



P & M

PETROLEUM
MANAGEMENT

SUITE 1700 • 1600 BROADWAY • DENVER • COLORADO 80202 • PHONE (303) 861-2470

RECEIVED

July 31, 1984

AUG 2 1984

BUREAU OF LAND MANAGEMENT
DISTRICT OFFICE
P.O. Box 970
Moab, Utah

DIVISION OF OIL
GAS & MINING

RE: P & M PETROLEUM MANAGEMENT, OPERATOR
#1-19R McCracken Federal
NW SW Sec. 19, T40S-R23E
(380' FWL & 2020' FSL)
San Juan County, Utah

Federal Lease No. U-40743

Gentlemen:

Submitted in quadruplicate please find enclosed an A.P.D. & NTL-6 Surface Use Plan on the above referenced location, proposed to be drilled approximately September 15, 1984.

Please advise at your earliest convenience as to any deficiency within the enclosed A.P.D. & NTL-6.

Yours very truly,

Robert W. Peterson
Petroleum Engineer

RWP:m
Enclosures

cc: BLM
Box 7
Monticello, UT 84535

BLM (In duplicate)
1745 W. 1700 S., Suite 2000
Salt Lake City, UT 84104

State of Utah (In duplicate)
Division of Oil, Gas & Mining
4241 State Office Bldg.
Salt Lake City, UT 84114

William W. Whitley
1600 Broadway, #1705
Denver, CO 80202

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 P & M PETROLEUM MANAGEMENT

3. ADDRESS OF OPERATOR 1600 Broadway, Suite 1700
Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface 380' FWL & 2020' FSL (NW $\frac{1}{4}$ SW $\frac{1}{4}$)
 At proposed prod. zone same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
8.0 miles NW of Montezuma Creek, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 380'
 16. NO. OF ACRES IN LEASE 280

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 281'
 19. PROPOSED DEPTH 5650'

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4499' G.L.

5. LEASE DESIGNATION AND SERIAL NO. U-40743
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 7. UNIT AGREEMENT NAME
 8. FARM OR LEASE NAME McCracken Federal
 9. WELL NO. #1-19R
 10. FIELD AND POOL, OR WILDCAT ~~UNDESIGNATED~~ Turner Bluff
 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 19, T40S-R23E
 12. COUNTY OR PARISH San Juan
 13. STATE Utah

17. NO. OF ACRES ASSIGNED TO THIS WELL 80

20. ROTARY OR CABLE TOOLS rotary

22. APPROX. DATE WORK WILL START* September 15, 1984

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 $\frac{1}{2}$ "	13-3/8"	48	80'	100 sx.
12 $\frac{1}{4}$ "	8-5/8"	36	1300'	600 sx.
7-7/8"	5 $\frac{1}{2}$ "	14	5650'	150 sx.
7-7/8"	4 $\frac{1}{2}$ "	10.5	5650'	200 sx.

A. The well will be spudded in the Morrison Formation.

B. The estimated tops of important geological formations are as follows

Entrada	400'	Moenkopi	2165'
Carmel	445'	Cutler	2400'
Navajo	495'	Hermosa	4387'
Kayenta	895'	Ismay	5295'
Wingate	950'	Lower Ismay	5411'
Chinle	1348'	"C" Shale	5476'
Shinarump	2150'	Desert Creek	5516'
		Desert Creek Pay	5576'

RECEIVED

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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 Robert W. Peterson TITLE Petroleum Engineer DATE 7/31/84

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

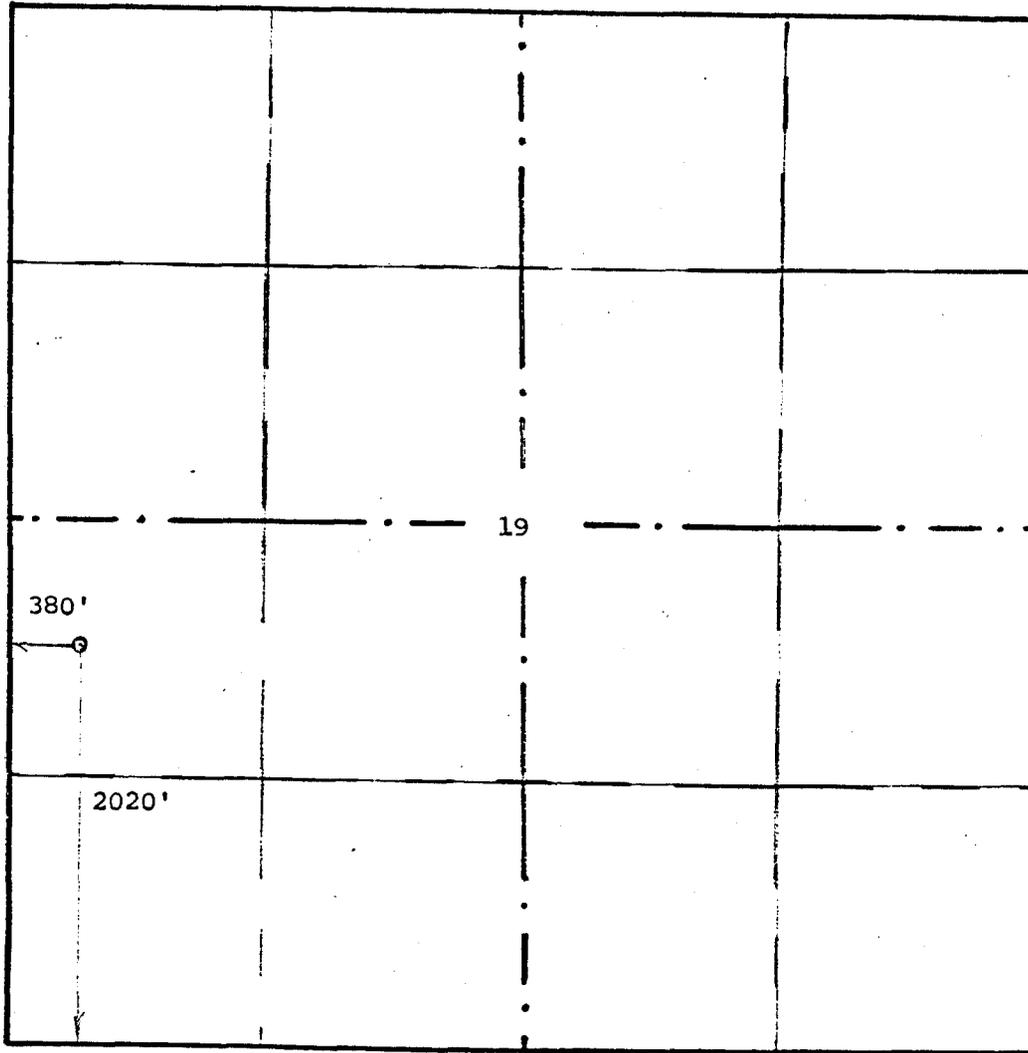
APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 8/2/84
BY: [Signature]

EXHIBIT "B"

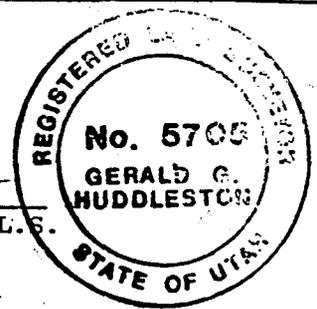


POWERS ELEVATION

Well Location Plat



Operator P & M Petroleum Management		Well name P&M 1-19 Federal	
Section 19	Township 40 South	Range 23 East	Meridian Salt Lake
Footages 2020'FSL & 380'FWL			County/State San Juan, Utah
Elevation 4499'	Requested by William Whitley		
The above plat is true and correct to the best of my knowledge and belief.			
5 July 1984		 Gerald G. Huddleston, L.S.	



P & M PETROLEUM MANAGEMENT, OPERATOR

#1-19R McCracken Federal
NW SW Sec. 19, T40S-R23E
(380' FWL & 2020' FSL)
San Juan County, Utah

A.P.D. - Page 2

- C. Estimated depths of anticipated water, oil or gas zones:
- | | | |
|--------------|-------|---------------|
| Navajo Sand | 385' | (Fresh water) |
| Lower Ismay | 5300' | (Oil) |
| Desert Creek | 5400' | (Oil) |
- D. The casinghead will be a flanged 9-5/8" X 10", 900 Series, 3000 psi working pressure type. The blowout preventer will be a 10", 900 Series, 3000 psi working pressure type with 4 1/2" pipe rams and blind rams with a remote hydraulic closing unit. The blowout preventer arrangement will include a kill line and choke manifold as shown in Exhibit "G" in the schematic diagram. This BOP will be tested to 1000 psi prior to drilling out the cement plug in the surface casing and once during each tour.
- E. Proposed Casing Program:
1. Conductor Pipe 80', 13-3/8", 32.75#, K-55, 8rd th., ST&C new casing.
 2. Surface Casing Approx. 1300', 8-5/8", 36#, K-55, ST&C 8rd th., new casing would be run and cemented to surface., if Navajo flowing water is encountered.
 3. Production Casing 5 1/2", 14#, and 15.5#, K-55, ST&C, 8rd th., new casing or 4 1/2", 10.5#, K-55 LT&C, 8rd th., new casing.
- F. Cementing Program:
1. The conductor pipe will be cemented with concrete to the surface.
 2. The surface casing will be cemented with 450 sx. regular followed by 150 sx. thixotropic cement and cemented to the surface.
 3. The production casing will be cemented as follows:
If 5 1/2" casing is run - 150 sx. 50-50 Pozmix with 2% gel & 10% salt. 1000' fillup.
If 4 1/2" casing is run - 200 sx. 50-50 Pozmix with 2% gel & 10% salt. 1000' fillup.
- G. Clear water with drilling detergent will be used for a circulating medium to about 4000' depth. The well will then be mudded up properly before drilling the Ismay formation. The mud will be a fresh water gel chemical type mud. The mud weight will be maintained at about 9.5 lbs./gal., viscosity 35 to 45 sec./qt. and water los 6 to 8 cc.
- H. No cores are planned on this well. Lower Ismay and Desert Creek porosity with oil shows will be drill stem tested. An Induction Electric Log will be run from total depth to the base of any casing. A Borehole Compensated Sonic-Gamma Ray Caliper log will be run over any indicated porosity zones with oil shows.
- I. No abnormal pressures or temperatures are encountered in the immediate area. The pressure gradient in the Lower Ismay and Desert Creek porosity zones are about 0.388 psi/ft depth. No hydrogen sulfide has been encountered in the Ismay, Desert Creek or shallower zones in this area.
- J. The following auxiliary drilling equipment will be utilized or available:
1. An upper Kelly Cock will be utilized, but a lower Kelly Cock will not be.
 2. Float valve above bit.
 3. A 3000 psi W.P. full opening valve will be screwed into a 4 1/2" drill pipe sub to be used as a stabbing valve.
 4. No mud monitoring equipment will be used.
 5. A flow sensor will not be used.
- K. It is planned to spud this well by approximately September 15, 1984. It is estimated that it will take 15 days to drill the well and 10 days to complete the well.

P & M PETROLEUM MANAGEMENT
#1-19R McCracken Federal

NW SW Sec. 19, T40S-R23E
(380' FWL & 2020' FSL)
San Juan County, Utah

NTL-6 SURFACE USE PLAN

A. EXISTING ROADS

A portions of a U.S.G.S. topographical map is attached as Exhibit "A" showing the existing roads.

1. The location plat is attached as Exhibit "B" which shows the location as staked. The well will be drilled in the NW SW (380' FWL & 2020' FSL) of Section 19, T40S-R23E, San Juan County, Utah.
2. The location is 8.9 miles from Utah State Highway 262 which is paved. To drive to the location you turn off Utah State Highway 262 to the west between the airstrip and Montezuma Creek School. The first mile is paved to Montezuma Creek, which must be forded. From there on the road is bladed. It is 5.5 miles on the Bluff Bench Road from Montezuma Creek Trading Post to the Turner Bluff field road which turns off to the left (SW). The present lease road for the #1 McCracken Point Federal well goes right to the drill pad for the proposed well. The lease road is approximately about 0.5 miles long.
3. No new access road will be necessary. The present lease road goes right to the proposed location. The proposed location will be adjacent to the present location for the #1 McCracken Point Federal well.
4. Exhibit "A" shows the route from Montezuma Creek to the proposed location.
5. No improvements are planned for the existing access trail for drilling the well.

B. ACCESS ROADS TO BE CONSTRUCTED AND RE-CONSTRUCTED

Existing roads go to the east of the proposed location. The present access road will only need to be flat bladed to drill the well.

1. The present access road will be utilized. The width of the access road is 18'. The road only need to be bladed and the bar pits pulled.
2. The maximum grade is one percent.
3. No major fills or cuts will be necessary.
4. No turnouts will be necessary.
5. Only present natural drainage is necessary.
6. No culverts, low water crossings or bridges are necessary.
7. No gates, cattleguards or fence cuts will be necessary.
8. No existing facilities will be altered or modified.

C. LOCATION OF EXISTING WELLS

Exhibit "C" shows all the wells within a one-mile radius of the proposed well.

1. There is one water well within a one-mile radius of the proposed well.
2. There are no injection wells within a one-mile radius of the proposed well.
3. There are six plugged and abandoned wells within a one-mile radius of the proposed well.

P & M PETROLEUM MANAGEMENT, OPERATOR

#1-19R McCracken Federal

NW SW Sec. 19, T40S-R23E

(380' FWL & 2020' FSL)

San Juan County, Utah

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C. LOCATION OF EXISTING WELLS(Cont'd)

4. There are no disposal wells within a one-mile radius of the proposed well.
5. There are five producing wells within a one-mile radius of the proposed well.
6. There are no drilling wells within a one-mile radius of the proposed well.
7. There is one shut-in well twinning the proposed well. This well is located 2040' FSL and 660' FWL of Section 19. This well will be plugged and abandoned if the proposed well is completed as a producer. If the proposed well is a dry hole, the present well may be completed as a disposal well.

D. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES IF THE WELL IS A PRODUCER

P & M Petroleum Management operates seven other oil producing wells in the Turner Bluff Field. Each well has a separate tank battery. P & M Petroleum Management purchased the #1 McCracken Point Federal well located 281' from the proposed well. If the proposed well is successful, the tank battery for the #1 McCracken Point Federal will be utilized and only a flowline will be installed along with the pumping unit with an engine. The present tank battery has only (2) 210 bbl. stock tanks, so it will only be necessary to add additional tankage if the well's production rate requires it, and possibly a water tank for disposal.

If the well is successful and we can sell the casinghead gas to El Paso Natural Gas Company, we will need to install a 3" gas sales line to our present 4½" sales line. The route of this gas line is shown in Exhibit "A".

E. LOCATION AND TYPE OF WATER SUPPLY

The water source for the drilling water for the proposed well will be a water hole along an existing road approximately 4½ miles by road. The water hole is shown on Exhibit "A", in the NW¼ of Section 30, T40S-R23E.

