

UTAH DIVISION OF OIL AND GAS CONSERVATION

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

9-7-78- Location Abandoned; well never drilled

DATE FILED 5-16-78

LAND: FEE & PATENTED _____ STATE LEASE NO. _____ PUBLIC LEASE NO. U-12840 _____ INDIAN _____

DRILLING APPROVED: 5-31-78

SPUDED IN: _____

COMPLETED: _____ PUT TO PRODUCING: _____

INITIAL PRODUCTION: _____

GRAVITY A.P.I. _____

GOR: _____

PRODUCING ZONES: _____

TOTAL DEPTH: _____

WELL ELEVATION: _____

DATE ABANDONED: 9-7-78- Location Abandoned

FIELD: Wildcat 3/86

UNIT: _____

COUNTY: San Juan

WELL NO. Federal 8-1

APT. NO: 43-037-30438

LOCATION 430' FT. FROM ~~KN~~ (S) LINE, 820' FT. FROM ~~XB~~ (W) LINE. SW SW 1/4-1/4 SEC. 8

13

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR:

FILE NOTATIONS

Entered in NID File ✓
Location Map Pinned ✓
Card Indexed ✓

Checked by Chief
Approval Letter
Disapproval Letter

COMPLETION DATA:

Date Well Completed
OW..... WW..... TA.....
GW..... OS..... PA.....

Location Inspected .
Bond 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...
CELLog..... CCLog..... Others.....

JCR
4-16-91

3E CO file

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL [X] DEEPEN [] PLUG BACK []

b. TYPE OF WELL OIL WELL [X] GAS WELL [] OTHER [] SINGLE ZONE [] MULTIPLE ZONE [X]

2. NAME OF OPERATOR McCulloch Oil Corporation

3. ADDRESS OF OPERATOR Jamestown Office Park, 3033 NW 63rd, Suite 250, Oklahoma City, Ok 73115

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 430' FSL & 820' FWL At proposed prod. zone SAME SW SW

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

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 Ismay Wildcat, Desert Creek
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 8, T38S, R26E
12. COUNTY OR PARISH San Juan
13. STATE Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. 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 6200 20. ROTARY OR CABLE TOOLS ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5070 G.L. 22. APPROX. DATE WORK WILL START* May 15, 1978

Table with 5 columns: SIZE OF HOLE, SIZE OF CASING, WEIGHT PER FOOT, SETTING DEPTH, QUANTITY OF CEMENT. Rows show hole sizes 12 1/4 and 7 7/8 with corresponding casing and cement requirements.

(See attachments)



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 John Alexander TITLE AGENT DATE 4-18-78

