

Location Map Pinned ..... ✓  
 Card Indexed ..... ✓

Checked by Chief .....  
 Approval Letter .....  
 Disapproval Letter .....

**COMPLETION DATA:**

Date Well Completed *6/18/78*  
 .... WW..... TA.....  
 ... 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.....  
 Log..... CCLog..... Others.....

# 3E COMPANY, INC.

*Engineering • Energy • Exploration*

P. O. Box 190      505/327-4020

FARMINGTON, NEW MEXICO 87401

May 10, 1978



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

Attention Cleon Feight

RE: McCulloch Oil Corporation  
State 16 No. 1  
590' FNL & 2300' FWL  
S.16-T38S-R26E  
San Juan Co., Utah

Dear Sirs:

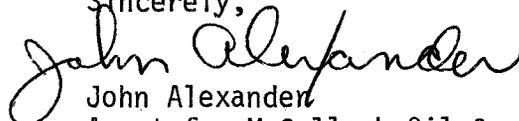
Attached is the "Application for Permit to Drill. . ." for the subject well.

Please accept this letter as request for a non-standard location for this well. Exception is requested because of topography and to coincide with seismic data. The plat attached to the application shows the topography problem.

The archaeologists report will follow under separate cover.

Should you have any questions concerning this well, please contact me at the above address.

Sincerely,

  
John Alexander  
Agent for McCulloch Oil Corp.

JA:dew

State of Utah  
~~UNITED STATES~~  
~~DEPARTMENT OF THE INTERIOR~~  
 GEOLOGICAL SURVEY

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

Form approved.  
 Budget Bureau No. 42-R1425.

**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 Corp.

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)  
 At surface  
500' FNL & 2300' FWL

At proposed prod. zone  
Same *NE MW*

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)

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

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
5785' GR

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 (new)	36	400	225 sk.
7 7/8	5 1/2 (new)	15.5	5980	800 sk.

(See attachments)



*Copy of "Survey of Cultural Resources" sent to State Archaeologist (5-15-78)*

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 5-8-78

(This space for Federal or State office use)

PERMIT NO. 43-037-30441 APPROVAL DATE \_\_\_\_\_

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

CONDITIONS OF APPROVAL, IF ANY:

McCulloch Oil Corporation

Formation Information and Drilling Procedures

WELL:

State 16 No.1

LOCATION:

500' FNL & 2300' FWL  
S.16-T38S-R26E  
San Juan County, Utah

STATE LEASE NUMBER:

NM 25375

1) Geologic name of surface formation.

Dakota Sand Stone

2) Estimated tops of important geologic markers.

Entrata 875'

Navajo 1043'

Wingate 1397'

Chinle 1675'

Shinarump 2555'

Monenkopi 2675'

Paradox 5440'

Upper Ismay 5600'

Desert Creek 5862'

Total Depth 5980'

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

1043' water

5600' oil & gas

5862' 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% CaCl<sub>2</sub>.

Production casing: 5 1/2", J-55, 15.5 lb/ft, new to be set at 5980'. Cementing to be in two stages: 1st stage, 300 sk. Halliburton Light followed by 150 sk. Class "B" with 0.5% HR-7; 2nd stage, 350 sk. Halliburton Light.

5) Specifications for pressure control equipment.

The attached schematic drawing shows the type of blowout preventer to be

5) 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'-5600'	Low Solids	29-33	8.5-8.9	15 ML
5600'-5980'	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 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 5/8", 5000 lb.—16", 3000 lb.

