

UTAH DIVISION OF OIL, GAS AND MINING

REMARKS: WELL LOG _____ ELECTRIC LOGS _____ FILE 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-15058 INDIAN

DRILLING APPROVED: 5-16-78

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 3/96

UNIT:

COUNTY: San Juan

WELL NO. Federal 8-2

API NO: 43-037-30439

LOCATION 990' FT. FROM (N) ~~XX~~ LINE. 1820' FT. FROM ~~XX~~ (W) LINE. NE NW 1/4-1/4 SEC. 8

3

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
38S	26E	8	McCULLOCH OIL CORPORATION				

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

See
4-16-91

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

3E CO file

5. LEASE DESIGNATION AND SERIAL NO.
U-15058

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal 8

9. WELL NO.
2

10. FIELD AND POOL, OR WILDCAT
Wildcat-Desert Creek, Ismay

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

12. COUNTY OR PARISH | 13. STATE
San Juan | Utah

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 Corporation

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface
990' FNL & 1820' FWL

At proposed prod. zone
Same

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
960

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
5290 D.C.

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5115 G.L.

22. APPROX. DATE WORK WILL START*
May 25, 1978

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/2	9 5/8 (new)	36	400	225 sk.
7 7/8	5 1/2 (new)	15.5	5290	700 sk.

(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

(This space for Federal or State office use)
PERMIT NO. 43-037-30439 APPROVAL DATE

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

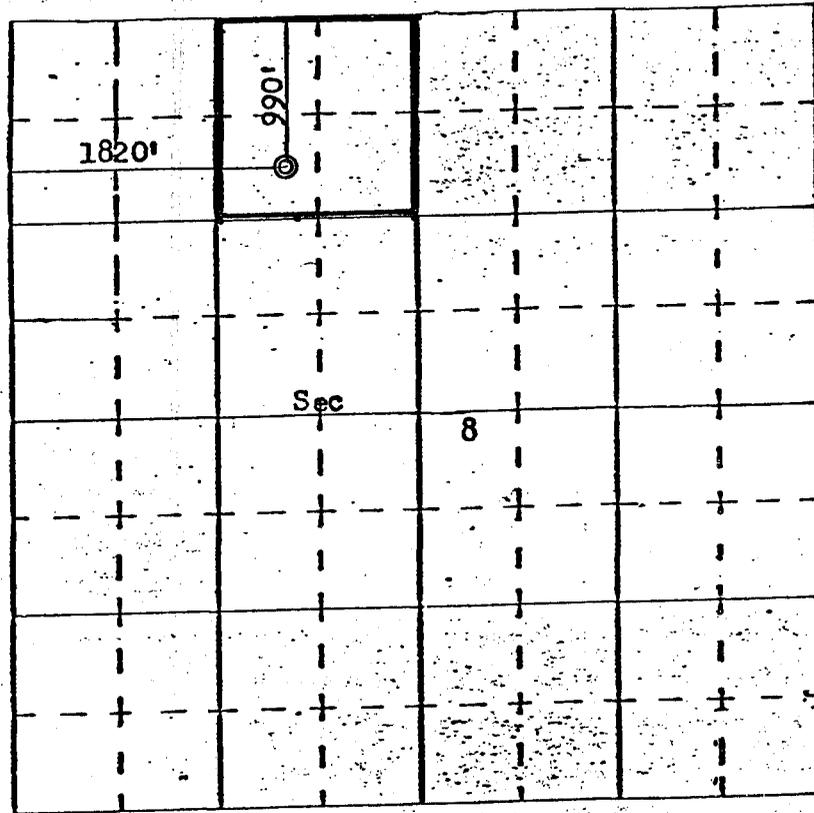
COMPANY McCULLOCH OIL CORPORATION

LEASE Federal 8 WELL NO. 2

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

LOCATION 990' FNL 1820' FWL

ELEVATION 5115 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

FARMINGTON, N. M.

