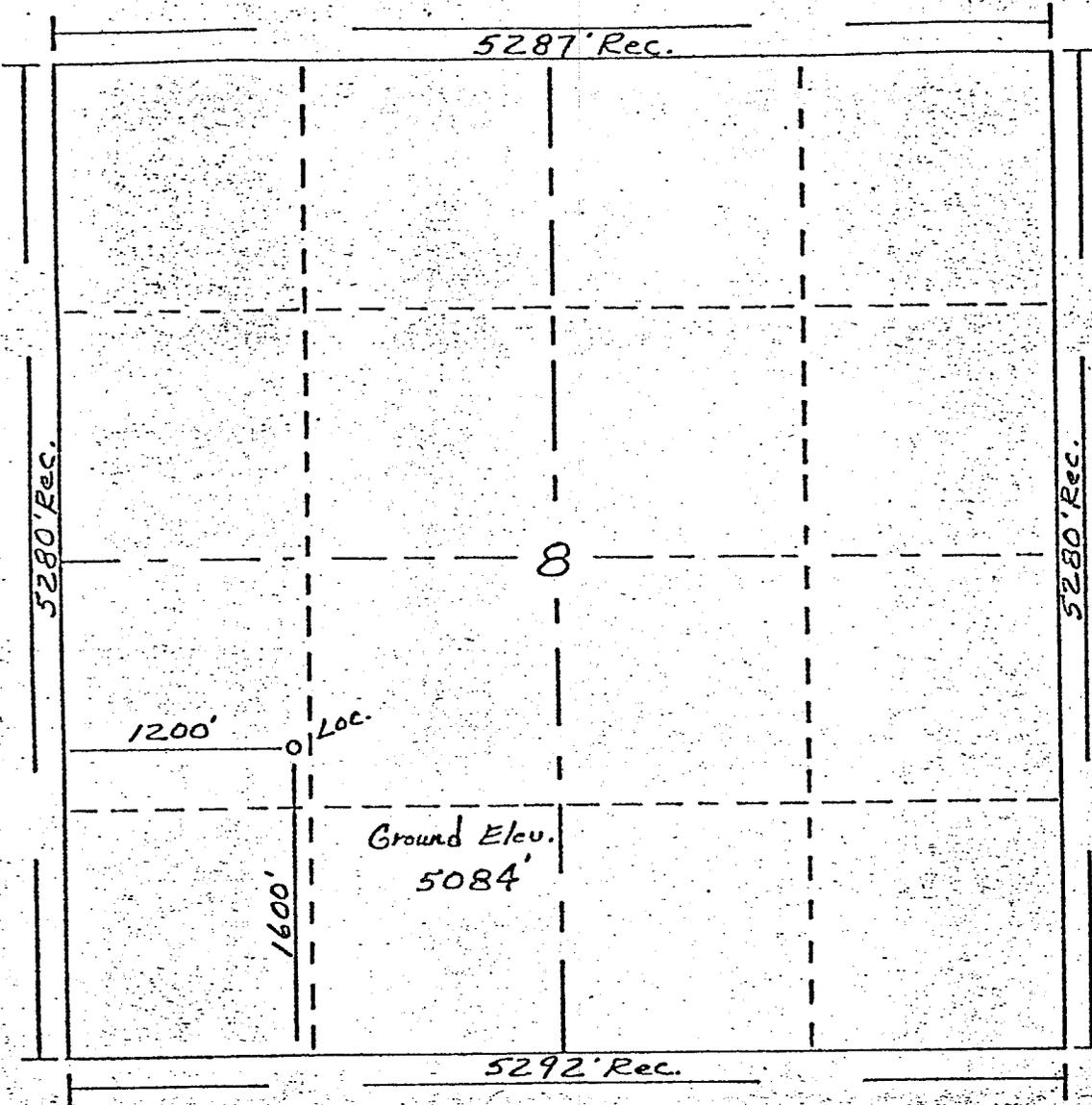
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side



R. 26 E.



T. 38 S.

Scale... 1" = 1000'

Powers Elevation Company, Inc. of Denver, Colorado has in accordance with a request from *Dick Lynn* for *McCulloch Oil & Gas Co.* determined the location of #1-8 Federal to be 1600 FSL & 1200 FWL Section 8 Township 38 S. Range 26 E. Salt Lake Meridian San Juan County, Utah

