

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 1983' FSL & ~~1160'~~ 1118' FEL of Section 18, T37S-R26E  
 At proposed prod. zone  
 Same as above

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

5. LEASE DESIGNATION AND SERIAL NO.  
 U 12428

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 Patterson Federal 18

9. WELL NO.  
 1

10. FIELD AND POOL, OR WILDCAT  
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 Section 18, T37S-R26E

12. COUNTY OR PARISH    13. STATE  
 San Juan                      Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)

16. NO. OF ACRES IN LEASE  
 1000

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.  
 6255' *at*

19. PROPOSED DEPTH

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 6119' GR

22. APPROX. DATE WORK WILL START\*  
 May 1, 1980

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/2"	8 5/8"	24#	1800'	1000 sacks <i>circ to surf.</i>
7 7/8"	4 1/2"	10.5#	6255'	300 sacks

Additional information attached.

APPROVED BY THE DIVISION  
 OF OIL, GAS, AND MINING  
 DATE: 4-29-80  
 BY: M.S. Minder

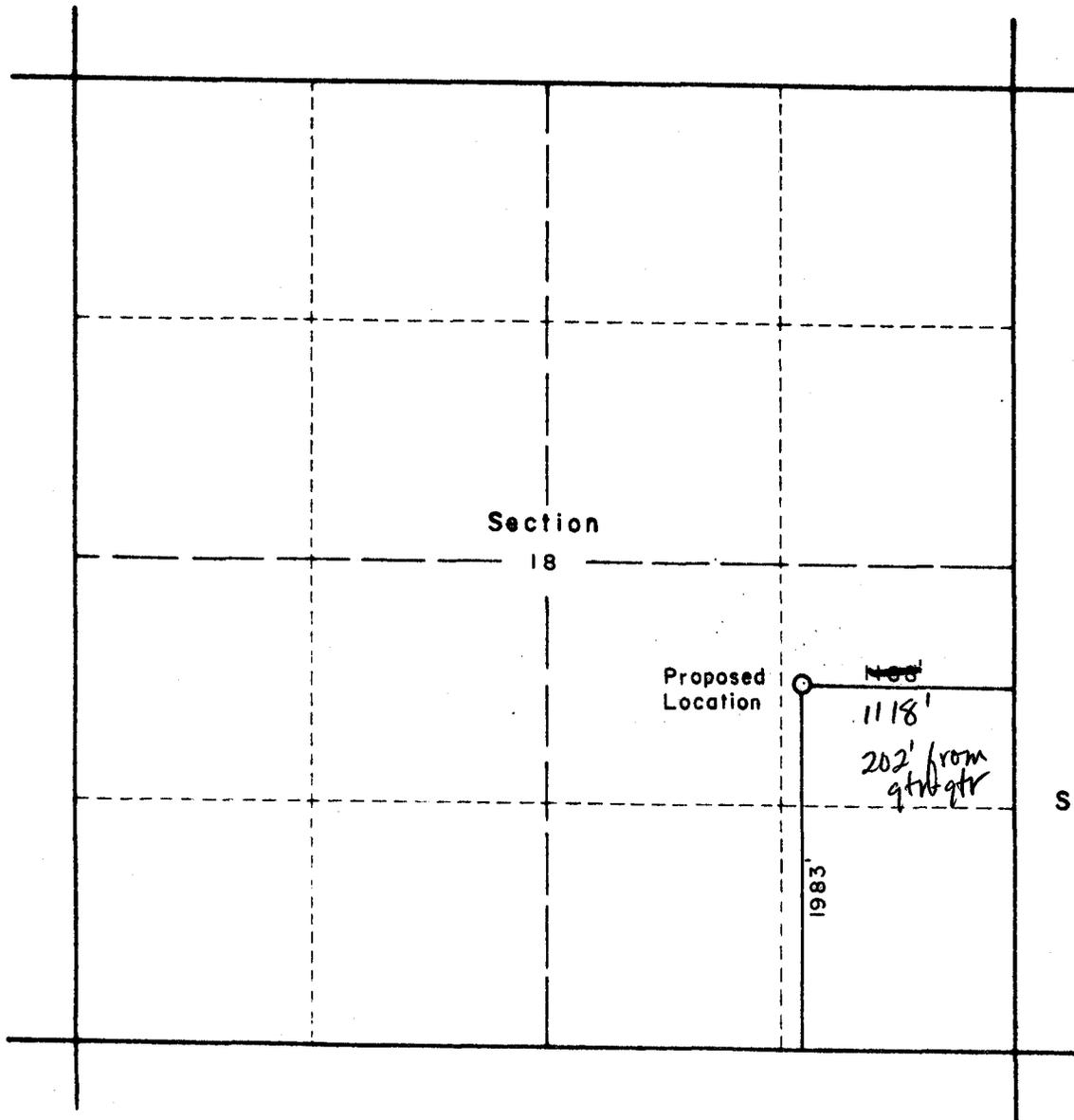
**RECEIVED**  
 APR 14 1980  
 DIVISION OF  
 OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED: W.R. Lynn TITLE: Dist. Drlg Engr DATE: 4-9-80  
 (This space for Federal or State office use)

PERMIT NO. 43-037-30552 APPROVAL DATE: 4/29/80

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



Scale: 1" = 1000'

**WELL LOCATION: McCULLOCH OIL & GAS PATTERSON FEDERAL NO. 1-18**

Located 1983 feet North of the South line and 1168 feet West of the East line of Section 18  
 Township 37 South Range 26 East Salt Lake Base & Meridian  
 San Juan County, Utah  
 Existing ground elevation determined at 6119 feet based on USGS Datum

