

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

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

2. NAME OF OPERATOR
 McCulloch Oil & Gas Corporation

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 1980' FNL & 660' FWL of Section 20, T38S-R26E
 At proposed prod. zone C SW NW
 Same as above

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
 640

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
 5700 Akah

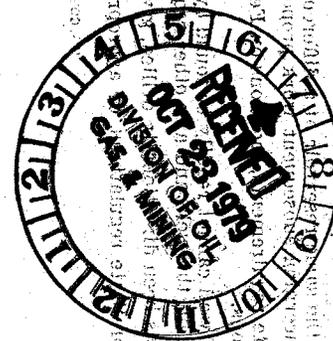
20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 5101' GR

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	2450'	1200 sacks
7 7/8"	4 1/2"	10.5#	5700'	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 [Signature] TITLE District Drlg. Engr. DATE Oct. 19, 1979

(This space for Federal or State office use)

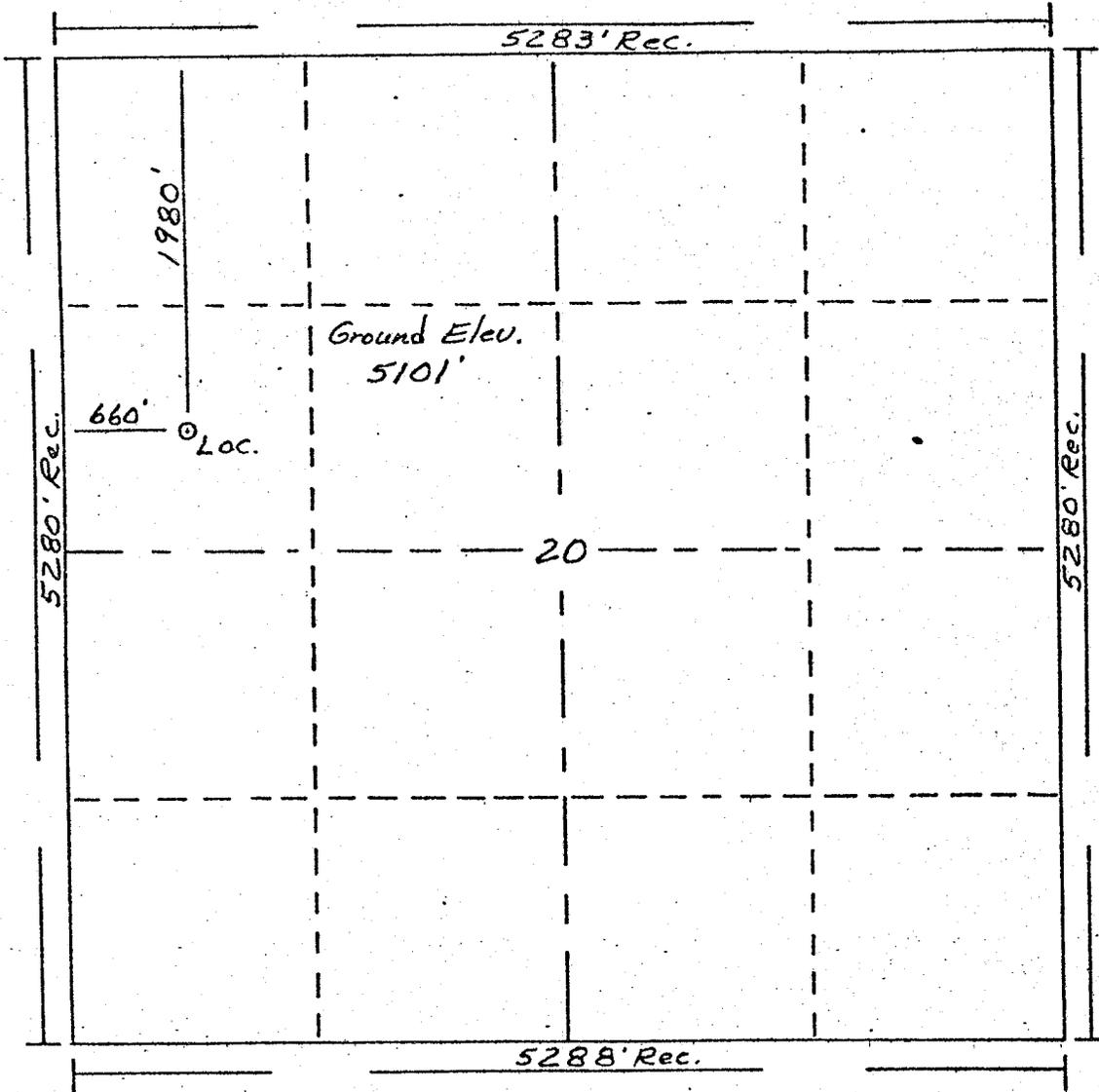
PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



R. 26 E.



T. 38 S.

Scale... 1" = 1000'

Powers Elevation of Denver, Colorado
 has in accordance with a request from Dick Lynn
 for McCulloch Oil & Gas
 determined the location of #2-20 Federal
 to be 1980 FNL & 660' FWL Section 20 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