1. The drilling water will be hauled by truck.

F. CONSTRUCTION MATERIALS

1. No construction materials will be needed to drill the proposed well. If the well is completed as a producer, it will be necessary to use gravel to set the pumping unit and either gravel or scorio to surface the access road.
2. All construction material will be purchased from private contractors. No construction material will be taken from Federal land.

G. METHOD OF HANDLING WASTE DISPOSAL

1. Waste materials will be handled as follows:
 - a. Cuttings - Drill cuttings will be contained in the reserve pit.
 - b. Drilling Fluids - Drilling fluids will be contained in steel mud tanks and the reserve pit. The reserve pit will be fenced during drilling operations and will be backfilled when dry enough to do so.
 - c. Garbage and Waste Materials - Garbage and waste materials will be contained in the trash pit to be dug by a backhoe. The trash pit will be fenced on all four sides and three-quarters covered with a mesh fence, and buried at least 4' deep after the well is completed.

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#1-19R McCracken Federal

NW SW Sec. 19, T40S-R23E

(380' FWL & 2020' FSL)

San Juan County, Utah

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G. METHOD OF HANDLING WASTE DISPOSAL (Cont'd)

- d. Any Produced Water - Any produced water will be contained in steel swab or test tanks. Produced water, if any, will be contained in the production pit after the well is completed and in swab tanks or the reserve pit until the well is completed and the battery installed per NTL-2B regulations.
- e. Chemicals - The only chemicals used will be in the drilling mud and these will be handled the same as the drilling fluids in paragraph (b) above.
- f. Sewage - Sewage will be disposed of in sanitary holes and buried to a depth of 6' when the drilling is completed.

H. ANCILLARY FACILITIES

No ancillary facilities will be required for the drilling of this well.

I. WELLSITE LAYOUT

1. The wellsite layout is as follows:
 - a. The boundary of the proposed drill pad and the cuts and fills are shown on Exhibits "D" & "E".
 - b. The reserve pit, trash and burn pit are shown on Exhibit "F".
 - c. The location of the entrance of the access road to the drillsite is shown on Exhibit "F".
 - d. The turn-around area will be right on the drill pad.
 - e. The parking area is shown on Exhibit "F".
 - f. The only living facility is the tool pusher's trailer. It is shown on Exhibit "F".
 - g. The topsoil is shown stacked on Exhibit "E".
 - h. Orientation of the drilling rig is shown on Exhibit "F".
2. It is not planned to line the reserve pit.

J. PLANS FOR RECLAMATION OF THE SURFACE

1. The location will be reclaimed as follows:
 - a. The location and the reserve pit will be re-contoured to the original shape and contour as much as practical.
 - b. For this drillsite and access road there will be no drainage system to reclaim.
 - c. Segregation of Spoil Materials - The sub-soil material will be placed into position first and the top-soil will be placed on top of the sub-soil.
 - d. Surface Manipulations - No water bars will be necessary. The dirt and soil will be replaced by using a dozer, scraper and/or blade.
 - e. Waste Disposal - All the waste material will be buried in the trash pit, sewage pit, and the reserve pit.
 - f. Revegetation - The location, reserve pit and the road (where necessary) will be re-seeded with seed prescribed by the BLM or the surface owner after the surface has been harrowed.

P & M PETROLEUM MANAGEMENT, OPERATOR
#1-19R McCracken Federal
NW SW Sec. 19, T40S-R23E
(380' FWL & 2020' FSL)
San Juan County, Utah

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J. PLANS FOR RECLAMATION OF THE SURFACE (Con't)

- g. Soil Treatment - If necessary the surface will be fertilized when it is re-seeded.
2. The surface will be reclaimed when the reserve pit has dried up enough so the area will remain stable, hopefully yet this fall. The surface will be re-seeded either this fall or next spring when there is adequate moisture to germinate the seed and the weather is warm enough so the grass will grow.

K. SURFACE OWNERSHIP

1. The ownership of the wellsite and the access road is the Bureau of Land Management.

L. OTHER INFORMATION

None.

M. LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION

1. The lessee's and operator's field representative is Mr. Stan Thompson. If Mr. Thompson cannot be located at the wellsite, contact P & M Petroleum Management, (303) 861-2470, 1600 Broadway, Suite 1700, Denver, Colorado 80202.
2. The lessee/operator certifies the following:

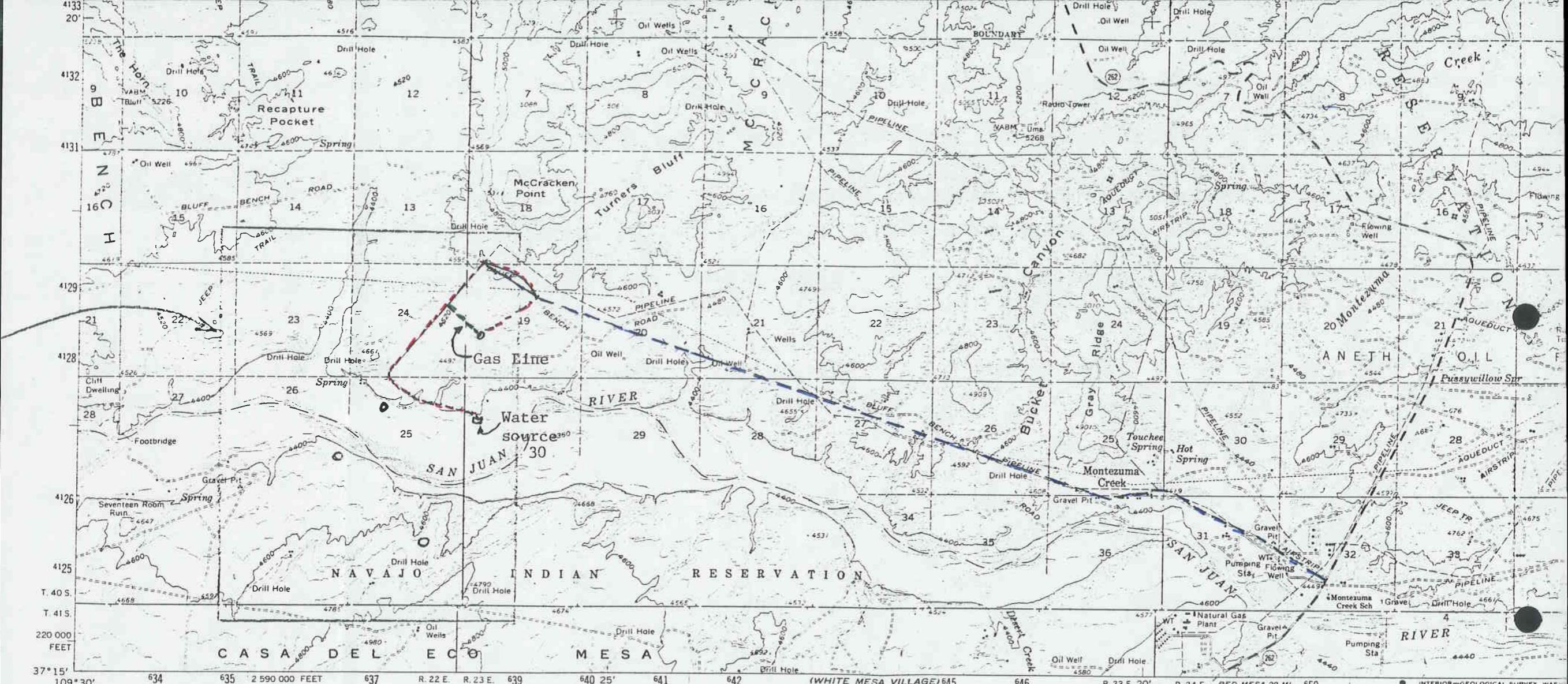
I hereby certify that I or persons under my direct supervision have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge true and correct; and that the work associated with operations proposed herein will be performed by P & M Petroleum Management and their contractors and sub-contractors in conformity with this plan and the terms and condition under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

DATE: 7/31/84

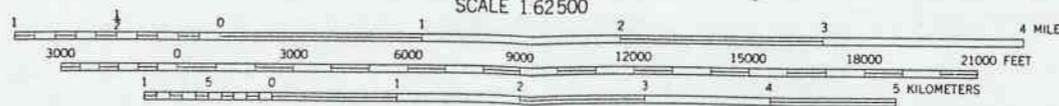
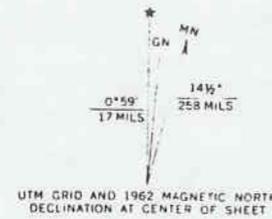
P & M PETROLEUM MANAGEMENT


Robert W. Peterson
Petroleum Engineer

RWP:m
Attachments



Mapped, edited, and published by the Geological Survey
 Control by USGS and USC&GS
 Topography by photogrammetric methods from aerial
 photographs taken 1959. Field checked 1962
 Polyconic projection. 1927 North American datum
 10,000-foot grid based on Utah coordinate system, south zone
 1000-meter Universal Transverse Mercator grid ticks,
 zone 12, shown in blue
 Where omitted, land lines have not been established



CONTOUR INTERVAL 40 FEET
 DOTTED LINES REPRESENT 20-FOOT CONTOURS
 DATUM IS MEAN SEA LEVEL

- New Bluff Bench Road
- Oil Field Lease Roads
- Gas Line



ROAD CLASSIFICATION
 Medium-duty L
 Unimproved dirt L
 State

EXHIBIT "A"

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
 FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225 OR WASHINGTON, D. C. 20242
 A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

MONTEZUMA
 N3715



POWERS ELEVATION

Well 1-19 Federal

OIL WELL ELEVATIONS — LOCATIONS
ENVIRONMENTAL — ARCHAEOLOGICAL SERVICES
600 SOUTH CHERRY STREET, SUITE 1201
DENVER, COLORADO 80222
PHONE NO. 303/321-2217

Cut // // // // //
Fill: ○ ○ ○ ○ ○

Scales: 1"=50'H.
1'=20'V.

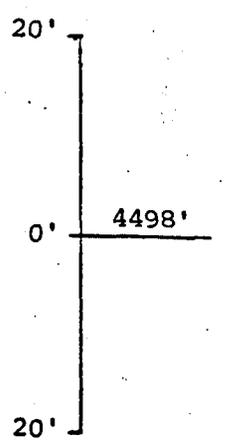
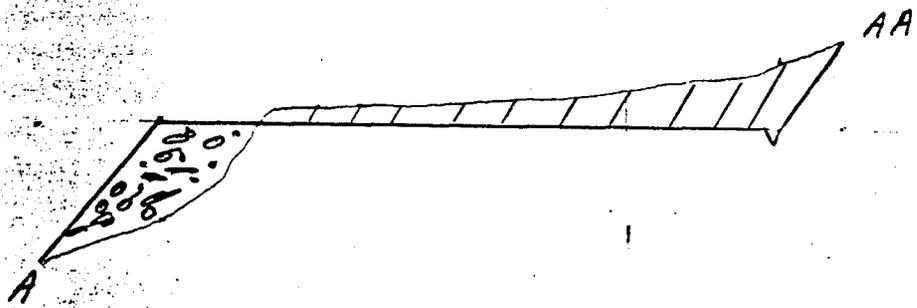
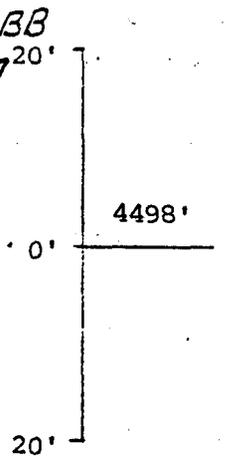
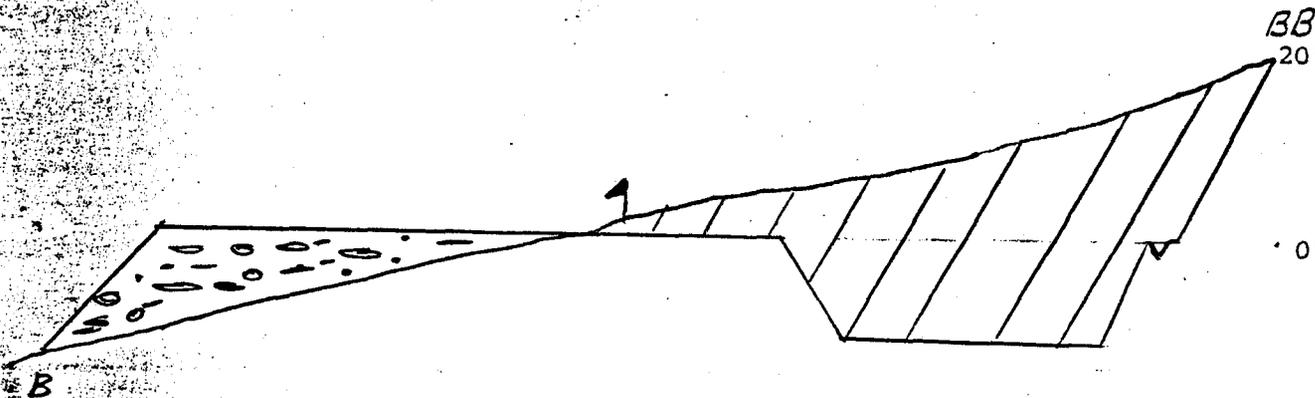
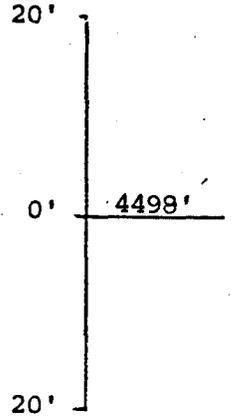
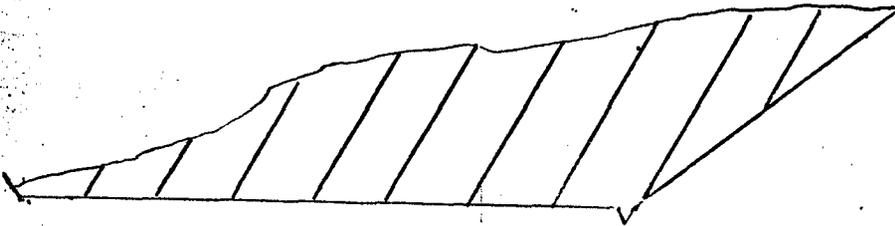


EXHIBIT "D"



POWERS ELEVATION

1-19 Federal

N



1"=50'