PERMIT NO. 43-037-30A38 APPROVAL DATE

APPROVED BY CONDITIONS OF APPROVAL, IF ANY: TITLE DATE

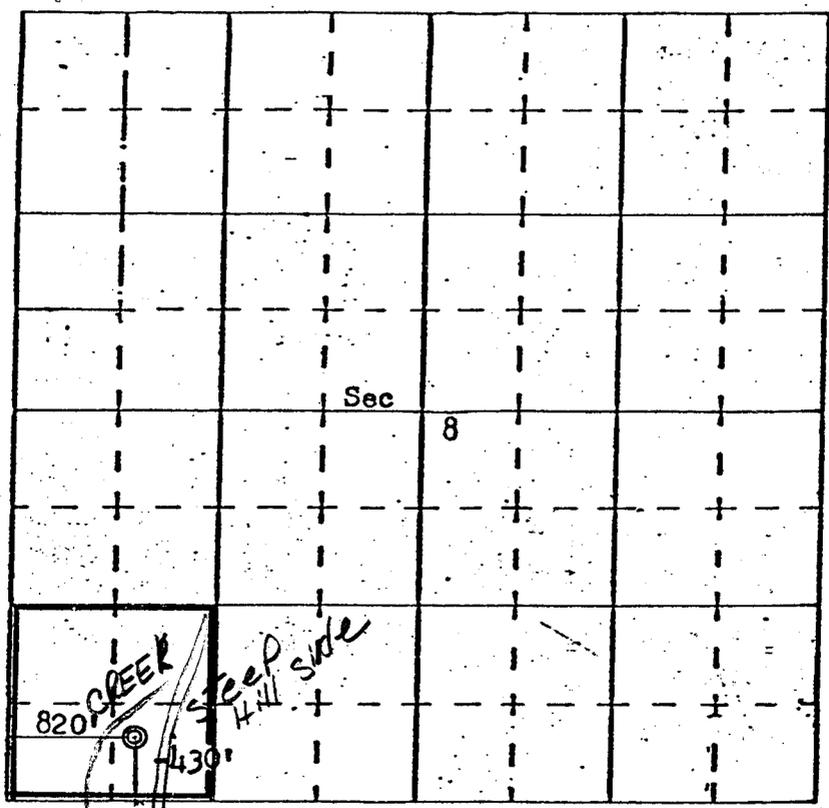
COMPANY McCULLOCH OIL CORPORATION

LEASE Federal 8 WELL NO. 1

SEC. 8, T. 38S, R. 26E
San Juan County, Utah

LOCATION 430' FSL 820' FWL

ELEVATION 5070 ungraded ground



SCALE—4 INCHES EQUALS 1 MILE

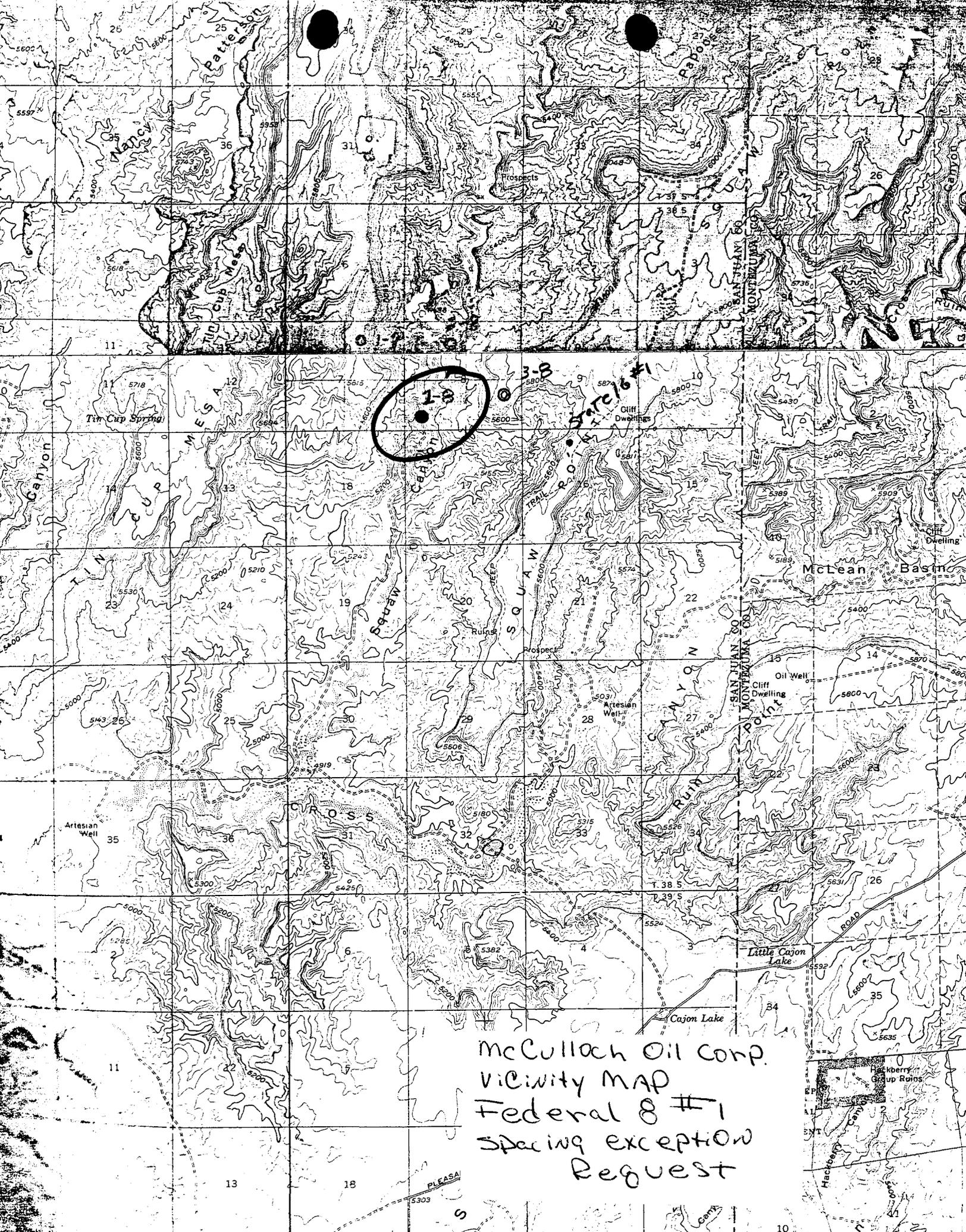
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Fred B. Kerr Jr.
Fred B. Kerr Jr.