I hereby certify that this plat is an accurate representation of a correct survey showing the location of #1-8 Federal

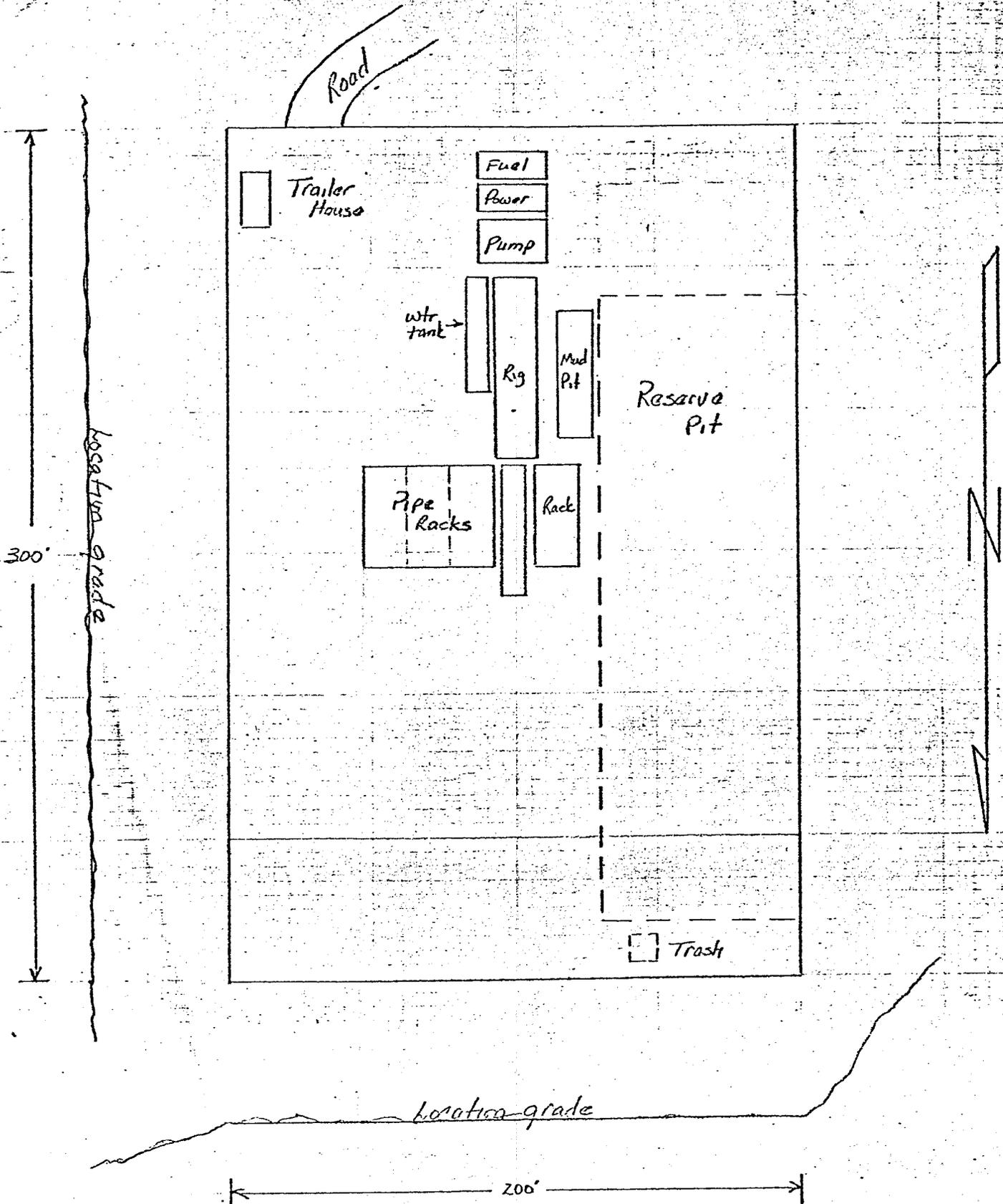
Date: 8-21-79

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

WELL SITE LAYOUT

FEDERAL OIL & GAS LEASE NO. 12840

McCulloch Oil & Gas Corp.  
Federal 8 No. 1  
San Juan County, Utah  
Lease No. U 12840



McCulloch Oil & Gas Corp.  
Federal 8 No. 1  
San Juan County, Utah  
Lease No. U 12840

Revised Casing and Cement 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 sx Class "B" cement containing 2% CaCl<sub>2</sub>.