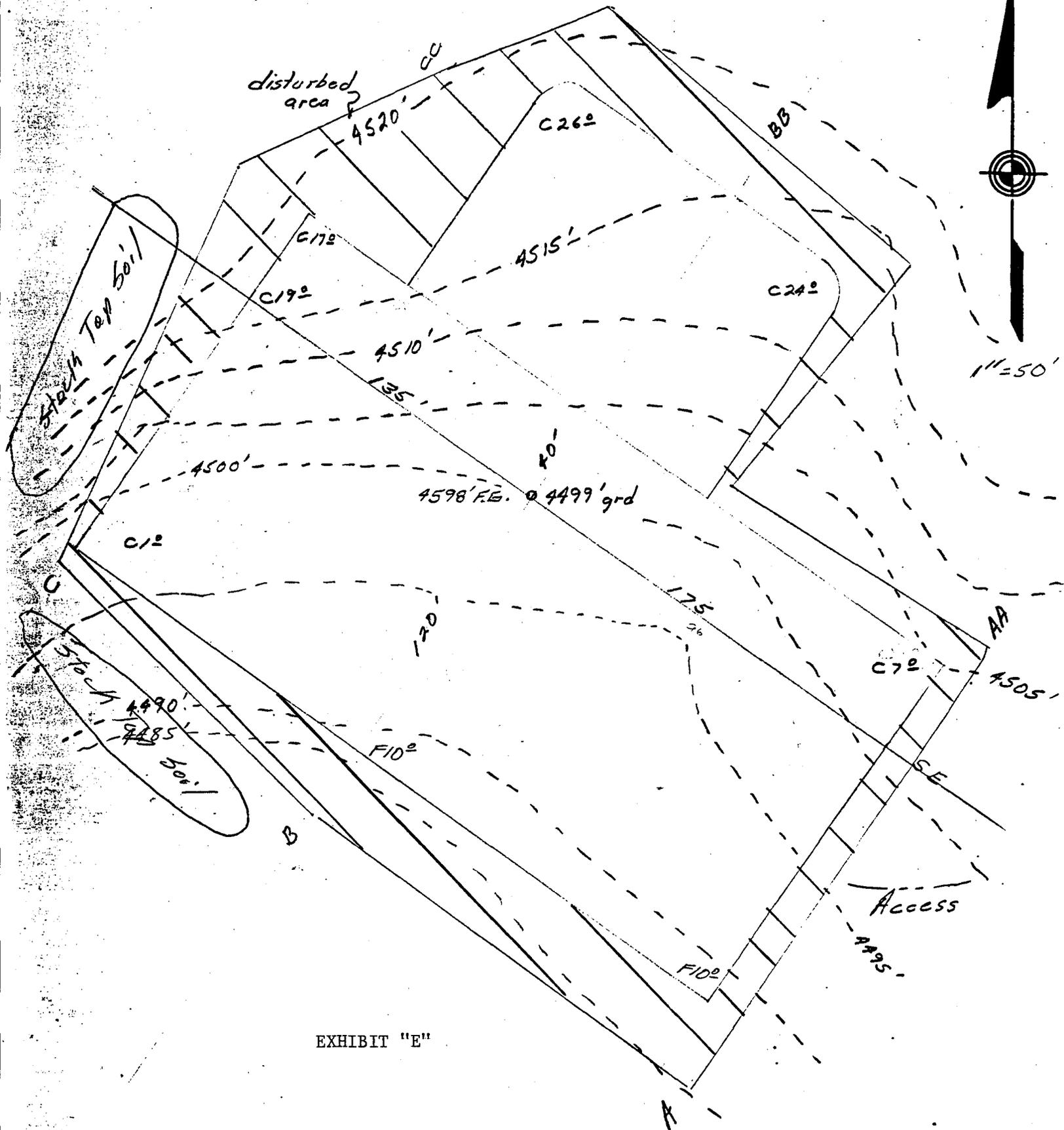


EXHIBIT "E"

BLOWOUT PREVENTER DIAGRAM

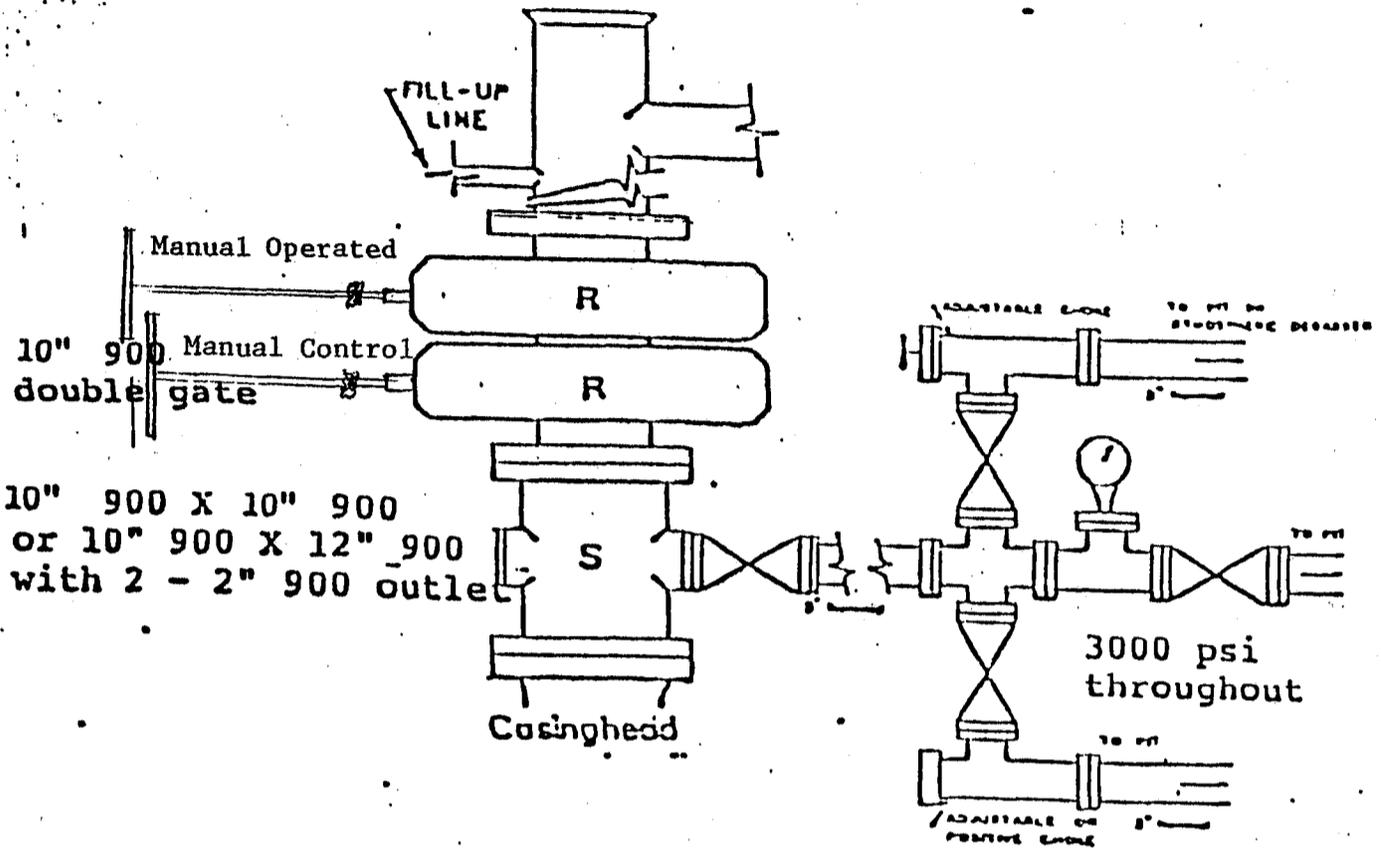


EXHIBIT "G"

BLOWOUT PREVENTOR is Hydraulic and is controlled by accumulator located on lower water tank about 30' from wellhead on ground level. Accumulator is also supplied with emergency nitrogen bottles in case accumulator fails to work.

All valves on choke assembly are manually controlled.

OPERATOR

P + M Petroleum Mgt.

DATE

8-7-84

WELL NAME

McCracken Fed. 1-19R

SEC

NW 1/4

T

40S

R

23E

COUNTY

San Juan

43-037-31056

API NUMBER

Fed.

TYPE OF LEASE

POSTING CHECK OFF:

INDEX

MAP

HL

NID

PI

PROCESSING COMMENTS:

Cause #85 + 85-3

Need Water permit

Fed. has required A.O. from Paris Oil.

CHIEF PETROLEUM ENGINEER REVIEW:

APPROVAL LETTER:

SPACING:

A-3

UNIT

c-3-a

85-1 2/14/83

85-3 6/26/79
CAUSE NO. & DATE

c-3-b

c-3-c

SPECIAL LANGUAGE:

1- Water

** 2- If McCracken Fed 1-19R is a producing well, McCracken Point Fed #1 will be P+U, or if Fed 1-19R is a dry hole, present well will be completed as a disposal well.*

RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

AUTHENTICATE LEASE AND OPERATOR INFORMATION

VERIFY ADEQUATE AND PROPER BONDING

AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

APPLY SPACING CONSIDERATION

ORDER 85 x 85-3

UNIT _____

c-3-b

c-3-c

CHECK DISTANCE TO NEAREST WELL.

CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.

IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

VERIFY LEGAL AND SUFFICIENT DRILLING WATER

August 8, 1984

P & M Petroleum Management
1600 Broadway, Suite 1700
Denver, Colorado 80202

Gentlemen:

RE: Well No. McCracken Federal 1-19R - NSW Sec. 19, T. 40S, R. 23E,
2020' FSL, 380' FWL - San Juan County, Utah

Approval to drill the above referenced oil well is hereby granted in accordance with Order of Cause No. 85-1 dated February 14, 1963 and Cause No. 85-3 dated June 26, 1979 subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.
2. In the event the McCracken Federal #1-19R well is completed as a producer, the McCracken Point Federal #1 well, located 2040' FSL and 660' FWL of Section 19, will be plugged and abandoned within a reasonable period of time.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 533-5771, (Home) 298-7695 or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

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P & M Petroleum Management
Well No. McCracken Fed. 1-19R
August 8, 1984

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31056.

Sincerely,

Original Signed by Ronald J. Firth

R. J. Firth
Associate Director, Oil & Gas

RJF/as

Enclosures

cc: Branch of Fluid Minerals



PETROLEUM MANAGEMENT

SUITE 1700 • 1600 BROADWAY • DENVER • COLORADO 80202 • PHONE (303) 861-2470

RECEIVED

SEP 13 1984

September 11, 1984

**DIVISION OF OIL
GAS & MINING**

BUREAU OF LAND MANAGEMENT
DISTRICT OFFICE
P.O. Box 970
Moab, UT 84532

RE: P & M PETROLEUM MANAGEMENT, OPERATOR
#1-19R McCracken Federal
NW SW Sec. 19, T40S-R23E
2059' FSL & 358' FWL
San Juan County, UT
Federal Lease No. U-40743

Gentlemen:

Enclosed in triplicate please find a Sundry Notice of Intention to Change Plans on our previously submitted NTL-6 package. This change was discussed and approved at the on-site inspection of the location.

Yours very truly,

Margo J. Medina

MM:s
Enclosures

cc: BLM
Box 7
Monticello, UT 84535

BLM
1745 W. 1700 S., Suite 2000
Salt Lake City, UT 84104

State of Utah
Division of Oil, Gas & Mining
4241 State Office Bldg.
Salt Lake City, UT 84114

William W. Whitley
1600 Broadway, #1705
Denver, CO 80202

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424

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 checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-40743	
2. NAME OF OPERATOR P & M Petroleum Management		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 1600 Broadway, #1700, Denver, CO 80202		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 358' FWL & 2059' FSL FNL (NW $\frac{1}{2}$ SW $\frac{1}{2}$)		8. FARM OR LEASE NAME McCracken Federal	
14. PERMIT NO. API 43-037-31056		9. WELL NO. #1-19R	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4499' G.L.		10. FIELD AND POOL, OR WILDCAT Turner Bluff	
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 19, G40S-R22E	
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.)*		12. COUNTY OR PARISH San Juan	
		13. STATE UT	

RECEIVED
SEP 13 1984
DIVISION OF OIL
GAS & MINING

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	FULL 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 checked="" type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

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) <input type="checkbox"/>	

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

On the on-site inspection of the location with the BLM personnel we discussed and received verbal approval to change the orientation of the location as shown in the attached Exhibit "E", which shows the change in orientation. We also moved the location 39' north and 22' west, so it is now 2059' FSL & 358' FWL.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 9/17/84
BY: John R. Baya

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

SIGNED Robert W. Peterson TITLE Petroleum Engineer DATE 9/11/84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