Date: 10-10-79

J Nelson
 Licensed Land Surveyor No. 2711
 State of Utah

McCULLOCH OIL & GAS CORPORATION

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

WELL

Federal 20 No. 2

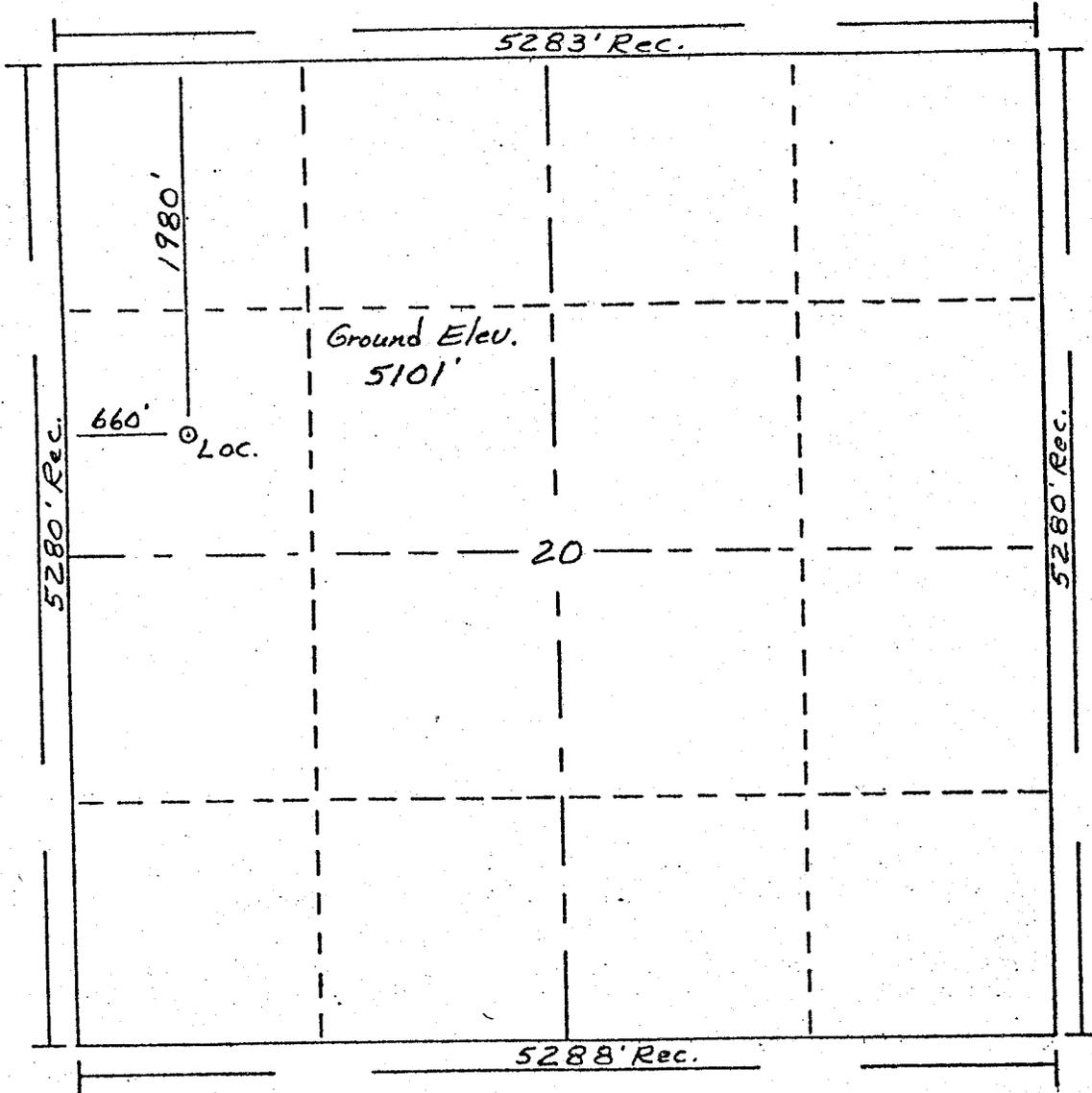
LOCATION

1980' FNL & 660' FWL
Section 20, T38S-R26E
San Juan County, Utah

Federal Lease Number U 40406



R. 26 E.



T. 38 S.

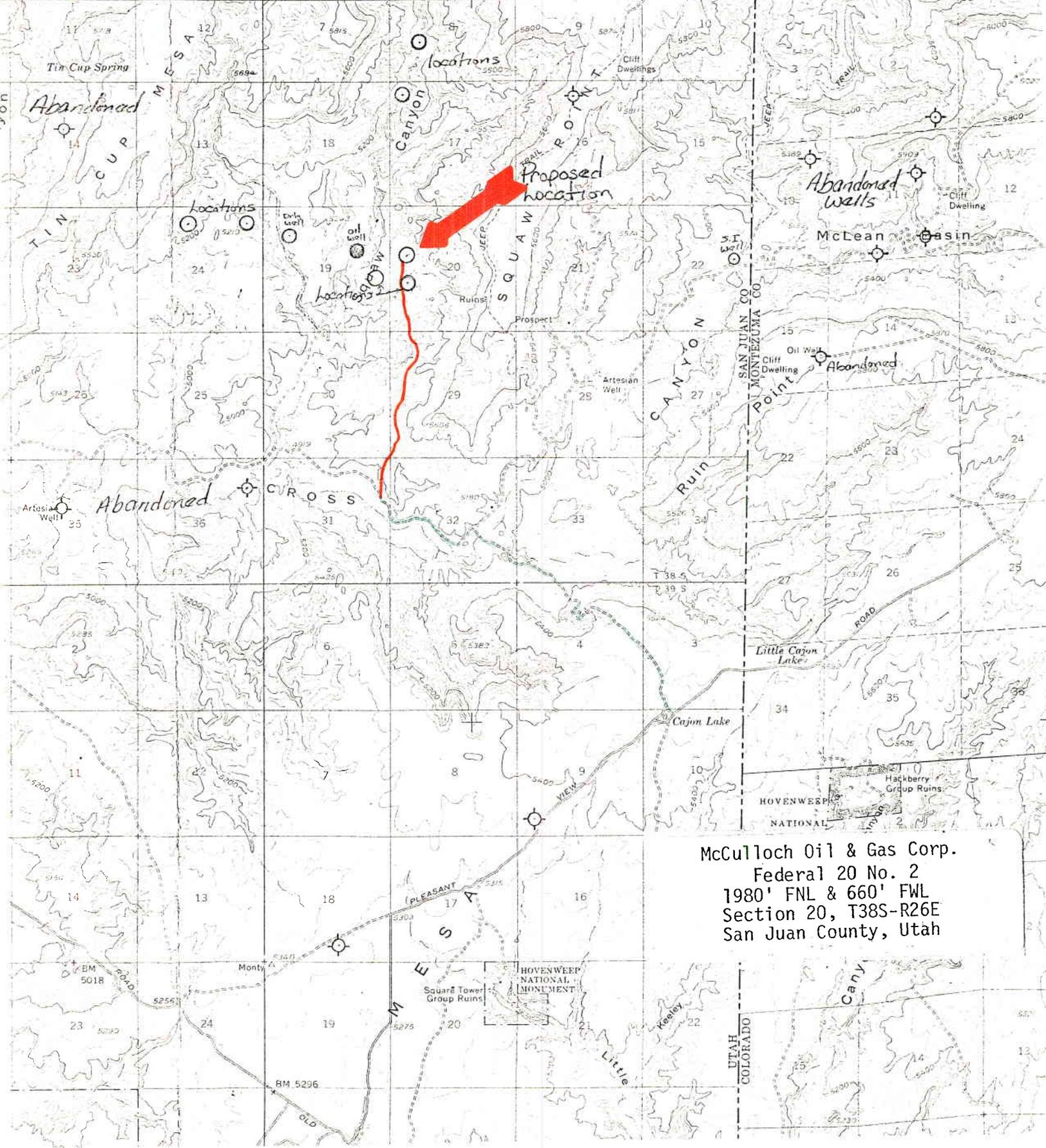
Scale... 1" = 1000'