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

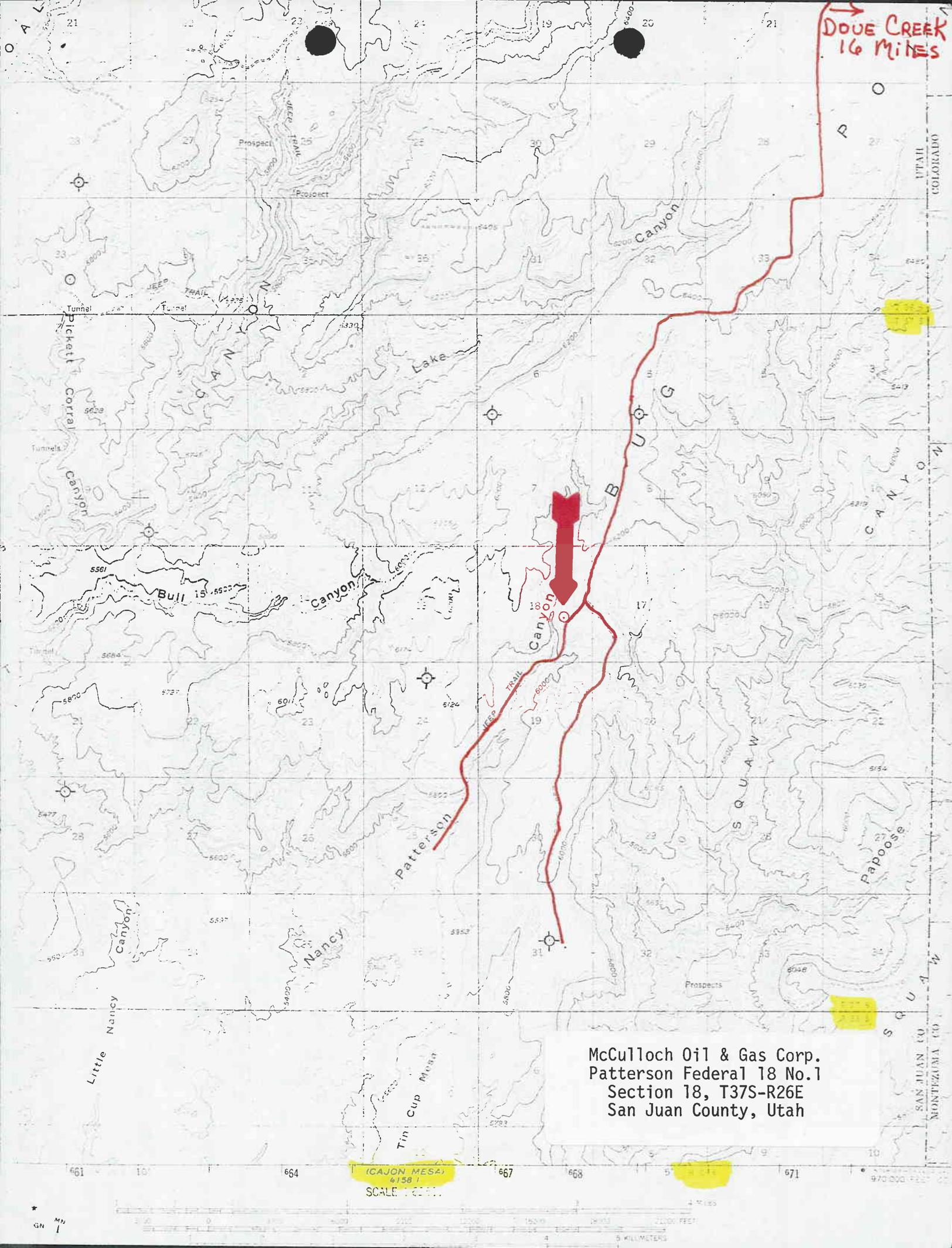
*Frederick H. Reed*

FREDERICK H. REED  
 Registered Land Surveyor



McCULLOCH OIL & GAS CORP. Oklahoma City, Oklahoma	
WELL LOCATION PLAT Patterson Federal No. 1-18 Sec. 18, T37S, R26E, SLM San Juan Co., Utah	
CLARK-NEED & ASSOC. Durango, Colorado	DATE: APRIL 7, 1980 FILE NO: 80016

DOVE CREEK  
16 MILES



McCulloch Oil & Gas Corp.  
Patterson Federal 18 No.1  
Section 18, T37S-R26E  
San Juan County, Utah

(CAJON MESA)  
6158.1  
SCALE 1:62,500



McCULLOCH OIL & GAS CORPORATION

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

WELL

Patterson Federal 18 No. 1

LOCATION

1983' FSL & 1168' FEL  
Section 18, T37S-R26E  
San Juan County, Utah

Federal Lease Number      U 12428

1. Geologic Name of Surface Formation

Morrison Sandstone

2. Estimated Tops of Important Geologic Markers

Jurassic	Curtis	800'
	Entrada	956'
	Carmel	1086'
Triassic	Navajo	1139'
	Kayenta	1454'
	Wingate	1464'
	Chinle	1789'
	Shinarump	2609'
	Moenkopi	2699'
Permian	Cutler	2739'
Penn.	U. Hermosa	4699'
	U. Ismay	5875'
	L. Ismay	6019'
	Desert Creek	6139'
	Akah	6230'
Total Depth		6255'

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

5875'	Oil and Gas
6195'	Oil and Gas

4. Proposed Casing and Cementing Program

Surface Casing: 8 5/8", 24 lb/ft, K-55, ST&C new casing to be set at 1800' and cemented to surface with 800 sacks Light cement followed by 200 sx Class 'B' cement, all containing 2% CaCl<sub>2</sub>.