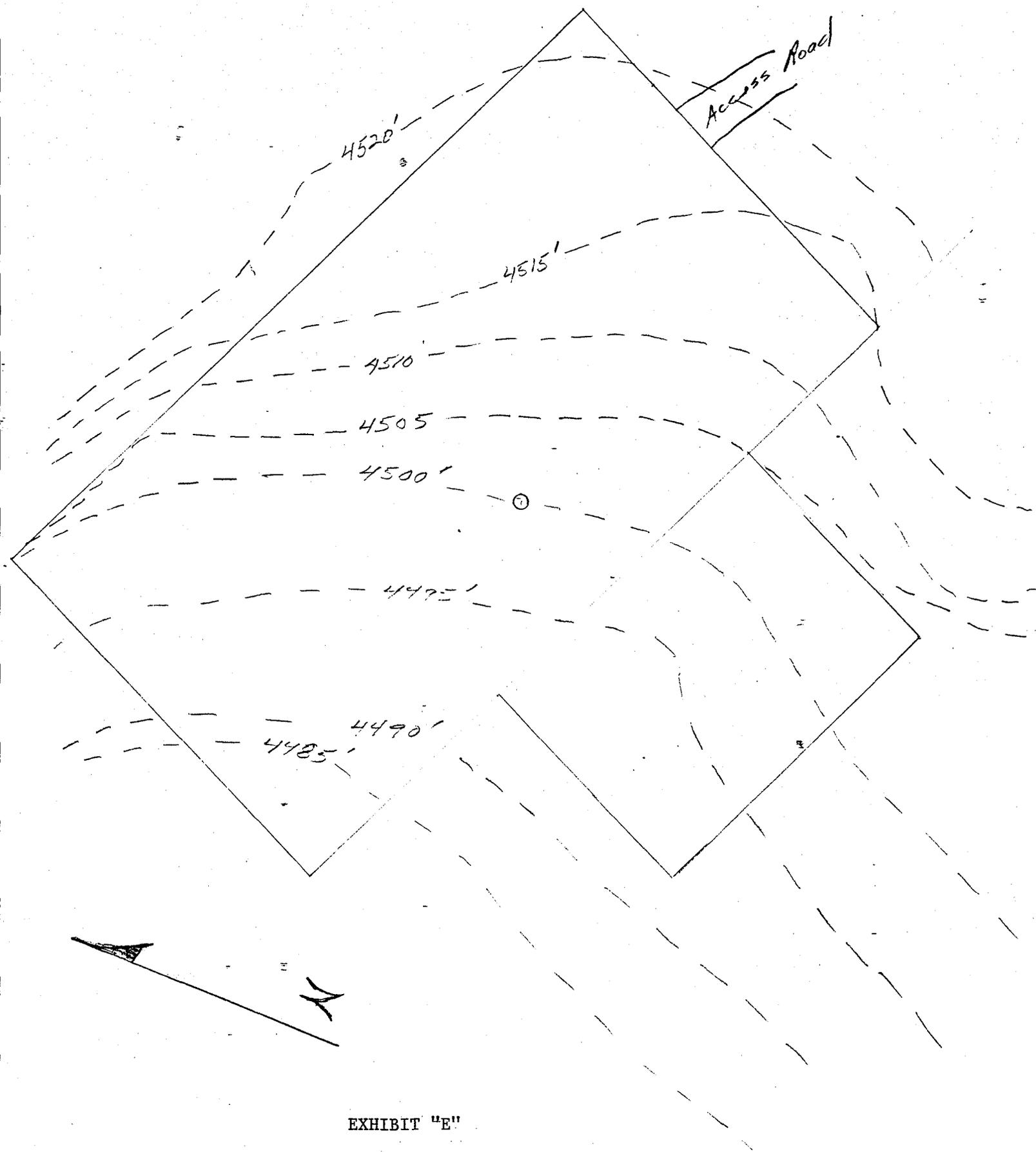


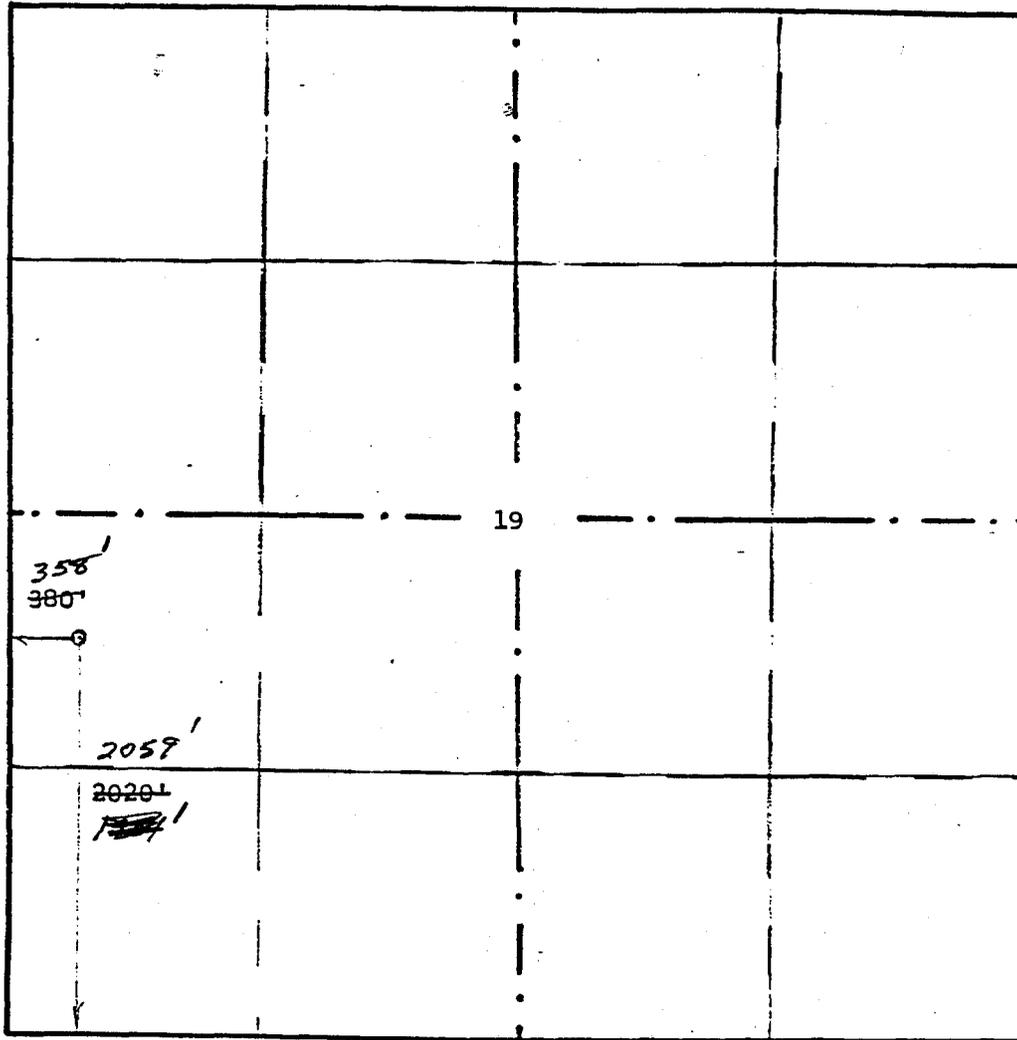
EXHIBIT "E"

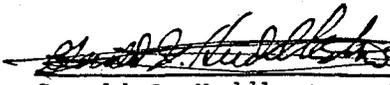
EXHIBIT "B"



POWERS ELEVATION

Well Location Plat



Operator P & M Petroleum Management		Well name P&M 1-19 Federal	
Section 19	Township 40 South	Range 23 East	Meridian Salt Lake
Footages FSL & 358' FWL 2020' FSL & 380' FWL 2059'			County/State San Juan, Utah
Elevation 4499'	Requested by William Whitley		
The above plat is true and correct to the best of my knowledge and belief.			
5 July 1984		 Gerald G. Huddleston, L.S.	



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 P & M PETROLEUM MANAGEMENT

3. ADDRESS OF OPERATOR 1600 Broadway, Suite 1700
Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
 At surface 380' FWL & 2020' FSL (NW $\frac{1}{4}$ SW $\frac{1}{4}$)
 At proposed prod. zone same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE
 8.0 miles NW of Montezuma Creek, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 380'

16. NO. OF ACRES IN LEASE 280

17. NO. OF ACRES ASSIGNED TO THIS WELL 80

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 281'

19. PROPOSED DEPTH 5650'

20. ROTARY OR CABLE TOOLS rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 4499' G.L.

22. APPROX. DATE WORK WILL START*
 September 15, 1984

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 $\frac{1}{2}$ "	13-3/8"	48	80'	100 sx.
12 $\frac{1}{2}$ "	8-5/8"	36	1300'	600 sx.
7-7/8"	5 $\frac{1}{2}$ "	14	5650'	150 sx.
7-7/8"	4 $\frac{1}{2}$ "	10.5	5650'	200 sx.

- A. The well will be spudded in the Morrison Formation.
 B. The estimated tops of important geological formations are as follows:
- | | | | |
|-----------|-------|------------------|-------|
| Entrada | 400' | Moenkopi | 2165' |
| Carmel | 445' | Cutler | 2400' |
| Navajo | 495' | Hermosa | 4387' |
| Kayenta | 895' | Ismay | 5295' |
| Wingate | 950' | Lower Ismay | 5411' |
| Chinle | 1348' | "C" Shale | 5476' |
| Shinarump | 2150' | Desert Creek | 5516' |
| | | Desert Creek Pay | 5576' |

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 Robert W. Peterson TITLE Petroleum Engineer DATE 7/31/84

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY /s/ GENE NODINE TITLE DISTRICT MANAGER DATE 19 NOV 1984

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED

FLARING OR VENTING OF GAS IS SUBJECT OF NTL 4-A DATED 1/1/80

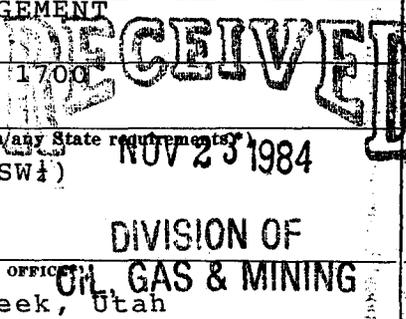
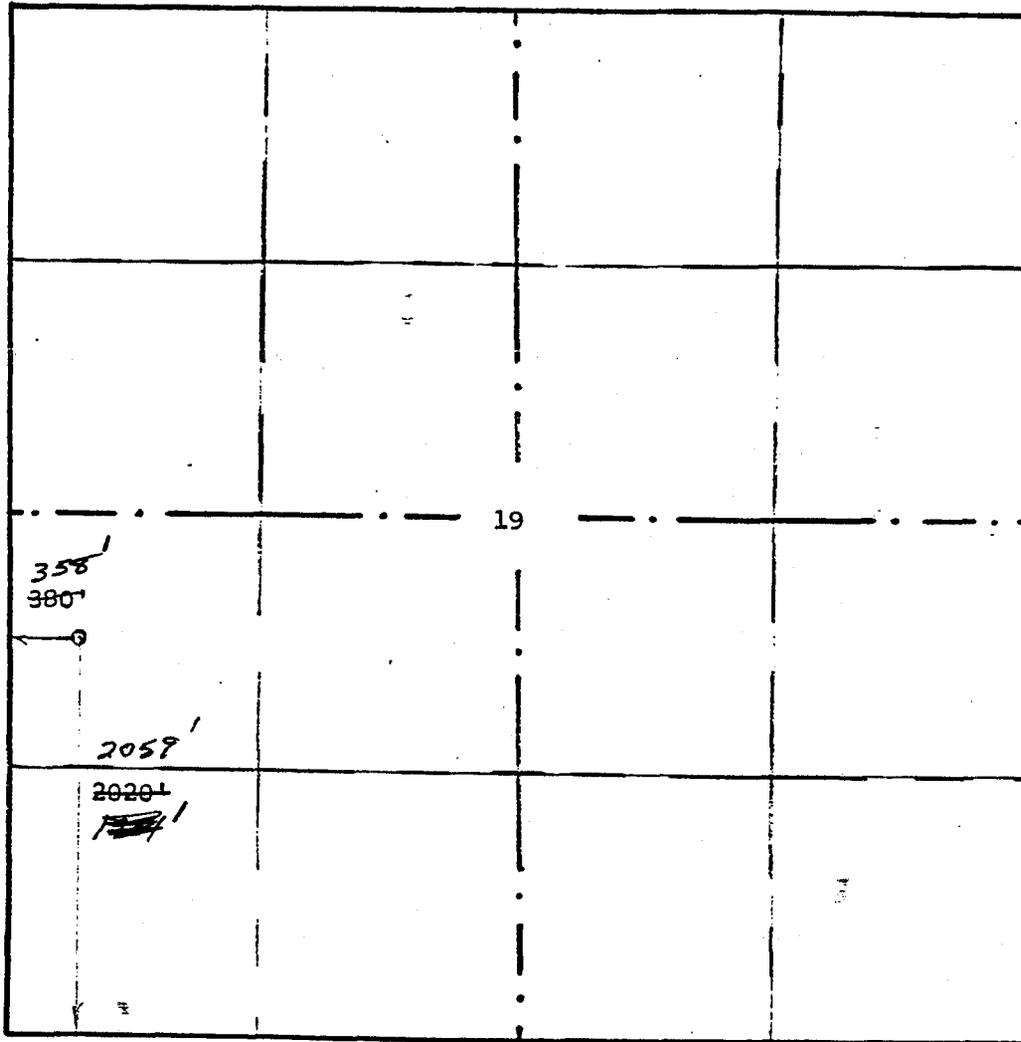


EXHIBIT "B"

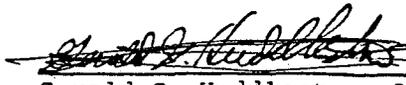


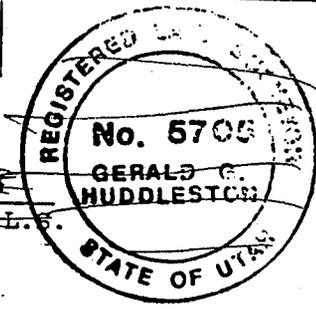
POWERS ELEVATION

Well Location Plat



1"=1000'

Operator P & M Petroleum Management		Well name P&M 1-19 Federal	
Section 19	Township 40 South	Range 23 East	Meridian Salt Lake
Footages FSL & 358' FWL 2020' FSL & 380' FWL 2059'			County/State San Juan, Utah
Elevation 4499'	Requested by William Whitley		
The above plat is true and correct to the best of my knowledge and belief.			
5 July 1984		 Gerald G. Huddleston, L.S.	



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

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
P & M Petroleum Management

3. ADDRESS OF OPERATOR
1600 Broadway, #1700, Denver, CO 80202

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

358' FWL & 2059' FNL (NW $\frac{1}{4}$ SW $\frac{1}{4}$)

RECEIVED
NOV 23 1984

DIVISION OF
OIL, GAS & MINING

14. PERMIT NO.
API 43-037-31056

15. ELEVATIONS (Show whether DF, RT, CR, etc.)
4499' G.L.

5. LEASE DESIGNATION AND SERIAL NO.

U-40743

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

REC'D MDO SEP 18 1984

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

McCracken Federal

9. WELL NO.

#1-19R

10. FIELD AND POOL, OR WILDCAT

Turner Bluff

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

Sec. 19, G40S-R22E

12. COUNTY OR PARISH

San Juan

13. STATE
UT

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	FULL 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 checked="" type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

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"/>
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1984 SEP 17 AM 9 08
DIV. OF OIL & GAS
RECEIVED

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

SIGNED Robert W. Peterson TITLE Petroleum Engineer

DATE 9/11/84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY: _____

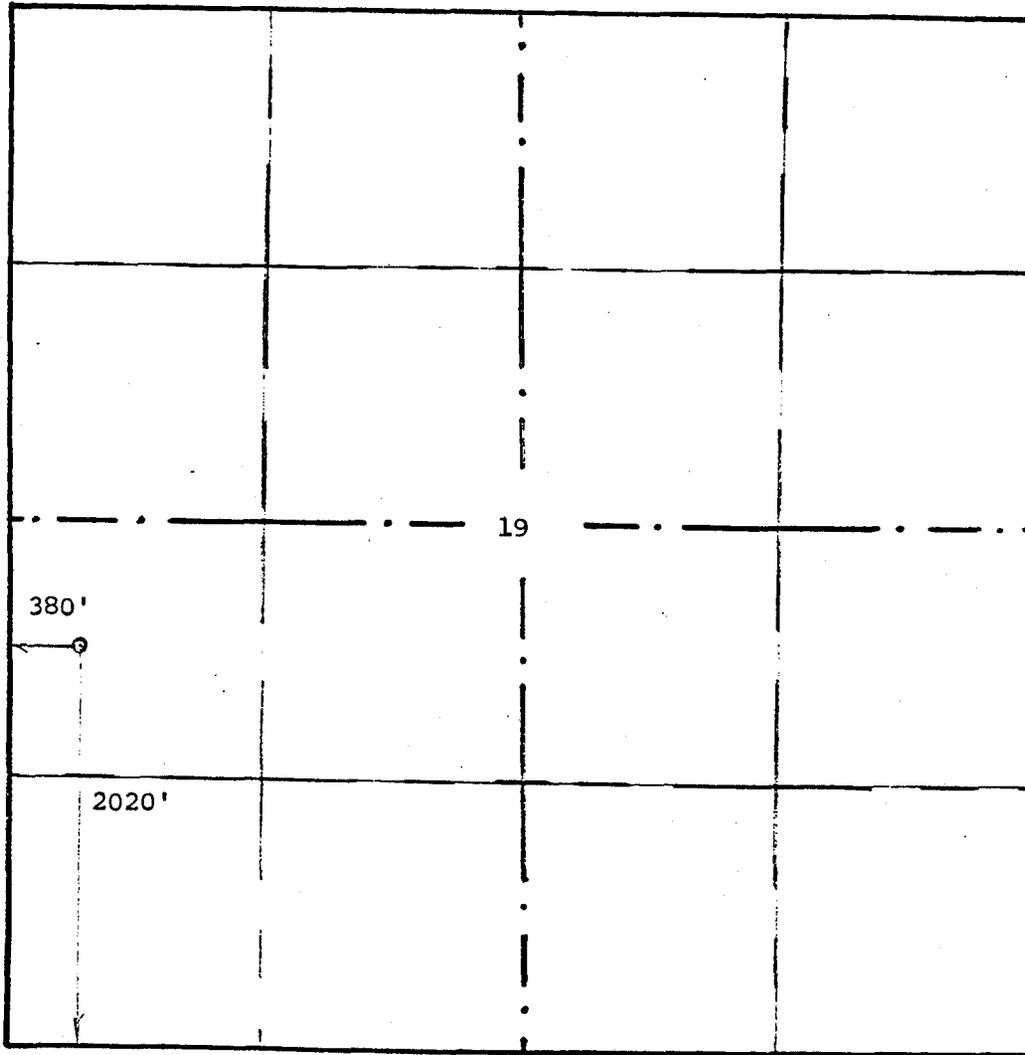
DATE _____

EXHIBIT "B"