Powers Elevation of Denver, Colorado
 has in accordance with a request from Dick Lynn
 for McCulloch Oil & Gas
 determined the location of #2-20 Federal
 to be 1980 FNL + 660' FWL Section 20 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

Date: 10-10-79

J Nelson
 Licensed Land Surveyor No. 2711
 State of Utah



McCulloch Oil & Gas Corp.
Federal 20 No. 2
1980' FNL & 660' FWL
Section 20, T38S-R26E
San Juan County, Utah

1. Geologic Name of Surface Formation

Morrison Sandstone

2. Estimated Tops of Important Geologic Markers

Jurassic	Curtis	400'
	Entrada	500'
Triassic	Carmel	630'
	Navajo	655'
	Kayenta	900'
	Wingate	1000'
	Chinle	1270'
	Shinarump	2200'
Permian	Moenkopi	2260'
	Cutler	2375'
Penn.	U. Hermosa	4220'
	Paradox	5085'
	U. Ismay	5250'
	L. Ismay	5440'
	Desert Creek	5505'
	Akah	5610'
	Total Depth	5700'

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

700'	Water
2300'	Water
5340'	Oil and Gas
5560'	Oil and Gas

4. Proposed Casing and Cementing Program

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

Surface Casing: 8 5/8", 24.00#, K-55, ST&C new casing to be set at 2450' and cemented to surface with 1000 sacks "Light" cement containing 2% CaCl₂ followed by 200 sacks Class "B" cement containing 2% CaCl₂.

Production Casing: 4 1/2", 10.50#, K-55, ST&C new casing to be set at 5700' and cemented with 300 sacks 50:50 pozmix cement containing 10% Salt and 0.75% CFR-2.

5. Specifications for Pressure Control Equipment

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

6. Drilling Fluids

<u>Depth</u>	<u>Type Fluid</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Water Loss</u>
0 - 100'	Spud Mud	8.6-9.0	35-40	NC
100-2450'	Water	8.4-8.6	28-30	NC
2450-5000'	Gel-Chem.	9.0-10.0	35-45	10-20
5000'-TD	Gel-Chem.	9.0-10.0	40-50	6-8

7. Logging, Coring, and Testing Program

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

Coring: The Upper Ismay interval from approximately 5250' to 5430' and the Desert Creek interval from 5540' to 5600' will be cored.

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

8. Abnormal Pressures, Temperatures, or Potential Hazards

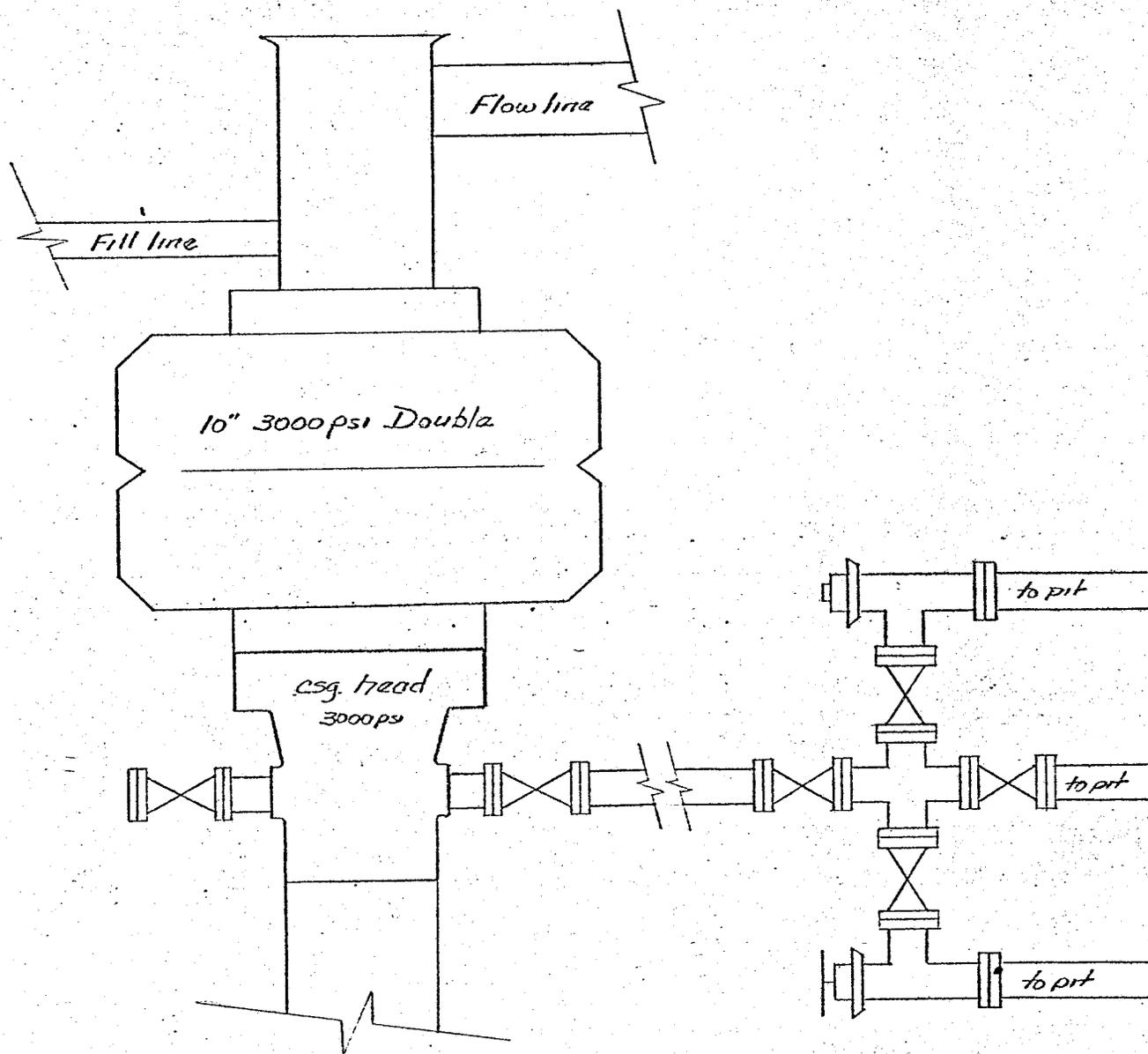
No abnormal pressures or temperatures are expected. None of the formations to be penetrated are expected to contain any hazardous gasses. Water flows are anticipated between the depths of 700' to 2300'.