Production Casing: 4 1/2", 10.5#/ft, K-55, ST&C new casing to be set at 6255' and cemented with 300 sacks 50:50 pozmix cement containing 10% salt and 0.75% CFR-2. If water flows are encountered in the upper formations, a two stage cementing operation will be performed. The first stage will be as outlined above and the second stage will consist of approximately 400 sacks of Lite cement followed by 100 sacks of Class "B" neat cement pumped through a cementing stage tool set 100' below the water flow.

5. Specifications for Pressure Control Equipment

The attached schematic drawings show the pressure control equipment to be used while drilling. All equipment is rated at 3000 psi. The blowout preventer will be tested to 1000 psi prior to drilling from under the surface casing by applying 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</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Water Loss</u>
0 - 1800'	Gel-lime	8.6 - 9.0	35-40	NC
1800 - 5500'	Low solids	8.6 - 9.0	28-30	NC - 15
5500 - TD	Gel-Chem	9.0 - 11.0	35-45	6 - 8

7. Logging, Coring, and Testing Program

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

Coring: The Upper Ismay interval from approximately 5875' to 5995' will be cored, and the Desert Creek interval from 6170 to 6230' will be cored.

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

8. Abnormal Pressures, Temperatures, or Potential Hazards

No abnormal pressures or temperatures are expected; however, the precautionary measures listed below will be taken immediately prior to and while drilling the Desert Creek formation.

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

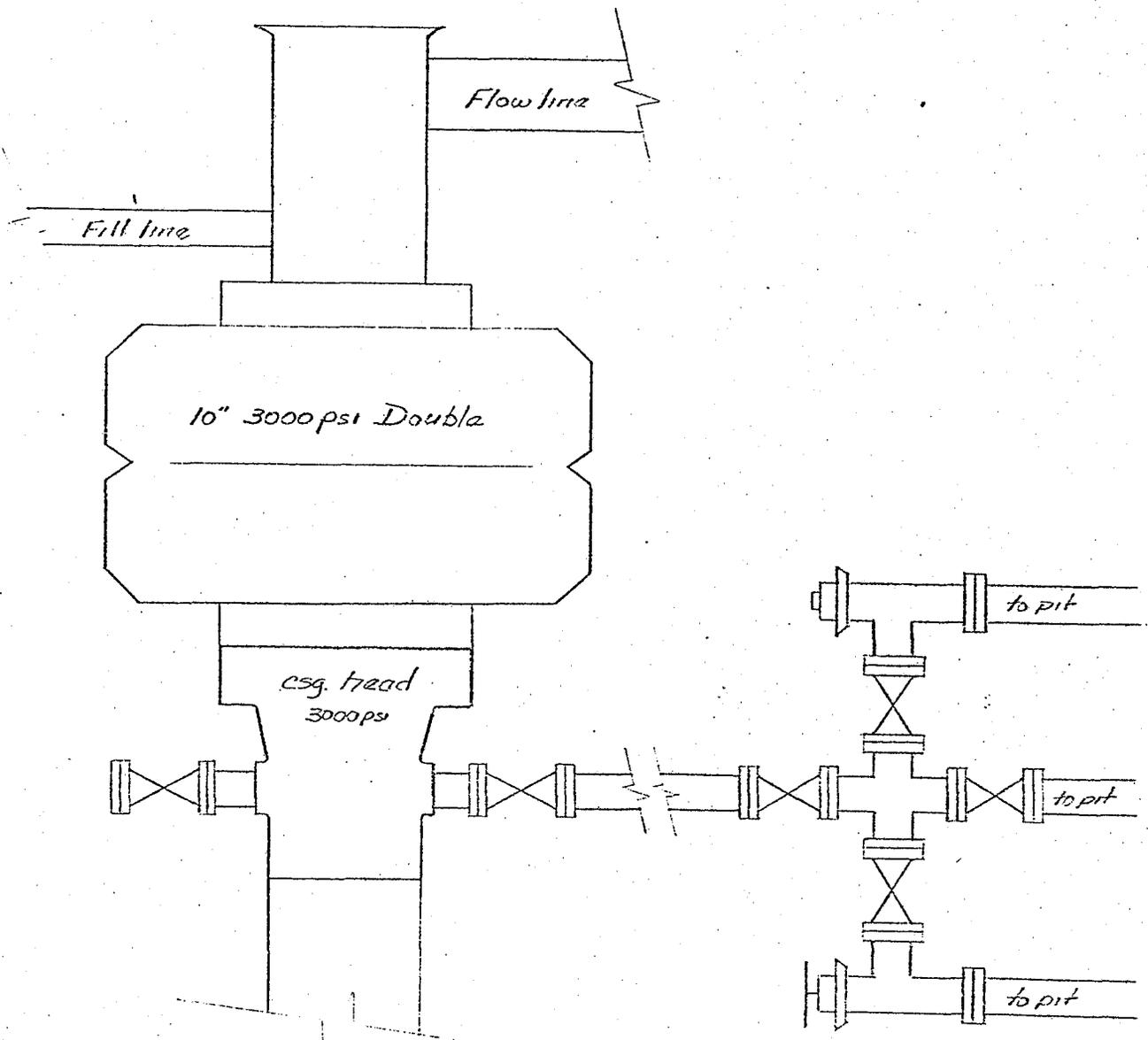
None of the formations to be penetrated are expected to contain any hazardous gasses.