McCULLOCH OIL CORPORATION
FORMATION INFORMATION AND DRILLING PROCEDURES

WELL:

Federal 8 No. 2

LOCATION:

990' FNL & 1820' FWL
Sec. 8, T38S, R26E
San Juan Co., Utah

LEASE NUMBER:

U-15058

1) Geologic name of surface formation.

Morrison Sand Stone

2) Estimated tops of important geologic markers.

Entrata	185'
Navajo	353'
Wingate	707'
Chinle	985'
Shinarump	1865'
Moenkopi	1985'
Paradox	4750'
Upper Ismay	4910'
Desert Creek	5172'
total depth	5290'

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

353'	water
4910'	oil & gas
5172'	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 5290'. 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 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	15 ML
4800'-5290'	Gel Chemical	35-45	9.0-9.5	8 ML

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 dates, anticipated, is May 25, 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 5/8", 5000 lb.—16", 3000 lb.

PARTS AND DIMENSIONAL ILLUSTRATIONS

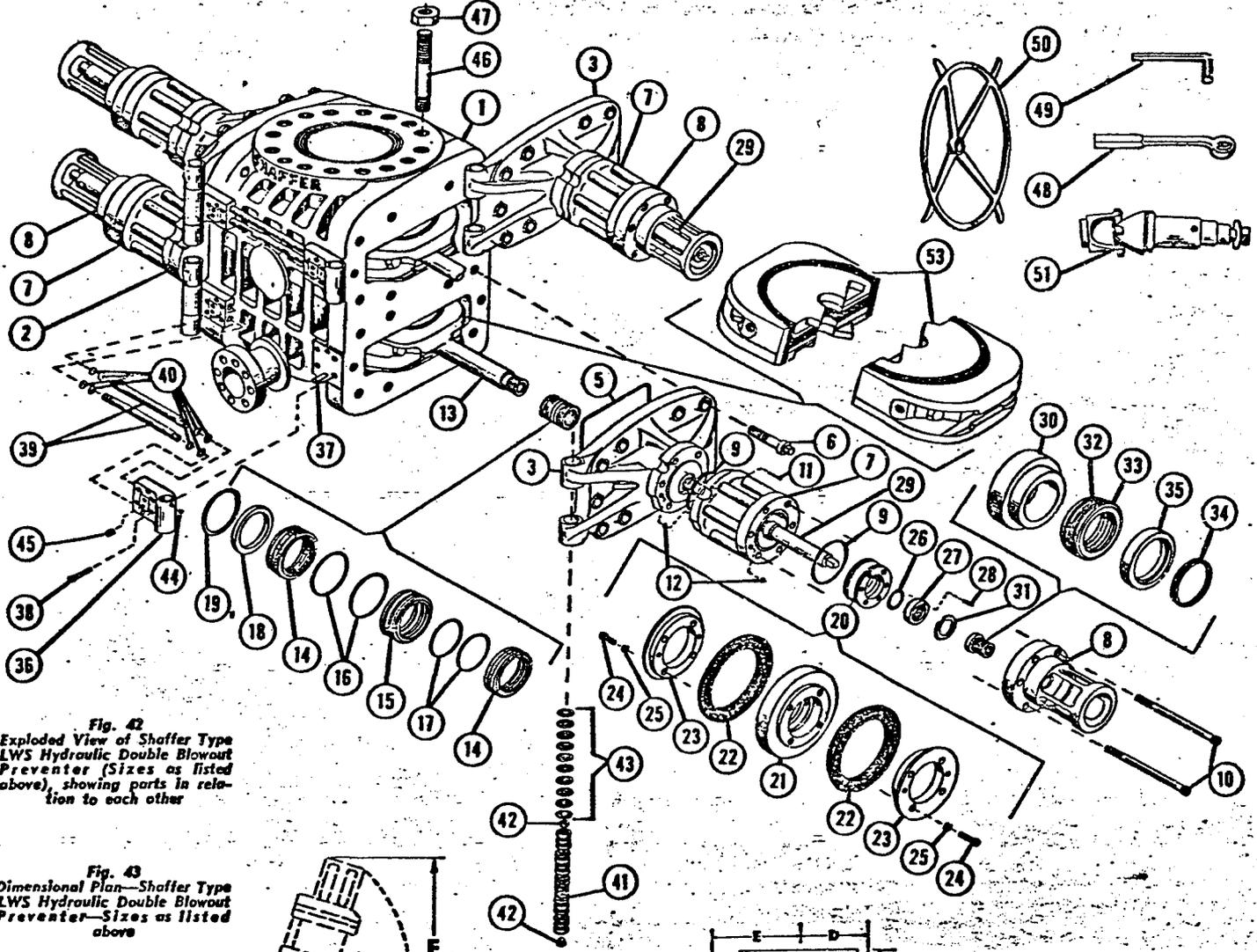


Fig. 42
Exploded View of Shaffer Type LWS Hydraulic Double Blowout Preventer (Sizes as listed above), showing parts in relation to each other

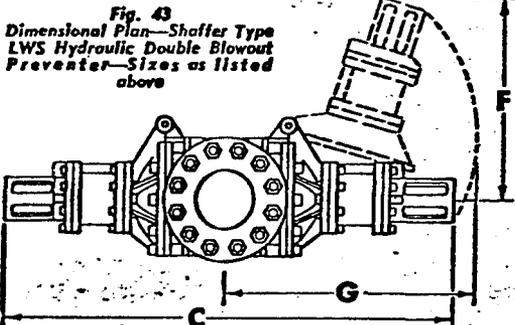
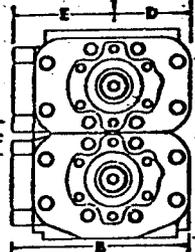


Fig. 43
Dimensional Plan—Shaffer Type LWS Hydraulic Double Blowout Preventer—Sizes as listed above