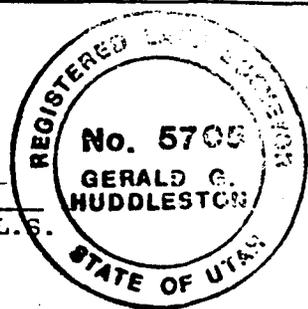


POWERS ELEVATION

Well Location Plat



Operator P & M Petroleum Management		Well name P&M 1-19 Federal	
Section 19	Township 40 South	Range 23 East	Meridian Salt Lake
Footages 2020' FSL & 380' FWL			County/State San Juan, Utah
Elevation 4499'	Requested by William Whitley		
<p>The above plat is true and correct to the best of my knowledge and belief.</p> <p>5 July 1984</p> <p style="text-align: right;"><i>Gerald G. Huddleston</i> Gerald G. Huddleston, L.S.</p>			



P & M Petroleum Management
Well No. McCracken Federal 1-19R
Sec. 19, T. 40 S., R. 22 E.
San Juan County, Utah
Lease U-40743

MOAB DISTRICT

CONDITIONS OF APPROVAL FOR PERMIT TO DRILL

STIPULATIONS

1. Existing Roads:
 - a. An encroachment permit will be obtained from the San Juan County Road Dept., (801) 587-2231, ext. 43.

2. Planned Access Roads:

Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance by the San Juan Area Manager.

The access road will be water barred or brought to Class III Road Standards within 60 days of dismantling of the drill rig. If this time frame cannot be met, the San Juan Area Manager will be notified so that temporary drainage control can be installed along the access road.

The Class III Road Standards which ensure drainage control over the entire road through the use of natural, rolling topography; ditch turnouts; drainage dips; outsloping; crowning; low water crossings; and culverts will be determined at the appropriate field inspection.

3. Location of Tank Batteries and Production Facilities:

All permanent (on site for 6 months or longer) above ground facilities (including pump jacks) will be painted a flat, nonreflective, earthtone color to match the standard environmental colors, as determined by the Rocky Mountain 5-State Inter-agency Committee. All facilities will be painted within 6 months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The color will be approved by BLM.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.

Gas Meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place before any deliveries. Tests for meter accuracy will be conducted monthly for the first 3 months or new meter installations and at least quarterly thereafter. The San Juan Area Manager will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the San Juan Area Manager. All meter measurements facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

4. Location and Type of Water Supply:

All water needed for drilling purposes will be obtained from: hauling from a pit north of the San Juan River.

Use of water for this operation will be approved by obtaining a temporary use permit from the Utah State Engineer, (801) 637-1303 and by receiving permission from the land owner or surface management agency to use the land containing the water source.

5. Methods of Handling Waste Disposal:

The reserve pit will be lined with commercial bentonite sufficient to prevent seepage. At least half of the capacity will be in cut.

Three sides of the reserve pit will be fenced with four strands of barbed wire before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying.

A burning permit is required for burning trash between May 1 and October 31. This can be acquired by contacting the State Fire Warden, John Baker, at (801) 587-2705.

Produced waste water will be confined to a lined pit for a period not to exceed 90 days after initial production. During the 90 day period an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the District Manager's approval pursuant to Onshore Oil and Gas Order No. 3 (NTL-2B).

6. Well Site Layout:

The reserve pit will be located: Southeast.

The top 10-12 inches of soil material will be removed from the location and stockpiled separate from the trees on the southeast side. Topsoil along the access will be reserved in place.

Access to the well pad will be from an existing road to an old drill pad.

7. Reclamation:

- a. Immediately on completion of drilling, all trash and debris will be collected from the location and surrounding area. All trash and debris will be disposed of in the trash pit and will then be compacted and buried under a minimum of two feet of compacted soil.
- b. The operator/holder of his contractor will contact the San Juan Resource Area office in Monticello, Utah, (801) 587-2201, 48 hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.
- c. Before any dirt work to restore the location takes place, the reserve pit must be completely dry.
- d. All disturbed areas will be recontoured to blend as nearly as possible with the natural topography. This includes removing all berms and refilling all cuts.
- e. The stockpiled topsoil will be spread evenly over the disturbed area. All disturbed areas will be ripped 12 inches deep with the contour.
- f. Water bars will be built as follows to control erosion.

<u>Grade</u>	<u>Spacing</u>
2%	Every 200 feet
2-4%	Every 100 feet
4-5%	Every 75 feet
5+%	Every 50 feet

- g. Seed will be broadcast between October 1 and February 28 with the following prescription. A harrow or similar implement will be dragged over the area to assure seed cover.

2 lbs/acre Indian ricegrass (Oryzopsis hymenoides)
 ___ lbs/acre Curlygrass (Hilaria jamesii)
 ___ lbs/acre crested wheatgrass (Agropyron desertorum)
 ___ lbs/acre Western wheatgrass (Agropyron smithii)
 ___ lbs/acre Alkali sacaton (Sporobolus airoides)
 ___ lbs/acre Sand dropseed (Sporobolus cryptandrus)
 2 lbs/acre Fourwing saltbush (Atriplex canescens)
 ___ lbs/acre Shadscale (Atriplex confertifolia)
 ___ lbs/acre Green ephedra (Ephedra viridis)
 ___ lbs/acre Cliffrose (Cowania mexicana)
 ___ lbs/acre Desert bitterbrush (Purshia glandulosa)
 ___ lbs/acre Winterfat (Eurotia lanata)
 ___ lbs/acre Globemallow (Sphaeralcea ambigua)
 2 lbs/acre Wild sunflower (Helianthus annuus)
 ___ lbs/acre

h. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed as described in the reclamation section. Enough topsoil will be kept to reclaim the remainder of the location at a future date. This remaining stockpile of topsoil will be seeded in place using the prescribed seed mixture.

8. Other Information: If the well is successful and the
 installation of the 3" gas sales line is necessary,
 a right-of-way will be required from BLM

There will be no change from the proposed drilling and/or workover program without prior approval from the District Manager. Safe drilling and operating practices must be used. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.2.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3164.

The dirt contractor will be provided with an approved copy of the surface use plan.

If subsurface cultural materials are exposed during construction, work in that spot will stop immediately and the San Juan Resource Area Office will be contacted. All people who are in the area will be informed by the operator/holder that they are subject to prosecution for disturbing archaeological sites or picking up artifacts. Salvage or excavation of identified archaeological sites will be done by a BLM approved archaeologist only if damage occurs.

This permit will be valid for a period of one year from the date of approval. After permit termination a new application will be filed for approval for any future operations.

Your contact with the District Office is: Bob Graff
Office Phone: 801-259-6111 Address: P.O. Box 970, Moab UT 84532

Resource Area Manager's address and contacts:
Address: P.O. Box 7, Monticello, UT 84535

Your contact is: Rich McClure
Office Phone: 801-587-2201
Home Phone: 801-587-2874

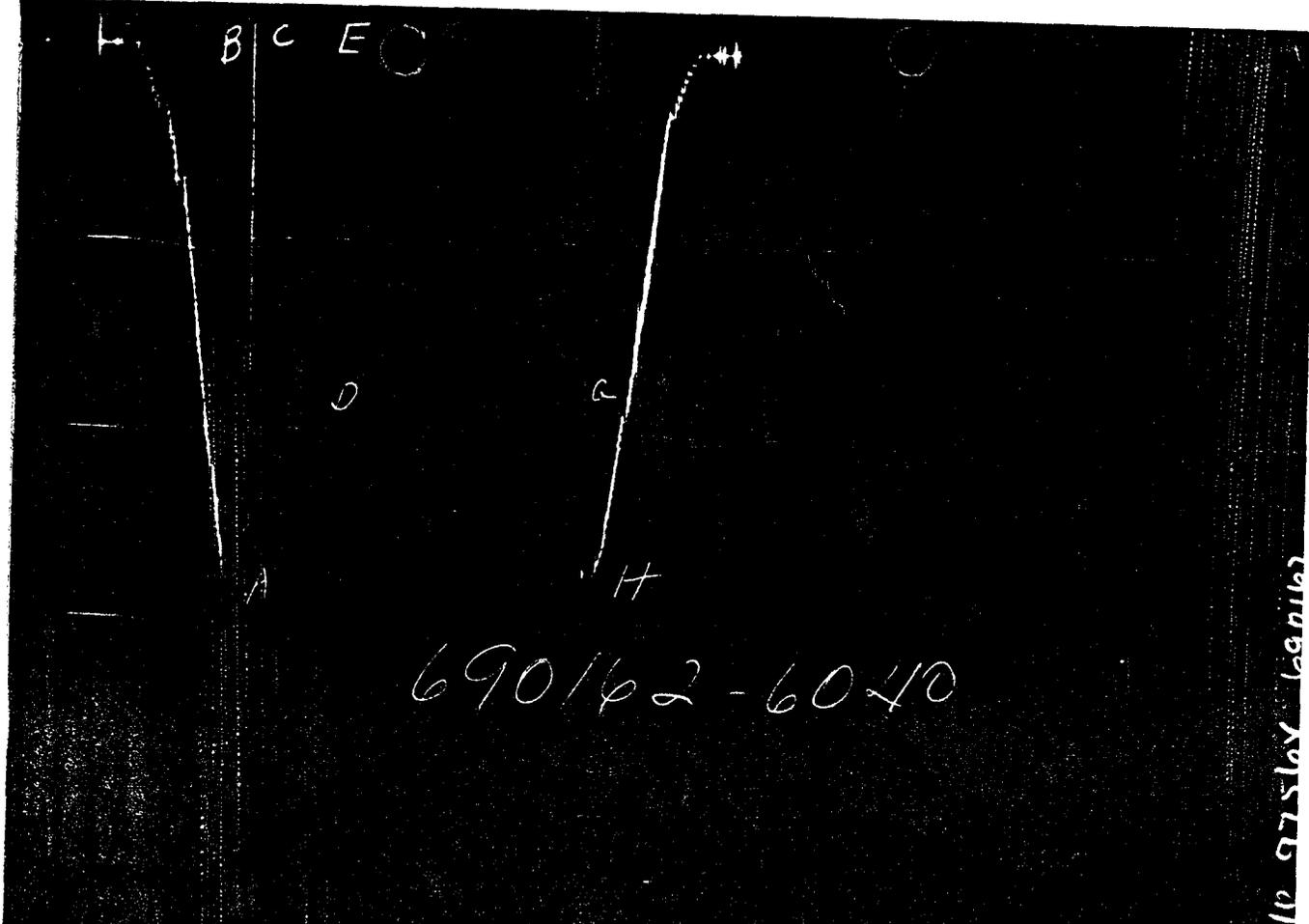
MC CRACKEN FEDERAL
LEASE NAME
1-19R
WELL NO.
2
TEST NO.
5585.1 - 5630.1
TESTED INTERVAL
P & M PETROLEUM MANAGEMENT
LEASE OWNER/COMPANY NAME

LEGAL LOCATION
SEC. - TYP. - RNG. 19-40S-23E
FIELD AREA
TURNER BLUFF
COUNTY
SAN JUAN
STATE
UTAH



TICKET NO. 69016200
02-JAN-85
FARMINGTON

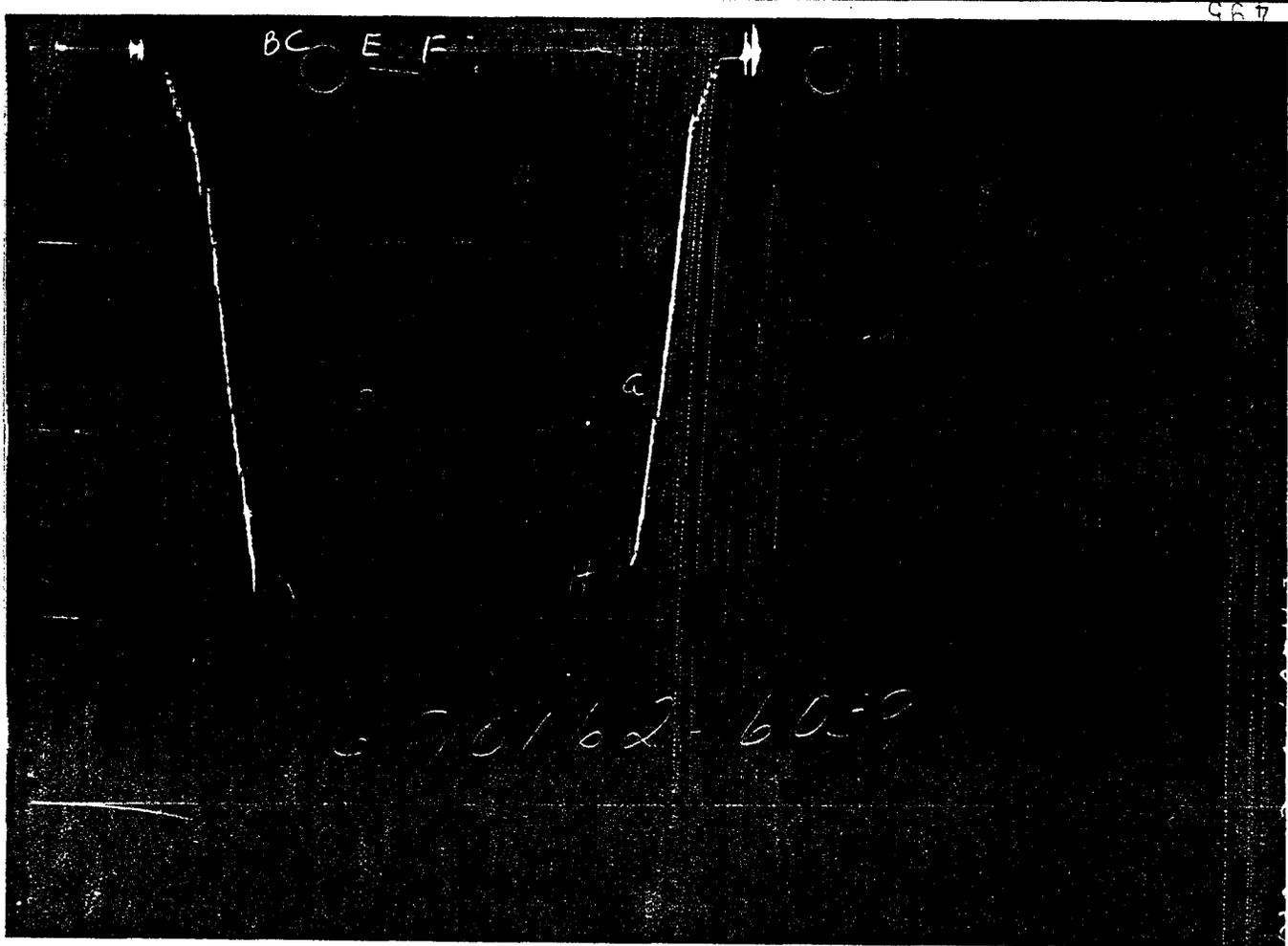
FORMATION TESTING SERVICE REPORT



690 975142 6040

GAUGE NO: 6040 DEPTH: 5564.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2777	2803.6			
B	INITIAL FIRST FLOW	13	24.5			
C	FINAL FIRST FLOW	27	40.7	15.0	13.2	F
C	INITIAL FIRST CLOSED-IN	27	40.7			
D	FINAL FIRST CLOSED-IN	1750	1772.8	90.0	91.5	C
E	INITIAL SECOND FLOW	27	57.9			
F	FINAL SECOND FLOW	81	91.9	60.0	59.8	F
F	INITIAL SECOND CLOSED-IN	81	91.9			
G	FINAL SECOND CLOSED-IN	1804	1816.6	235.0	235.5	C
H	FINAL HYDROSTATIC	2777	2766.8			