SEAL: Registered Land Surveyor

#3950

SURVEYED March 28 19 78

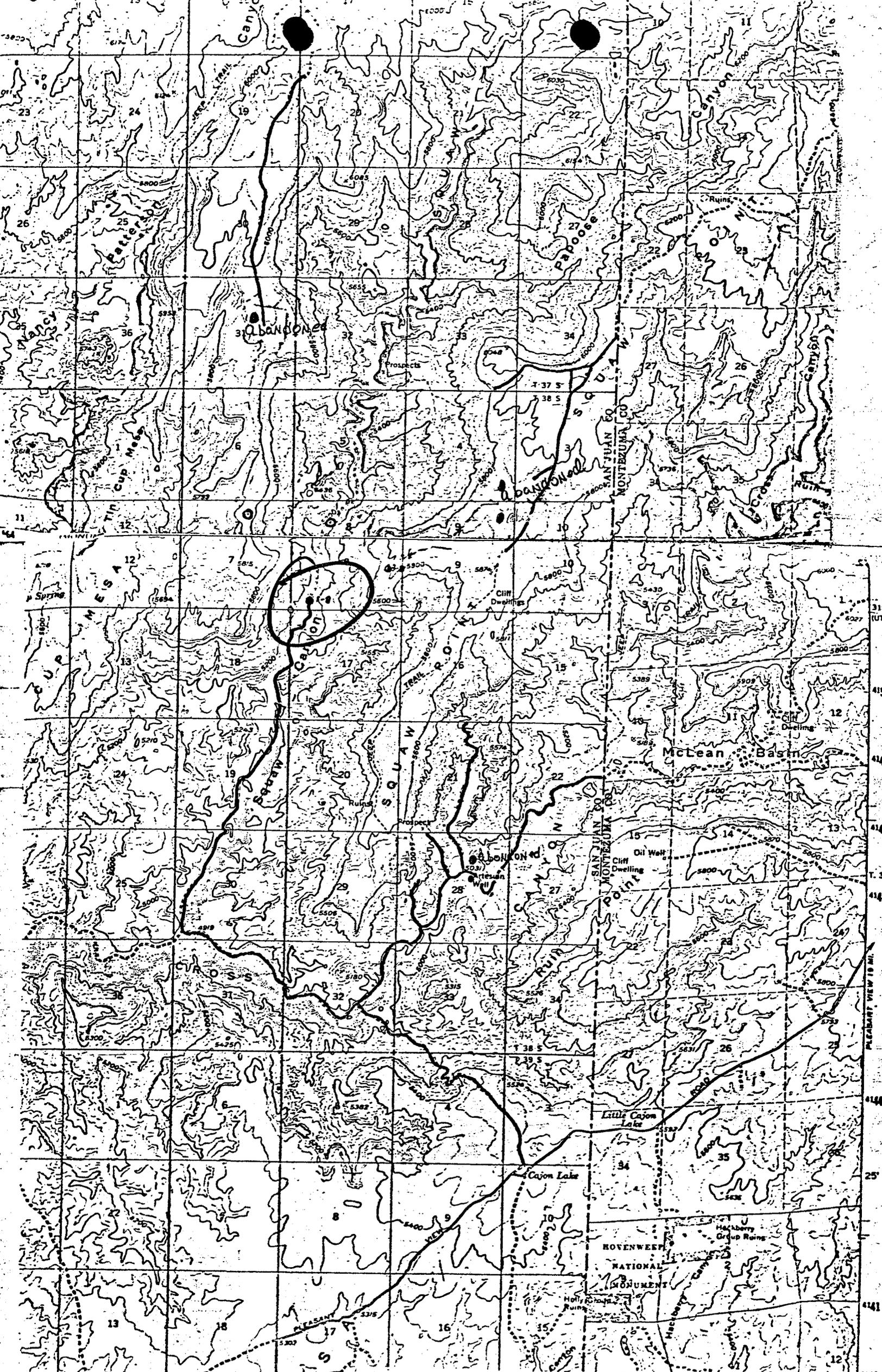


1-B

3-B
5-16 #1

McCulloch Oil Corp.
vicinity MAP
Federal 8 #1
spacing exception
Request

Hackberry Group Ruins



Vicinity Map for
 McCULLOCH OIL CORPORATION #1 Federal 8
 43077SL 82077WL Sec 8-T38S-R25E
 San Juan County, Utah

Square Tower
 Group Ruins

McCulloch Oil Corporation
Formation Information and Drilling Procedures

WELL:

Federal 8 No. 1

LOCATION:

430' FSL & 820' FWL
Sec. 8, T38S, R26E
San Juan County, Utah

FEDERAL LEASE NUMBER:

U-12840

1) Geologic name of surface formation.