Surface Casing: 8 5/8", 24.00#, K-55 & S-80, ST&C new casing to be set at 2300' and cemented to surface with 1000 sacks "Light" cement containing 2% CaCl<sub>2</sub> followed by 200 sacks Class "B" cement containing 2% CaCl<sub>2</sub>.

Production Casing: 4 1/2", 10.50#, K-55, ST&C new casing to be set at 5500' and cemented with 300 sacks 50:50 Pozmix cement containing 10% salt, and 0.75% CFR-2.

Revised 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 - 2300'	water	8.4-8.6	28-30	NC
2300-4800'	Gel-Chem.	9.0-10.0	35-45	10-20
4800-TD	Gel-Chem.	9.0-10.0	40-50	6-8



SCOTT M. MATHESON  
Governor

GORDON E. HARMSTON  
*Executive Director,*  
NATURAL RESOURCES

CLEON B. FEIGHT  
*Director*

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON  
*Chairman*

JOHN L. BELL  
C. RAY JUVELIN  
THADIS W. BOX  
CONSTANCE K. LUNDBERG  
EDWARD T. BECK  
E. STEELE McINTYRE

February 5, 1980

McCulloch Oil & Gas Corp.  
3033 N.W. 63rd, Suite # 250-E  
Okla. City, Okla. 73116

RE: Well No. Federal #8-1  
Sec. 8, T. 38S, R. 26E,  
Sab Juan County, Utah

Gentlemen:

In reference to above mentioned well(s), considerable time has gone by since approval was obtained from this office.

This office has not recieved any notification of spudding. If you do not intend to drill this well (these wells), please notify this Division. If spudding or any other activity has taken place, please send necessary forms.\* If we do not hear from your company within fifteen (15) days, we will assume you do not intend to drill this well, and action will be taken to terminate the application. If you plan on drilling this well at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

DEBBIE BEAUREGARD  
CLERK-TYPIST

**McCulloch Oil and Gas Corporation**



February 13, 1980

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

Attn: Debbie Beauregard

Re: Federal 8 Well No. 1  
Section 8, T38S-R26E  
San Juan County, Utah

Gentlemen:

In reply to your letter dated February 5, 1980, concerning the referenced well, please be advised that McCulloch plans to drill this well during April or May of this year. We will notify your office when the well is spudded.

Yours very truly,

W.R. Lynn

WRL/dj

**RECEIVED**

FEB 19 1980

DIVISION OF  
OIL, GAS & MINING

*Well file copy*

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; Suite 250-E, Okla. City, OK

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1121' FSL & 1250' FWL, Sec 8, T38S-  
AT TOP PROD. INTERVAL: R26E  
AT TOTAL DEPTH:

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

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF
- FRACTURE TREAT
- SHOOT OR ACIDIZE
- REPAIR WELL
- PULL OR ALTER CASING
- MULTIPLE COMPLETE
- CHANGE ZONES
- ABANDON\*

SUBSEQUENT REPORT OF:

- 
- 
- 
- 
- 
- 
- 
- 

(other) Change location and casing program BY: *W. J. Minder*

*WELL FILE COPY*

5. LEASE	U 12840
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME	Federal 8
9. WELL NO.	1
10. FIELD OR WILDCAT NAME	Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	Section 8, T38S-R26E
12. COUNTY OR PARISH	San Juan
13. STATE	Utah
14. API NO.	
15. ELEVATIONS (SHOW DF, KDB, AND WD)	GL 5083'

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING (in case of multiple completion or zone change on Form 9-330.)

DATE: 3/31/80  
*W. J. Minder*

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.)\*

In order to gain optimum geologic advantage, it is necessary to move the location of the proposed well from 1600' FSL & 1200' FWL of the section to the location shown above. The proposed location will be above the level that has been inundated by past flash floods.

A location plat showing the new location is attached.