GAUGE NO: 6039 DEPTH: 5627.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2800	2837.6			
B	INITIAL FIRST FLOW	40	61.5			
C	FINAL FIRST FLOW	53	74.9	15.0	13.2	F
C	INITIAL FIRST CLOSED-IN	53	74.9			
D	FINAL FIRST CLOSED-IN	1801	1803.4	90.0	91.5	C
E	INITIAL SECOND FLOW	53	97.4			
F	FINAL SECOND FLOW	107	122.0	60.0	59.8	F
F	INITIAL SECOND CLOSED-IN	107	122.0			
G	FINAL SECOND CLOSED-IN	1828	1845.5	235.0	235.5	C
H	FINAL HYDROSTATIC	2800	2805.1			

EQUIPMENT & HOLE DATA

FORMATION TESTED: DESERT CREEK

NET PAY (ft): 11.0

GROSS TESTED FOOTAGE: 45.0

ALL DEPTHS MEASURED FROM: KELLY BUSHING

CASING PERFS. (ft): _____

HOLE OR CASING SIZE (in): 7.875

ELEVATION (ft): 4513

TOTAL DEPTH (ft): 5630.0

PACKER DEPTH(S) (ft): 5579, 5585

FINAL SURFACE CHOKE (in): _____

BOTTOM HOLE CHOKE (in): 0.750

MUD WEIGHT (lb/gal): 9.70

MUD VISCOSITY (sec): 44

ESTIMATED HOLE TEMP. (°F): _____

ACTUAL HOLE TEMP. (°F): 130 @ 5630.0 ft

TICKET NUMBER: 69016200

DATE: 12-27-84 TEST NO: 2

TYPE DST: OPEN HOLE

HALLIBURTON CAMP: FARMINGTON

TESTER: H. BELL

WITNESS: STAN THOMPSON

DRILLING CONTRACTOR: COLEMAN #4

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm

SAMPLER DATA

Pstg AT SURFACE: 20

cu.ft. OF GAS: 0.00

cc OF OIL: 0

cc OF WATER: 0

cc OF MUD: 600

TOTAL LIQUID cc: 600

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ _____ °F

GAS/OIL RATIO (cu.ft. per bbl): _____

GAS GRAVITY: _____

CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

RECOVERED:

180 FEET OF SLIGHTLY GAS CUT MUD

MEASURED FROM
TESTER VALVE

REMARKS:

TICKET NO: 69016200
 CLOCK NO: 9756 HOUR: 24



GAUGE NO: 6040
 DEPTH: 5564.0

REF	MINUTES	PRESSURE	ΔP	$\frac{i \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	24.5			
2	3.0	26.8	2.3		
3	6.0	32.4	5.5		
4	9.0	36.8	4.5		
5	12.0	39.7	2.8		
C 6	13.2	40.7	1.1		
FIRST CLOSED-IN					
C 1	0.0	40.7			
2	6.0	72.1	31.4	4.1	0.507
3	12.0	138.2	97.4	6.3	0.322
4	18.0	296.0	255.3	7.6	0.239
5	24.0	657.9	617.1	8.5	0.190
6	30.0	1010.0	969.2	9.2	0.158
7	36.0	1236.1	1195.4	9.7	0.136
8	42.0	1391.4	1350.7	10.0	0.119
9	48.0	1503.7	1462.9	10.4	0.106
10	54.0	1581.4	1540.7	10.6	0.095
11	60.0	1642.1	1601.4	10.8	0.086
12	66.0	1683.2	1642.5	11.0	0.079
13	72.0	1715.3	1674.5	11.2	0.073
14	78.0	1737.9	1697.2	11.3	0.068
15	84.0	1754.6	1713.9	11.4	0.063
D 16	91.5	1772.8	1732.1	11.5	0.059
SECOND FLOW					
E 1	0.0	57.9			
2	10.0	65.0	7.2		
3	20.0	72.3	7.3		
4	30.0	77.9	5.5		
5	40.0	83.2	5.3		
6	50.0	87.6	4.5		
F 7	59.8	91.9	4.3		
SECOND CLOSED-IN					
F 1	0.0	91.9			
2	15.0	169.4	77.4	12.4	0.768
3	30.0	407.9	316.0	21.3	0.536
4	45.0	931.8	839.9	27.9	0.419
5	60.0	1267.5	1175.6	32.9	0.346
6	75.0	1447.4	1355.5	37.0	0.295
7	90.0	1557.2	1465.2	40.3	0.258
8	105.0	1634.8	1542.9	43.1	0.229
9	120.0	1688.6	1596.7	45.4	0.206
10	135.0	1727.0	1635.1	47.4	0.188
11	150.0	1748.6	1656.6	49.1	0.172

REF	MINUTES	PRESSURE	ΔP	$\frac{i \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
12	164.9	1764.9	1672.9	50.6	0.159
13	180.0	1777.7	1685.8	52.0	0.148
14	195.0	1790.2	1698.3	53.1	0.138
15	210.0	1800.5	1708.5	54.2	0.130
16	225.0	1810.2	1718.2	55.1	0.122
G 17	235.5	1816.6	1724.7	55.7	0.117

REMARKS:

TICKET NO: 69016200
 CLOCK NO: 12118 HOUR: 24



GAUGE NO: 6039
 DEPTH: 5627.0

REF	MINUTES	PRESSURE	ΔP	$\frac{1 \times \Delta t}{1 + \Delta t}$	$\log \frac{1 + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	61.5			
2	3.0	64.0	2.5		
3	6.0	67.9	3.9		
4	9.0	71.3	3.4		
5	12.0	74.6	3.4		
C 6	13.2	74.9	0.3		
FIRST CLOSED-IN					
C 1	0.0	74.9			
2	6.0	109.1	34.2	4.1	0.505
3	12.0	180.4	105.5	6.3	0.322
4	18.0	344.3	269.4	7.6	0.239
5	24.0	690.3	615.4	8.5	0.190
6	30.0	1053.8	978.9	9.2	0.158
7	36.0	1279.0	1204.1	9.7	0.136
8	42.0	1429.7	1354.8	10.0	0.119
9	48.0	1535.7	1460.8	10.4	0.106
10	54.0	1611.2	1536.3	10.6	0.095
11	60.0	1673.2	1598.3	10.8	0.086
12	66.0	1715.1	1640.2	11.0	0.079
13	72.0	1744.8	1669.9	11.2	0.073
14	78.0	1766.1	1691.2	11.3	0.068
15	84.0	1785.4	1710.5	11.4	0.063
D 16	91.5	1803.4	1728.5	11.5	0.059
SECOND FLOW					
E 1	0.0	97.4			
2	10.0	99.2	1.9		
3	20.0	104.9	5.6		
4	30.0	109.6	4.7		
5	40.0	114.8	5.2		
6	50.0	118.8	4.0		
F 7	59.8	122.0	3.2		
SECOND CLOSED-IN					
F 1	0.0	122.0			
2	15.0	205.4	83.4	12.5	0.768
3	30.0	447.3	325.3	21.2	0.536
4	45.0	979.3	857.3	27.8	0.419
5	60.0	1306.2	1184.2	32.9	0.346
6	75.0	1479.9	1357.9	37.0	0.295
7	90.0	1588.5	1466.5	40.3	0.258
8	105.0	1665.9	1543.9	43.1	0.229
9	120.0	1718.6	1596.6	45.4	0.206
10	135.0	1756.0	1633.9	47.4	0.188
11	150.0	1778.4	1656.3	49.1	0.172

REF	MINUTES	PRESSURE	ΔP	$\frac{1 \times \Delta t}{1 + \Delta t}$	$\log \frac{1 + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
12	165.0	1795.2	1673.2	50.6	0.159
13	180.0	1808.3	1686.2	51.9	0.148
14	195.0	1820.3	1698.2	53.1	0.138
15	210.0	1830.3	1708.2	54.2	0.130
16	225.0	1839.6	1717.5	55.1	0.122
G 17	235.5	1845.5	1723.5	55.7	0.117

REMARKS:



P&M

PETROLEUM
MANAGEMENT

SUITE 1700 • 1600 BROADWAY • DENVER • COLORADO 80202 • PHONE (303) 861-2470

January 10, 1985

RECEIVED
JAN 14 1985

STATE OF UTAH
DEPT. OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
4241 State Office Building
Salt Lake City, UT 84114

DIVISION OF
OIL, GAS & MINING

RE: #1-19R MCracken Federal
NW SW Sec. 19, T40S-R23E
San Juan County, UT

Gentlemen:

Enclosed please find a Report of Water Encountered During Drilling for the above referenced well, drilled as a dry hole in San Juan County, Utah. Please advise as to any questions or further information required.

Yours very truly,

Margo J. Medina

MM:s
Enclosures

cc: William W. Whitley

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
4241 State Office Building
Salt Lake City, UT 84114

RECEIVED
JAN 14 1985
DIVISION OF
OIL, GAS & MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number 1-19 R McCracken Fed
Operator P&M Address 1600 Broadway Suite 1700
Contractor COLEMAN Address Denver Co. 80202
FARMINGTON
Location NW 1/4 SW 1/4 Sec. 19 T. 40S R. 27E County SAN JUAN

Water Sands

	<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
	<u>From</u>	<u>To</u>	<u>Flow Rate or Head</u>	<u>Fresh or Salty</u>
1.	<u>475</u>	<u>500</u>	<u>3" stream</u>	<u>Fresh</u>
2.	<u>2650</u>	<u>2700</u>	<u>2" stream</u>	<u>SALTY</u>
3.				
4.				
5.				

(Continue on reverse side if necessary)

Formation Tops

Remarks

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

P & M PETROLEUM MANAGEMENT

#1-19R McCracken Federal
Section 19, T40S - R23E
San Juan County, Utah

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SUMMARY

WELL NAME: P & M Petroleum Management
#1-19R McCracken Federal

WELL LOCATION: NW $\frac{1}{4}$ of SW $\frac{1}{4}$ of Section 19, T40S - R23E
(358' F.W.L. & 2059' F.S.L.)
San Juan County, Utah

TYPE: Wildcat

ELEVATION: 4503 feet - Ground
4517 feet - Kelly Bushing

TOTAL DEPTH: 5675 feet - Driller
5675 feet - Gearhart

GEOLOGIST: Achille Vitali, Jr.
6670 West 28th Avenue
Denver, Colorado 80214

CONTRACTOR: Coleman Drilling Company
Farmington, New Mexico
Rig #4 - Brewster N-45
Pump #1 - O.P.I. 700
Pump #2 - Wilson 600
Pusher - Don Vestal

DRILLING FOREMAN: Stan Thompson

COMMENCED: Spudded - 5:00 PM, December 14, 1984

COMPLETED: Finished Drilling - 4:30 PM, December 27, 1984
Logged with Gearhart - December 28, 1984
Plugged and Abandoned - December 28, 1984

CASING RECORD:

Surface Casing

Landed 32 joints of 24#, K-55, 8 5/8 inch casing at 1292 feet kb. Cemented casing with 450 sacks of class 'B' regular cement followed by 150 sacks of Thixotropic cement. Had no cement returns at surface. Pumped 50 sacks of regular cement down annulus.

LOGGING RECORD:

Samples

Caught 4000' - 5675'

Described 4900' - 5675'

Drilling Time

Geolograph 80' - 5675'

Mechanical Log

Gearhart

Dual Induction Laterolog 1290' - 5674'

Compensate Density and Neutron Log 4000' - 5674'

FORMATION TOPS

<u>FORMATION AND AGE</u>	<u>SAMPLE TOPS</u>	<u>LOG TOPS</u>	<u>DATUM</u>
<u>Jurassic</u>			
Morrison Formation	- - -	Surface	+4503'
Entrada Formation	- - -	- - -	- - -
Carmel Formation	- - -	- - -	- - -
<u>Triassic</u>			
Navajo Formation	- - -	- - -	- - -
Kayenta Formation	- - -	- - -	- - -
Wingate Formation	- - -	- - -	- - -
Chinle Formation	- - -	1400'	+3117'
Moenkopi Formation	- - -	2200'	+2317'
<u>Permian</u>			
Cutler Formation	- - -	2430'	+2087'
Rico Formation	- - -	3255'	+1262'
<u>Pennsylvanian</u>			
Hermosa Formation	- - -	4405'	+ 112'
Paradox Formation	5100'	5106'	- 589'
Ismay Member	5310'	5310'	- 793'
Desert Creek Member	5532'	5534'	-1017'

DRILL STEM TESTS

DRILL STEM TEST #1 Lower Ismay 5409' to 5440' (31')

Halliburton Tester. Bottom Anchor.

Tool opened with a fair blow, increased to strong in 1 minute. Gaged blow of 2 pounds on 1/8 inch choke in 5 minutes. Blow increased to 3 pounds in 10 minutes and remained steady to end. Reopened tool with strong blow that increased to 3 pounds in 5 minutes and remained steady to end. No gas or oil to surface.

Recovered: 90 feet slightly oil and gas cut mud.

<u>Pressures</u>		<u>Time</u>
IHP	2746#	
IFP	53/67#	15 minutes
ISIP	913#	75 minutes
2nd FP	53/80#	60 minutes
FSIP	859#	120 minutes
FHP	2746#	
Temperature	126°F.	

