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AUG 20 1984



FUELEX
FUEL EXPLORATION, INC.

1200 LINCOLN TOWER
1860 LINCOLN STREET
DENVER, COLORADO 80295
(303) 892-6563

DIVISION OF OIL
GAS & MINING

August 17, 1984

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
4241 State Office Building
Salt Lake City, Utah 84114

RE: Application for Permit to Drill
NW $\frac{1}{4}$ SE $\frac{1}{4}$ -Section 10-T9S-R19E-SLM
Pariette Bench Field
Uintah County, Utah

Gentlemen:

Enclosed please find the following materials, submitted in triplicate for your approval:

1. Application for Permit to Drill
2. Survey plat
3. 10-Point Well Prognosis
4. Proposed Completion Program
5. Blow-out Preventor diagrams
6. 13-Point Surface Use Plan, with accompanying exhibits
7. Archeological-Environmental survey
8. Utah State application for appropriation of surface water.

We request approval of this application. Thank you for your assistance.

Yours truly,

FUEL EXPLORATION, INC.

Jennifer Melton
Landman

JM/dc
Encls.

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

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

5. Lease Designation and Serial No.

U - 46689

6. If Indian, Allottee or Tribe Name

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

Fuel Exploration, Inc.

3. Address of Operator

1860 Lincoln St., Suite 1200, Denver, CO 80295

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface 1980' FSL, 1982' FEL (NW SE) Sec. 10

At proposed prod. zone same as above

SLM Survey

RECEIVED

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DIVISION OF OIL GAS & MINING

7. Unit Agreement Name

8. Farm or Lease Name

Federal

9. Well No.

#1-10

10. Field and Pool, or Wildcat

UNDESIGNATED Pariaette Bench Field

11. Sec., T., R., M., or Blk. and Survey or Area

Sec. 10-T9S-R19E

14. Distance in miles and direction from nearest town or post office*

21 miles Southeast of Myton, Utah

12. County or Parrish 13. State

Uintah Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. line, if any)

1000' FNL

16. No. of acres in lease

464.48

17. No. of acres assigned to this well

40 acres

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.

None

19. Proposed depth

5500'

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc.)

4720' GR.

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
12-1/4"	8-5/8"	24#	550'	400 sx 50-50 Pozmix
7-7/8"	5-1/2"	15.5#	5500'	400 sx 50-50 Pozmix

Operator proposes to drill a Green River development well. If commercial production is found, 5-1/2" casing will be set. If well is dry, it will be plugged and abandoned in accordance with State and federal regulations. 10" Series 900 blowout prevention equipment will be in use from 550' to TD.

Additional Information:

1. SORA - not applicable. Surface is owned by BLM.
2. Designation of Operator - not applicable. Lease is owned 100% by Fuel Exploration.
3. Delegation of Authority to Agent - not applicable. Well will be drilled by Fuel Exploration as operator.
4. Lease bond - \$10,000 individual well bond has been posted by the BLM.
5. State Spacing Rule - well is in center of legal subdivision and complies with State spacing order.

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: Raymond O. Davitts Title: President Agent and Attorney-in-fact Date: _____

(This space for Federal or State office use)

Permit No. _____ Approval Date _____

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

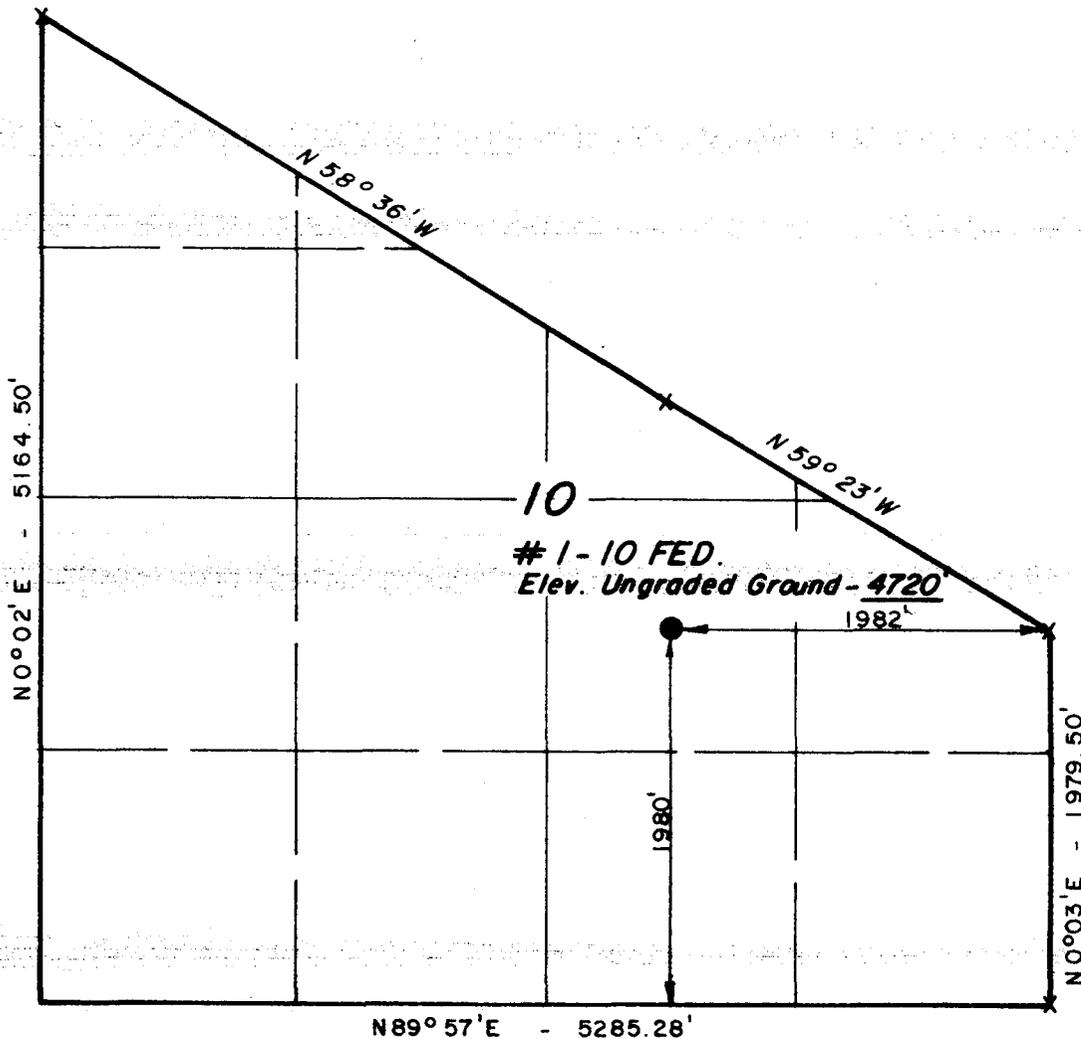
APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 8/27/84
BY: John R. Dyer

*See Instructions On Reverse Side

T 9 S , R 19 E , S.L.B.&M.

PROJECT
FUEL EXPLORATION, INC.

Well location, # 1 - 10 FED., located
as shown in the NW 1/4 SE 1/4 Section
10, T9S, R19E, S.L.B. & M.
Uintah County, Utah.



X = Section Corners Located



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

Robert J. ...

REGISTERED LAND SURVEYOR
REGISTRATION NO 2454
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q - 85 SOUTH - 200 EAST
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	9/29/83
PARTY	DA RT RP	REFERENCES	GLO Plat
WEATHER	Fair	FILE	FUEL EXPL.

10-POINT WELL PROGNOSIS
 FUELEX FEDERAL #1-10
 NW SE SECTION 10-T9SR19E
 UINTAH COUNTY, UTAH

1. Surface formation: Quaternary Alluvium

2. Estimated tops:	<u>Depth</u>	<u>Datum</u>
Green River	1280'	+3440
Douglas Creek	4400'	+ 320
Wasatch	5300'	- 580

3. Estimated depth of anticipated oil, gas, water:

Quaternary Alluvium	200'	fresh water
Douglas Creek	4500'	oil, gas

4. Proposed casing program:

	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Depth</u>	<u>Safety Factor</u>		
					<u>Burst</u>	<u>Collapse</u>	<u>Tension</u>
Conductor	20"	Galv	Culvert	0-40'	-	-	-
Surface	8-5/8"	24#	J-55 STC New	0-550'	5.36	2.49	18.48
Production	5-1/2"	15.5#	J-55 STC New	0-5500'	1.75	1.22	2.37

Conductor to be cemented to surface w/concrete.

Surface to be cemented to surface w/300 sx 50-50 pozmix 2% gel, 1/2#/sk flocele, 3% CaCl₂. Tail-in w/100 sx Class "H", 3% CaCl₂. Production to be cemented w/ 300 sx 50-50 Pozmix, .2% fluid-loss agent, 1/2#/sk flocele, 3/4% turbulence inducer. Tail-in w/100 sx class "H", 3/4% turbulence inducer, .2% fluid loss agent.

All strings except conductor will be pressure tested to .2 psi/ft or to 1000 psi, whichever is greater.

5. Minimum specifications for pressure control equipment: Refer to plats I and II for schematic diagrams of blowout preventor and choke manifold assembly. Plat III refers to completion blowout preventor schematic.