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 Ratio	Opening Ratio	U.S. Gal. Fluid To Close Rams	U.S. Gal. Fluid To Open Rams		
					Studded Flange		Height		Studded Flange	Bolted Flange											Studded Flange	Bolted Flange
					Single	Double	Single	Double														
8"	3,000	6,000	8"	3"	.....	3,900	.....	.....	29 1/2"	41 5/8"	25 3/4"	79 3/4"	11 1/2"	14 5/8"	22"	48"	5.8 to 1	1.89 to 1	2.75	2.3
8"	5,000	10,000	8"	3"	.....	3,900	.....	.....	29 1/2"	41 5/8"	25 3/4"	79 3/4"	11 1/2"	14 5/8"	22"	48"	5.8 to 1	1.89 to 1	2.75	2.3
10"	6,000	10,000	11"	3 1/2"	5,000	7,000	34 3/4"	24 3/4"	32"	50 1/4"	25 3/4"	89 3/4"	12 1/2"	18"	22"	48"	5.5 to 1	1.5 to 1	2.25	2.7		
12"	2,000	6,000	13 1/2"	10 3/4"	.....	8,200	.....	.....	34 3/4"	47 3/4"	21 1/2"	92 3/4"	13 1/2"	18 3/4"	27"	52"	5.56 to 1	1.89 to 1	3.55	2.9
12 5/8"	5,000	10,000	12 5/8"	10 3/4"	6,800	9,700	36 5/8"	26 5/8"	36"	49 3/4"	23 3/4"	92 3/4"	14 3/4"	18 3/4"	41"	54"	5.58 to 1	1.5 to 1	2.55	2.9		
16"	2,000	6,000	16 3/4"	12 3/4"	.....	8,500	.....	.....	36"	51"	26 3/4"	106 3/4"	16 3/4"	20 3/4"	32"	60"	5.58 to 1	1.89 to 1	3.6	3.3

McCULLOCH OIL CORPORATION
DEVELOPMENT PLAN FOR SURFACE USE

WELL:

Federal 8 No. 2

LOCATION:

990' FNL & 1820' FWL
Sec 8, T38S, R26E
San Juan Co., Utah

LEASE NUMBER:

U-15058

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. Proposed new road to be constructed is shown in red.