9. Starting Date

The anticipated starting date is November 20, 1979. Approximately 30 days will be required to build roads and location and then drill the well to total depth. If commercial, completion operations will commence immediately and require an additional 15 days.

Schematic of Pressure Control Equipment

McCulloch Oil & Gas Corp.
Federal 20 No. 2
1980' FNL & 660' FWL
Section 20, T38S-R26E
San Juan County, Utah



McCULLOCH OIL & GAS CORPORATION

Multi-Point Surface Use and Operations Plan

WELL

Federal 20 No. 2

LOCATION

1980' FNL & 660' FWL
Section 20, T38S-R26E
San Juan County, Utah

Federal Lease Number U 40406

1. Existing Roads

The attached topographic map shows all existing roads within two 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 0.75 miles to the road turning right (north). This an old abandoned seismic road that has not been used in a number of years. It goes approximately 1.5 miles north to McCulloch's proposed Federal 20 Well No. 1, then on to the north 0.25 miles to the proposed location. The existing roads going to the proposed location are marked in green on the attached map. The last 1.75 miles to the location will utilize the old seismic road and is marked in orange on the 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 (Shown in orange)

An access road approximately 1.75 miles long and 20' wide will be necessary to connect the location with the existing road. The proposed roadway is over an old seismic road mentioned above. Drainage will run beside the road, with water bars used where necessary to prevent erosion. All surfacing material will be taken from the roadway. No turnouts will be required. No gates, cattleguards, or fences will be crossed. No major cuts or fills should be required.

3. Location of Existing Wells

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

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

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

5. Location and Type of Water Supply

Water for drilling will be trucked from the artesian well in Cross Canyon in Section 23, T38S-R26E approximately 4 road miles south and east of the location. This water source is located on federal lands.

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

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

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

There are no occupied dwellings in the area.

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

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

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

10-19-79



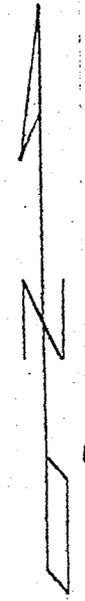
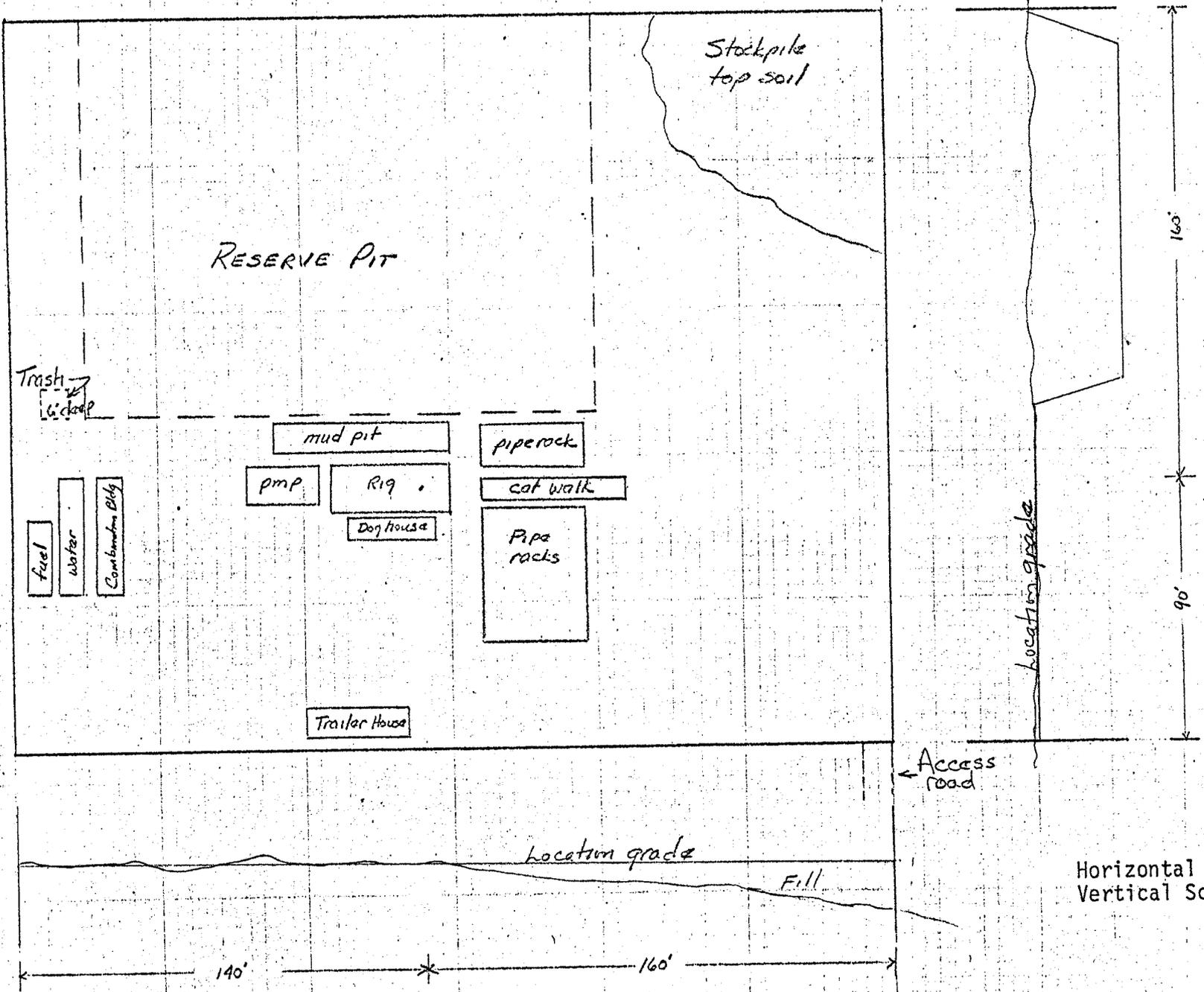
W.R. Lynn