Morrison Sand Stone

2) Estimated tops of important geologic markers.

Entrata 150'

Navajo 318'

Wingate 672'

Chinle 950'

Shinarump 1830'

Monenkopi 1950'

Paradox 4715'

Upper Ismay 4875'

Desert Creek 5137'

Total Depth 5260'

3) Estimated depths at which anticipated water, oil, gas or other mineral-bearing formations are expected.

318' water

4875' oil & gas

5137' oil & gas

4) Casing program.

Surface casing: 9 5/8", J-55, 36 lb/ft, new, to be set at 400' using 225 sacks Class "B" with 2% CaCl₂.

Production casing: 5 1/2", J-55, 15.5 lb/ft, new, to be set at 5260'. Cementing to be in two stages: 1st stage, 250 sk. Halliburton Light followed by 150 sk. Class "B" & 0.5% HR-7; 2nd stage, 300 sk. Halliburton Light.

5) Specifications for pressure control equipment.

The attached schematic drawing shows the type of blowout preventor to be used while drilling. The unit will be tested to 800 psi prior to drilling from under surface, by pressuring through casing valves with blind rams Closed. This procedure will be repeated with the pipe rams

5) closed on a joint of drill pipe. Operation of the hydraulic system will be checked daily.

6) Drilling fluids.

Depth	Type	Viscosity	Weight	Fluid loss
0-400'	Gel-Lime	35-40	8.6-9.0	N/C
400'-4800'	Low Solids	29-33	8.5-8.9	15ML
4800-5260'	Gel Chemical	35-45	9.0-9.5	8ML

7) Auxiliary equipment.

a. bit float

b. full opening valve to be stabbed into drill pipe when kelly is not in the string

8) Logging - Coring - Testing Program.

Logging: Dual Induction Lateral Log, Borehole Compensated Sonic, Formation Compensated Density-Compensated Neutron Log, Gamma Ray, Caliper

Coring: None planned

Drill Stem Testing: None planned, but unexpected shows while drilling may warrant testing.

9) Abnormal pressures, temperatures or potential hazards.

No abnormal temperatures, pressures, or hazardous gasses are expected.

10) Starting date.

Anticipated starting date is May 15, 1978. Approximately 25 days will be needed to build roads and location and drill well to total depth. If commercial, completion will commence immediately and require approximately 15 days.



SHAFFER HYDRAULIC BLOWOUT PREVENTERS
(Patented)

TYPE LWS PREVENTERS—8", 3000 Lb. & 5000 Lb.—10", 5000 Lb.
12", 3000 Lb.—13 3/8", 5000 Lb.—16", 3000 Lb.