PARTS AND DIMENSIONAL ILLUSTRATIONS

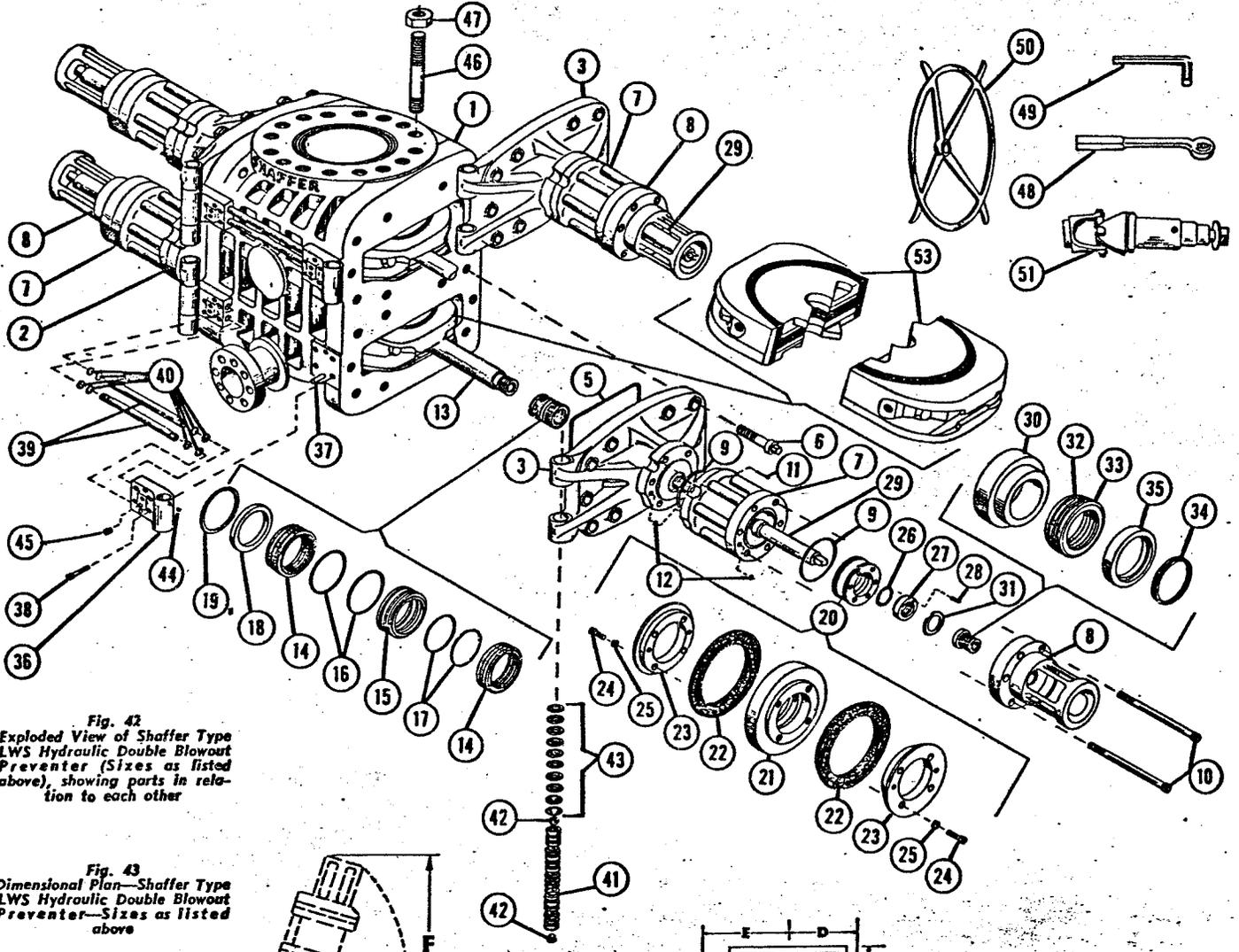


Fig. 42  
Exploded View of Shaffer Type LWS Hydraulic Double Blowout Preventer (Sizes as listed above), showing parts in relation to each other

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

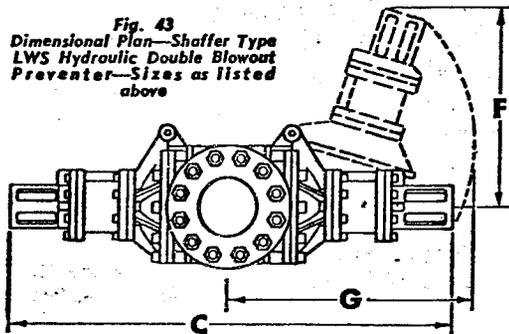
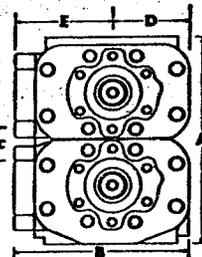