In addition to the location change, please be advised of McCulloch's intention to change the proposed casing program. We now plan to set 1250' of surface casing. The revised casing program is outlined in more detail on the attached sheet.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED *J.D. Rawdon* TITLE District Manager DATE March 17, 1980

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

**RECEIVED**

MAR 24 1980

DIVISION OF  
OIL, GAS & MINING

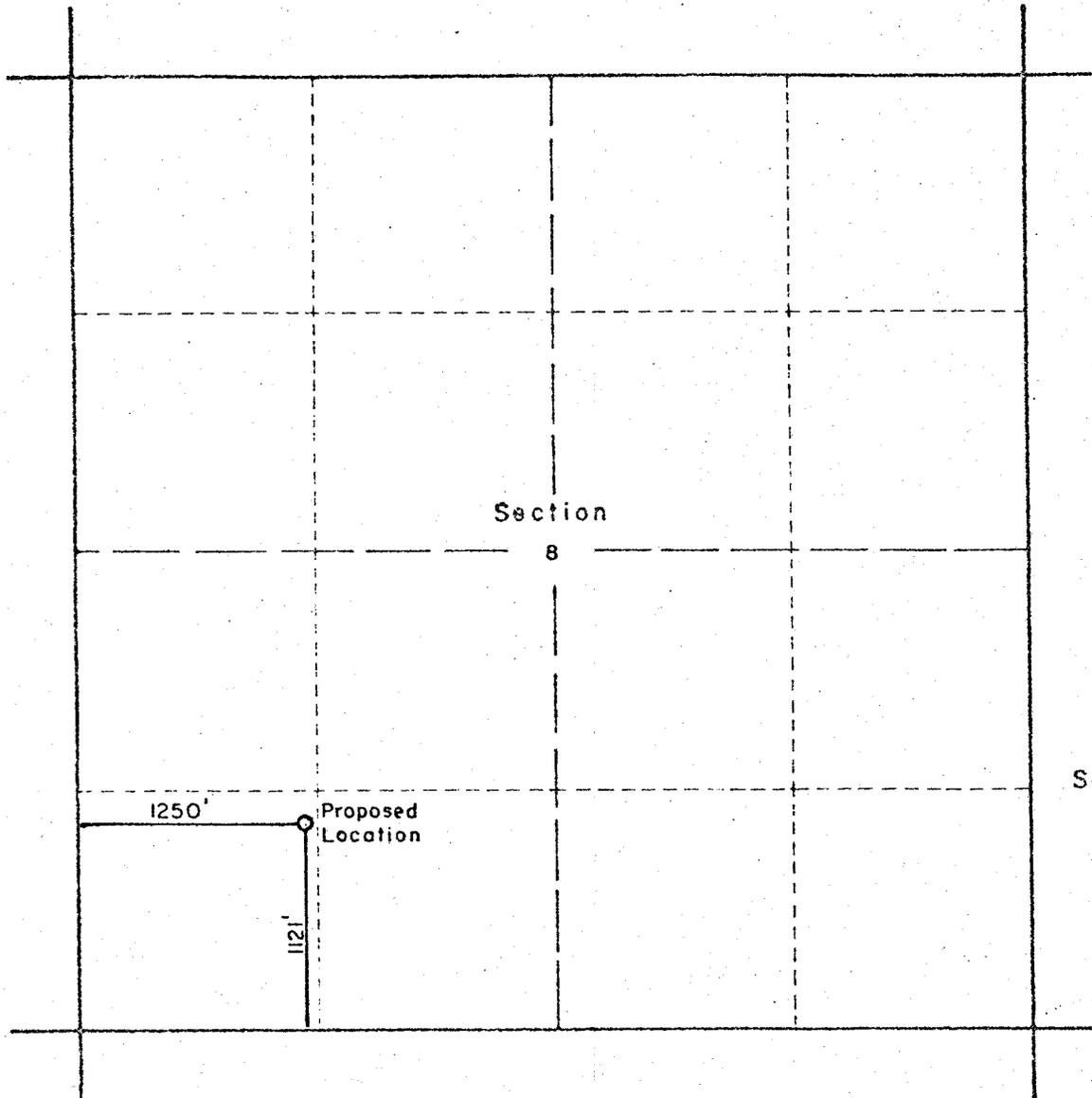
*No other well in section*

McCulloch Oil & Gas Corp.  
Federal 8 No. 1  
San Juan County, Utah  
Lease No. U 12840

Revised Casing and Cement Program

Surface Casing: 8 5/8", 24.00#, K-55 & S-80, ST&C new casing to be set at 1250' and cemented to surface with 450 sacks "Light" cement containing 2% CaCl<sub>2</sub> followed by 200 sacks Class "B" cement containing 2% CaCl<sub>2</sub>.