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

2) Planned access roads. (Shown in red)

The new access road will be approximately 3/4 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 road 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 non-burnable 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 com-

Page 2 (cont.)

- 7) 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 non-burnable 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.

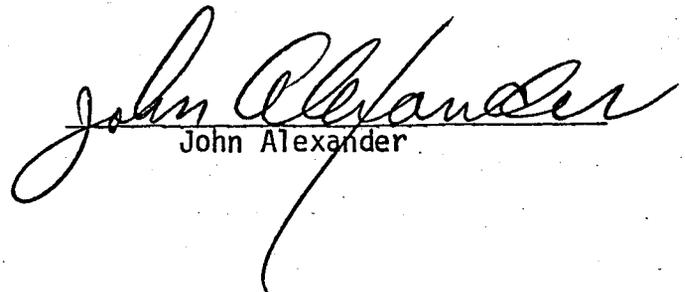
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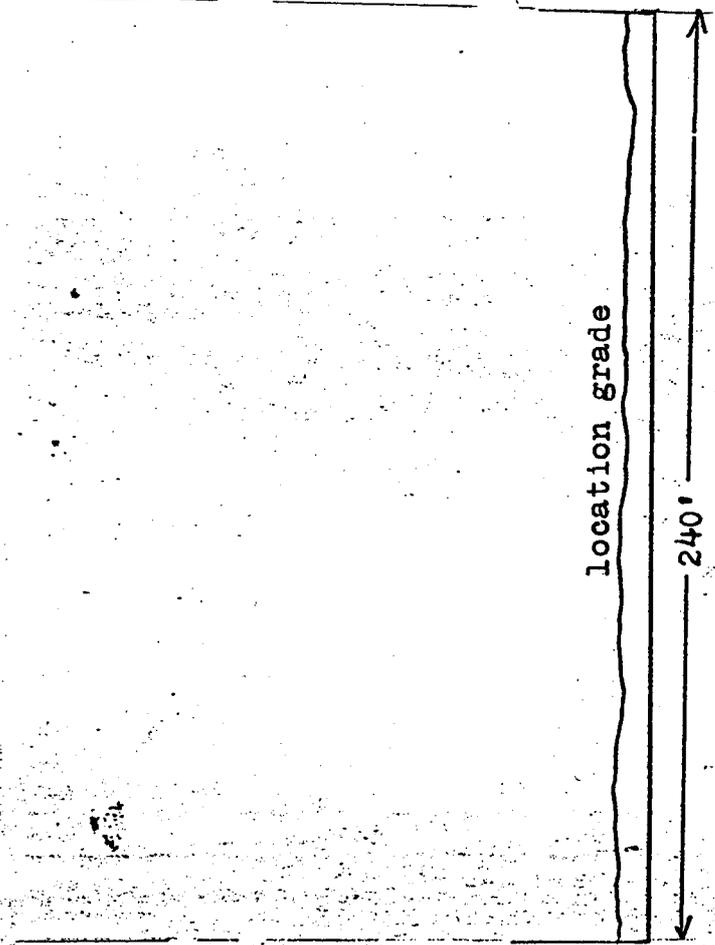
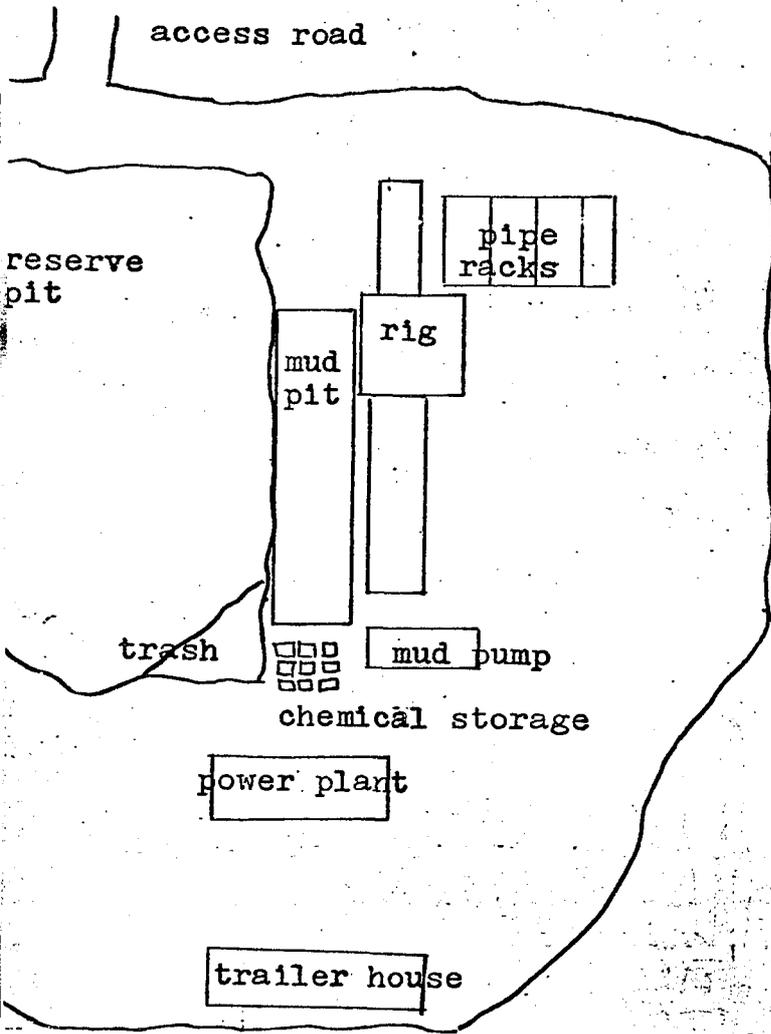
12)