Fig. 44  
Dimensional End Elevation—Shaffer Type LWS Hydraulic Double Blowout Preventer—Sizes as listed above



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		Width	Length											Center To Front	Center To Rear	Door Open To Change Rams	Door Open To Change Rams
					Single	Double	Single	Double																
					Studded Flange	Bolted Flange	Studded Flange	Bolted Flange	Studded Flange	Bolted Flange											Studded Flange	Bolted Flange		
8"	3,000	6,000	9"	7"	.....	3,900	.....	.....	29 1/2"	41 3/4"	25 1/4"	79 1/4"	11 1/4"	14 1/4"	23"	46"	5.5 to 1	1.89 to 1	2.75	2.3				
8"	5,000	10,000	9"	7"	.....	3,900	.....	.....	29 1/2"	45 1/4"	25 1/4"	79 1/4"	11 1/4"	14 1/4"	22"	48"	5.5 to 1	1.89 to 1	2.75	2.3				
10"	5,000	10,000	11"	8 1/2"	5,600	7,000	34 3/4"	34 3/4"	33"	50 1/4"	28 1/4"	89 1/4"	12 1/4"	16"	22"	48"	5.5 to 1	1.5 to 1	3.25	2.7				
12"	3,000	6,000	13 1/4"	10 1/4"	.....	6,300	.....	.....	34 1/4"	47 1/4"	21 1/4"	92 1/4"	13 1/4"	18 1/4"	27"	53"	5.56 to 1	1.89 to 1	3.55	2.9				
12 5/8"	5,000	10,000	12 5/8"	10 1/4"	6,800	9,700	36 1/4"	36 1/4"	38"	49 1/4"	23 1/4"	92 1/4"	14 1/4"	18 1/4"	41"	54"	5.56 to 1	1.5 to 1	3.55	2.9				
16"	3,000	6,000	16 1/4"	13 1/4"	.....	8,500	.....	.....	38"	51"	56 1/4"	106 1/4"	16 1/4"	20 1/4"	32"	60"	5.56 to 1	1.89 to 1	3.8	2.2				

McCulloch Oil Corporation

Development Plan for Surface Use

WELL:

State 16 No.1

LOCATION:

500' FNL & 2300' FWL  
S.16-T38S-R26E  
San Juan County, Utah

~~STATE~~ OEASE NUMBER:

ML 25375

1) Existing roads. (Shown in green)

The attached topographic map shows all existing roads within three miles of the proposed location. The access road will join a county road to the east that leads to Dove Creek, Colorado. The proposed new access road is shown in red.

The existing roads should bear normal drilling operation traffic, and will not have to be upgraded.

2) Planned access road. (Shown in red)

The new access road will be approximately  $\frac{1}{4}$  mile long and 20' wide. Terrain is relatively flat and is covered with timber that is chained down. No cuts or fills will be required. Water bars will be used to aid drainage and help prevent erosion. Maximum grade will be 5%. No turnouts will be required. No surfacing material will be required. No gates, cattle guards or fences will be crossed.

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 Dove Creek, Colorado, approximately 23 miles to the east. Water is privately owned.

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 burnpit 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.

7) 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 the edge of Squaw Point at a place where the point falls away rapidly to the west into Squaw Canyon, and is level to the east. Cut and fill required are shown on the Drill Site Layout. The ground is sandy and covered with Cedar trees, sage brush and native grasses. There was evidence of deer and small animal life.

The State of Utah is the surface agency.

There are no occupied dwellings in the area.

There were no archaeological or cultural sites visible on the location. The archaeologist 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.