A. BOP's - Series 900 hydraulic double ram equipped w/pipe and blind rams (3000 psi W.P.).

B. Hydril - Series 900 hydraulic bag-type preventor (3000 psi W.P.).

C. Testing - Ram-type preventors and related equipment will be pressure tested to 2100 psi (70% of minimum internal yield of 8-5/8" surface pipe). Annular type preventor will be tested to 1500 psi (50% working pressure). All tests will be done at time of installation prior to drilling out, after any use under pressure, and at least every thirty days. Pipe rams will be operationally checked each twenty four hour period. Blind rams and annular preventor will be operationally checked each time pipe is pulled out of hole. Such operational checks of BOP's will be noted on daily drilling reports.

D. Accumulator - 90 gallon 3000 psi W.P. accumulator with two station remote control (rig floor and accumulator house). Manual operated hand wheels on BOP's for back-up control.

E. Accessories - floor safety valve, drill string BOP, choke manifold (PlatII). All rated to 3000 psi W.P.

6. Type and Characteristics of Proposed Circulating Muds:

Fresh water gel-lime slurry will be used from surface - 550'. Clear water w/gel lime sweeps will be used to 4200'. At 4200', or as hole conditions dictate,

mud up w/ a low solids, non-dispersed fresh water mud system. This system will be used to 5500' TD. Expected pore pressure .41-.45 psi/ft. (Measured in offset wells). Mud weight: 9.0-9.5 ppg (.47 psi/ft - .49 psi/ft), Vis: 35-40, water loss: less than 10 cc. Sufficient mud materials will be stored on location to control minor lost circulation and/or blowout problems. Formation fracture gradient: .68 psi/ft.

7. Auxiliary Equipment:

- A. Lower kelly cock - yes.
Upperkelly cock - no.
- B. Bit float - no.
- C. Mud logging unit, gas detecting device, and mud monitoring equipment will be in use from surface pipe to TD.
- D. A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string.
- E. A flow sensor will be in use from surface pipe to TD. Location of kill line indicated on BOP plat I.

8. Testing, Logging, Cores:

- A. One Drill Stem Test anticipated in Douglas Creek formation.
- B. No cores are planned.
- C. Dual Induction - SFL-GR from TD - 550'. CNL-FDC-GR from TD-550'.
- D. Stimulation procedures will be determined after evaluation of shows, tests and logs. If a frac treatment is needed, no alteration of location will be necessary OSHA regulations will be complied with. See attached drilling rig layout for frac equipment location.

9. Any Anticipated Abnormal Pressures or Temperatures:

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well. Bottom-hole pressure expected is 2500 psi (measured in offset wells).

No hydrogen sulfide or other hazardous fluids or gases have been found, reported, or known to exist at these depths in the area.

If any fresh water sands are encountered beneath surface casing, these will be covered with cement through a stage collar when 5- 1/2" casing is run.

- 10. Anticipated spud date is September 15, 1984 or as soon as possible. Duration of drilling operations is expected to be nine days. If production is anticipated, the drilling rig will be moved off location after drilling operations are completed. Completion activities will begin about ten days later, and a well service completion unit will be utilized at that time. Pressure control equipment and specifications will be the same for completion as for drilling, with the exception that the Hydril preventor will not be used. (Plat III).

Date 8/16/84

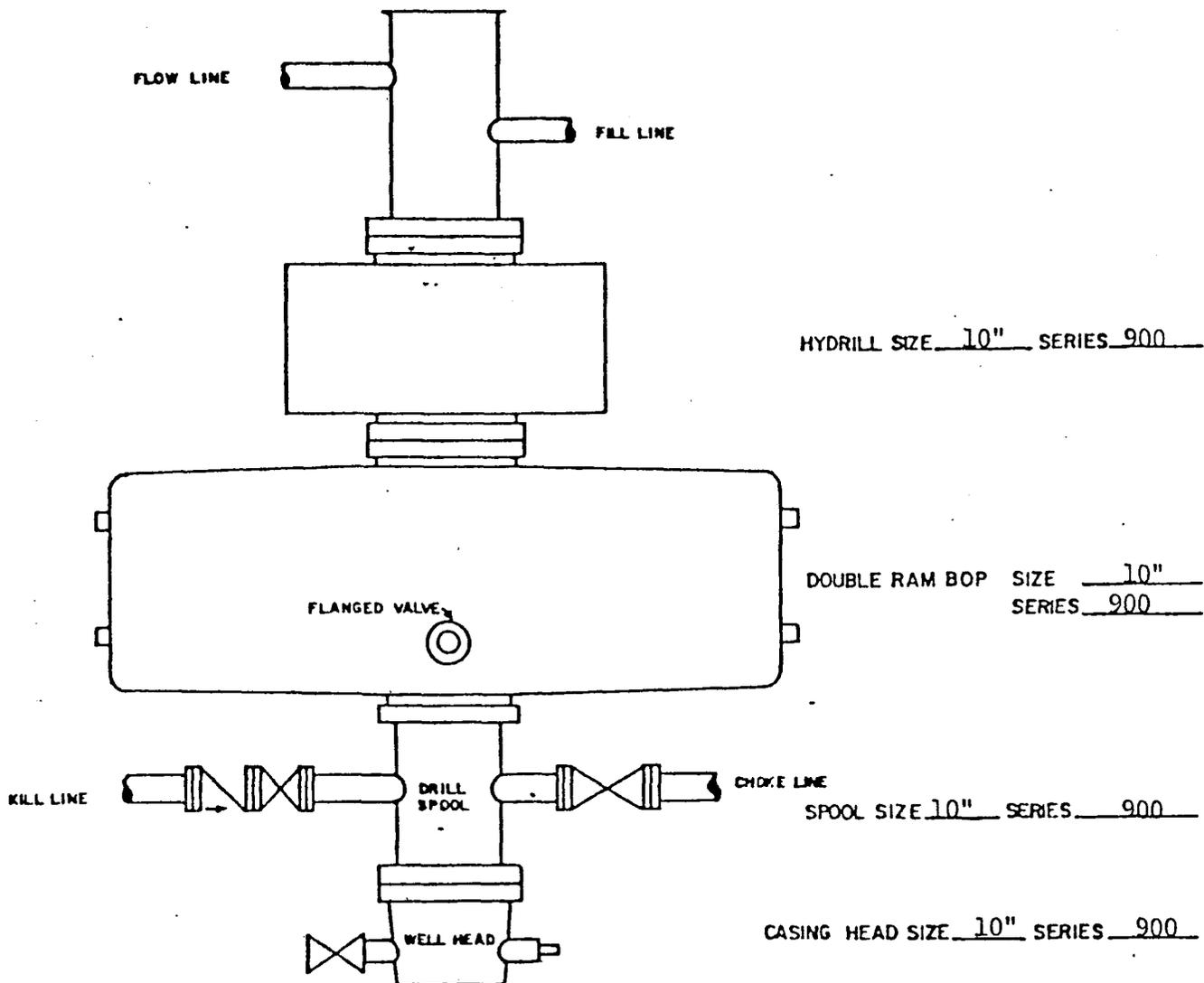
Matthew T. Rohret
MATTHEW T. ROHRET
PETROLEUM ENGINEER

PROPOSED COMPLETION
PROGNOSIS
FuelEx Federal #1-10
NW SE Section 10-T9S-R19E
Uintah County, Utah

1. MIRU completion unit. NU BOP's. PU tbg, bit and casing scraper. TIH TO PBTD. TOH w/tbg. Lay down bit and csg scraper. TIH w/pkr. Press test casing to 3000 psi. TOH, LD pkr.
2. Run CBL-GLL-GR PBTD to TOC. Perforate Douglas Creek (Green River) w/4" casing gun 2 SPF. TIH w/pkr. Set approximately 100' above top perf.
3. Swab down tbg. Breakdown and acidize perfs w/2000 gals 7- 1/2% HCL acid with additives. Pump rate 10 BPM. Max pressure 3000 psi. Swab or flow back load.
4. TOH LD pkr. Frac down casing with 110,000 gals gelled water at 30 BPM at 3000 psi. Total sand: 120,000 lbs 100 mesh
280,000 lbs 10/20 sand
5. TIH w/tbg, SN, and notched collar. Swab or flow back load until oil cut increases to 40%. Fin TIH to clean out casing to PBTD. TOH w/tbg. PU anchor. TIH w/tbg, SN and anchor-catcher. ND BOP's. NU wellhead. Run rods and pump.