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.

4-20-78

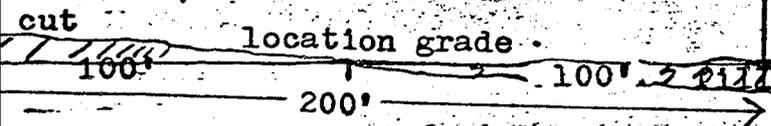

John Alexander

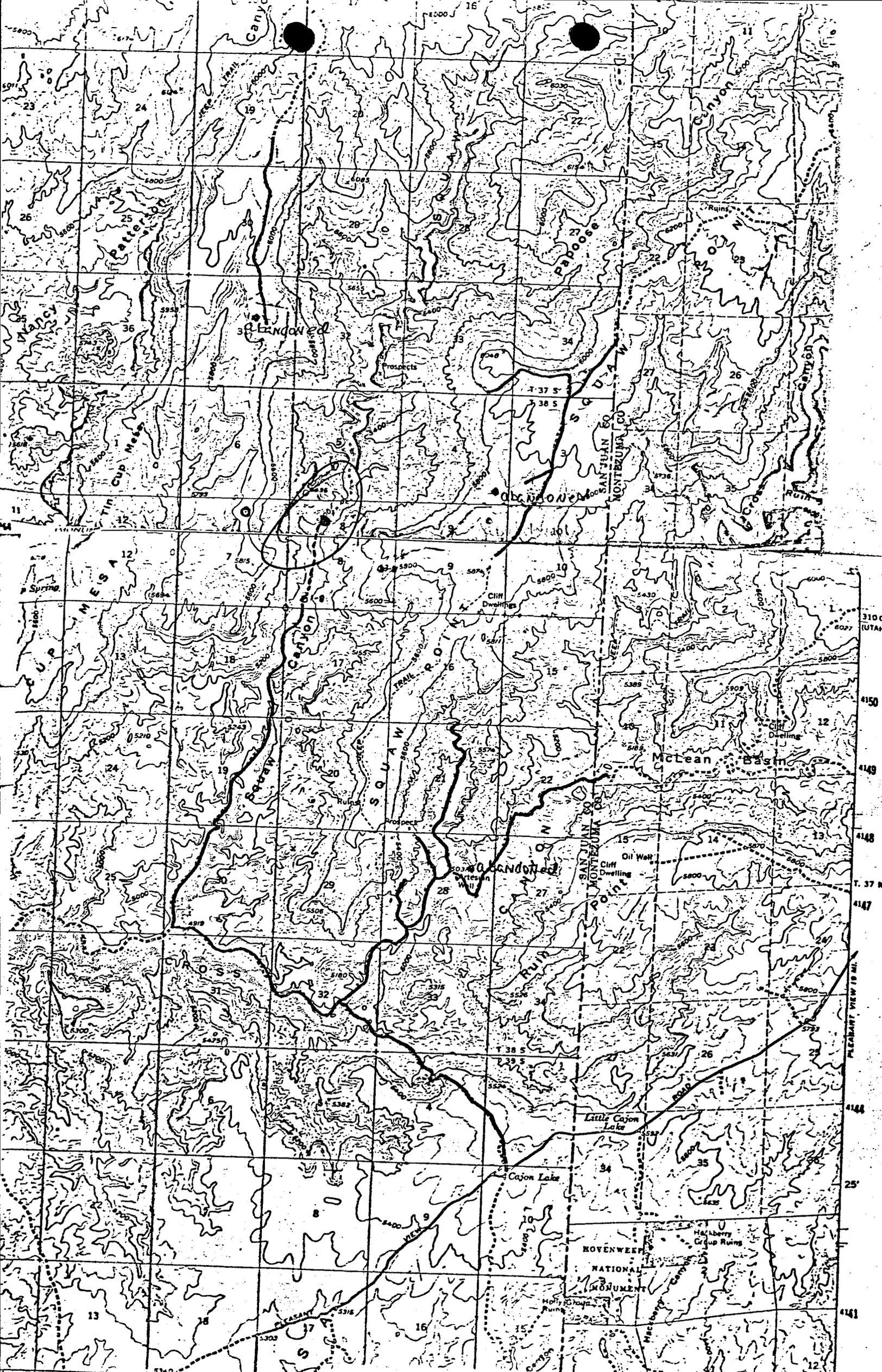


horizontal scale: 1"=50'

vertical scale: 1"=10'

WELL SITE LAYOUT
 McCullough Oil Corp.
 Federal 8 #2





Vicinity Map for
 McULLOCH OIL CORPORATION #2 Federal 8
 990'FWL 1820'FWL Sec 8-T36S-R26E
 San Juan County, New Mex

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

** FILE NOTATIONS **

Date: May 15-
Operator: McCullough Corp.
Well No: Fed. 8-2
Location: Sec. 8 T. 38S R. 26E County: San Juan

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

API NUMBER: 43-037-30439

CHECKED BY:

Administrative Assistant _____

Remarks:

Petroleum Engineer _____

Remarks:

Director _____

Remarks:

No
referral to need letter
to C-3 (c)

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



Federal Building
701 Camino del Rio
Durango, Colorado 81301

September 7, 1978

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



Gentlemen:

Reference is made to your letters of August 4, 1978, and subsequent telephone conversation discussing cancellation of Applications for Permit to Drill two wells located in sec. 8, T. 38 S., R. 26 E., SLM, San Juan County, Utah, on Federal oil and gas lease U-15058.

Application for Permit to Drill well No. 2 Federal 8, located in the NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 8, and well No. 3 Federal 8, located in the NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 8, have not been approved. No construction of well pads and access roads commenced.

Applications for Permit to Drill these two wells are cancelled this date and is returned herewith. If at some later date you decide to drill these wells, it will be necessary to file new applications.

Sincerely yours,

(Orig. Sgd.) C. A. BARRICK

Carl A. Barrick
Acting District Engineer

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