9. Starting Date

The anticipated starting date is May 1, 1980. 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.  
Patterson Federal 18 No. 1  
Section 18, T37S-R26E  
San Juan County, Utah



McCULLOCH OIL & GAS CORPORATION

Multi-Point Surface Use and Operations Plan

WELL

Patterson Federal 18 No. 1

LOCATION

1983' FSL & 1168' FEL  
Section 18, T37S-R26E  
San Juan County, Utah

Federal Lease Number U 12428

1. Existing Roads (Shown in orange)

The attached topographic maps show all existing roads within three miles of the proposed location. To reach the proposed location go west of Dove Creek, Colorado, 1.5 miles; turn south, go 5 miles; turn west, go 3 miles; turn south, go 2.5 miles; turn west, go 1 mile; turn south, go 1 mile; turn west, go 2 miles; turn south, go 2 miles; turn west, go 0.25 miles; turn south, go 4.75 miles. These are all existing roads and are marked in orange on the attached maps.

Portions of 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

Only a minimum of new access road will be required since the location is immediately adjacent to the existing road. Any new road will be 16' wide. Drainage will run beside the road, with water bars used where necessary to prevent erosion. Maximum grade will be about 5%. No turnouts or culvert will be required. No gates, cattle guards, 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) within a two mile radius are shown and so labeled on the attached plat.

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 town of Dove Creek, Colorado, approximately 23 road miles north and east of the location.

6. Source of Construction Material

Any construction material required for roads or location will be excess material accumulated from building of such sites.

7. Method of Handling Waste Disposal

The location of the reserve and burn pit is shown on the attached drill site layout. All trash and burnable material will be burned in the burn pit when safety permits. All nonburnable material (drilling fluids, cuttings, chemicals) will be stored in the reserve pit and then buried when they have dried. Any oil produced while drilling will be trucked from the location prior to leaving pit to dry out. Pits will be completely fenced during drying time, and then back-filled with dirt prior to preparing the location for production or abandonment.

A portable chemical toilet will be supplied for human waste.

8. Ancillary Facilities

No ancillary facilities are planned.

9. Well Site Layout

The attached layout shows the drilling rig with all associated facilities. Cut and fill required is also indicated.

10. Plans for Restoration of Surface

Restoration of the well site and access road will begin within 90 days of well completion, weather permitting.

Should the well be abandoned, the drilling site will be reshaped to its approximate former contour. The access road will be plowed up and leveled. Both drill site and road will have any top soil replaced and will be reseeded when germination of seeds can take place.

Should the well be commercial, that portion of the location not needed for operation will be repaired as above. The portion of the location needed for daily production operations and the access road will be kept clean and in good repair.

In either case, cleanup of the site will include burning of any safely burnable material, filling of all pits, carrying away of all nonburnable material and any chemicals that cannot be safely buried, and the hauling off of any oil that may have accumulated on the pits while drilling.

11. Other Information

This location is on Bug Point at the beginning of Nancy Patterson Canyon. It is on a hillside sloping to the southwest. The soil is a sandy loam. Sparse vegetation consists mostly of sage brush and 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