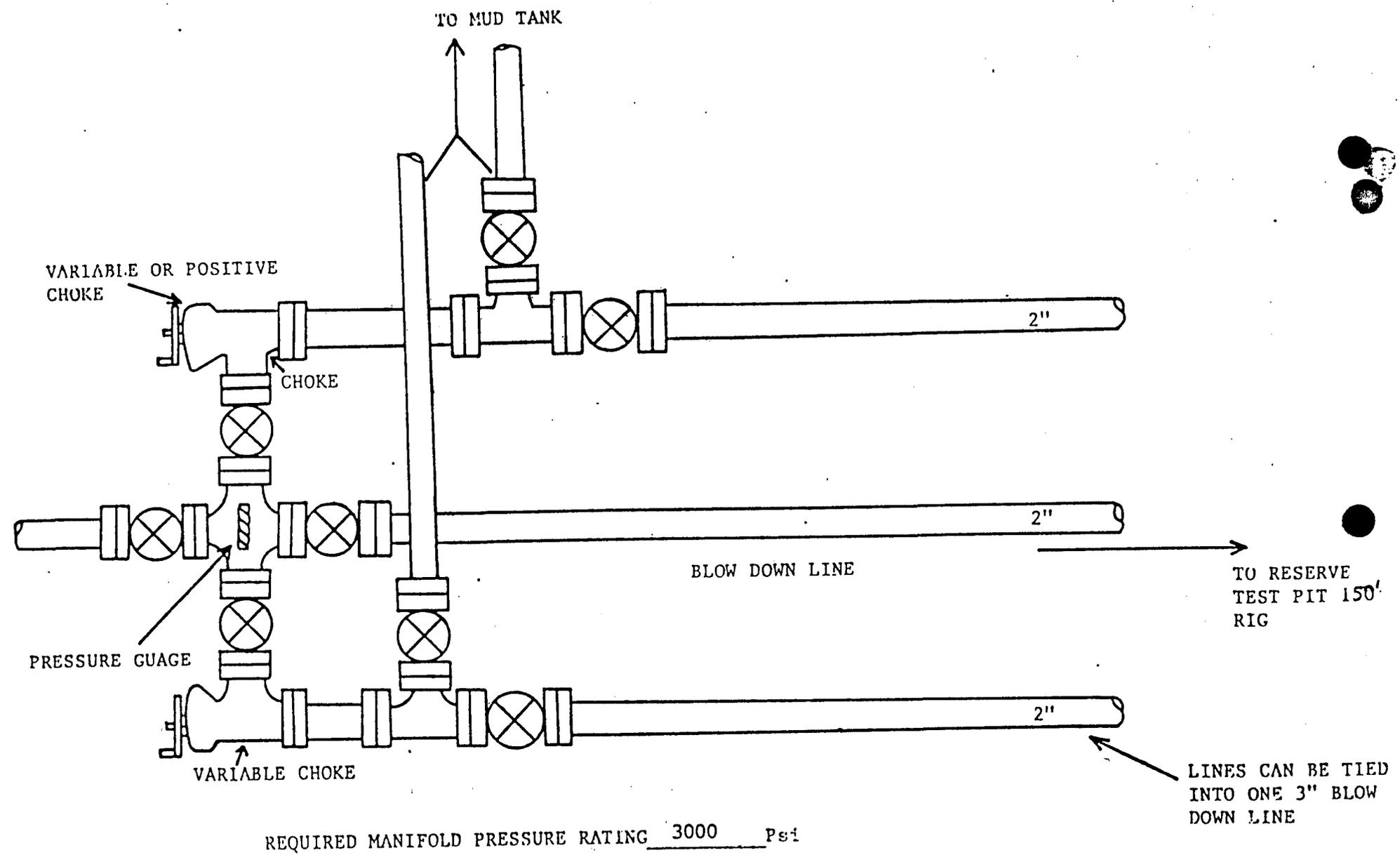
PLAT NO. 1
APPLICATION FOR PERMIT TO DRILL
BLOWOUT PREVENTOR DIAGRAM (HYDRAULIC)
CHOKE MANIFOLD IS ~~X~~ IS NOT _____ REQUIRED

FUEL EXPLORATION, INC.



PLAT NO. II
APPLICATION FOR PERMIT TO DRILL
CHOKE MANIFOLD

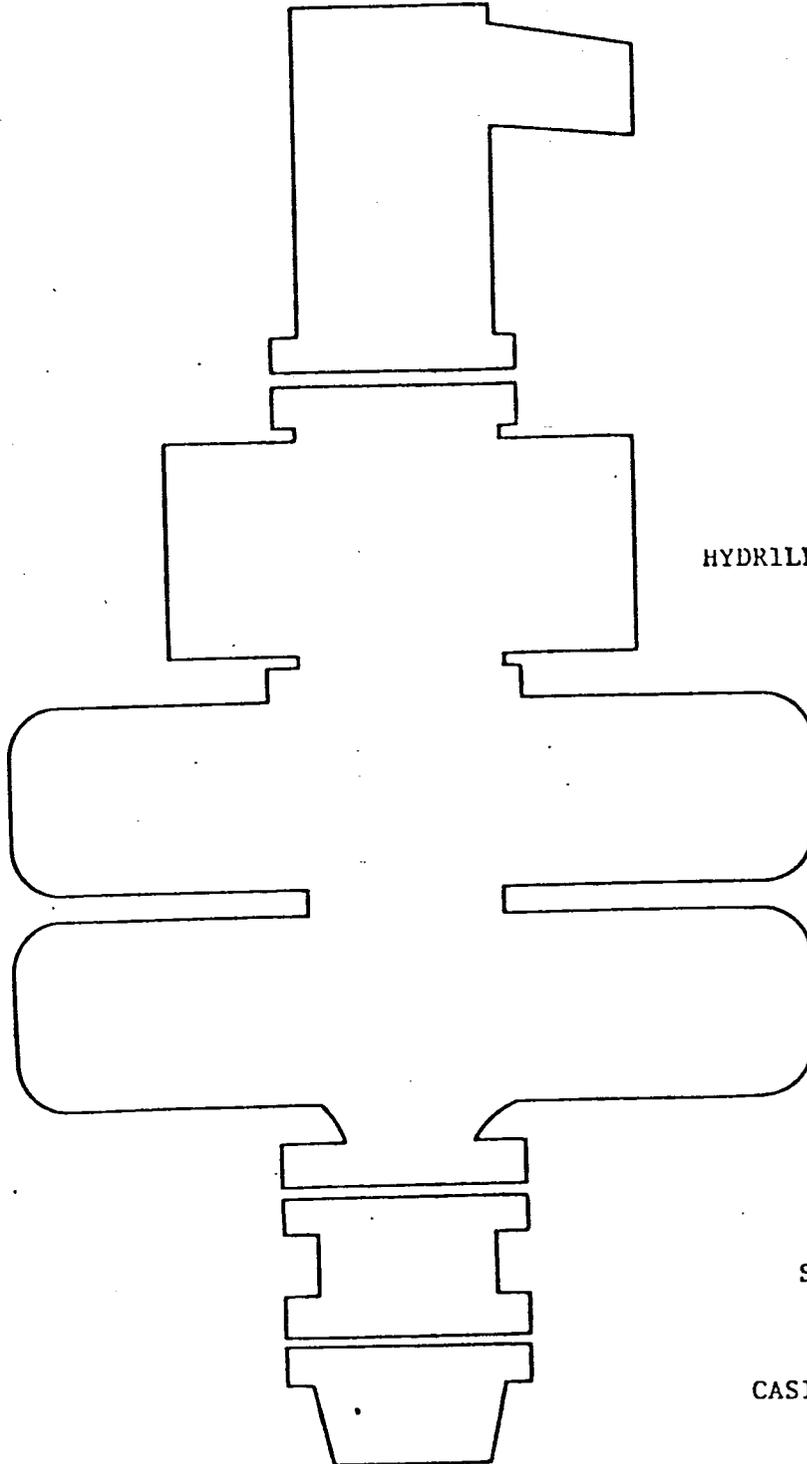
FUEL EXPLORATION, INC.



CHOKE MANIFOLD DIAGRAM

PLAT NO. III
APPLICATION FOR PERMIT TO DRILL
BLOWOUT PREVENTOR DIAGRAM (HYDRAULIC)
CHOKE MANIFOLD IS _____ IS NOT REQUIRED

FUEL EXPLORATION, INC.



HYDRILL SIZE NA SERIES NA

DOUBLE GATE SIZE 6"
SERIES 900

SPOOL SIZE NA SERIES NA

CASING HEAD SIZE 6" SERIES 900

13-POINT SURFACE USE PLAN
FUEL EXPLORATION #1-10 FEDERAL
SECTION 10-T9S-R19E
UINTAH COUNTY, UTAH

1. EXISTING ROADS:

- A. Proposed well as staked shown on surveyors Plat. 200-foot directional reference stakes shown on rig-layout exhibit.
- B. See attached Exhibit #1. Proceed 1.9 miles West of Myton, Utah on U.S. Highway 40. Turn left, or Southwest on Utah State Highway 53 and proceed 1.6 miles. Turn left, or South on Utah State Highway 216 and proceed 10.3 miles. Turn left, or Southeast on an existing dirt and gravel County road and proceed 12.8 miles. Turn left, or Northeast, on an existing dirt and gravel BLM road and proceed 1.1 miles. Turn left, or Northwest, on an existing dirt and gravel BLM road and proceed .6 mile. Turn right, or East, on proposed access road and proceed .2 miles to location.
- C. See attached Exhibit #2. Proposed access road on public lands shown in red for existing road and blue for new construction. All but 1.9 miles of proposed access is County maintained. Although approximately one mile of the 1.9 miles crosses private land in Section 14, the access road right-of-way was deeded to the BLM by the landowner (Rex Lamb, Myton, Utah). Therefore, for the purposes of this application, this right-of-way will be treated as BLM land (per telephone conversation with Dave Zelanardo, BLM, Vernal, Utah).
- D. Not applicable-location is a development well.
- E. See attached Exhibit #2.
- F. All highways listed in Section A are bituminous surfaced roads maintained by Utah State road crews (13.8 miles). 12.8 miles of access road is maintained by County road crews and is surfaced with gravel and dirt. County maintenance ends at Section 14-T9S-R19E. Other roads in the vicinity not used in this access proposal are mainly oilfield service roads and are surfaced with native materials prevalent in the area, mainly clay.

The existing BLM road to be used for access during the drilling, completion, and production phases of this well will have to be upgraded to withstand the anticipated heavy truck traffic common to oilfield operations. This road will be upgraded and maintained according to BLM specifications. Maintenance will include periodic blading to remove ruts and to smooth the road, and snow removal during the winter. All soft spots will be repaired as required. Dust control will consist of periodic watering with a water truck.