PARTS AND DIMENSIONAL ILLUSTRATIONS

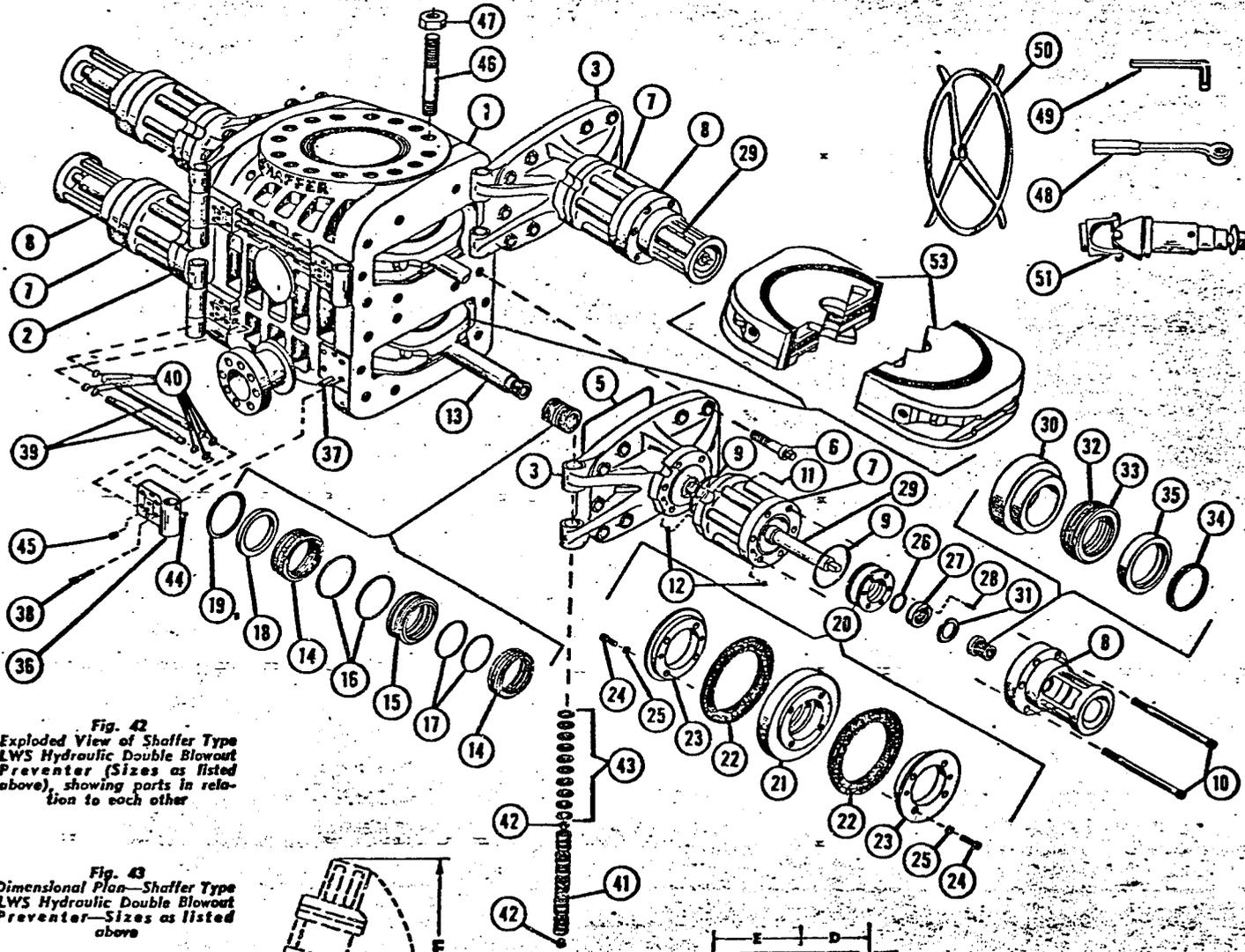


Fig. 42
Exploded View of Shaffer Type LWS Hydraulic Double Blowout Preventer (Sizes as listed above), showing parts in relation to each other

Fig. 43
Dimensional Plan—Shaffer Type LWS Hydraulic Double Blowout Preventer—Sizes as listed above

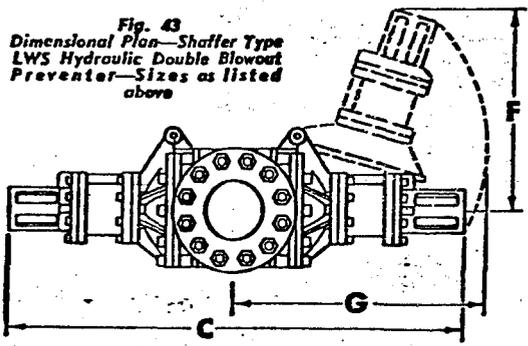
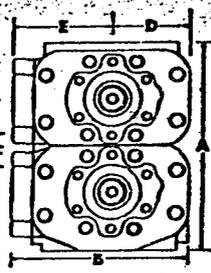


Fig. 44
Dimensional End Elevation—Shaffer Type LWS Hydraulic Double Blowout Preventer—Sizes as listed above



STANDARD ACCESSORIES

- (50) 4 Hand Wheels
- (48) 1 Door Wrench
- (49) 1 Cylinder & Cylinder Head Wrench
- (51) 4 Universal Joints

DIMENSIONAL AND ENGINEERING DATA ON ABOVE SIZES OF TYPE LWS PREVENTERS
Refer to Figs. 43 and 44

Size	Max. Service Press. Rating psi	Test Press. psi	Vertical Bore	Max. Ram Size	Approx. Weight Lbs.		A				B	C	D	E	F	G	Closing Rate	Opening Rate	U.S. Gals. Fluid To Close Rams	U.S. Gals. Fluid To Open Rams		
					Studded Flange		Height		Studded Flange	Bolted Flange											Studded Flange	Bolted Flange
					Single	Double	Single	Double														
8"	3,000	6,000	9"	7"	2,900	2,900	20 1/2"	41 1/2"	25 1/2"	79 1/2"	113 1/2"	145 1/2"	22"	48"	5.58 to 1	1.89 to 1	2.75	2.2				
8"	5,000	10,000	9"	7"	2,900	2,900	20 1/2"	45 1/2"	25 1/2"	79 1/2"	113 1/2"	145 1/2"	22"	48"	5.58 to 1	1.89 to 1	2.75	2.2				
10"	3,000	6,000	11"	8 1/2"	5,000	7,000	24 1/2"	24 1/2"	33"	80 1/2"	125 1/2"	18 1/2"	22"	46"	5.58 to 1	1.5 to 1	3.25	2.7				
12"	3,000	6,000	13 1/2"	10 1/2"	6,300	8,300	34 1/2"	47 1/2"	31 1/2"	92 1/2"	133 1/2"	18 1/2"	27"	53"	5.58 to 1	1.89 to 1	3.55	2.9				
12 3/8"	5,000	10,000	13 1/2"	10 1/2"	6,800	9,700	36 1/2"	49 1/2"	33 1/2"	92 1/2"	143 1/2"	18 1/2"	41"	54"	5.58 to 1	1.5 to 1	3.25	2.9				
16"	3,000	6,000	16 1/2"	12 1/2"	8,500	8,500	35"	81"	35"	106 1/2"	163 1/2"	20 1/2"	22"	60"	5.58 to 1	1.89 to 1	3.5	2.8				