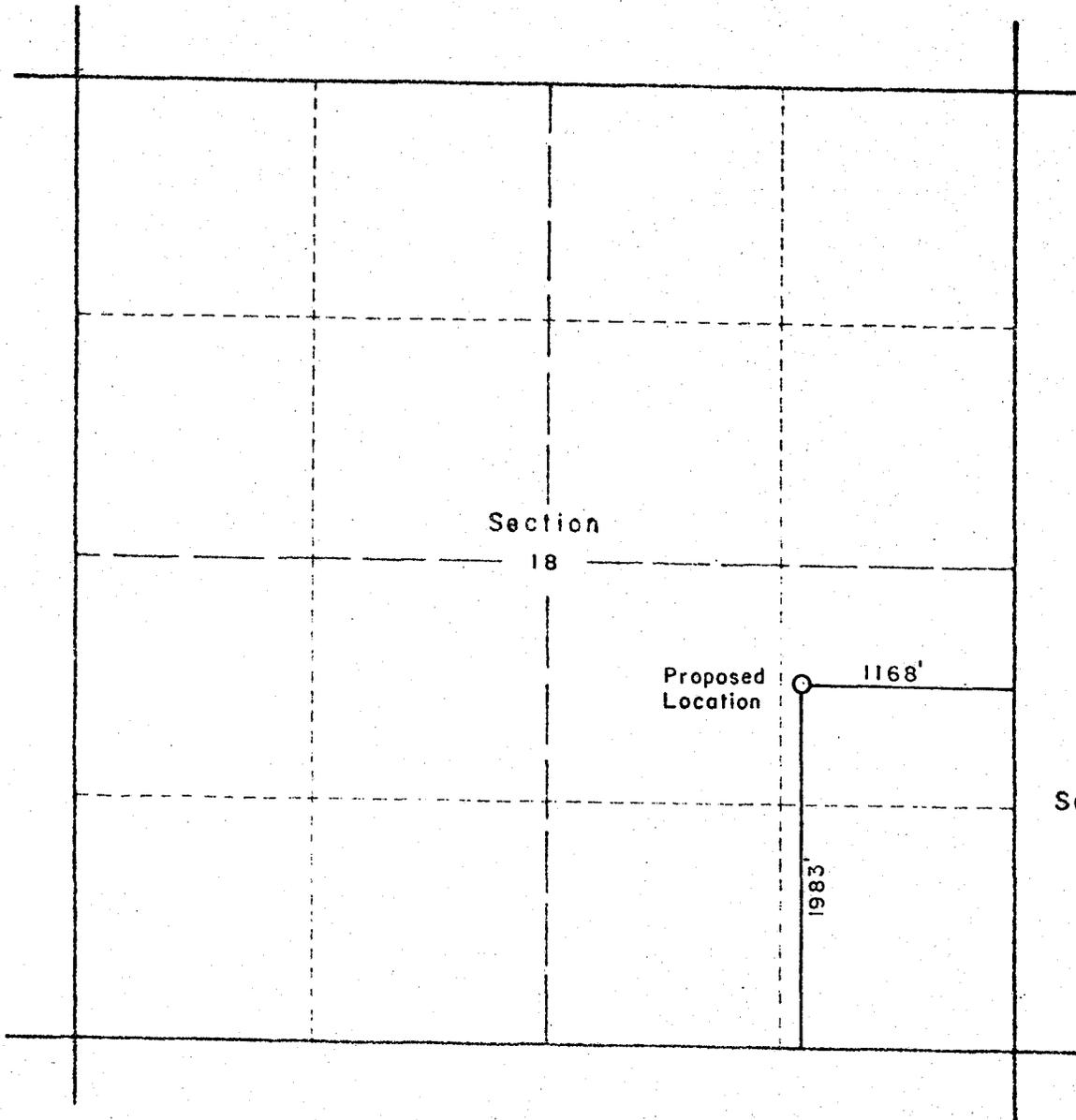
Oklahoma City, Oklahoma 73116

(405) 840-3285

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.

April 10, 1980

  
W.R. Lynt



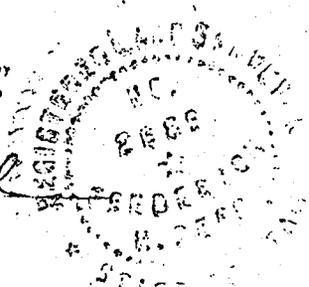
**WELL LOCATION: McCULLOCH OIL & GAS PATTERSON FEDERAL NO. 1-18**

Located 1983 feet North of the South line and 1168 feet West of the East line of Section 18  
 Township 37 South                      Range 26 East                      Salt Lake Base & Meridian  
 San Juan County, Utah  
 Existing ground elevation determined at 6119 feet based on USGS Datum