(405) 840-3285

2-70

McCulloch Oil & Gas Corp.
Federal 20 No. 2
1980' FNL & 660' FWL
Section 20, T38S-R26E
San Juan County, Utah

WELL SITE LAYOUT



Horizontal Scale 1" = 50'
Vertical Scale 1" = 10'

** FILE NOTATIONS **

DATE: October 25, 1979

Operator: Mc Culloch Oil & Gas Corporation

Well No: Federal 20-2

Location: Sec. 20 T. 38S R. 26E County: San Juan

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number 43-037-30514

CHECKED BY:

Geological Engineer: _____

Petroleum Engineer: _____

Director: OK F

APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. _____

O.K. Rule C-3

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

Lease Designation Red

Plotted on Map

Approval Letter Written
ltw

#1

kl
PI

November 1, 1979

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

Re: Well No. Federal 24-2, Sec. 24, T. 38S, R. 25E., San Juan County, Utah
Well No. Federal 19-3, Sec. 19, T. 38S, R. 26E., San Juan County, Utah
Well No. Federal 20-2, Sec. 20, T. 38S, R. 26E., San Juan County, Utah

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

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

MICHAEL T. MINDER
Geological Engineer
Office: 533-5771
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API numbers assigned to these wells are #24-2 - 43-037-30512;
#19-3 - 43-037-30513; #20-2 - 43-037-30514.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder
Geological Engineer

/b:tm

cc: USGS

November 6, 1979

MEMORANDUM

TO: File

FROM: Michael T. Minder *M.T.M.*
Geological Engineer
Division of Oil, Gas
and Mining

Re: McCulloch Oil and Gas
Well No. Federal 20-2
Sec. 20, T. 38S, R. 26E.,
San Juan County, Utah

A road has been constructed into this well site, which was recently graded off. The pits have also been excavated.

Everything appears to be ready for their rig, but no equipment is on the site at this time. The site is stable and there are no signs of erosion.

After speaking to their company man at their Federal 19-2 well, it is likely that they will move on to this site next week.

cc: USGS - Durango

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 Nw 63rd St. 250-E Okla. City, OK 73116

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2100' FNL & 540' FWL of section
AT TOP PROD. INTERVAL: Same as above
AT TOTAL DEPTH: Same as above **SW NW**

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

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

5. LEASE
U 40406

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal 20

9. WELL NO.
2

10. FIELD OR WILDCAT NAME
Undesignated

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 20, T38S-R26E

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

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5101 GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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

In order to avoid an archeological site it is necessary to move the proposed location 120' south and 120' west of the original location, which was staked at 1980' FNL & 660' FWL of the Section 20, T38S-R26E. The new location will be 2100' FNL & 540' FWL of Section 20, T38S-R26E.

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: Nov. 20, 1979

BY: Frank M. Hammett

30514

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

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

SIGNED W.R. Lynn TITLE Dist. Drlg. Engr. DATE November 15, 1979

(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

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 Corp.

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

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2100' FNL & 540' FWL of Section
AT TOP PROD. INTERVAL: Same as above
AT TOTAL DEPTH: Same as above

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

5. LEASE U 40406

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal 20

9. WELL NO.
2

10. FIELD OR WILDCAT NAME
Undesignated

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 20, T38S-R26E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.
43-037-30514

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5101 GR

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

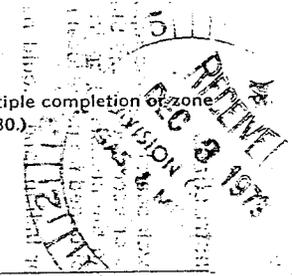
MULTIPLE COMPLETE

CHANGE ZONES

ABANDON*

(other) Change plans (Casing Program)

(NOTE: Report results of multiple completion or zone change on Form 9-330.)



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

Please be advised of McCulloch's intention to change the proposed casing program of the subject well. We now plan to set new 8 5/8" surface casing at 600' and cement it back to surface with 600 sacks of Class "B" cement containing 2% CaCl₂. If water flows are encountered below the surface casing depth, the 4 1/2" production casing will be cemented in two stages to isolate the water flows.