McCulloch Oil Corporation
DEVELOPMENT PLAN FOR SURFACE USE

WELL:

Federal 8 No.1

LOCATION:

430' FSL & 820' FWL
Sec. 8, T38S, R26E
San Juan County, Utah

FEDERAL LEASE NUMBER:

U-12840

1) Existing roads. (Shown in green)

The attached topographic map shows all existing roads within three miles of the proposed location. Access road leading to county road at Cajon Lake is shown in green. The proposed new road to be constructed is shown in red.

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 red)

The new access road will be approximately 1 ¼ 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 culverts will be required. All surfacing material will be taken from the roadway. No gates, cattle guards or fences will be crossed. No 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 wash running down Cross Canyon, approximately 7 road miles south 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) Methods 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.

- 7) 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 in the bottom of Squaw Canyon with a steep hillside to the east and the creek to the west. The soil is a sandy loam. Sparse vegetation consists mostly of sage brush with some native grasses. There was evidence of deer in the area.

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

There are no occupied dwellings in the area.

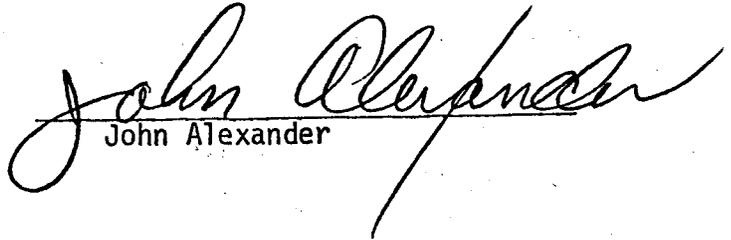
There were no archaeological or cultural sites visible on the location. The archaeologist's report is forthcoming.