5-9-78

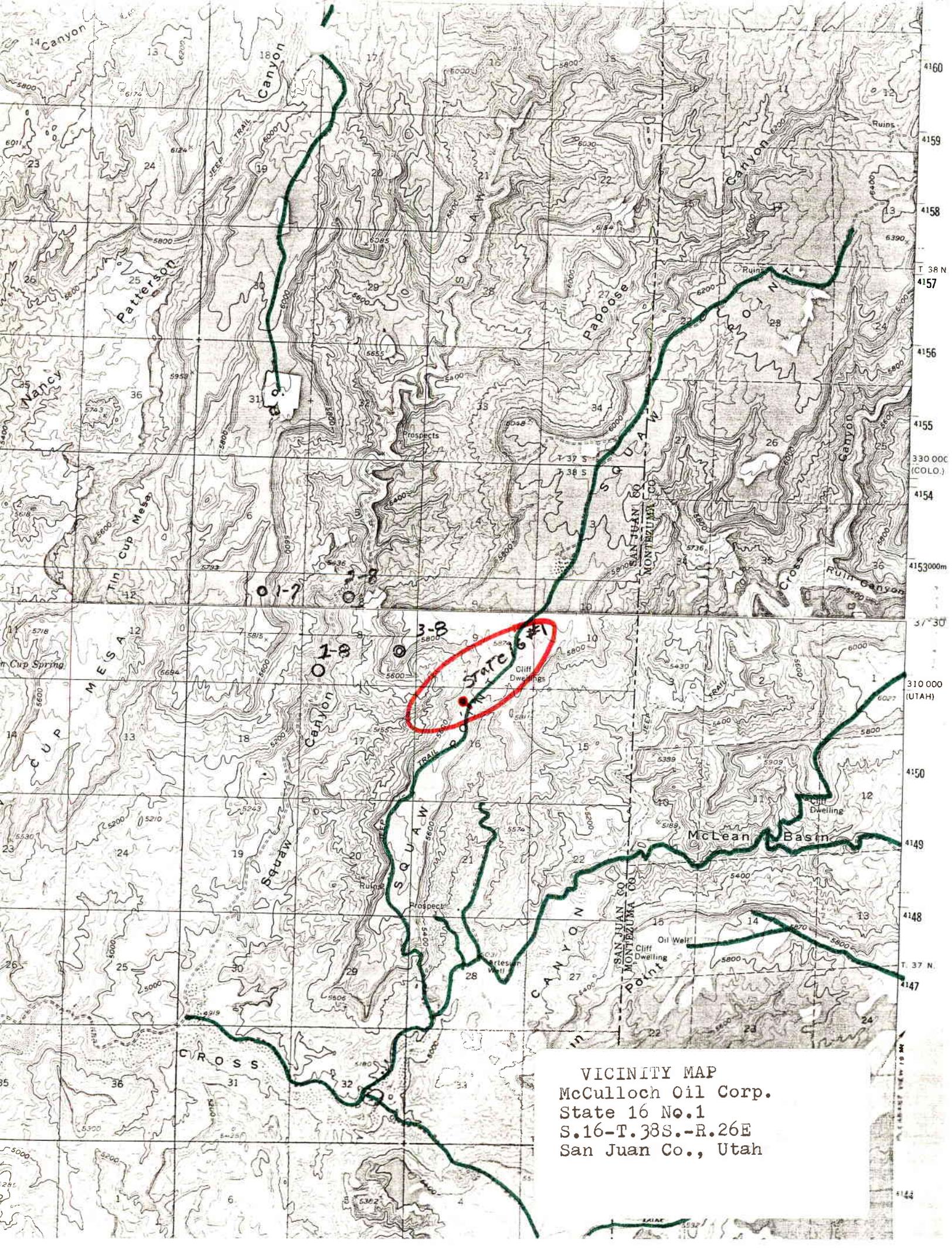
John Alexander  
John Alexander

Should further information be desired, please advise.

Yours very truly,

John Alexander

JA:dew



VICINITY MAP  
McCulloch Oil Corp.  
State 16 No.1  
S.16-T.38S.-R.26E  
San Juan Co., Utah