SPECIFICATIONS:

- 1. Width - 18'.
- 2. Maximum grade - less than 8%.
- 3. Turnouts - none required.
- 4. Drainage design - ditched and crowned with 4:1 foreslope and 2:1 backslopes.
- 5. Culvert - 60" culvert where access road crosses Pariette Draw. Other culverts will be installed as required by BLM.
- 6. Surfacing material - native soil or gravel as required.
- 7. Cuts and fills will be made as required to stay below 8% grade.
- 8. One padlocked, steel gate will be installed at the boundary of Section 10 and Section 15 where access road enters limited-access area.

2. PLANNED ACCESS ROAD:

The proposed access road to be constructed leaves the existing road in the Center Section 10-9S-19E and proceeds East 0.2 miles to the location.

Specifications:

- 1. Width - 18'.
- 2. Maximum grade - less than 6%.
- 3. Turnouts - none required.

4. Drainage design - ditched and crowned with 4:1 foreslope and 2:1 backslope.
5. Culverts - May need one at junction of new construction and existing road. Will be installed at BLM's descretion. Cuts and Fills - no major cuts or fills required.
6. Surfacing material - native soil.
7. Gates, cattleguards, or fence cuts - none required.
8. Road centerline staked and flagged - yes. Estimated length is 700'.

3. LOCATION OF EXISTING WELLS:

See Exihibit #2.

1. No water wells.
2. No abandoned wells.
3. No temporarily abandoned wells.
4. No disposal wells.
5. No drilling wells.
6. Producing well located as follows: #1-9 Federal Chorney (Diamond Shamrock) SW SE Section 9-T9S-R19E Uintah County (See Exhibit #2).
7. No shut-in wells.
8. No injection wells.
9. No monitoring or observation wells for other purposes.

4. LOCATION OF TANK BATTERIES, PRODUCING FACILITIES, AND PRODUCTION GATHERING AND SERVICE LINES:

- A. There are no existing Fuel Exploration, Inc. wells or facilities within a one-mile radius of the proposed location.
- B. A tank battery will be built on the well location. (See Exhibit #3).
 1. Proposed location (See Exhibit #3).
 2. Dimensions - (See Exhibit #3).
 3. Construction methods and materials - The site will be built with native materials. If necessary, gravel will be purchased from a private source and hauled by truck to the location. Facilities will be constructed using graders, backhoes, and roustabout crews.
 4. Protective measures for livestock and wildlife - All pits, wellhead, and production facilities will be fenced and flagged to discourage livestock and wildlife from entering area.
- C. REHABILITATION: All disturbed areas no longer needed for operations after construction is completed, will be recontoured and reseeded with recommended mixtures per BLM instructions.

5. LOCATION AND TYPE OF WATER SUPPLY:

See Exhibit #2

- A. Water supply will come from Pariette Draw, a continuous stream located approximately one mile from proposed location. Fuel Exploration, Inc. has applied foran Industrial Water Permit with the Utah State Engineer's office.
- B. Water will be hauled by tank truck. Point of loading will be at site of 60" Culvert installation located SW NW Section 14-T9S-R19E. Length of haul will be approximately 1.4 miles. No additional roads will be required.
- C. No water well will be drilled.

6. SOURCE of CONSTRUCTION MATERIALS:

- A. See Item "C" of this section.
- B. From Federal, but not from Indian Lands.
- C. Only soil materials from excavation and construction of well location will be used as construction material.
- D. No access roads needed to haul materials.

7. METHODS OF HANDLING WASTE DISPOSAL:

1. Cuttings - deposited in reserve pit.
2. Drilling fluids - deposited in reserve pit.
3. Produced fluids - put in steel tanks.
4. Sewage - portable chemical toilet will be provided for human waste.
5. Garbage and other waste materials - put in burn pit and covered with a small mesh wire. All flammable waste materials will be burned.
6. Clean-up of wellsite - location will be cleaned up and all trash removed and buried at least 6' deep when 1) drilling rig moves out, 2) completion and construction activities are finished, and 3) after necessary recontouring and reseeding has been done.

The reserve pit will be lined with plastic to prevent seepage. The pit will be fenced on three sides while drilling, and the fourth side will be fenced when the drilling rig moves out. Overhead flagging will be installed on all pits to protect waterfowl in the area.

8. Ancillary Facilities:

No camps, airstrips or other facilities will be needed.

9. Well Site Layout:

1. See surveyor's cut-and-fill plat (attached).
Top soil will be removed to a depth of 6" (approximately 1241 cubic yards), and will be stockpiled as shown.
2. See attached rig layout. No living facilities on wellsite.
3. See attached rig layout.
4. Pits will be lined.

The BLM District Manager will be notified before any construction begins on the proposed location site.

10. Plans for Restoration of Surface:

1. All top soil that has been stripped from location will be put back in place, backfilled, leveled and/or contoured at the drillsite. All upgraded existing trail will be leveled and restored to as near original condition as is possible with topsoil replaced. Upon completion of drilling, all trash and litter will be placed in burn pit and burned, then buried.
2. Revegetation and rehabilitation will be done in Spring, 1985, with seed mixture recommended by the BLM. Waterbars will be built where necessary. A dry hole marker will be installed if well is dry. If necessary, the reclaimed location will be fenced to allow new seed to get established, and to prevent overgrazing of new seedlings by livestock and/or wildlife.
3. Prior to rig release, pits will be fenced. Fences will not be removed until pit is dry enough to backfill. Additional fencing may be necessary as noted in Section 2 above.
4. If oil is in pits, it will either be burned (with an appropriate burn permit) or skimmed by vacuum truck and removed to a waste oil processing facility. Flagging will be used to discourage livestock, wildlife, and waterfowl from entering area.
5. Revegetation and rehabilitation will be done in Spring, 1985. Seeding will be done as soon as possible when the moisture content of the soil is adequate for germination.

11. Other Information:

1. The area is a large basin formed by the Uinta Mountains to the North and the Book Cliff Mountains to the South. The Green River is located approximately 1.2 miles to the Southeast of

the location site. The basin floor is laced with numerous canyons and ridges formed by the intermittent streams in the area. The sides of these canyons are steep, and ledges formed in sandstone ridges, conglomerate deposits, and shale are common in this area.

The geologic structures of the area that are visible are of the Uinta formation (Eocene Epoch) Tertiary Period in the upper elevations, and cobblestone and younger alluvial deposits from the Quaternary Period. The topsoils of the area range from a light brownish-gray sandy clay type soil with poorly graded gravels to a clayey soil.

Normal annual rainfall in this area is eight inches/year. Because of the low annual rainfall, vegetation consists of sagebrush, rabbitbrush, some grasses, and cactus. Wildlife is sparse, predominantly rodents, coyotes, and rabbits. The largest game animals in the area are mule deer and antelope. Birds in the area are hawks, ground sparrows, finches, magpies, and jays.

A wildlife refuge is present on the west half of section 10 with a "no surface occupancy" stipulation in the lease (See Exhibit #2). The existing BLM road proposed as access to the location is a "limited-access" road. Therefore, a padlock steel gate instead of a cattleguard will be installed to limit entry into the area to only those necessary to perform the work of drilling, completing, and producing this well.

2. The primary use of the land is rangeland, and is used for grazing domestic cattle and sheep. The surface is owned by the United States of America.
3. The nearest water is found in the meadow located on the "no surface occupancy" portion of the lease, or the west half of section 10. This stream is approximately 1000' West of the proposed location. Also, the Green River is located approximately 1.2 miles Southeast of the wellsite.

The terrain in the vicinity of the location slopes to the Northwest at approximately 6% grade.

No occupied dwellings exist within the surrounding area. There are no known archeological, historical, or cultural sites within reasonable proximity of the proposed wellsite. (Archeological report attached). If any cultural resources are found during construction of wellsite or access road, all activity will cease, and the BLM will be notified immediately.

12. Lessee's or Operator's Field Representation:

Raymond D. Danton
President
Fuel Exploration, Inc.
1200 Lincoln Tower
1860 Lincoln Street
Denver, Colorado 80295
Phone: (303)-892-6563 Office
Matthew T. Rohret
Petroleum Engineer
Fuel Exploration, Inc.
1200 Lincoln Tower
1860 Lincoln Street
Denver, CO 80295
Phone: (303) 892-6563 Office
(303) 985-5426 Home