Production Casing: 4 1/2", 10.50#, K-55, ST&C new casing to be set at 5500' and cemented with 300 sacks 50:50 Pozmix cement containing 10% salt, and 0.75% CFR-2.



**WELL LOCATION: McCULLOCH OIL & GAS FEDERAL NO. 1-8**

Located 1121 feet North of the South line and 1250 feet East of the West line of Section 8  
 Township 38 South Range 26 East Salt Lake Base & Meridian  
 San Juan County, Utah  
 Existing ground elevation determined at 5083 feet based on adjoining location.

I hereby certify the above plat represents a survey made under my supervision and that it is accurate to the best of my knowledge and belief.

*Frederick H. Reed*

FREDERICK H. REED  
 Registered Land Surveyor



McCULLOCH OIL & GAS CORP. Oklahoma City, Oklahoma	
WELL LOCATION PLAT Federal No. 1-8 Sec. 8, T38S, R26E, SLM San Juan Co., Utah	
CLARK - REED & ASSOC. Durango, Colorado	DATE: MARCH 17, 1980 FILE NO: 80011

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: McCulloch Oil and Gas Corp

WELL NAME: Federal #8-1

SECTION 8 NW SW TOWNSHIP 38S RANGE 26E COUNTY San Juan

DRILLING CONTRACTOR Brinkerhoff signal

RIG # 61

SPUDDED: DATE 4/6/80

TIME 6:00 p.m.

HOW rotary

DRILLING WILL COMMENCE presently

REPORTED BY Dick Lynn

TELEPHONE # 405-840-3285

DATE April 8, 1980

SIGNED Original Signed By M. T. Minder

cc: USGS

DIVISION OF OIL, GAS AND MINING

PLUGGING PROGRAM

NAME OF COMPANY: McCulloch Oil and Gas (J.D. Rawdon 405-840-3285)

WELL NAME: Federal #8-1

SECTION 8 SW SW TOWNSHIP 38S RANGE 26E COUNTY San Juan

VERBAL APPROVAL GIVEN TO PLUG AND ABOVE REFERRED TO WELL IN THE FOLLOWING MANNER:

TOTAL DEPTH: 5502'

CASING PROGRAM:

- 13 3/8" @ 80'
- 8 5/8" @ 1262'

FORMATION TOPS:

- Navajo 575'
- Chinle 1230'
- Shinarump 2030'
- Cutler 2130'
- Hermosa 4000'
- U. Ismay 5160'
- Desert Crk 5464'

PLUGS SET AS FOLLOWS:

- #1 5502' - 5400'
- #2 5230' - 5130'
- #3 4050' - 3950'
- #4 3200' - 3100'
- #5 2180' - 2080'
- #6 1312' - 1212'
- #7 50' - surface

12#, 45 vis mud between plugs, clean and restore site, erect regulation dryhole marker

DATE May 14, 1980

SIGNED \_\_\_\_\_

Original Signed By M. T. Minder

cc: USGS

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U 12840

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL  GAS WELL  OTHER  Dry Hole

2. NAME OF OPERATOR  
McCulloch Oil & Gas Corporation

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface 1121' FSL & 1250' FWL of section

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Federal Well 8

9. WELL NO.  
1

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 8, T38S-R26E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, CR, etc.)  
GL 5083'

12. COUNTY OR PARISH

13. STATE

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

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

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

The following procedure is to be used for the plug and abandonment of the subject well:

1. Load hole with 12 ppg 45 viscosity mud.
2. Set cement plugs as follows:
  - a. 5502 to 5400' (Desert Creek - 5464').
  - b. 5230 to 5130' (Upper Ismay -5160').
  - c. 4050 to 3950' (Upper Hermosa - 4000').
  - d. 3200 to 3100' (Spacer)
  - e. 2180 to 2080' (Cutler - 2130').
  - f. 1312 to 1212' (Surface casing set at 1262').
  - g. 50' to surface.
3. Weld on steel plate and install dry hole marker.
4. Clean and restore location.

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING

DATE: 5-20-80

BY: J.D. Rawdon

RECEIVED

MAY 19 1980

DIVISION OF  
OIL, GAS & MINING

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

SIGNED

J.D. Rawdon  
J.D. Rawdon

TITLE

District Manager

DATE

5/14/80

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

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

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R355.5.