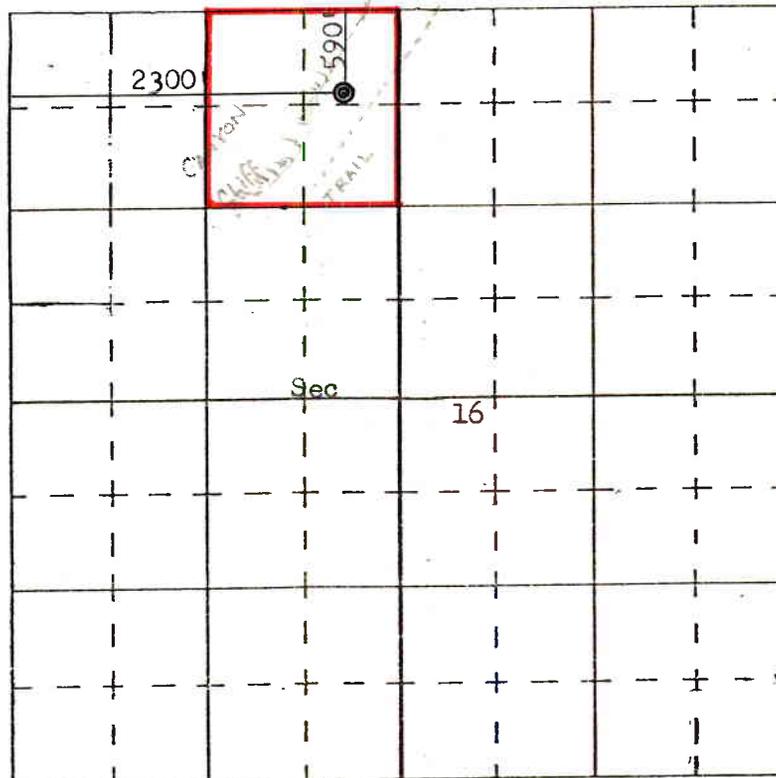
COMPANY McCULLOCH OIL CORPORATION

LEASE State 16 WELL NO. 1

SEC. 16, T. 38S, R. 26E  
San Juan County, Utah

LOCATION 590'FNL 2300'FWL

ELEVATION 5785 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 May 8 1978

FARMINGTON, N. M.

A

P

SURVEY OF CULTURAL RESOURCES  
FOR THREE E COMPANY  
PROPOSED WELL LOCATION-McCULLOCH OIL CORPORATION  
STATE 16 #1  
SAN JUAN COUNTY, UTAH

A survey of archaeological and historical resources was conducted for the Three E Company and McCulloch Oil Corporation proposed State 16 #1 well location and access road. The proposed well site is located 590 feet from the north and 2300 from the east, in the NW  $\frac{1}{4}$  of Section 16, Township 38 South, Range 26 East, N.M.P.M. in San Juan County, Utah. The proposed well site is situated on the western rim of Squaw Point on property owned by the State of Utah.

On May 8, 1978, Janet Von Neida, Fort Lewis College, inspected the area which had been staked and flagged. The survey was conducted under the terms of the U.S. Department of the Interior Antiquities Permit No. 78-UT-021. No archaeological materials were collected.

#### ENVIRONMENTAL DESCRIPTION

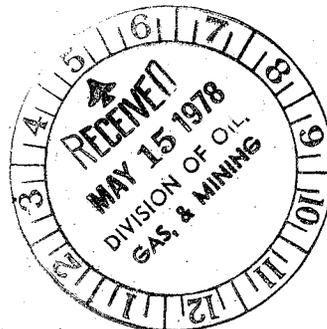
The proposed well location is situated on the western rim of Squaw Point and includes the area west of the existing road to the edge of the mesa and the area below the ledge. The top of the mesa has been chained and erosion has exposed bedrock over much of the area. Directly below the rim are numerous small rock overhangs and large boulders resting on a steep talus slope. The surrounding floral community includes: juniper, Thimbleberry, cactus, wild flowers, snakeweed, moss and grasses.