13. Certification:

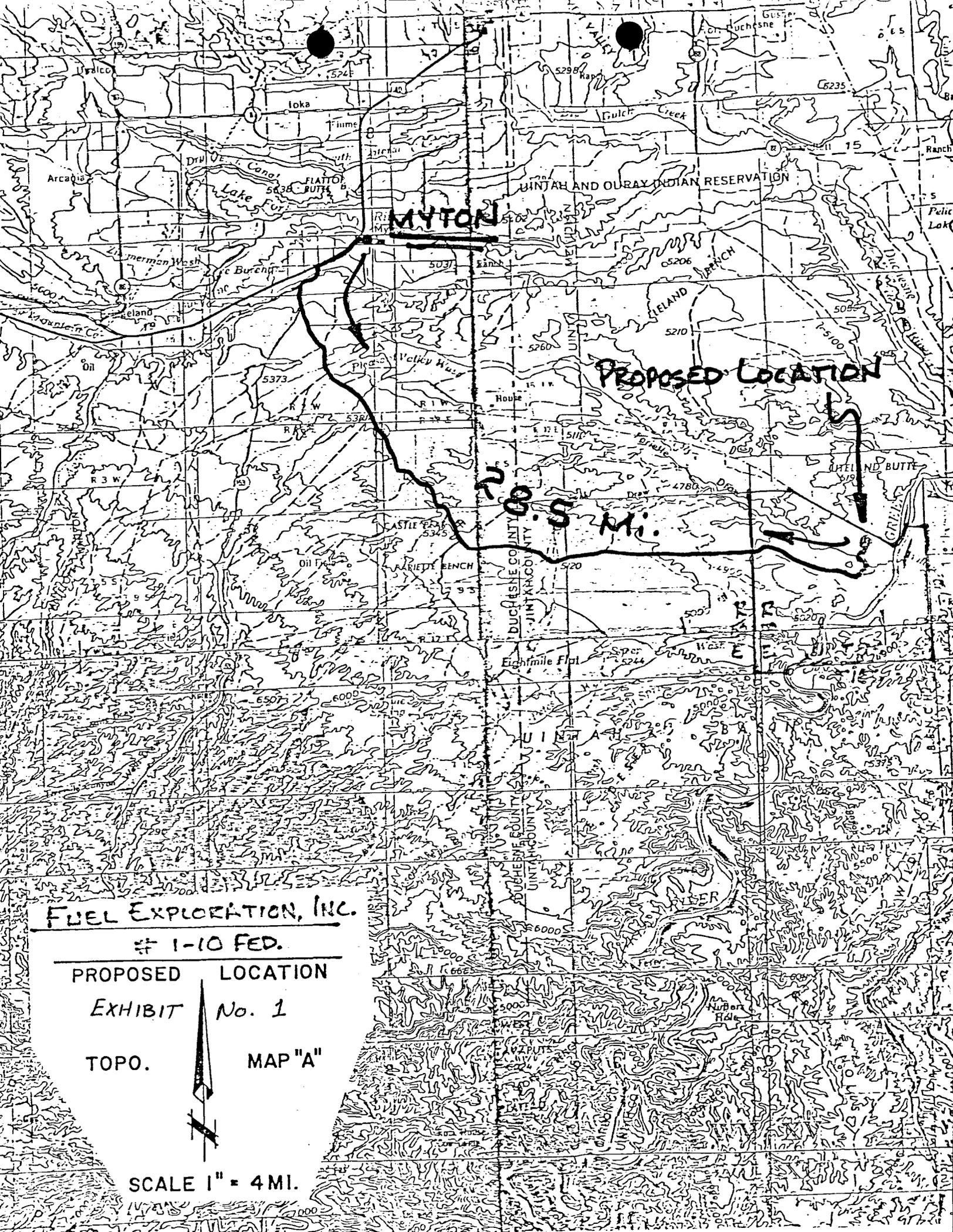
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access road; that I am familiar with conditions that presently exist; that the statements made in this plan are to the best of my knowledge true and correct; and that the work associated with operations proposed herein will be performed by Fuel Exploration, Inc. and its contractors and sub-contractors in conformity with this plan and conditions under which it is approved.

8/16/84

DATE

Raymond D. Danton

RAYMOND D. DANTON
PRESIDENT
ATTORNEY-IN-FACT



MYTON

UINTAH AND OURAY INDIAN RESERVATION

PROPOSED LOCATION

22 N. CO. S. Mi.

FUEL EXPLORATION, INC.

1-10 FED.

PROPOSED LOCATION

EXHIBIT No. 1

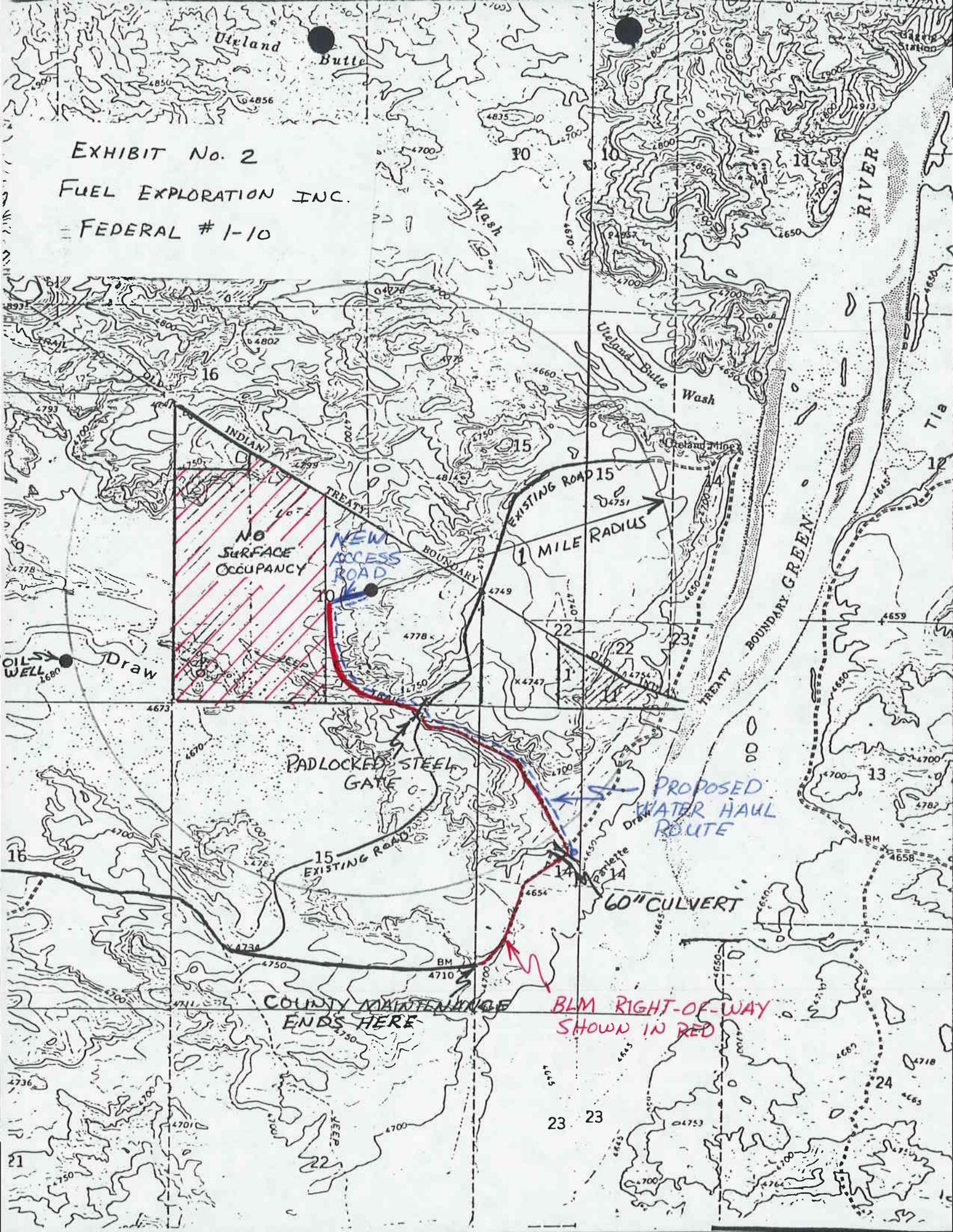
TOPO.

MAP "A"



SCALE 1" = 4 MI.

EXHIBIT No. 2
FUEL EXPLORATION INC.
FEDERAL # 1-10



Uteland Butte

RIVER

INDIAN TREATY BOUNDARY

NO SURFACE OCCUPANCY

NEW ACCESS ROAD

EXISTING ROAD 15

1 MILE RADIUS

OIL WELL

Draw

PADLOCKED STEEL GATE

PROPOSED WATER HAUL ROUTE

EXISTING ROAD 15

60" CULVERT

COUNTY MAINTENANCE ENDS HERE

BLM RIGHT-OF-WAY SHOWN IN RED

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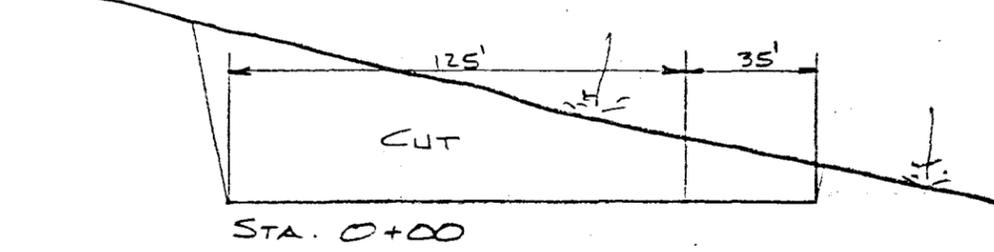
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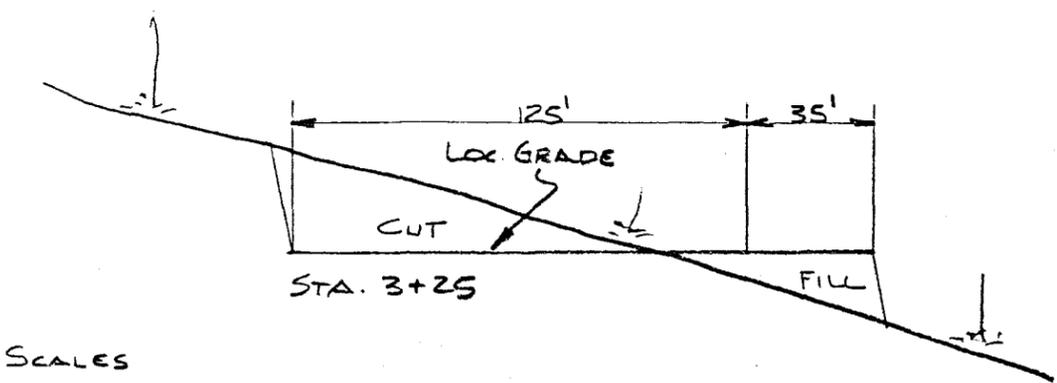
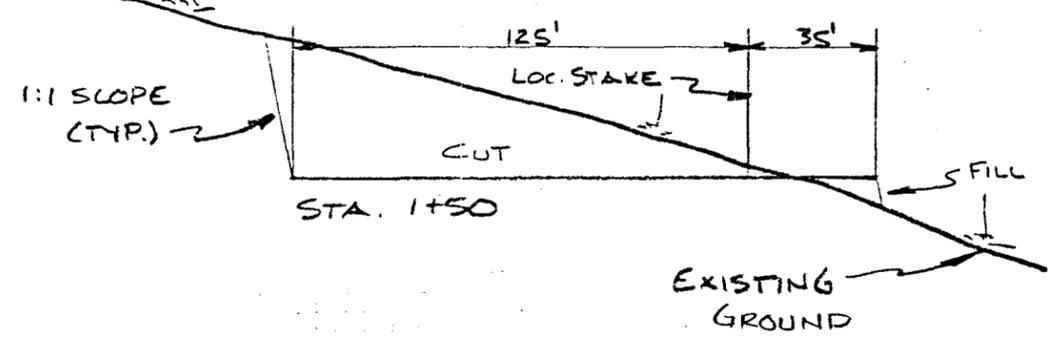
FUEL EXPLORATION, INC.