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: Dec. 3, 1979

BY: Frank M. Hannel

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

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

SIGNED [Signature] TITLE Dist. Drlg Engr DATE November 30, 1979

R. Lynn

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: McCulloch Oil and Gas

WELL NAME: Federal #20-2

SECTION 20 SW NW TOWNSHIP 38S RANGE 26E COUNTY San Juan

DRILLING CONTRACTOR Brinkerhoff Signal

RIG # 67

SPUDDED: DATE 12/6/79

TIME a/m/

HOW rotary

DRILLING WILL COMMENCE ASAP

REPORTED BY _____

TELEPHONE # _____

DATE December 12, 1979

SIGNED W. J. Menden

cc: USGS

DIVISION OF OIL, GAS AND MINING

PLUGGING PROGRAM

NAME OF COMPANY: Mc Culloch Oil and Gas (Dick Lynn 405-840-3285)

WELL NAME: Federal #20-2

SECTION 20 SW NW TOWNSHIP 38S RANGE 26E COUNTY San Juan

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

TOTAL DEPTH: 5680'

CASING PROGRAM:

8 5/8" @ 530'
7 7/8" openhole TD

FORMATION TOPS:

Carmel	704'	Upper Hermosa	4187'
Navajo	730'	Paradox	5190'
Wingate	1080'	Upper Ismay	5393'
Chinle	1478'	Lower Ismay	5511'
Shinarump	2285'	Desert Creek	5573'
water at	2800'	Chimney Rock	5654'
C		Akah	5673'

PLUGS SET AS FOLLOWS:

#1	5443' - 5343'	50 sx
#2	4237' - 4137'	50 sx
#3	3350' - 3250'	50 sx
#4	2418' - 2318'	50 sx
#5	1528' - 1428'	50 sx
#6	780' - 680'	50 sx
#7	580' - 480'	50 sx

#8 30' - surface 10 sx

Use 11.1# abandonment mud between plugs;
clean and grade site; erect regulation
dryhole marker.

DATE January 10, 1980 4:00 p.m.

SIGNED M. J. Minder

cc: USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other Dryhole

2. NAME OF OPERATOR
McCulloch Oil & Gas Corporation

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

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2100' FNL & 540' FWL of Section
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

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

5. LEASE	U 40406
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME	Federal 20
9. WELL NO.	2
10. FIELD OR WILDCAT NAME	Undesignated
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	Section 20, T38S-R26E
12. COUNTY OR PARISH	San Juan
13. STATE	Utah
14. API NO.	43-037-30514
15. ELEVATIONS (SHOW DF, KDB, AND WD)	GL 5101'; KB 5113'

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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

The subject well was spudded 12-6-79, 8 5/8" csg was set and cemented at 530', and a 7 7/8" hole was drilled to 5680' (total depth). Total depth was reached 1-7-80. The following procedure is proposed to plug and abandon the well.

1. Set cement plugs as follows:

a. 50 sx from 5343 to 5443'	e. 50 sx from 1428 to 1528'
b. 50 sx from 4137 to 4237'	f. 50 sx from 680 to 780'
c. 35 sx from 3250 to 3350'	g. 50 sx from 480 to 580'
d. 50 sx from 2318 to 2418'	h. 30 sx from 0 to 30'
2. Weld on steel cap and erect dry hole marker.
3. Clear and restore location.

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: 1-18-80

BY: *W.S. Muir*

Set @ _____ Ft.

Subsurface Safety Valve: Manu. and Type _____

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

SIGNED *W.R. Lynn* TITLE Dist. Drlg. Engr. DATE 1-11-80

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

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DIVISION OF
OIL, GAS & MINING

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 dryhole

2. NAME OF OPERATOR
McCulloch Oil & Gas Corporation

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

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2100' FNL & 540' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
U 40406

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal 20

9. WELL NO.
2

10. FIELD OR WILDCAT NAME
Undesignated

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 20, T38S-R26E

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

14. API NO.
43-037-30514

15. ELEVATIONS (SHOW DF, KDB, AND WD)
GR 5101' ; KB 5113'

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

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

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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

1-12-80: Loaded hole with 11.1 ppg 43 Vis mud and spotted cement plugs as follows:

- | | |
|-----------------------------|-----------------------------|
| 1. 50 sx from 5343 to 5443' | 5. 50 sx from 1428 to 1528' |
| 2. 50 sx from 4137 to 4237' | 6. 50 sx from 680 to 780' |
| 3. 35 sx from 3250 to 3350' | 7. 50 sx from 480 to 580' |
| 4. 50 sx from 2318 to 2418' | 8. 10 sx from 0 to 30' |

Welded on steel cap and erected a dryhole marker. Restoration of the location and reserve pit will be completed as soon as weather conditions permit.

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

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

SIGNED W.R. Lynn TITLE Dist. Drlg. Engr. DATE 2-12-80

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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FEB 14 1980

DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.0

5

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 Abandoned

2. NAME OF OPERATOR
McCulloch Oil & Gas Corporation

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 2100' FNL & 540' FWL, C SW NW

At top prod. interval reported below
At total depth
Drlg Contractor:
Brinkerhoff-Signal

14. PERMIT NO. 43-037-30514 | DATE ISSUED 11-26-79

5. LEASE DESIGNATION AND SERIAL NO.

U-40406

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal 20

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Undesignated

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

Section 20, T38S-R26E

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

15. DATE SPUDDED 12-6-79 | 16. DATE T.D. REACHED 1-7-80 | 17. DATE COMPL. (Ready to prod.) 1-12-80 P&A | 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* KB 5113' ; GR 5101' | 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 5672' | 21. PLUG, BACK T.D., MD & TVD Surface | 22. IF MULTIPLE COMPL., HOW MANY* | 23. INTERVALS DRILLED BY | ROTARY TOOLS 0-5672' | 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 DIL, CNL-FDC-GR, GR-Sonic | 27. WAS WELL CORED Yes

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

CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24	530	12 1/4	200 sx Light+ 200 sx C1 'B'	none

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

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

DATE OF TEST	HOURS TESTED	CHOKES 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.	GRAVITY (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
TEST WITNESSED BY
FEB 14 1980

35. LIST OF ATTACHMENTS
Drilling log, Open hole logs (DIL, CNL-FDC, Gr-Sonic)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.
SIGNED W.R. Lynn TITLE Dist. Drlg. Engr. DATE 2-12-80



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

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 33, 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 33.