Sample Chamber Recovery: Pressure - 80#
2200 cc slightly oil and gas cut mud
.01 cubic gas

Drill Stem Test #2 Desert Creek 5585' to 5630' (45')

Halliburton Testers. Bottom Anchor.

Tool opened with a very weak blow (1" water). Remained steady to end. Reopened with weak blow (1" water) that declined slightly at end to very weak blow (1/8" water).

Recovered: 180 feet rat hole mud with slight gas odor. Slightly watery in upper 90 feet.

<u>Pressures</u>		<u>Time</u>
IHP	2800#	
IFP	40/53#	15 minutes
ISIP	1801#	90 minutes
2nd FP	53/107#	60 minutes
FSIP	1828#	235 minutes
FHP	2800#	
Temperature	130°F.	

Sample Chamber Recovery: Pressure - 20#
600 cc mud

BIT RECORD

<u>NO</u>	<u>SIZE</u>	<u>MAKE</u>	<u>TYPE</u>	<u>IN</u>	<u>OUT</u>	<u>FEET</u>	<u>HOURS</u>	<u>PUMP PRESS.</u>
1	12 1/4"	Reed	FP53	80'	1292'	1212'	15	1700#
2	7 7/8"	Smith	F27	1292'	4705'	3413'	113	1900#
3	7 7/8"	Varel	V537	4705'	5440'	735'	68 1/4	1900#
4	7 7/8"	Varel	V537	5440'	5675'	235'	19 1/2	1900#

DEVIATION RECORD

<u>DEPTH</u>	<u>DEVIATION</u>
150'	1°
470'	1/4°
948'	3/4°
1262'	2°
1775'	2°
2266'	1/2°
2763'	1/2°
3249'	1°
3895'	1°
4389'	1/4°
4667'	1/2°
5162'	1/2°
5440'	3/4°

CHRONOLOGICAL SUMMARY

December 13 Moved in.

December 14 Rig up. Spudded 5:00 PM.
Drilling surface hole.

December 15 Finished drilling surface hole. Ran surface
casing. Wait on cement. Nipped up.

December 16 Finished nipping up. Drilled cement.
(Encountered plug and cement at 730 feet.)
Drilled out and making new hole at 1:00 PM.
Drilling ahead.

December 17 - 24 Drilling ahead.

December 25 Ran Drill Stem Test #1 in Lower Ismay Zone.
Drilling ahead.

December 26 Drilling ahead. Running Drill Stem Test #2
in Desert Creek Zone.

December 27 Finished Drill Stem Test #2. Drilling ahead.
Reached T.D. at 4:30 PM. Prepared to run logs.

December 28 Ran Gearhart logs. Plugged and abandoned hole.

REMARKS

Hydrocarbon Evaluation

Lower Ismay Zone

An erratic drilling time break of 16 feet (5424' to 5440') was investigated by Drill Stem Test #1 (5385' to 5440'). The results indicate a disappointing lack of effective productive porosity and permeability as shown by the recovery of only 90 feet of very slightly oil and gas cut mud and the very low flow and shut in pressures. Density log porosity varies from zero to an occasional 5%, but tracks primarily in the 2 to 4% porosity range.

It appears certain that productive porosity and permeability found in the Davis #1 McCracken Point Federal, located 300 feet to the East, has been effectively eliminated in this hole.

Desert Creek Zone

The Density log indicates 6 feet (5595' to 5601') of relatively respectable 6 to 7% porosity. A Drill Stem Test (5585' to 5630') covering this and an additional 7 feet (5601' to 5608') of lower order (4%) porosity gave a most disappointing result. See Drill Stem Test #2 presentation.

Although the shut in pressure response was higher and better than that of the Ismay zone, the very low flow pressures and lack of any hydrocarbon recovery casts a negative potential on this zone.

It is believed that acid stimulation would probably result in fluid recovery from this zone. However, because of its flat structural position with Davis well and its relatively low Rt (40 ohms on deep induction), the resulting fluid production would most likely be a most uneconomical high ratio of water to any oil.

The decision to plug this hole is judged, therefore, to be sound.

All other horizons are judged to be tight or water bearing.

Operations

Daily operations were conducted efficiently and in good spirits.

Achille Vitali, Jr.
Geologist

P & M PETROLEUM MANAGEMENT

#1-19R McCracken Federal
Section 19, T40S - R23E
San Juan County, Utah

SAMPLE DESCRIPTION

(Note: Samples not lagged unless otherwise noted.)

<u>FROM</u>	<u>TO</u>	<u>In HERMOSA FORMATION</u>
4900'	4910'	Limestone, very light to light gray with buff cast in part, largely soft to earthy and chalky, plus Limestone, buff to tan to light brown, earthy looking to cryptocrystalline to dense, firm to hard and tabular, trace Limestone, off-white, dense to crystalline, firm, blocky, some Limestone, medium to dark gray, soft, shaly, trace Fossil shell fragments.
4910'	4920'	Siltstone, light to medium gray with green cast, calcareous to limy, very finely sandy, friable to firm, finely micaceous in part, occasionally shaly, plus 30% Limestone, off-white to cream to buff, light tan, partly mottled, partly chalky to dense and thinly tabular, occasional trace Fossil (foraminifera).
4920'	4930'	60% Siltstone, as above, predominately firm to hard, 30% Sandstone, white to light gray, firm to hard, slightly calcareous, finely micaceous in part, plus 10% Limestone, as above.
4930'	4940'	Dolomitic Limestone, off-white to light gray buff to buff to occasionally tan and light brown, firm to hard, tabular to slightly blocky, in large part finely sandy, dense and tight, trace Fossil shell fragments.
4940'	4950'	Limestone, dolomitic in part, predominately buff to tan, dense and lithographic, tabular to blocky, plus 10% Limestone, cream, soft to firm, thinly tabular, trace Chert, clear to faint amber.
4950'	4960'	30% Chert, faint amber to clear to slightly milky, brittle, plus Limestone, cream to buff to tan, with some light brown, dense, chunky, trace Fossil (crinoid stem).

Sample Description
 #1-19R McCracken Federal

<u>FROM</u>	<u>TO</u>	
4960'	4970'	Limestone, medium to dark gray to black, very firm to hard, chunky to blocky, in part slightly shaly (?), slightly fossiliferous, algae, crinoid stem, Bryozoa (?), shell fragments, etc., plus trace Sandstone, white, limy, very coarse grain, angular, plus small fraction Limestone, as above with Chert, as above.
4970'	4980'	Limestone, dark gray to black, slightly shaly to shaly in part, firm, chunky, finely crystalline in part, grading to limy Shale, firm, chunky, heavy trace Chert as above.
4980'	4990'	Limestone, very light to medium gray, grainy and pelletoidal, soft to firm, some slightly chalky, chunky to blocky, tight.
4990'	5000'	Limestone, buff to tan, platy to tabular, dense and lithographic, hard, brittle, sharp edges.
5000'	5010'	Limestone, as above, with 15% cream, chalky and soft, plus 5% Chert, clear to slightly milky to faint amber, translucent.
5010'	5020'	Limestone, tan to light brown, some with slight olive cast, sub-lithographic to slightly and occasionally pelletoidal, greasy looking, trace Limestone, cream, chalky type, soft.
5020'	5040'	Limestone, very dark gray to black with brown cast in part, firm to hard, dense to partly and finely crystalline, shaly in part (?), irregularly platy to chunky, brittle.
5040'	5050'	Limestone, light to medium gray, firm, occasionally fine grains pelletoidal, some soft, mostly firm, occasionally slightly fossiliferous, plus 40% Limestone, buff to tan, grading to light brown, dense and lithographic, tabular to blocky.
5050'	5060'	Limestone, very light gray with slight buff cast in part, largely and very finely pelletoidal, soft to firm, chunky, plus 10 to 15% Limestone, buff to tan as above.
5060'	5070'	Limestone, white to cream to faint gray, soft and chalky to firm and dense, flaky to tabular to chunky, slightly fossiliferous in part, crinoid stem, other specie fragments (?).
5070'	5090'	Limestone, buff, light gray buff, some tan, predominately dense to sub-lithographic, finely chunky and blocky, occasional rare crinoid and trace other Fossil fragments, species (?), plus traces Chert, clear and amber type.
5090'	5100'	Limestone, off-white to very light gray, light gray buff, some buff and tan, micro to finely grainy with light to heavy pelletoidal, predominately firm to slightly hard, chunky.

Sample Description
 #1-19R McCracken Federal

<u>FROM</u>	<u>TO</u>	
5100'	5110'	Limestone, cream to buff, 15 to 20% finely grainy and pelletoidal, soft, rest sub-lithographic and dense, tabular to blocky, some chalky and soft. (<u>Top PARADOX FORMATION Lags back to ±5100'</u>)
5110'	5130'	Shale, medium to dark gray, soft to slightly firm, very calcareous to limy, satin surface, thick flakes, subfissile in part.
5130'	5140'	20% Shale, as above, 80% Limestone, cream to buff with some mottled tan, dense, some soft and chalky, predominately firm to hard, brittle, tabular to blocky.
5140'	5150'	70% Limestone, off-white to light gray with some cream to buff and occasional tan and light brown, plus 30% Shale, predominately light to medium gray, similar to as above, plus some dark to very dark gray.
5150'	5160'	Shale, predominately medium brown, earthy looking, firm, very calcareous, chunky, occasionally mottled with grays.
5160'	5170'	Limestone, predominately buff to tan to brown, some cream and chalky, some very light to light gray, cryptocrystalline, firm to slightly hard, predominately chunky, plus heavy traces Shale, medium to dark gray as above.
5170'	5180'	Limestone, off-white to cream, predominately very light to light gray, with slight olive cast, dense, roughly tabular, plus 20% Shale, dark gray to black, subfissile, slightly brittle, calcareous to limy.
5180'	5190'	Limestone, some slightly dolomitic, very light gray to buff, dense, brittle, sub-lithographic, tabular to chunky.
5190'	5200'	Limestone, buff to faint tan, some faint gray or olive cast, dense, brittle, sub-lithographic to occasionally slightly and very finely grainy, 10% creamy and soft. <u>Trip for hole in pipe at 5206'</u>
5200'	5210'	Predominately caving from trip, Shale, predominately light gray, soft, finely micaceous, bentonitic, plus reds, brown, gray greens, soft to firm clay type, some calcareous to very calcareous, plus small fraction Limestone, as below.
5210'	5220'	Limestone, light to medium gray, plus buff to brown, dense, tabular to blocky, mostly lithographic, plus 10% Chert, medium smoky brown.
5220'	5230'	Missed.

Sample Description
 #1-19R McCracken Federal

<u>FROM</u>	<u>TO</u>	
5230'	5250'	Limestone, cream buff, dense and lithographic, tabular to blocky.
5250'	5280'	Limestone, cream, some soft and slightly chalky to in part grainy and pelletoidal, grading to 60% buff, lithographic type, as above, plus 5% Chert (in 5270-80' sample) slightly milky and amber type.
5280'	5290'	Limestone, buff, grading to tan with faint gray cast, lithographic, tabular to blocky, trace Chert as above.
5290'	5300'	Limestone, buff and tan, as above, plus some light to medium brown with gray cast, lithographic to cryptocrystalline, predominately chunky with some tabular and blocky.
5300'	5310'	Limestone, medium gray and tan-olive, dense, tabular to blocky, plus heavy trace Chert, light smoky gray and slightly milky, plus heavy trace Shale, dark gray to black, flaky, slightly firm, calcareous.
5310'	5320'	60% Shale, very dark gray to black, firm, very calcareous to limy, plus rest Limestone as above.
		<u>(Top of ISMAY - lags back to 5310')</u>
5320'	5330'	25% Shale, as above, plus 75% Limestone, light to medium gray, buff-olive, some tan and light brown, dense, predominately lithographic.
5330'	5350'	Limestone, some off-white, chalky and soft, predominately faint to light buff with slight olive cast in part, tabular to blocky, predominately lithographic, occasionally slight fossiliferous.
5350'	5370'	Limestone, some cream and chalky, soft, predominately buff to very light gray with olive cast, dense and lithographic, brittle, tabular to blocky, 5 to 10% Chert, light smoky translucent type.
5370'	5380'	Limestone, as above.
5380'	5400'	Limestone, 10 to 15% off-white, chalky, soft, predominately light to medium gray with olive cast, some streaked and mottled with light to dark brown residue stain with 20 to 40% becoming brown to brown-black with residue stain, appears to be made up of abundant Fossil hash, all tight with No fluorescence or cut.

Sample Description
#1-19R McCracken Federal

<u>FROM</u>	<u>TO</u>	
5400'	5410'	50% Limestone, dark brown to black Fossil hash, heavy residue stain, soft to firm, tight, plus rest Limestone, off-white to light gray with occasional streaks and mottling of brown residue, soft to hard, tight, No Show, heavy trace Chert, dark smoky gray and dark brown, trace light smoky gray.
5410'	5420'	Limestone, light to medium gray, in part with buff cast, small fraction chalky, rest dense, tight, occasional fossiliferous, plus 10 to 15% Limestone, medium to dark brown, grading to black, dense, tight, asphaltic residue impregnated, plus heavy traces to 3% Chert, dark brown.
5420'	5440'	Limestone, 60 to 80% brown to dark brown-black, dense, hard, sub-lithographic, tabular to blocky, plus 5% Chert, dark brown, plus in 5430-40 foot sample heavy trace Shale, black, soft, slightly calcareous, carbonaceous.

Drilling Break at 5424' Drilled to 5440'

17 feet drilled in 53 minutes. Averaged $3\frac{1}{3}$ minutes per foot - (previous average 6 minutes per foot) ranged from $1\frac{1}{2}$ to $4\frac{1}{2}$ minutes per foot.

Four Extra Lagged Samples

Limestone, white to very light gray, occasionally some light buff, abundance of soft chalky type, rest predominately dense, some appears hashy with Fossil fragments, light to fair evidence of vugginess in form of Calcite crystals on edges and sides, plus some loose Calcite crystals, plus scattering of clusters made up of aggregate Calcite crystals, actual good vug cavities rare, porosity and permeability may be on tight side, 20 to 30% faint yellow fluorescence with 5 to 10% bright yellow spots, all in chalky type, faint yellow slow cut on bright yellow pieces.

20, 40, 60 Minute Circulation Samples

Limestone, generally as above, with 60 Minute Circulation Sample consisting of less chalky type and more of dense type Limestone, also the general faint yellow fluorescence increased to 50 to 60% while being as above in bright yellow spotty type.

5440'	5460'	Caving.
5460'	5470'	Limestone, as above, less of chalky type, with evidence of vugginess, as above, plus 30% fluorescence, as above.