#1-10 FED.

LOCATION LAYOUT & CUT SHEET



200' REFERENCE STAKE 4717.76'

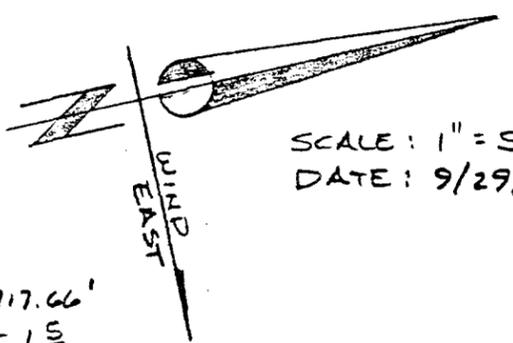


1" = 10'
1" = 50'

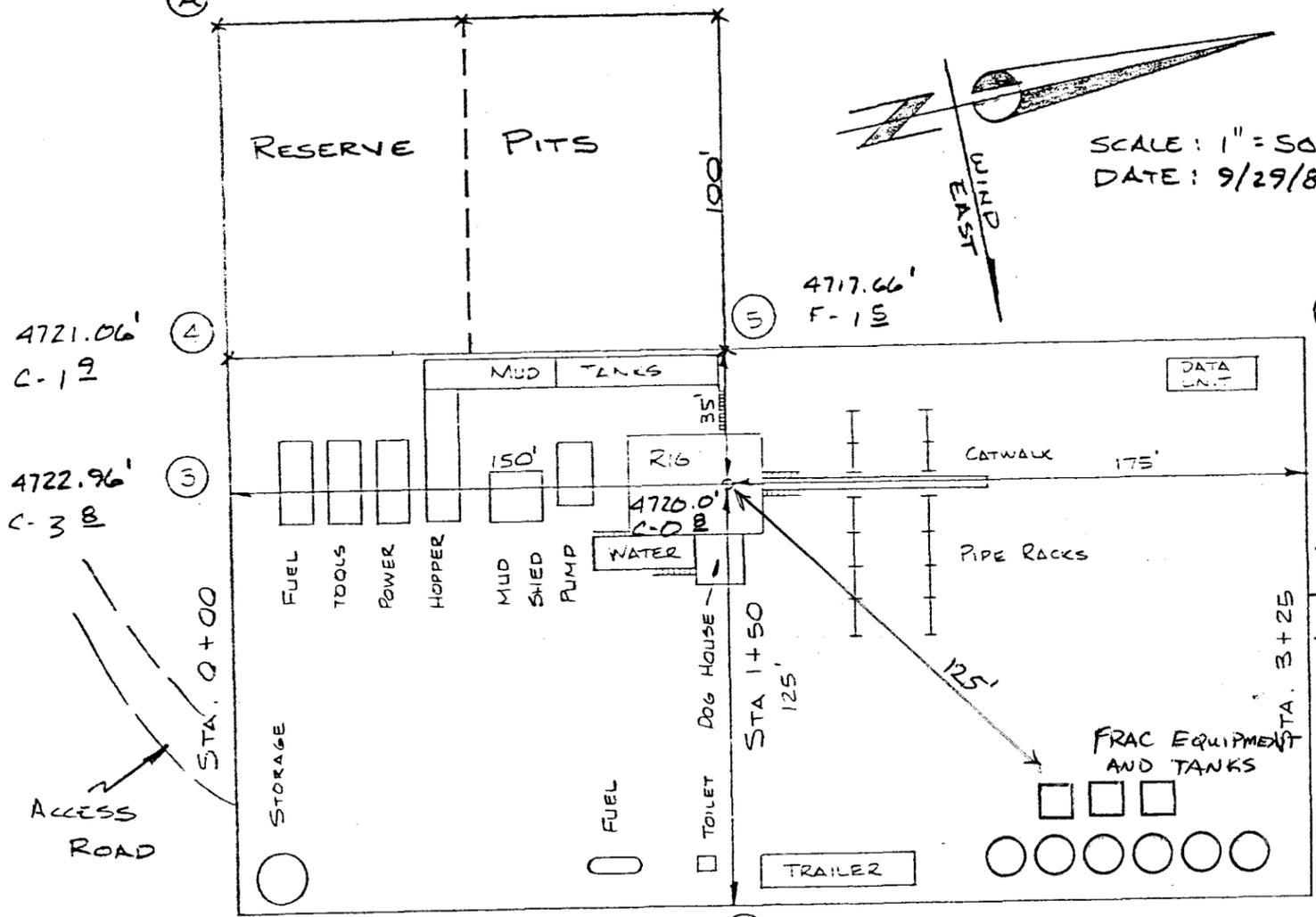
APPROX. YARDAGES

CUT 7631
FILL 490

4712.96' (A) 4714.56' (B)



SCALE: 1" = 50'
DATE: 9/29/83



4721.06' C-12

4722.96' C-3 B

4728.20' C-9 B

4717.66' F-1 E

4715.76' F-3 E

4717.96' F-12

4724.53' C-5 E

4726.73' C-7 E
200' REFERENCE STAKE 4733.18'

EDS LITHOLOGY
NO SCALE

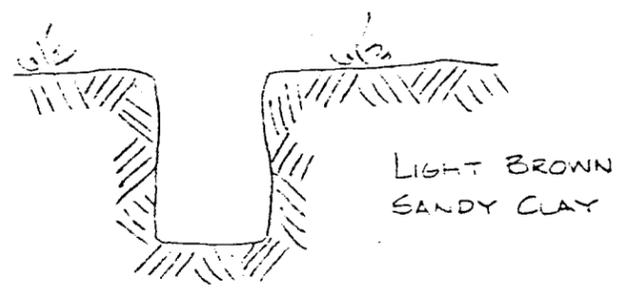
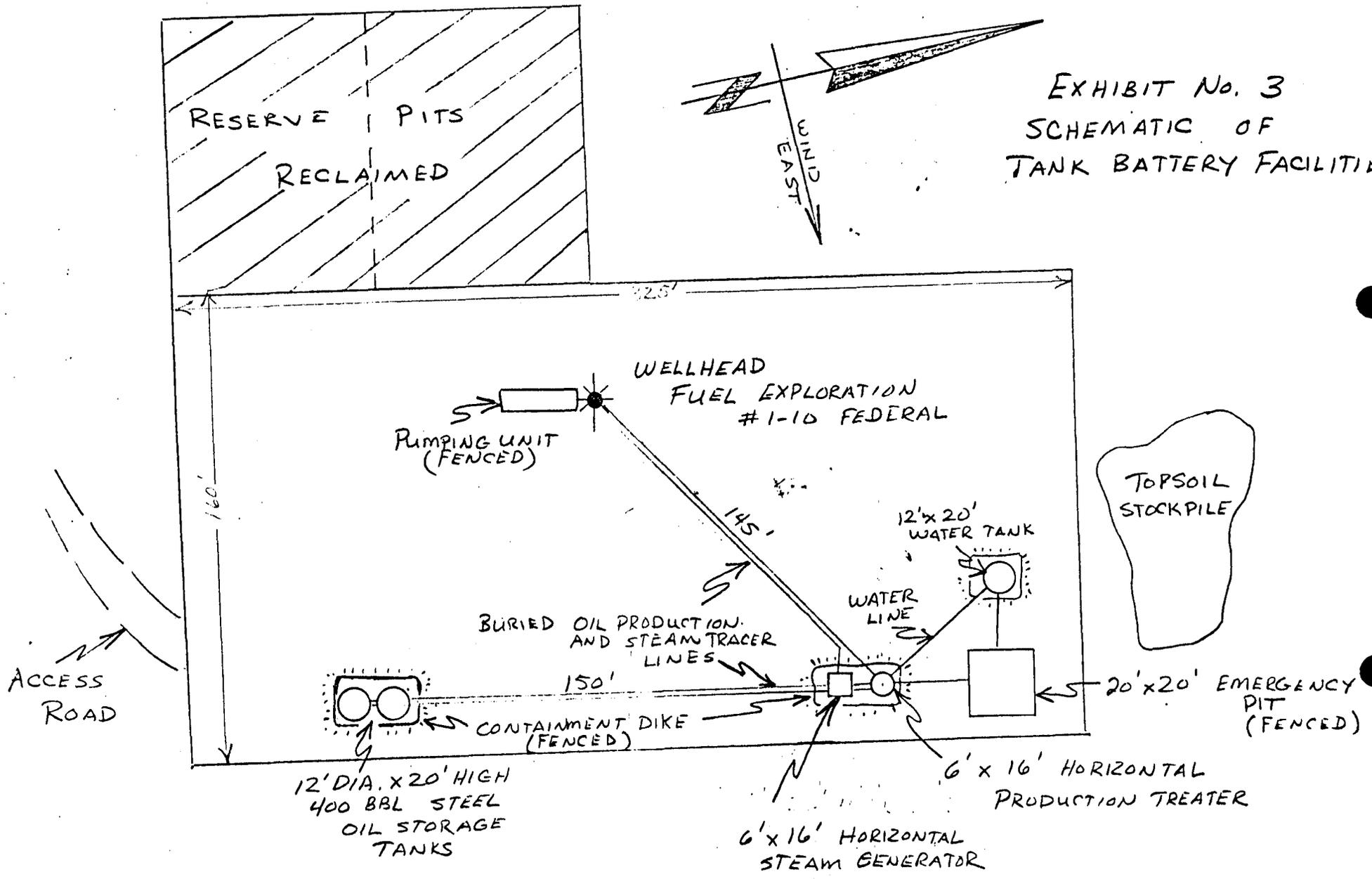