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

FORMATION	TOP		DESCRIPTION, CONTENTS, ETC.	BOTTOM		GEOLOGIC MARKERS		
	DEPTH	ELEVATION		DEPTH	ELEVATION	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Cutler	2825		Water Flow	2855		Entrada	532	
U. Ismay	5379		Core No. 1	5439		Carmel	704	
U. Ismay	5439		Core No. 2	5499		Navajo	730	
U. Ismay	5499		Core No. 3	5558		Wingate	1074	
Desert Creek	5628		Core No. 4	5680		Chinle	1332	
Paradox	5240		DST #1: 15 min IFP 41-41 psi; 30 min ISIP 55 psi; 30 min FFP 41-41 psi; 60 min FSIP 41 psi. BHT 1150 F. Rec 10' drlg mud.	5300		Cutler	2446	
						U. Hermosa	4184	
						Paradox	5178	
						U. Ismay	5392	
						L. Ismay	5510	
						Desert Creek	5574	
						Total Depth	5672	

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: Federal 20 No. 2
Operator: McCulloch Oil & Gas Corp. Address: 3033 N.W. 63rd St. Oklahoma City, Oklahoma 73116
Contractor: Brinkerhoff-Signal Address: Farmington, New Mexico
Location SW 1/4 NW 1/4; Sec. 20 T. 38 S, R. 26 E; San Juan County.
S xx

Water Sands:

From-	Depth:		Volume: Flow Rate or Head	Quality: Fresh or Salty
	To-			
1.	2875	2855	Estimate 3 GPM	Salty
2.				
3.				
4.				
5.				

(Continue on Reverse Side if Necessary)

Formation Tops:

Entrada	532	Chinle	1332	U. Ismay	5392
Carmel	704	Cutler	2446	L. Ismay	5510
Navajo	730	U. Hermosa	4184	Desert Creek	5574
Wingate	1074	Paradox	5178		

Remarks:

- 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.



FEB 14 1980

DRILLING RECORD

WELL NAME Federal #2-20 LOCATION 2100' FNL & 540' FWL, Sec. 20, T38S-R26E
 DRILL BLOCK & PROSPECT Squaw Canyon COUNTY San Juan STATE Utah
 CONTRACTOR: _____ FIELD Wildcat
 SPUD DATE: 12-6-79 PROJECTED TD: 5700'
 ELEVATIONS: _____ OBJECTIVE Upper Ismay-Desert Creek
 WORKING INTEREST _____ PARTNERS & PERCENTAGE _____

SAN JUAN COUNTY
Federal #2-20 (MOG) TITE HOLE
DB 78/79 ? Squaw Canyon Pros

12-7: UTAH
 NEW LOCATION: 2100' FNL & 540' FWL, Sec. 20, T38S-R26E, San Juan County, Utah. 5700' Upper Ismay-Desert Creek test. Spudded 12½" hole @ 12:01 AM 12-6-79. Depth 195' (183'), Trip for bit, sd & boulders, MW spud mud.

SAN JUAN COUNTY
Federal #2-20 (MOG) TITE HOLE
DB 78/79 ? Squaw Canyon Pros

12-8: UTAH
 Depth 397' (202'), Tripping, sd, anhy, MW wtr.
 12-9: Depth 531' (134'), Running 8 5/8" csg, 1m, sd, anhy, MW 9.2#, Vis 35.

SAN JUAN COUNTY
Federal #2-20 (MOG) TITE HOLE
DB 78/79 ? Squaw Canyon Pros

12-10: UTAH
 Drlg 657' (126'), sd, sh, anhy, MW wtr. Ran 12 jts 542.62' 8 5/8" 24# K-55 ST&C csg set @ 530'. Cmt'd csg w/200 sx Light, 2% CaCl₂ followed by 200 sx Class "B", 2% CaCl₂. Cmt. circ.

SAN JUAN COUNTY
Federal #2-20 (MOG) TITE HOLE
DB 78/79 ? Squaw Canyon Pros

12-11: UTAH
 Drlg 1483' (826'), sd, sh, anhy, MW 9.0#, Vis 31

SAN JUAN COUNTY
Federal #2-20 (MOG) TITE HOLE
DB 78/79 ? Squaw Canyon Pros

12-12: UTAH
 Drlg 1747' (264'), sd, 1m, anhy, MW 9.0#, Vis 30.
 Costs to date:

	D.H.	Comp.	Total
AFE:	\$350,000	- - -	\$350,000
Actual:	88,818	- - -	88,818

SAN JUAN COUNTY
Federal #2-20 (MOG) TITE HOLE
DB 78/79 ? Squaw Canyon Pros

12-13: UTAH
 Drlg 2010' (263'), sh, 1m, anhy, MW 9.0#, Vis 34.

SAN JUAN COUNTY
Federal #2-20 (MOG) TITE HOLE
DB 78/79 ? Squaw Canyon Pros

12-14: UTAH
 Drlg 2314' (304'), sh, 1m, anhy, MW 9.0#, Vis 36
 12-15: Drlg 2526' (212'), sh, sd, anhy, MW 9.0#, Vis 36
 12-16: Drlg 2775' (249'), 1m, sh, anhy, MW 9.0#, Vis 36

SAN JUAN COUNTY
Federal #2-20 (MOG) TITE HOLE
DB 78/79 ? Squaw Canyon Pros

12-17: UTAH
 Drlg 2875' (100'), 1m, anhy, sd, MW 10.8#, Vis 40.

SAN JUAN COUNTY
Federal #2-20 (MOG) TITE HOLE
DB 78/79 ? Squaw Canyon Pros

12-18: UTAH
 Drlg 3039' (164'), sh, 1m, anhy, MW 11.0#, Vis 40.

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SAN JUAN COUNTY
Federal #2-20 (MOG) TITE HOLE
DB 78/79 ? Squaw Canyon Pros

UTAH
12-19: Drlg 3195' (156'), 1m, sd, anhy, MW 11.0#,
Vis 39.
Costs to date:

	D.H.	Comp.	Total
AFE:	\$350,000	- -	\$350,000
Actual:	145,239	- -	145,239

SAN JUAN COUNTY
Federal #2-20 (MOG) TITE HOLE
DB 78/79 ? Squaw Canyon Pros

UTAH
12-20: Drlg 3395' (200'), 1m, sh, anhy, MW 11.1#, Vis 40.