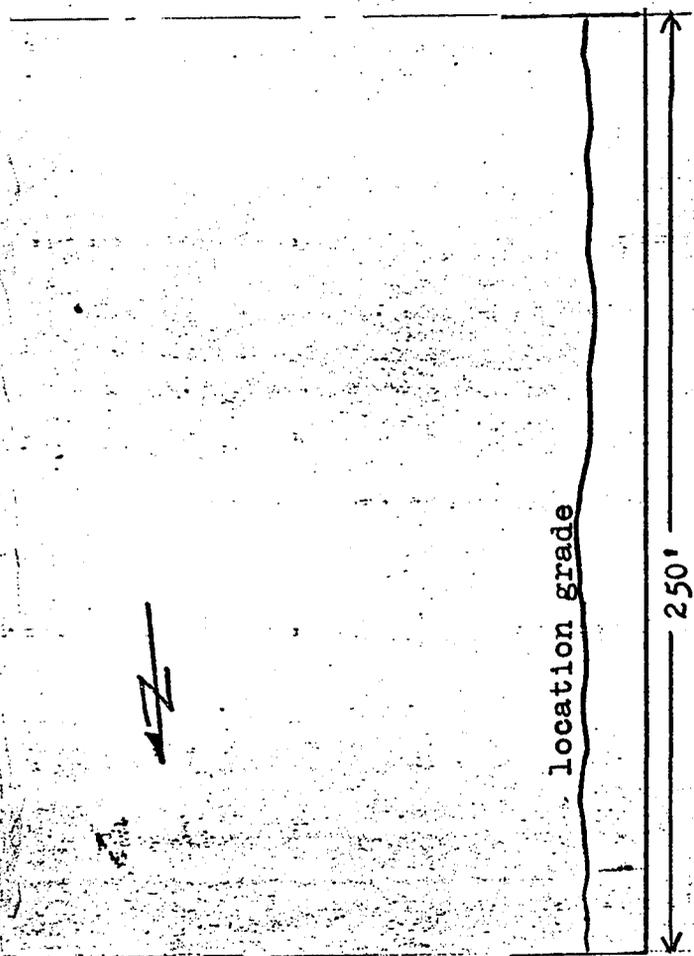
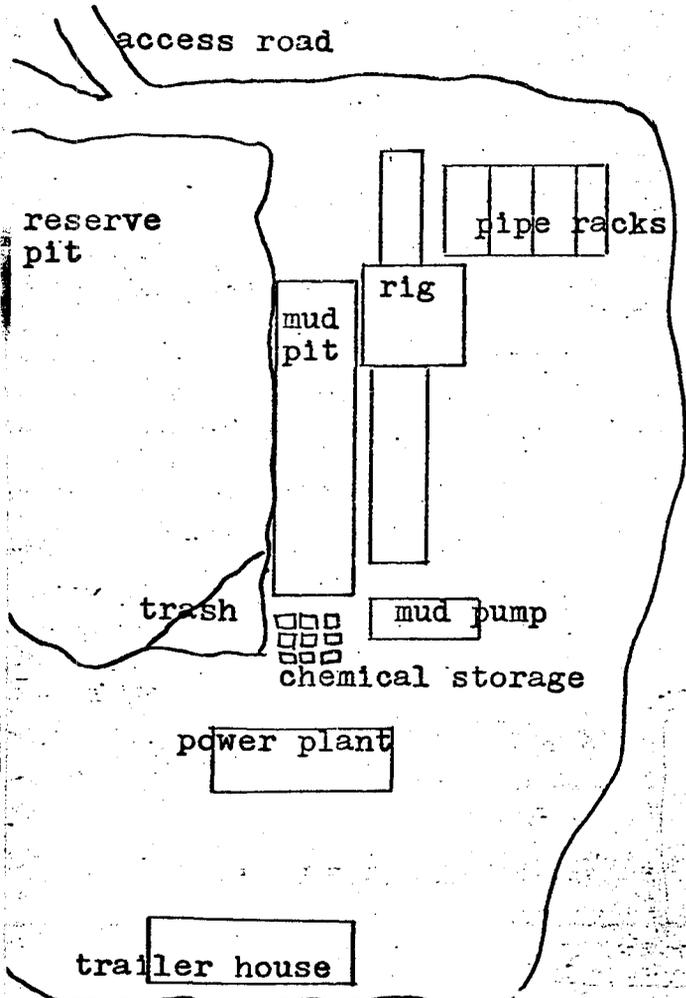
12)

John Alexander
3E Company, Inc.
P.O. Box 190
Farmington, NM 87401
Phone: 505-327-4020

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.

450-78

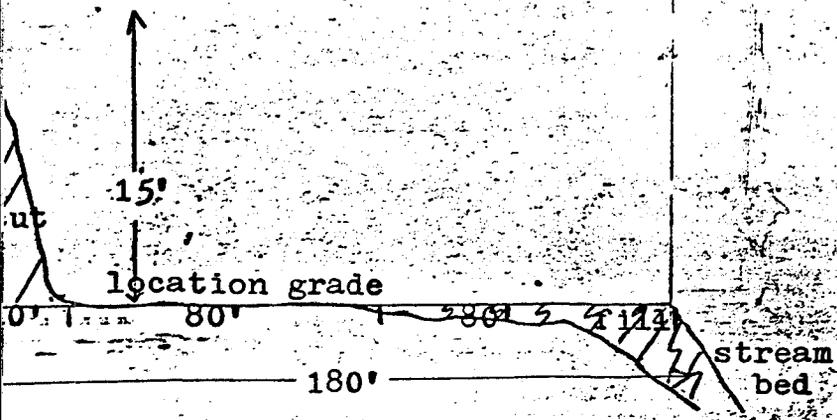

John Alexander



horizontal scale: 1"=50'

verticle scale: 1"=10'