13

**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  
McCulloch Oil & Gas Corporation

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 1121' FSL & 1250' FWL of section 8, SW SW  
At top prod. interval reported below  
At total depth

14. PERMIT NO. 43-037-30495 DATE ISSUED \_\_\_\_\_

5. LEASE DESIGNATION AND SERIAL NO.  
U 12840

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Federal 8

9. WELL NO.  
1

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
Sec. 8, T38S-R26E

12. COUNTY OR PARISH  
San Juan 13. STATE  
Utah

15. DATE SPUNDED 4-7-80 16. DATE T.D. REACHED 5-10-80 17. DATE COMPL. (Ready to prod.) NA P&A-5-12-80 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* GL 5083' 19. ELEV. CASINGHEAD NA

20. TOTAL DEPTH, MD & TVD 5502' 21. PLUG, BACK T.D., MD & TVD NA 22. IF MULTIPLE COMPL., HOW MANY\* NA 23. INTERVALS DRILLED BY ROTARY TOOLS 0-5502' CABLE TOOLS \_\_\_\_\_

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
NA 25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN  
Comp Neu-Frm Den, Dual Ind, BHC 27. WAS WELL CORED  
Yes

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
<u>8 5/8"</u>	<u>24</u>	<u>1261'</u>	<u>12 1/4"</u>	<u>Cmt'd w/450 sx Light cmt 2% CaCl<sub>2</sub>, tailed in w/200 sx Cl 'B' 2% CaCl<sub>2</sub>. Cmt Circ.</u>	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
<u>NA</u>				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
<u>NA</u>		

31. PERFORATION RECORD (Interval, size and number)

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
<u>NA</u>	

33.\* PRODUCTION

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

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

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	API 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 J.D. Rawdon TITLE District Manager DATE 5/14/80

**RECEIVED 50**  
**MAY 19 1980**  
DIVISION OF OIL, GAS & MINING

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



May 23, 1980

McCulloch Oil & Gas Corp.  
3033 N.W. 63rd. St.  
Suite 250-E  
Oklahoma City, Oklahoma 73116

Re: Well No. Federal 8-1  
Sec. 8, T. 38S, R. 26E.  
San Juan County, Utah

Gentlemen:

Accordinggto our records, a "Well Completion Report" filed with this office 5-14-80, from above referred to well, indicates the following electric logs were run: COMP NEU-FRM DEN, DUAL IND, BHC. As of todays date this office has not received these logs.

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

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS, & MINING



JANICE TABISH  
CLERK-TYPIST

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

6. LEASE DESIGNATION AND SERIAL NO.

U 12840

8. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal 8

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 8, T38S-R26E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

1. OIL WELL  GAS WELL  OTHER  Dry Hole

2. NAME OF OPERATOR  
McCulloch Oil & Gas Corporation

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface 1121' FSL & 1250' FWL of section

14. PERMIT NO.

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

GL 5083'

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

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

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

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

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

The following procedure was used to plug the subject well on May 12, 1980.

1. Loaded hole with 12 ppg 45 viscosity mud.
2. Pumped the following cement plugs thru drill pipe:
  - a. Plug #1 - 40 sks regular neat from 5502 to 5400'
  - b. Plug #2 - 40 sks regular neat from 5230 to 5130'
  - c. Plug #3 - 40 sks regular neat from 4050 to 3950'.
  - d. Plug #4 - 40 sks regular neat from 3200 to 3100'.
  - e. Plug #5 - 40 sks regular neat from 2180 to 2080'.
  - f. Plug #6 - 40 sks regular neat from 1312 to 1212'.
  - g. Plug #7 - 15 sks regular neat from 50' to surface.
3. Welded on steel plate with dry hole marker.
4. Preparing to move in equipment to clean and restore location.

RECEIVED  
DEC 15 1981

DIVISION OF  
OIL & GAS

No list  
H5 5-80  
IWR 5-80  
map ✓

RECEIVED  
MAY 16 1980

U.S. GEOLOGICAL SURVEY

CARLSBAD, CALIF.

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

SIGNED J.D. Rawdon  
J.D. Rawdon

TITLE District Manager

DATE 5/14/80

(This space for Federal or State office use)

APPROVED BY E.W. Guynn  
CONDITIONS OF APPROVAL, IF ANY:

Fed E. W. Guynn  
TITLE District Oil & Gas Supervisor

DATE DEC 11 1981

UTAH STATE OIL & GAS