Sample Description
#1-19R McCracken Federal

<u>FROM</u>	<u>TO</u>	
5470'	5480'	Limestone, white to off-white as above, vugginess amount increased somewhat, predominately dense type, fluorescence increased to 40%, cut as above.
5480'	5490'	Limestone, as above, fluorescence as above, slightly earthy looking in part.
5490'	5500'	Limestone, light gray with faint to light yellow buff cast, slightly earthy looking in part, cryptocrystalline in part, chunky, firm to slightly hard, tight.
5500'	5510'	Limestone as above, with some a faint mustard, platy to blocky, dense, plus 50% Shale, black, tabular to platy, hard, brittle, very calcareous to limy, some cryptocrystalline. <u>'C' Shale lags back to 5491'</u>
5510'	5540'	Shale, black, some with very dark brown cast, soft to hard and brittle, very calcareous, chunky to platy, very finely carbonaceous, stains black. <u>Top DESERT CREEK 5532' (drilling time)</u>
5540'	5550'	Predominately Shale as above, plus 20% Limestone as below.
5550'	5560'	Limestone, medium to dark gray, micrograiny, cryptocrystalline to micropelletoidal, firmly friable to firm to hard, shaly in part(?), some earthy looking, thickly platy to chunky.
5560'	5570'	Anhydrite, light to medium tattle tale gray, in part mottled very light gray and white, soft to firm, cryptograiny, plus some white mushy type and white translucent type, occasionally slightly fibrous, plus 20% Limestone as above.
5570'	5580'	30% Anhydrite, all type as above, plus 70% Limestone, very dark gray with slight brown cast, massive, hard, brittle, thin to thickly tabular, slightly argillaceous in part, slightly greasy looking in large part.
5580'	5600'	Limestone, very light to light gray, cryptocrystalline to microcrystalline, some micropelletoidal, tight, No Show, plus heavy traces Anhydrite, white, fibrous type.
5600'	5610'	Limestone, very light gray, some to light gray, occasionally some cream to buff, soft, cryptocrystalline to lithographic, some medium dark gray, shaly, No Show.

Sample Description
#1-19R McCracken Federal

FROM TO

Drilling Break 5593' to 5599' - 6 feet drilled at even 2

minutes per foot, also 5599' to 5604' drilled at even 2 $\frac{1}{2}$ minutes

per foot.

First Extra Lagged Sample

Limestone, light gray, cryptocrystalline to lithographic, some buff-tan, dense, lithographic, 15% Limestone, cream to cream-buff, chalky, soft, occasional trace Fossil hash, rare micro vugs, heavy trace bright fluorescence, mostly in chalky pieces, faint to fair crushed cut.

Second and Third Extra Lagged Samples

Limestone, predominately cream to faint buff, chalky type, plus buff, and buff to light gray, occasionally some tan, dense and lithographic to cryptocrystalline, largely tabular, light to heavy traces Fossil debris, occasional trace rare porosity and permeability and micro vugginess, 25 to 30% bright yellow spots, mostly in chalky type, light to bright yellow crushed cut.

Fourth Extra Lagged Sample

Limestone, predominately cream to faint buff, some with slight olive cast, lithographic, occasionally loose Calcite crystals and occasional Calcite crystal growth along edges, rare whole vugs plus abundant cream chalky type, 20% bright yellow fluorescence in chalky type as above, cut as above.

Fifth Extra Lagged Sample

Limestone, 60% cream chalky type, rest creamy to buff, slightly earthy looking, plus some faint gray with olive cast, largely tabular, fair evidence Fossil debris, very heavy trace to 5% porosity and permeability with micro vugs, some free Calcite and Calcite crystals on edges, 25 to 30% dull to bright yellow fluorescence, predominately in chalky type, as above, cut as above.

5600' 5610' Limestone, very light to light gray, some faint brown cast, very firm to hard, cryptocrystalline, chunky, platy, plus some off-white to cream chalky type, No Show.

5610' 5620' Limestone, predominately very light gray, some mottled with faint buff, predominately cryptocrystalline, some almost earthy looking, some cream chalky type, less 5% light to bright spotty fluorescence.

Sample Description
#1-19R McCracken Federal

<u>FROM</u>	<u>TO</u>	
5620'	5630'	Limestone, off-white to very light gray to faint buff, crypto-crystalline to slight earthy looking, occasional trace Fossil debris, fair scattering of pinpoint, micro and occasional larger vugs, occasional loose Calcite, plus abundant cream chalky soft type, 20% light to bright yellow fluorescence, light to bright yellow crushed cut.

Circulation Samples

30 Minute and 1 Hour

Limestone, off-white, light cream to light buff, dense to lithographic, tabular to blocky, +5% light gray, slightly earthy looking type, occasional trace Fossil debris, occasional trace pinpoint and micro vugs, 15 to 20% cream and white chalky type, 10 to 15% light to bright yellow fluorescence, cut as above.

Drill Stem Test #2

5630'	5640'	Caving.
5640'	5650'	Limestone, light to medium gray with olive cast, very light gray, buff and tan, predominately hard and lithographic, tabular to blocky, some trace of Fossil debris, crinoid stem, trace Chert, dark smoky brown-black.
		<u>Shale lags back to 5638' (drilling time)</u>
5650'	5660'	Limestone, as above, plus 20% Shale, dark brown-black to black, some hard, brittle, finely crystalline, very limy, rest firm to slightly hard, finely carbonaceous.
5660'	5670'	Shale, black, soft to firm, noncalcareous to calcareous, flaky to blocky, stains black.
5670'	5675'	Shale, black as above.

30 and 60 Minute Circulation Samples

Limestone, medium to dark brown and dark gray brown, plus some medium to dark gray, all cryptocrystalline to microcrystalline, chunky to blocky, brittle, tight, plus abundant Shale, black, as above.



P & M

PETROLEUM MANAGEMENT

SUITE 1700 • 1600 BROADWAY • DENVER • COLORADO 80202 • PHONE (303) 861-2470

January 10, 1985

BUREAU OF LAND MANAGEMENT
DISTRICT OFFICE
P.O. Box 970
Moab, UT 84532

RECEIVED
JAN 14 1985

DIVISION OF
OIL, GAS & MINING

RE: P & M PETROLEUM MANAGEMENT, OPERATOR
#1-19R McCracken Federal
NW SW Sec. 19, T40S-R23E
San Juan County, UT
Federal Lease No. U-40743

Gentlemen:

Enclosed in triplicate please find a Notice of Intention to Abandon and a Subsequent Notice Of Abandonment, along with the Completion Report on the subject well drilled as a dry hole in San Juan County, Utah.

Please advise as to any questions or further information required.

Yours very truly,

Margo J. Medina

MM:s
Enclosures

cc: BLM
Box 7
Monticello, UT 84535

BLM
1745 W. 1700 S. #2000
Salt Lake City, UT 84104

State of Utah
4241 State Office Bldg.
Salt Lake City, UT 84114

All Participants

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-40743

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 GAS WELL OTHER

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR
P & M PETROLEUM MANAGEMENT

8. FARM OR LEASE NAME
McCracken Federal

3. ADDRESS OF OPERATOR
1600 Broadway, #1700, Denver, CO 80202

9. WELL NO.
#1-19R

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface NW SW (358' FWL & 2059' FSL)

10. FIELD AND POOL, OR WILDCAT
Turner Bluff

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

Sec. 19, T40S-R23E

14. PERMIT NO.
API 43-037-31056

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
4499' G.L.

12. COUNTY OR PARISH
San Juan

13. STATE
UT

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other)

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other)

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

(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.)*

Plugged and abandoned well 12-19-84 as follows:

PLUG #1 5343-5293' 50 sx.
PLUG #2 4455-4355' 35 sx.
PLUG #3 2530-2330' 60 sx.
PLUG #4 1330-1080' 75 sx.
PLUG #5 surface 10 sx. w/steel marker, properly marked.

9.1#/gal mud was left in hole between plugs.

8 5/8" e 1292'
65090

RECEIVED
JAN 14 1985

DIVISION OF
OIL, GAS & MINING

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

SIGNED Robert J. Peterson TITLE Partner

DATE 1-10-85

(This space for Federal or State office use)

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

ACCEPTED
APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 1/17/85
BY: John R. Buse

*See Instructions on Reverse Side

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE
(See instructions on reverse side)

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

12

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other P & A

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

2. NAME OF OPERATOR
P & M PETROLEUM MANAGEMENT

3. ADDRESS OF OPERATOR
1600 Broadway, #1700, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 358' FWL & 2059' FSL NW SW
At top prod. interval reported below same
At total depth same

RECEIVED
JAN 14 1985

DIVISION OF
OIL, GAS & MINING

14. PERMIT NO. 43-037+31056 DATE ISSUED 8-8-84

5. LEASE DESIGNATION AND SERIAL NO.
U-40743

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
McCracken Federal

9. WELL NO.
#1-19R

10. FIELD AND POOL, OR WILDCAT
Undesignated
Turner Bluff

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 19, T40S-R23E

12. COUNTY OR PARISH
San Juan

13. STATE
UT

15. DATE SPUDDED 12-15-84 16. DATE T.D. REACHED 12-28-84 17. DATE COMPL. (Ready to prod.) P & A 12-29-84 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 4499' G.L. 19. ELEV. CASINGHEAD 4498' C.H.

20. TOTAL DEPTH, MD & TVD 5675' M.D. 21. PLUG, BACK T.D., MD & TVD --- 22. IF MULTIPLE COMPL., HOW MANY* P & A 23. INTERVALS DRILLED BY 0-5675' ROTARY TOOLS 0-5675' CABLE TOOLS ---

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
P & A 25. WAS DIRECTIONAL SURVEY MADE
No

26. TYPE ELECTRIC AND OTHER LOGS RUN
DI, GR/FDC Neutron 27. WAS WELL CORED
NO

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48	74'	17 1/2"	100 sx.	none
8-5/8"	24	1292'	12 1/4"	450 sx. Cl. B. foll. w/ 150 sx. thixotropic & 50 sx. down annulus	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)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

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)
<u>P & A</u>	-----	<u>P & A</u>

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
Geological Report, DST #1 & #2, DI, GR/FDC Neutron

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

SIGNED Robert H. Peterson, Jr. TITLE Partner DATE 1-10-85

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

General: This form is designed for submitting a complete and correct report 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. Also, any 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 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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			SEE ATTACHED GEOLOGICAL REPORT.

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
MORRISON	SURFACE	
CHINLE	1400'	
MOENKOPI	2200'	
CUTLER	2430'	
RICO	3255'	
HERMOSA	4405'	
PARADOX	5106'	
ISMAY	5310'	
DESERT CREEK	5934	



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

April 15, 1991

Mr. Donald G. Haley, President
First National Bank
140 West Main Street
P. O. Drawer A
Cortez, Colorado 81321

Dear Mr. Haley:

Re: Irrevocable Letter of Credit No. 39 (\$26,000) issued for the account C. W. Roach, Hay Hot Oil, Inc., McCracken Point Federal 1-19 Well, Sec. 19, T. 40S, R. 23E, San Juan County, Utah.

Enclosed is the referenced Letter of Credit, received on March 18, 1991, which the division does hereby release as bond coverage for the McCracken Point Federal 1-19 Well.

The division was originally advised by the Bureau of Land Management that our agency should hold the bond for this well, however, the division was later contacted and advised that the Bureau of Land Management would hold the bond for the well. We apologize for the inconvenience this matter may have caused.

Should you have any questions regarding this matter, please contact me at (801)538-5340.

Sincerely,

R. J. Firth

Associate Director, Oil & Gas

lcr

Enclosures

cc: Hay Hot Oil, Inc.

Brian Wood, Consultant

Bob Turri, Bureau of Land Management

Gil Hunt, UIC Manager

Bond File

WE37/41

IRREVOCABLE DOCUMENTARY LETTER OF CREDIT - FORM 4-C

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

RECEIVED
DIVISION OF OIL, GAS AND MINING
FEB 25 1991

Gentlemen:

We hereby establish our Irrevocable Documentary Letter of Credit in favor of the Director of the Division of Oil, Gas and Mining of the State of Utah for the account of
C.W. Roach, Hay Hot Oil, Inc. (operator name) for the aggregate amount of
Twenty six thousand and no/100-----dollars (\$26,000.00)
available by your drafts at sight on the bank when drawn in accordance with the terms and accompanied by the documents listed under Part C below:

A. This Letter of Credit is issued because the operator is or will be engaged in drilling, re-drilling, deepening, repairing, operating, and plugging and abandonment a well or wells and restoring the well site or sites in the State of Utah for the purposes of oil or gas production and/or the injection and disposal of fluids in connection therewith for the following described land or well:

Blanket Bond: To cover all wells drilled in the State of Utah
X Individual Bond: Well No. McCracken Point Federal 1-19
Section 19 Township 40 S. Range 23 E.
San Juan County, Utah

B. This Letter of credit is specifically issued at the request of the operator as guaranty that this fund will be available during the time that the wells referenced above are active. We are not a party to, nor bound by, the terms of any agreement between you and the operator out of which this Letter of Credit may arise.

C. Drafts drawn under this Letter of Credit must be accompanied by an affidavit from the Director of the Division of Oil, Gas and Mining stating that:
1. Any well subject to the Letter of Credit is deemed necessary for plugging and abandonment and the operator has not fulfilled such obligation under the Oil and Gas Conservation General Rules of the State of Utah.
2. The draft is in the estimated cost of plugging each well subject to the Letter of Credit up to the aggregate amount of the Letter of Credit.
We will be entitled to rely upon the statements contained in the affidavit and will have no obligation to independently verify any statements contained therein.

Each draft hereunder must be listed and endorsed on the reverse side of this Letter of Credit, and this Letter of Credit must be attached to the last draft when the credit has been exhausted. Drafts may be presented at the office of this bank no later than 2:00 p.m. (local time) on February 25, (date), 19 92, and bear the clause "Drawn under the First National Bank, Cortez (Bank name), Bank Letter of Credit No. Thirty Nine (39), dated February 25,, 19 91."

THIS LETTER OF CREDIT SHALL BE DEEMED AUTOMATICALLY EXTENDED FOR A PERIOD OF ONE YEAR FROM THE CURRENT OR ANY FUTURE EXPIRATION DATE HEREOF, UNLESS AT LEAST 90 (NINETY) DAYS PRIOR TO SUCH EXPIRATION DATE, WE NOTIFY YOU THAT WE HAVE ELECTED NOT TO EXTEND THIS LETTER OF CREDIT FOR SUCH ADDITIONAL PERIOD.

We hereby engage with the bona fide holders of this draft and/or documents presented under and in compliance with the terms of this Letter of Credit that such draft and/or documents will be duly honored upon presentation to us. Our obligations hereunder shall not be subject to any claim or defense by reason of the invalidity, illegality, or unenforceability of any of the agreements upon which this Letter of Credit is based.

Bank Name: First National Bank, Cortez
By: *Donald G. Haley*
(Name): Donald G. Haley
(Title): President 303/565-3781
Tel. no.

(Seal)

Attest:
Byron E. Mayers
Assistant Cashier or Cashier
Feb. 25, 1991

Address of Bank:
140 W. Main - PO Drawer A
Cortez, CO 81321

Date

Supulation —

- * 2. In the event the McCrosken Federal #1-19R well is completed as a producer, the McCrosken Point Federal #1 well, located 2040' FSL and 660' FWL of section 19, will be plugged and abandoned within a reasonable period of time.