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

*Frederick H. Reed*

FREDERICK H. REED  
 Registered Land Surveyor

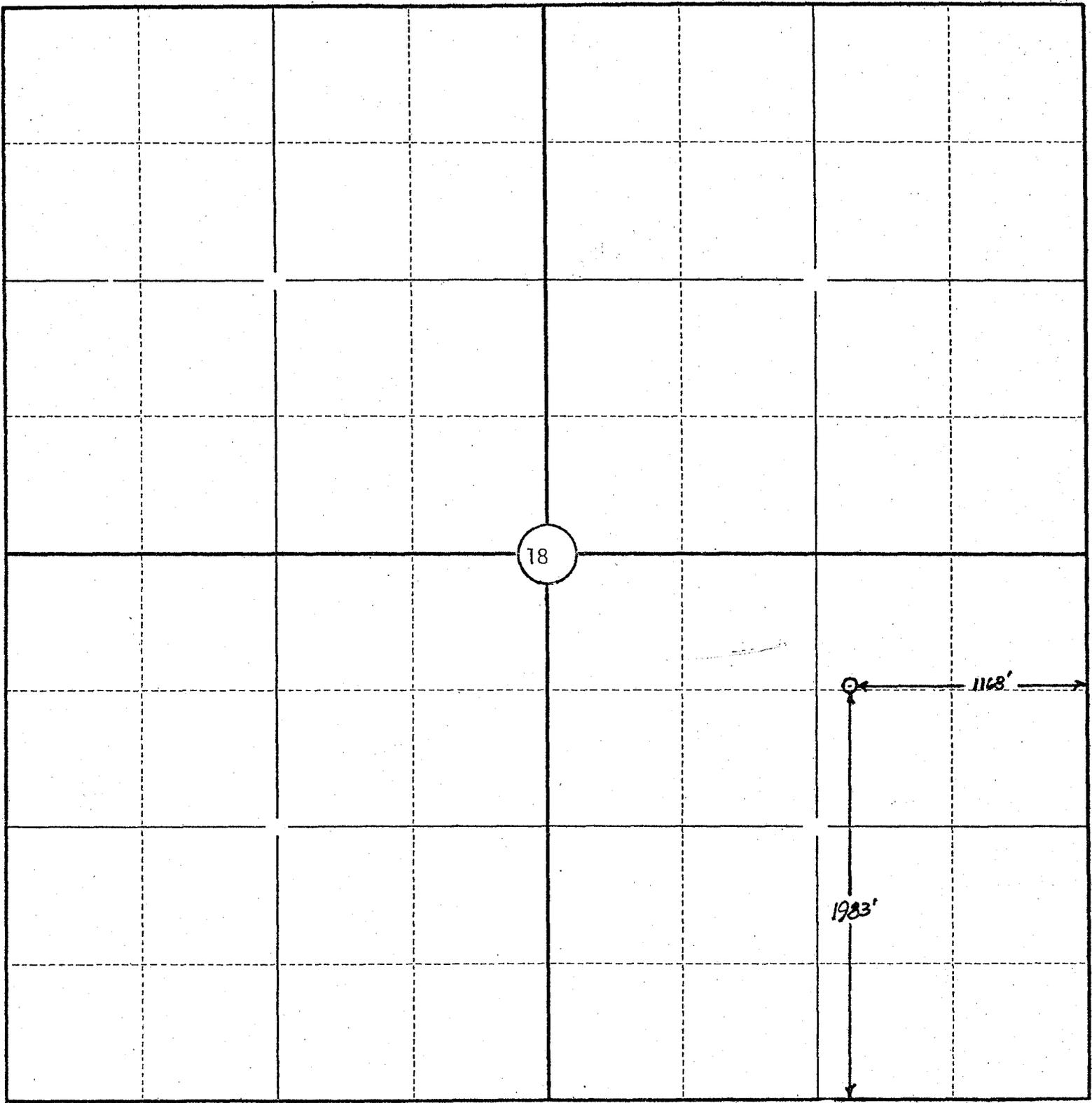


McCULLOCH OIL & GAS CORP.  
 Oklahoma City, Oklahoma

WELL LOCATION PLAT  
 Patterson Federal No. 1-18  
 Sec. 18, T 37 S, R 26 E, SLM  
 San Juan Co., Utah

CLARK-REED & ASSOC.                      DATE: APRIL 7, 1980  
 DURANGO, COLORADO

Township 37S Range 26E County San Juan State Utah

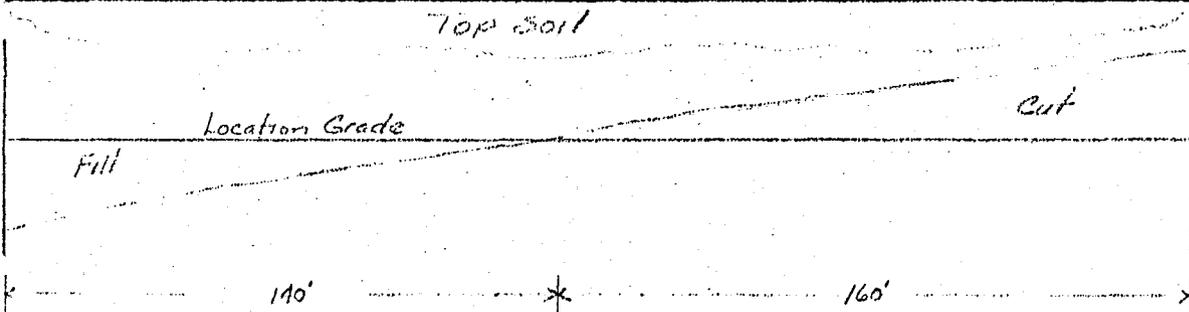
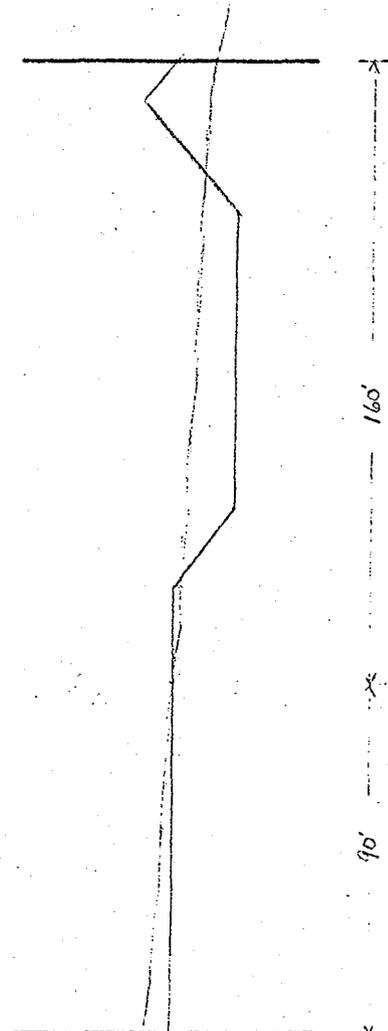
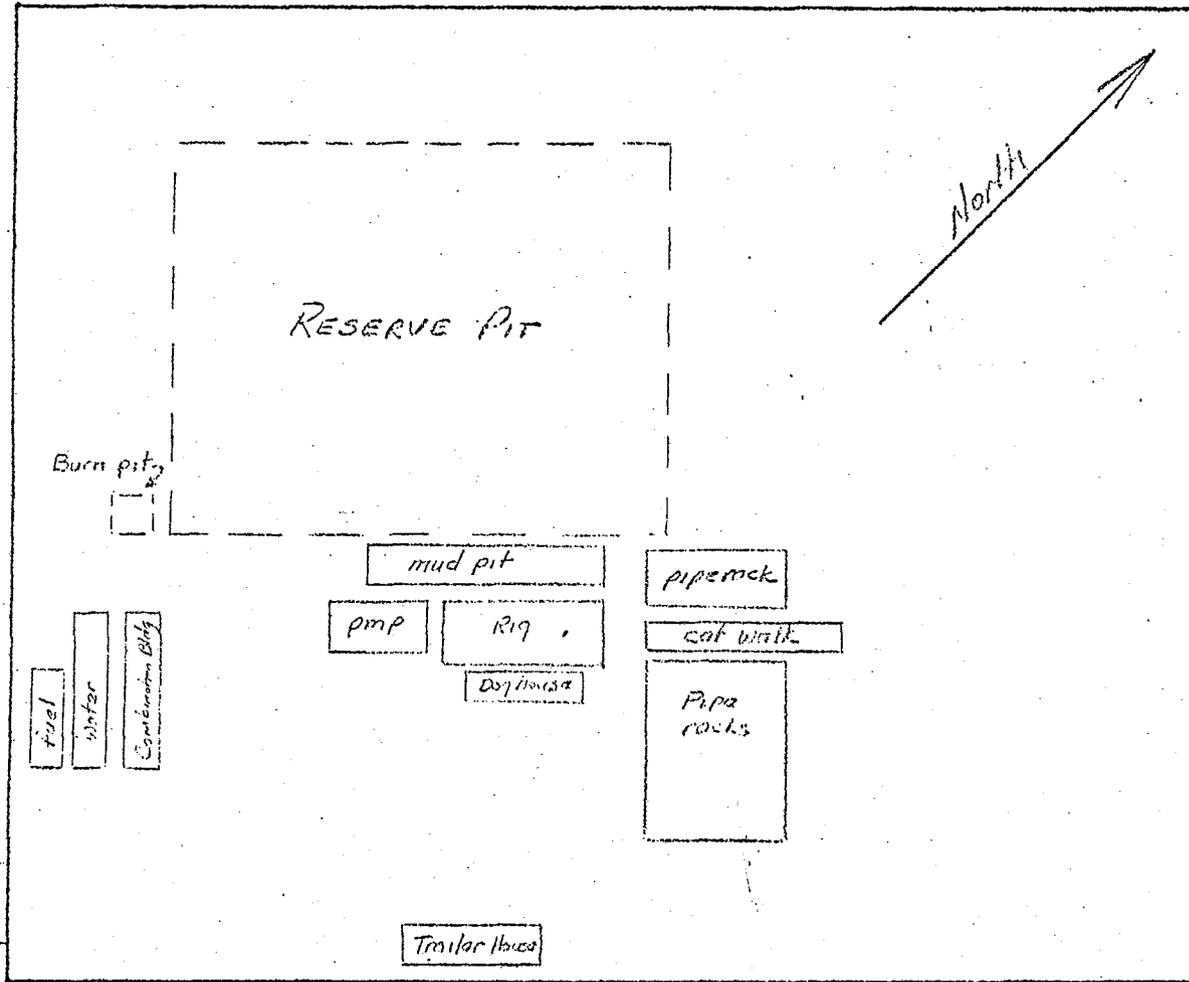