EXHIBIT No. 3
SCHEMATIC OF
TANK BATTERY FACILITIES



ALL TANKS AND VESSELS
SET ON CUT PORTION
OF LOCATION

1" = 50'

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company Fuel Exploration Inc. Well No. 1-10
Location Sec. 10 T 9S R 19E Lease No. U-46689
Onsite Inspection Date 8-30-84

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

A. DRILLING PROGRAM

All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

1. Pressure Control Equipment

BOP and choke manifold systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location during pressure testing.

2. Casing Program and Auxiliary Equipment

The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

3. Mud Program and Circulating Medium

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

4. Coring, Logging and Testing Program

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the authorized officer (AO).

5. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the AO within 48 hours after spudding. If the spudding occurs on a weekend or holiday, the report will be submitted on the following regular work day. The oral report will be followed up with a Sundry Notice.

In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 3160-6 "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed, in duplicate, to the Vernal BLM District Office, 170 South 500 East, Vernal, Utah 84078.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than 5 days following the date on which the well is placed on production.

Pursuant to NTL-2B, with the approval of a District Engineer, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During the period so authorized, an ap-

plication for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.

Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during initial well evaluation tests, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the District Engineer and approval received, for any venting/flaring of gas beyond the initial 30 day or authorized test period.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in 43 CFR 3162.7 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

A first production conference will be scheduled within 15 days after receipt of the first production notice.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

Pursuant to Onshore Oil and Gas Order No. 1, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with State and local laws and regulations to the extent that such State and local laws are applicable to operations on Federal or Indian lands.

B. THIRTEEN POINT SURFACE USE PLAN

1. Planned Access Roads

- a. Drainage: One 72" culvert in Pariette Draw, or if more than one, culvert must handle same capacity.

All travel will be confined to existing access road rights-of-way.

2. Location of Tank Batteries and Production Facilities

All permanent (on site for six months or longer) structures constructed or installed (including oil well pumpjacks) will be painted a flat, non-reflective, earthtone color to match the standard environmental colors, as determined by the Rocky Mountain 5 State Interagency Committee. All facilities will be painted within 6 months of installation. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded.

If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain $1\frac{1}{2}$ times the storage capacity of the battery.

Tank batteries will be placed on the west side of the location by point No. 1.

All loading lines will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

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

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 prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO 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 Vernal District Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

3. Location and Type of Water Supply

All water needed for drilling purposes will be obtained from Pariette Draw by truck or pumped from an adjacent pond.

4. Source of Construction Material

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

Construction material will be located on lease.

5. Methods of Handling Waste Disposal

The reserve pit will be lined with a plastic nylon-reinforced liner.

Burning will not be allowed. All trash must be contained and disposed of by a trash cage and hauled to an approved sanitary land-fill.

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 required water analysis, will be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order.

6. Ancillary Facilities

Camp facilities will not be required.

7. Well Site Layout

The reserve pit will be located on the northeast corner of the location.

The stockpiled topsoil will be stored on the west side of the location by point No. 1.

Access to the well pad will be from the south side of the location.

Reserve pits will be fenced with a wire mesh fence and topped with at least one strand of barbed wire.

8. Plans for Restoration of Surface

Immediately upon completion of drilling, the location and surrounding area will be cleared of all debris, materials, trash and junk not required for production.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry and all cans, barrels, pipe, etc. will be removed. The liner will be torn and shredded prior to backfilling the reserve pit.

All disturbed areas will be recontoured to the approximate natural contours.

The stockpiled topsoil will be evenly distributed over the disturbed areas.

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface.

Seed will be broadcast or drilled at a time specified by the BLM. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage. Also, if broadcast, the seed mixture will be proportionately increased to double the amount.

The seed mixture will be determined at the time of restoration.

The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed.

9. Surface and Mineral Ownership:

BLM - surface, Federal - mineral.

10. Other Information

No construction, drilling, or workover activity from March 1st to June 15th.

Rotate the location 180°.

A Powder River type gate (16') in the access road where there is an existing wire gate.

A low profile pumpjack will be used with a muffler on the engine.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. 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.

A cultural resource clearance will be required before any construction begins. If any cultural resources are found during construction, all work will stop and the AO will be notified.

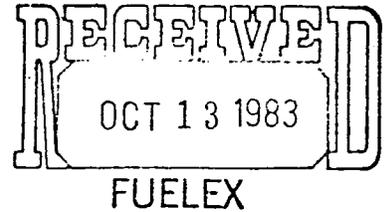
This permit will be valid for a period of one year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.



ARCHEOLOGICAL - ENVIRONMENTAL RESEARCH CORPORATION

588 West 800 South Bountiful, Utah 84010
Tel: (801) 292-7061 or 292-9668

October 10, 1983



Subject: Cultural Resource Evaluations of Well
Locations in the Hamacker Bottoms and
Pariette Draw Localities of Uintah
County, Utah

Project: Fuel Exploration, Inc. - Wells and
Access Routes

Project No: FEI-83-1A

Permit: Dept. of Interior 81-Ut-179

To: ✓ Mr. Marc T. Eckels, Fuel Exploration, Inc.,
1200 Lincoln Tower, 1860 Lincoln Street,
Denver, Colorado 80295

Mr. Lloyd Ferguson, District Manager, Bureau
of Land Management, 170 South 500 East,
Vernal, Utah 84078

Mr. Ralph Heft, Area Manager, Bureau of Land
Management, 170 South 500 East, Vernal,
Utah 84078

Info: Mr. Rich Fike, BLM State Archeologist, Bureau
of Land Management, University Club Building,
136 East South Temple, Salt Lake City,
Utah 84111

Comments: _____

Summary Report of
Application for Cultural Resources

Project Title HAMACKER & PARIETTE DRAW UNITS

Development Company Fuel Exploration, Inc.; Two Proposed Well Locations

Project Date 10-10-1983 4. Antiquities Permit No. 81-Ut-179,6-9-85

Responsible Institution AERIC FEI-83-1A County Uintah

Well Location: TWN 06S Range 21E Section(s) 29

TWN 09S Range 19E Section(s) 10

Source Area DM TWN 94 Range 98 Section(s) 102103

PO= PONY EXPRESS, BR= BEAR RIVER, PR= PRICE RIVER, WS= WARM SPRINGS
BC= BOOK CLIFFS, HR= HOUSE RANGE, SE= SEVIER RIVER
HM= HENRY MOUNTAINS, BE= BEAVER RIVER, DX= DIXIE
KA= KANAB, ES= ESCALANTE, SJ= SAN JUAN, GR= GRAND
SR= SAN RAFAEL, DM= DIAMOND MOUNTAIN

FH in spaces 65, 69, 81, 85, 97, 101 Only
V= Vernal Meridian
H= Half Township

Description of Examination Procedures:

The archeologist, F. R. Hauck, walked a series of 15 to 20 meter wide transects within the 10 acre parcels centered on the flagged centers for the two proposed wells. The access route for the well in Section 10 was examined by walking a 20 meter transect along the center line.

Linear Miles Surveyed 1.2

Definable Acres Surveyed 118

Legally Undefinable Acres Surveyed 20

10. Inventory Type I

R= Reconnoissance
I= Intensive
S= Statistical Sample

(* A parcel hard to cadastrally locate i.e., center of section)

Description of Findings (attach appendices, if appropriate) 12. Number Sites Found: 0

No cultural resource sites were identified or recorded during the surveys. Isolated primary flakes were observed in the eastern and NW peripheries of the 10 acre parcel on Section 10. These cultural materials indicate the probable presence of secondary quarry sites associated with the cobble fields outside the 10 acre zone. Those sites will not be affected by the development of the proposed well location.

Actual/Potential National Register Properties Affected:

The National Register has been consulted and no registered properties will be affected by the proposed developments.