#### SURVEY METHODS AND RESULTS

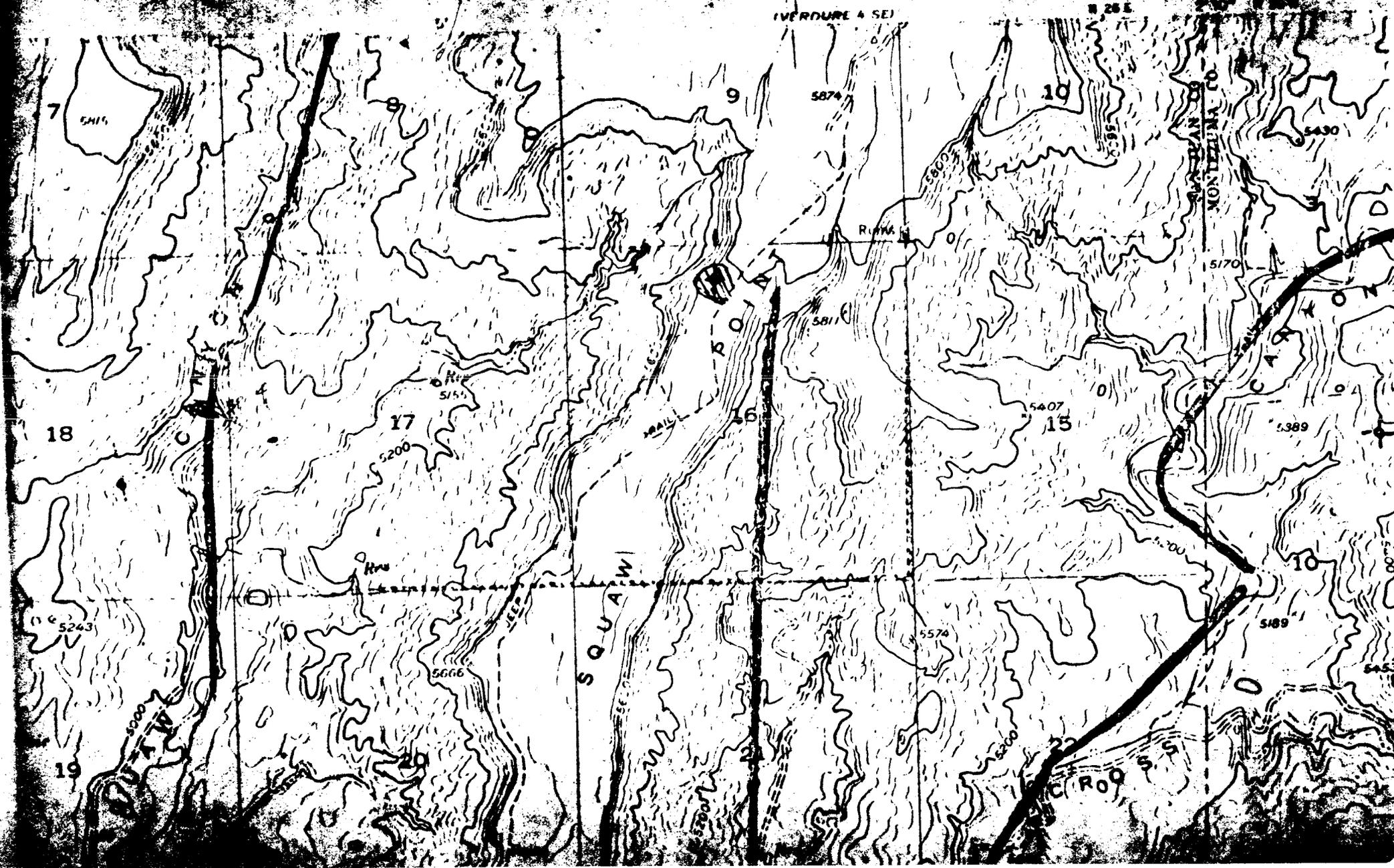
The proposed well location and two alternate locations were staked and marked as was the proposed access road. The area to be affected on the mesa top was surveyed by walking short transects. The rim and ledge just below the rim were carefully inspected for pictographs and petroglyphs as were the small overhangs. The talus slope was also surveyed for cultural materials. The mesa top contained a few sherds and flakes which were generally located in small washes. No features were apparent. The flakes and sherds are probably a result of chaining on the mesa which may have scattered materials from the sites located north and east of the survey area.

#### RECOMMENDATIONS

No further action is recommended.