SAN JUAN COUNTY
Federal #2-20 (MOG) TITE HOLE
DB 78/79 ? Squaw Canyon Pros

UTAH
12-21: Drlg 3617' (222'), 1m, sh, anhy, MW 10.9#, Vis 40.
12-22: Drlg 3795' (178'), 1m, sh, anhy, MW 11.0#, Vis 40.
12-23: Drlg 3956' (161'), 1m, sh, anhy, MW 11.0#, Vis 42.
12-24: Drlg 4185' (229'), 1m, sh, anhy, MW 11.0#, Vis 43.
12-25: Drlg 4355' (170'), 1m, sh, anhy, MW 11.1#, Vis 42. Had slight show in Hermosa zone 4310-4320', dull fluor, no cut.

SAN JUAN COUNTY
Federal #2-20 (MOG) TITE HOLE
DB 78/79 ? Squaw Canyon Pros

UTAH
12-26: Drlg 4495' (140'), 1m, sh, MW 11.0#, Vis 40.
Costs to date:

	D.H.	Comp.	Total
AFE:	\$350,000	- -	\$350,000
Actual	195,033	- -	195,033

SAN JUAN COUNTY
Federal #2-20 (MOG) TITE HOLE
DB 78/79 ? Squaw Canyon Pros

UTAH
12-27: TTH @4633', (138'), Sh, Lm, MW 11.1#, Vis 42.

SAN JUAN COUNTY
Federal #2-20 (MOG) TITE HOLE
DB 78/79 ? Squaw Canyon Pros

UTAH
12-28: Drlg 4746' (113'), sd, 1m, MW 11.1#, Vis 42.
12-29: Drlg 4894' (148'), 1m, sd, MW 11.0#, Vis 42.
12-30: Drlg 5040' (146'), sh, 1m, MW 11.0#, Vis 40.

SAN JUAN COUNTY
Federal #2-20 (MOG) TITE HOLE
DB 78/79 ? Squaw Canyon Pros

UTAH
12-31: Drlg 5161' (121'), 1m, sh, MW 10.8#, Vis 43.
1-1: Drlg 5262' (101'), 1m, sh, sd, MW 11.0#, Vis 41.

SAN JUAN COUNTY
Federal #2-20 (MOG) TITE HOLE
DB 78/79 d-C-15 & 79 d-YE-1
Squaw Canyon Pros

UTAH
1-2: Depth 5379' (117'), Waiting on core head, 1m, sh, MW 11.1#, Vis 40.
Costs to date:

	D.H.	Comp.	Total
AFE:	\$350,000	- -	\$350,000
Actual:	269,124	- -	269,124

SAN JUAN COUNTY
Federal #2-20 (MOG) TITE HOLE
DB 78/79 d-C-15 & 79 d-YE-1
Squaw Canyon Pros

UTAH
1-3: Depth 5421' (42'), Coring, sh, anhy, MW 11.1#, Vis 43.

SAN JUAN COUNTY
Federal #2-20 (MOG) TITE HOLE
DB 78/79 d-C-15 & 79 d-YE-1
Squaw Canyon Pros

UTAH
1-4: Depth 5474' (53'), Coring, sh, anhy, MW 11.1#, Vis 40. Started cutting Core #2 @ 5439'.
1-5: Depth 5534' (60'), Coring, MW 11.0#, Vis 40. Core #2 5439-5499'-bottom 7' had oil show. Started cutting Core #3 @ 5499'.
Drlg 5622' (88'), 1m, sh, anhy, MW 11.0#, Vis 40. Core #3 5499-5558'-no shows. Rec 59'.

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DIVISION OF OIL, GAS & MINING

SAN JUAN COUNTY
Federal #2-20 (MOG) TITE HOLE
DB 78/79 d-C-15 & 79 d-YE-1
Squaw Canyon Pros

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Squaw Canyon Pros

SAN JUAN COUNTY
Federal #2-20 (MOG) TITE HOLE
DB 78/79 d-C-15 & 79 d-YE-1
Squaw Canyon Pros

UTAH
1-7: Depth 5672' (50'), Coring, sh, 1m, MW 11.0#, Vis 38. Start cutting Core #4 @ 5628'.
1-8: Depth 5680' (8'), Running logs, 1m, sh, MW 11.0#, Vis 45. Core #4 5628-5680'; Desert Creek from 5642-49'. Some bleeding oil-tite. Schlum has run DIL & CNL-FDC logs. Now running GR-Sonic. Will also run a dipmeter.

UTAH
1-9: Depth 5672', Fin running open hole logs. Ran GR-Sonic & dipmeter. Prep to run DST #1 5240 to 5300'.

UTAH
1-10: Depth 5672', Circ, WOO, MW 11.0#, Vis 38. Ran DST #1 from 5240 to 5300' (Paradox) 15 min initial flow opened w/weak blow & died; 30 min initial SI; 30 min final flow-no blow; 60 min final SI.

	Btm	Top
IH	3155	3149
IF	41-41	38-38
ISI	55	38
FF	41-41	38-38
FSI	41	38
FH	3128	3046

Rec 10' drlg mud, CI 3750.

Costs to date:

	D.H.	Comp.	Total
AFE:	\$350,000	- -	\$350,000
Actual:	347,907	- -	347,907

UTAH
1-11: Depth 5672', Circ prep to P&A. LD DC's & TIH open ended. Circ waiting on weather to clear.

UTAH
1-12: Set cmt plugs as follows: 50 sx from 5343-5443'; 50 sx from 4137-4237'; 35 sx from 3250-3350'; 50 sx from 2318-2418'; 50 sx from 1428-1528'; 50 sx from 680-780'; 50 sx from 480-580'; 10 sx from 0 - 30'. P&A. FINAL REPORT.