WELL SITE LAYOUT
 McCullough Oil Corp.
 Federal 8 #1



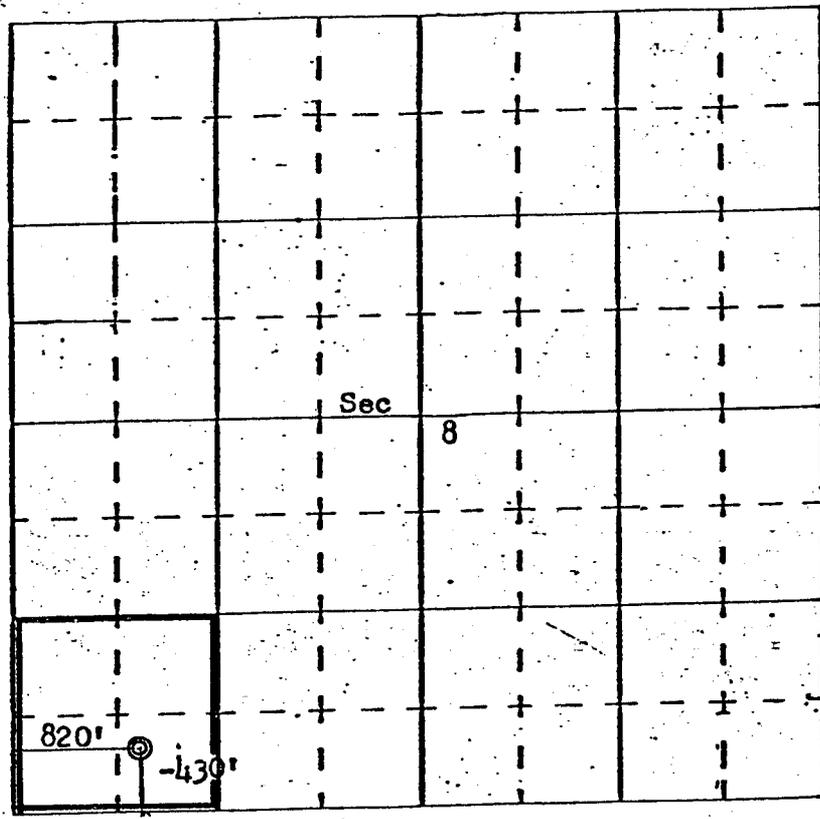
COMPANY McCULLOCH OIL CORPORATION

LEASE Federal 8 WELL NO. 1

SEC. 8 T. 38S R. 26E
San Juan County, Utah

LOCATION 430'FSL 820'FWL

ELEVATION 5070 ungraded ground



SCALE—4 INCHES EQUALS 1 MILE

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

Fred B. Kerr Jr.
Fred B. Kerr Jr.

SEAL: Registered Land Surveyor
#3950

SURVEYED March 28 19 78

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

** FILE NOTATIONS **

Date: May 15 -
Operator: McClellan Corp.
Well No: Sec. 8-1
Location: Sec. 8 T. 38 S R. 26 E County: San Juan

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

API NUMBER: 43-037-30438

CHECKED BY:

Administrative Assistant DW

Remarks: OK

Petroleum Engineer PKD

Remarks:

Director J

Remarks:

*no need letter
add casing is either reason
why this letter
Geo byic or Reserve letter
held.*

INCLUDE WITHIN APPROVAL LETTER:

Bond Required: OK 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

3E COMPANY, INC.

Engineering • Energy • Exploration

P. O. Box 190 505/327-4020

FARMINGTON, NEW MEXICO 87401

May 23, 1978



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

Attention Cleon Feight, Director

RE: Nonstandard Location McCulloch
Oil Corp., Federal 8 #1

Dear Sirs:

McCulloch Oil Corporation asks permission for nonstandard location for the following well:

Federal 8 #1 430' FSL & 820' FWL
S.8-T38S-R26E
San Juan Co.

This exception is requested because of terrain. The attached plat shows the proximity of problem causing terrain.

Please notify me if there are any questions or if additional information is required.

Sincerely,

John Alexander
Agent for McCulloch Oil Co.

JDC:dew

May 31, 1978

McCulloch Oil Corporation
Jamestown Office Park
3033 NW 63rd
Suite 250
Oklahoma City, Oklahoma 73115

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

Gentlemen:

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

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

PATRICK L. DRISCOLL - Chief Petroleum Engineer
HOME: 582-7247
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.

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 43-037-30438.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT
Director

Federal Building
701 Camino del Rio
Durango, Colorado 81301

September 7, 1978

McCulloch Oil Corporation
Jamestown Office Park, Suite 250
3033 NW 63rd Street
Oklahoma City, OK 73116

LA

Gentlemen:

Reference is made to your letter of August 4, 1978, and subsequent telephone conversation discussing cancellation of Application for Permit to Drill well No. 1 Federal 8, located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 8, T. 38 S., R. 26 E., SLM, San Juan County, Utah, on Federal oil and gas lease U-12840.

Application for Permit to Drill has not been approved. No construction of well pad and access road commenced.

Application for Permit to Drill is cancelled this date and is returned herewith. If at some later date you decide to drill this well, it will be necessary to file a new application.

Sincerely yours,

(Orig. Sgd.) C. A. BARRICK

Carl A. Barrick
Acting District Engineer

cc: BLM, Monticello
Utah State Division Oil, Gas, & Mining