EXPLORED WIRE LOG  
AREA SURVEYED



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

\*\* FILE NOTATIONS \*\*

Date: May 15 -  
Operator: McClellan Corp.  
Well No: State 16-1  
Location: Sec. 16 T. 38S R. 26E County: San Juan

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

API NUMBER: 43-037-30441

CHECKED BY:

Administrative Assistant [Signature]  
Remarks: ok  
Petroleum Engineer [Signature] [Signature]  
Remarks:  
Director [Signature]  
Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required: State 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

May 17, 1978

McCulloch Oil Corporation  
Jamestown Office Park  
3033 N.W. 63rd  
Suite 250  
Oklahoma City, Oklahoma 73115

Re: Well No's:  
Federal 7-1,  
Sec. 7, T. 38 S, R. 26 E,  
Federal 8-3,  
Sec. 8, T. 38 S, R. 26 E,  
✓ State 16-1,  
Sec. 16, T. 38 S, R. 26 E,  
San Juan County, Utah

Gentlemen:

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

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.

McCulloch Oil Corporation  
May 17, 1978  
Page Two

The API numbers assigned to these wells are:

#7-1: 43-037-30437

#8-3: 43-037-30440

#16-1: 43-037-30441.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT  
Director

cc: U.S. Geological Survey  
Division of State Lands

May 24, 1978

MEMO TO FILE

Re: McCulloch Oil Corporation  
Well No. State #16-1  
Sec. 16, T. 38S., T26E.  
San Juan County, Utah

Mr. Dick Linn, McCulloch Oil Corporation, called on the above date to notify this Division that the above named well spudded-in at 1:00 a.m. on May 24, 1978. Signal Oil Field Service is the drilling contractor and Rig #20 is being utilized.

  
PATRICK L. DRISCOLL  
CHIEF PETROLEUM ENGINEER  
DIVISION OF OIL, GAS, & MINING

PLD/ksw

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

**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 <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Dry Hole		5. LEASE DESIGNATION AND SERIAL NO. ML 25375
2. NAME OF OPERATOR McCulloch Oil Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 3033 N.W. 63rd St., Suite 250, Oklahoma City, Okla. 73116		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 590' FNL & 2300' FWL of Section		8. FARM OR LEASE NAME State 16
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, OR, etc.)	9. WELL NO. 1
		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 16 - T38S - R26E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

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

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

Verbal approval to plug and abandon was obtained from the State Division of Oil, Gas, and Mining with instructions to place cement plugs as follows:

1. Fill hole with mud
2. 35 sx cmt plug from 6100' to 6000'
3. 35 sx cmt plug from 4700' to 4600'
4. 35 sx cmt plug from 2000' to 1800'
5. 50 sx cmt plug from 470' to 370'
6. 10 sx cmt plug from 30' to Surface

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING  
DATE: July 19, 1978  
BY: P. W. Russell

The pits will be backfilled and the location will be cleared and restored.



18. I hereby certify that the foregoing is true and correct  
SIGNED J. D. Rawdon J.D. Rawdon TITLE District Manager DATE 6-30-78

(This space for Federal or State office use)

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

P 3

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

ML 25375

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

State 16

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Section 16 - T38S - R26E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

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 Corporation

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 590' FNL & 2300' FWL of Section

At top prod. interval reported below

At total depth

14. PERMIT NO. DATE ISSUED

304A1

15. DATE SPUDDED 5-24-78 16. DATE T.D. REACHED 6-15-78 17. DATE COMPL. (Ready to prod.) 6-18-78 P & A 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* GL 5785 KB 5797\* 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 6195 21. PLUG, BACK T.D., MD & TVD Surface 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY 0-6195' ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* none 25. WAS DIRECTIONAL SURVEY MADE no

26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Induction Laterlog, Sonic & Neutron Form. Density 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
9 5/8"	36	427'	12 1/4"	350 sx Class 'A'	none

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
none					none		

31. PERFORATION RECORD (Interval, size and number) none 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
none	

33.\* PRODUCTION DATE FIRST PRODUCTION none PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Plugged & Abandoned WELL STATUS (Producing or shut-in) P & A

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

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

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

35. LIST OF ATTACHMENTS  
Notice of Abandonment & Electric Logs

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 6-30-78

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 38, below regarding separate reports for separate completions. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