RILEY'S form #45

NOTE: A certified surveyors plat will be submitted as soon as possible.

McCulloch Oil & Gas Corp.  
Patterson Federal 18 No. 1  
Section 18, T37S-R26E  
San Juan County, Utah

McCulloch Oil & Gas Corp.  
 Patterson Federal 18 No. 1  
 Section 18, T37S-R26E  
 San Juan County, Utah



Horizontal scale: 1" = 50'  
 Vertical scale: 1" = 20'

\*\* FILE NOTATIONS \*\*

DATE: April 14, 1980

Operator: Mc Colloch Oil & Gas Corporation

Well No: Patterson Federal #18-1

Location: Sec. 18 T. 37S R. 26E County: San Juan

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number 43-037-30552

CHECKED BY:

Geological Engineer: Held for request of unorthodox location phone 4/23/80 <sup>Dean Boyett</sup>

Petroleum Engineer: M.S. Minder 4-29-80

Director: C-3: too close to qtr-qtr line

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 3rd

Plotted on Map

Approval Letter Written   
Wtm

#2

MC  
PI

**McCulloch Oil and Gas Corporation**



April 14, 1980

**RECEIVED**  
APR 17 1980

DIVISION OF  
OIL, GAS & MINING

Utah Division of Oil & Gas Conservation  
1588 West North Temple  
Salt Lake City, Utah 84116

Dear Sirs:

Attached are two copies of the certified location plat for McCulloch's Patterson Federal Well No. 1. Please attach these to the Form 9-331C, Application for Permit to Drill, that was submitted to your office April 9, 1980.

Yours very truly,

  
W.R. Lynn

WRL/dj  
Attach:

held for APD

Form 9-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U 12428

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Patterson Federal 18

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Section 18, T37S-R26E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
McCulloch Oil and Gas Corp. 450-840-3285

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.\* See also space 17 below.)  
At surface  
1983' FSL & 1118' FEL of Section 18, T37S-R26E,  
NE/4 of SE/4 of Section

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6719'GR

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

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

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

In order to reduce surface damage and facilitate the construction of the well site pad for the proposed well, it was necessary to move the location 50' east of the original location (1983' FSL & 1168' FEL of the section). The revised location is as described in Section 4 of this notice.

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING

DATE: 4-29-80

BY: M. J. Minder

RECEIVED  
APR 21 1980

DIVISION OF  
OIL, GAS & MINING

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

SIGNED W.R. Lynn TITLE Dist. Drlg Engr. DATE April 17, 1980

(This space for Federal or State office use)

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

\*See Instructions on Reverse Side

**McCulloch Oil and Gas Corporation**



**RECEIVED**  
APR 28 1980

DIVISION OF  
OIL, GAS & MINING  
April 24, 1980

Utah Division of Oil & Gas Conservation  
1588 West North Temple  
Salt Lake City, Utah 84116

Attn: Mr. Cleon B. Feight

Re: McCulloch Oil & Gas Corp.  
Patterson Federal 18 No. 1  
1983' FSL & 1168' FEL  
Section 18, T37S-R26E  
San Juan County, Utah

Dear Sir:

Please accept this letter as request for an unorthodox location for the subject well. This request is necessary because of geological and topographic conditions.