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

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

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

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

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES		38. GEOLOGIC MARKERS	
FORMATION	TOP	DESCRIPTION, CONTENTS, ETC.	NAME
			MEAS. DEPTH
			TUB VERT. DEPTH
Hermosa	DST #1 <u>5744</u>	5265 Rec. 63' mud & 1064' mud cut salt wtr. 15 min IFP 122-275, 30 ISIP 2316, 60 min FFP 298-617, FSIP 2291	Entrata Navajo Wingate Chinle Shinarump Hermosa Paradox Ismay Desert Creek Total Depth
Hermosa	DST #2 <u>5455</u>	5555 Rec. 345' mud. 15 min IFP 95-186, 30 min ISIP 878, 30 FFP 198-198, 60 FSIP 956.	
Ismay	DST #3 <u>5905</u>	6043 Rec. 289' mud. 15 min IFP 27-99, 60 min ISIP 1497, 60 min FFP 141-186, 60 min FSIP 1132.	
Desert Creek	DST #4 <u>6103</u>	6195 Rec. 330' mud. 30 min IFP 63-97, 30 min ISIP 194, 30 min FFP 110-115, 60 min FSIP 287.	
Ismay	CORE <u>5857</u>	5941 Limestone with traces of silt & dolomite. no oil or gas shows.	

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number: State 16 Well No. 1

Operator: McCulloch Oil & Gas Corporation Address: 3033 N.W. 63rd Street, Suite 250  
Oklahoma City, Oklahoma 73116

Contractor: Signal Oilfield Service Address: Denver, Colorado

Location NE 1/4 NW 1/4; Sec. 16 T. 38 N, R. 26 E; San Juan County.  
S W

Water Sands:

<u>Depth:</u>	<u>Volume:</u>	<u>Quality:</u>
From- To-	Flow Rate or Head	Fresh or Salty
1. No water flows were encountered during drilling		
2. 5220' to 5245'	1064' of salt water recovered in DST.	
3.		
4.		
5.		

(Continue on Reverse Side if Necessary)

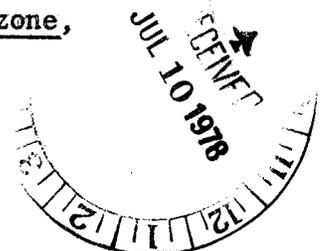
Formation Tops:

Entrata 1087, Navajo 1257, Wingate 1610, Chinle 1954, Shinarump 2734, Hermosa 4750, Paradox 5680, Ismay 5842, Desert Creek, 6070.

Remarks:

Well was plugged and abandoned.

- NOTE: (a) Upon diminishing supply of forms, please inform this office.  
(b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.  
(c) If a water analysis has been made of the above reported zone, please forward a copy along with this form.



June 16, 1978

MEMO TO FILE

Re: McCulloch Oil Company  
Well No. State 16-1  
Sec. 16, T. 38S., R. 26E.  
San Juan County, Utah

McCulloch Oil Company was given verbal permission to plug and abandon the above wildcat well. The pertinent facts are:

Total Depth	6,195'	The following plugs will be set:
Elevation	5,797' K.B.	
Surface Pipe	9 5/8" at 418'	#1 5,800' - 5,900'
Formation Tops:		#2 4,600' - 4,700'
Navajo	1,254'	#3 1,900' - 2,000'
Chinle	1,955'	#4 350' - 450'
Cutler	2,734'	#5 30' - surface
HonakerTrail	4,650'	
Ismay	5,840'	
Desert Creek	6,068'	

A dry hole marker will be erected and the location abandoned according to Utha Land Board specs.



PATRICK L. DRISCOLL  
CHIEF PETROLEUM ENGINEER  
DIVISION OF OIL, GAS, & MINING

PLD/ksw



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

I. DANIEL STEWART  
Chairman

CHARLES R. HENDERSON  
JOHN L. BELL  
THADIS W. BOX  
C. RAY JUVELIN

August 4, 1978

McCulloch Oil Corporation  
3033 N. W. 63rd St.  
Suite 250  
Oklahoma City, Oklahoma 73116

Re: WELL NO. STATE 16-1  
Sec. 16, T. 38S, R. 26E,  
San Juan County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office ~~6-30-78~~ from above referred to well(s) indicates the following electric logs were run:

**Dual Induction**

**Laterlog, Sonic & Neutron Form. Density.**

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 radioactivity logs.

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS & MINING

*Kathy Ostler*  
KATHY OSTLER  
RECORDS CLERK