A seismic line was run across the proposed location and, in order to maintain maximum geological control, it is desirous to drill the proposed well on or at least very near this seismic line. Due to the terrain of the area, the proposed location is as near to the optimum location as possible.

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

Yours very truly,

*C.E. Boyett*

C.E. Boyett  
District Production Engineer

CEB/dj

April 30, 1980

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

Re: Well No. Patterson Federal #18-1  
Sec. 18, T. 37S, R. 26E.,  
San Juan County, Utah,

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

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

MICHAEL T. MINDER - Petroleum 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 number assigned to this well is 43-037-30552.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder  
Petroleum Engineer

/b:tm

cc: USGS

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U 12428

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Dry Hole		7. UNIT AGREEMENT NAME	
2. NAME OF OPERATOR McCulloch Oil & Gas Corporation		8. FARM OR LEASE NAME Patterson Federal	
3. ADDRESS OF OPERATOR 3033 N.W. 63rd St.; Ste 250-E, Okla. City, Okla. 73116		9. WELL NO. 1-18	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1983' FSL & 1118' FEL of section.		10. FIELD AND POOL, OR WILDCAT Wildcat	
14. PERMIT NO.		15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6119' GR, 6131' KB	
		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 type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

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

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

The following procedure was used to plug the subject well:

1. Loaded hole with 12 ppg 45 viscosity mud.
2. Pumped the following cement plugs thru drill pipe.
  - a. Plug #1 - 34 sks regular neat from 6150 to 6050'.
  - b. Plug #2 - 45 sks regular neat from 5875 to 5775'.
  - c. Plug #3 - 45 sks regular neat from 4590 to 4490'.
  - d. Plug #4 - 55 sks regular neat from 3770 to 3670'.
  - e. Plug #5 - 55 sks regular neat from 2910 to 2810'.
  - f. Plug #6 - 65 sks regular neat from 1925 to 1775'.
  - g. Plug #7 - 15 sks regular neat from 50' to surface.
3. Welded on steel plate with dry hole marker.
4. Preparing to move in equipment to clean and restore location.

P & A 5-30-80

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

SIGNED J. D. Rawdon TITLE District Manager DATE June 5, 1980

(This space for Federal or State office use)

APPROVED BY E. W. Guynn FOR TITLE District Oil & Gas Supervisor DATE JAN 07 1982

CONDITIONS OF APPROVAL, IF ANY:

OFFICE COPY

\*See Instructions on Reverse Side

UTAH STATE OIL & GAS

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIP NOTE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U 12428

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Patterson Federal

9. WELL NO.

1-18

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Section 18, T37S-R26E

12. COUNTY OR PARISH 13. STATE

San Juan Utah

SUNDRY NOTICES AND REPORTS ON WELLS

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

1.

OIL WELL  GAS WELL  OTHER  Dry Hole

2. NAME OF OPERATOR

McCulloch Oil & Gas Corporation

3. ADDRESS OF OPERATOR

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)

At surface 1983' FSL & 1118' FEL of section

14. PERMIT NO.

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

6119' GR, 6131' KB

16.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(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.)\*

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

1. Load hole with 12 ppg 45 viscosity mud.
2. Set cement plugs as follows:
  - a. 6150-6050' (Desert Creek Top 6139')
  - b. 5875-5775' (Upper Ismay Top 5875')
  - c. 4590-4490' (Upper Hermosa Top 4699')
  - d. 3770-3670'
  - e. 2910-2810' (Cutler Top 2736')
  - f. 1925-1775' (Surface casing set at 1823')
  - g. 50' to surface.
3. Weld on steel plate and install dry hole marker.
4. Clean and restore location.

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING

DATE: 6-17-80

BY: M. J. Minder

**RECEIVED**  
JUN 6 1980

DIVISION OF  
OIL, GAS & MINING

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

SIGNED

J. D. Rawdon  
J. D. Rawdon

TITLE

District Manager

DATE

June 4, 1980

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

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

9

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

b. TYPE OF COMPLETION:  
NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other \_\_\_\_\_

2. NAME OF OPERATOR  
McCulloch Oil & Gas Corporation

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 1983' FSL & 1118' FEL of section NE SE  
At top prod. interval reported below  
At total depth

14. PERMIT NO. 43-037-30552 DATE ISSUED \_\_\_\_\_

5. LEASE DESIGNATION AND SERIAL NO.

U 12428

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Patterson Federal

9. WELL NO.

1-18 (or 18-1)

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 18, T37S-R 26E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

15. DATE SPUNDED 5-6-80 16. DATE T.D. REACHED 5-29-80 17. DATE COMPL. (Ready to prod.) P&A 5-30-80 18. ELEVATIONS (DF, REB, RT, GR, ETC.)\* 6119' GR, 6131' KB 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 6164' 21. PLUG, BACK T.D., MD & TVD NA 22. IF MULTIPLE COMPL., HOW MANY\* NA 23. INTERVALS DRILLED BY → 0 - 6164' ROTARY TOOLS CABLE TOOLS

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

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

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24	1823'	12 1/4"	Cmt'd w/800 sxs Lite Tailed in w/200 sxs C1'B' Cmt. circ.	

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
NA					NA		

31. PERFORATION RECORD (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
NA	

33.\* PRODUCTION  
DATE FIRST PRODUCTION \_\_\_\_\_ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

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 DIVISION OF OIL, GAS & MINING

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED J.D. Rawdon TITLE District Manager DATE 6-5-80

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

RECEIVED  
P&A  
JUN 9 1980

RECEIVED