Literature Search, Location/Date:

Vernal District Office; 10-3-83

Conclusion/Recommendations:

AERC recommends that a cultural resource clearance be granted to Fuel Exploration, Inc. based upon adherence to the stipulations noted on the reverse:

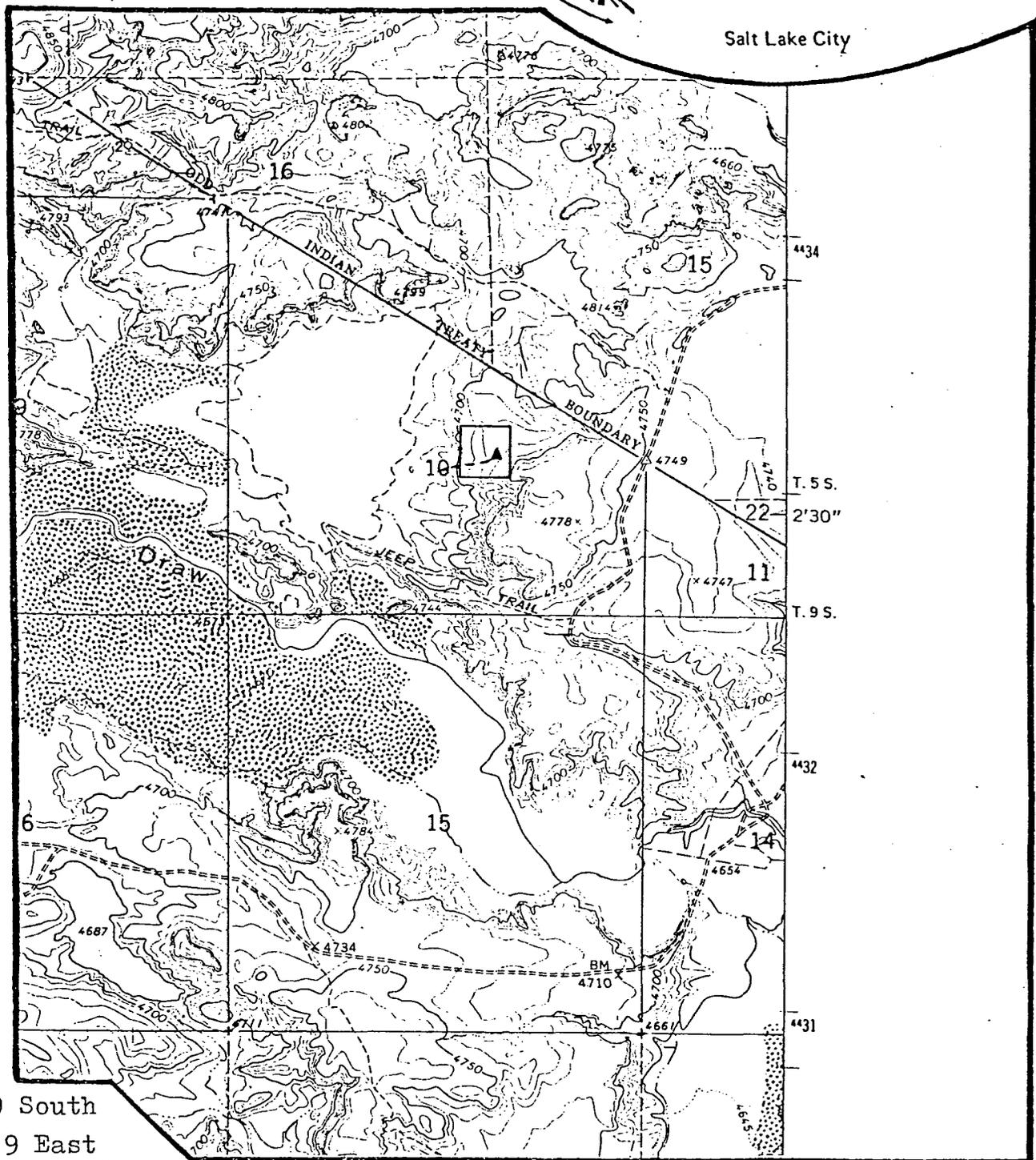
Signature F. R. Hauck

1. CONTINUED:

1. Vehicular traffic, personnel movement, and construction be confined to the locations examined and to the evaluated access roads.
2. All personnel refrain from collecting artifacts or from disturbing any cultural resources in the area.
3. A qualified archeologist be consulted should cultural remains from subsurface deposits be exposed during construction work or if the need arises to relocate or otherwise alter the construction area.



Salt Lake City

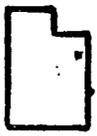


T. 9 South
R. 19 East

Meridian: Salt Lake B. & M.

Quad:

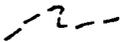
Uteland Butte,
Utah
7.5 minute-USGS



Project: FEI-83-1A
Series: Uinta Basin
Date: 10-10-83

MAP 2
Cultural Resource Survey
of a Proposed Well Unit
for Fuel Exploration, Inc.
in the Pariette Draw Area
of Uintah County, Utah

Legend:

- Well Location 
- Access Route 
- 10 Acre Parcel 



2.64" = 1 m.

Scale

APPLICATION FOR DIVERSION OF WATER STATE OF UTAH TEMPORARY

NOTE:—The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

- Irrigation Domestic Stockwatering Municipal Power Mining Other Uses
- The name of the applicant is Fuel Exploration, Inc.
- The Post Office address of the applicant is 1860 Lincoln St., Suite 1200 Denver CO 80295
- The quantity of water to be appropriated _____ second-feet and/or 5 acre-feet
- The water is to be used for drilling oil/gas well from September 15 to December 15
(Major Purpose) (Month) (Day) (Month) (Day)
other use period N/A from _____ to _____
(Minor Purpose) (Month) (Day) (Month) (Day)
and stored each year (if stored) from N/A to _____
(Month) (Day) (Month) (Day)
- The drainage area to which the direct source of supply belongs is _____
(Leave Blank)
- The direct source of supply is* Pariette Draw
(Name of stream or other source)

which is tributary to Green River, tributary to Colorado River

*Note.—Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

- The point of diversion from the source is in Uintah County, situated at a point*
2500' FNL, 1600' FWL Section 14-T9S-R19E SLB & M Survey

*Note.—The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.

- The diverting and carrying works will consist of vacuum pump mounted on tanker truck,
Water will be hauled by truck to point of use.
- If water is to be stored, give capacity of reservoir in acre-feet N/A height of dam _____
area inundated in acres _____ legal subdivision of area inundated _____
- If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:
N/A
Total _____ Acres
- Is the land owned by the applicant? Yes _____ No XX If "No," explain on page 2.
- Is this water to be used supplementally with other water rights? Yes _____ No XX
If "yes," identify other water rights on page 2.
- If application is for power purposes, describe type of plant, size and rated capacity. N/A
- If application is for mining, the water will be used in _____ Mining District at
the _____ mine, where the following ores are mined _____
- If application is for stockwatering purposes, number and kind of stock watered N/A
- If application is for domestic purposes, number of persons N/A, or families _____
- If application is for municipal purposes, name of municipality N/A
- If application is for other uses, include general description of proposed uses drilling oil/gas well.
- Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. 1982' FEL, 1980' ESL (FuelEx Federal #1-10 oil well)
(NW 1/4 SE 1/4) Sec. 10T9S R19E, S.L.B. & M. Survey Uintah County, Utah
- The use of water as set forth in this application will consume 5 ~~XXXXXXX~~ acre-foot of water and No water ~~XXXXXXX~~ will be returned to the natural stream or source at a point described as follows: Drilling water will be pumped down wellbore or left in reserve pit.

EXPLANATORY

The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

Both the surface and sub-surface of the land at the point of use are owned by the United States of America and are managed by the Bureau of Land Management.

The above lands have been leased by Fuel Exploration, Inc. for the express purpose of drilling an oil/gas test well.

The purpose of the temporary water diversion is to enable the drilling of an oil/gas well in Section 10-T9S-R19E, or about 1.4 miles from the point of diversion.

The water will be hauled by tank truck to the drill site and be used to circulate drill cuttings from the wellbore. The time period that diversion will take place will be about ten days.

Although diversion will only take place for a ten day period, this application is made for a three month time frame. This long interval is necessary due to the uncertainty of timing in obtaining an approved drilling permit from the Bureau of Land Management.

(Use page 4 if additional explanatory is needed.)

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described

Fuel Exploration, Inc. By: Raymond D. Danton
PRESIDENT

Raymond D. Danton
Signature of Applicant*

*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH, }
County of..... } ss

On the day of, 19....., personally appeared before me, a notary public for the State of Utah, the above applicant who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:

(SEAL)

Notary Public

OPERATOR Fuel Exploration Inc. DATE 8-22-84

WELL NAME Fed #1-10

SEC NWSE 10 T 9S R 19E COUNTY Utah
Irregular Section

43-047-31531
API NUMBER

Fed.
TYPE OF LEASE

POSTING CHECK OFF:

<input type="checkbox"/>	INDEX	<input type="checkbox"/>	HL	<input type="checkbox"/>
<input type="checkbox"/>	NID	<input type="checkbox"/>	PI	<input type="checkbox"/>
<input type="checkbox"/>	MAP	<input type="checkbox"/>		<input type="checkbox"/>

PROCESSING COMMENTS:

No other wells within 1000'
Water &

APPROVAL LETTER:

SPACING: A-3 _____ UNIT _____ c-3-a _____ CAUSE NO. & DATE _____

c-3-b _____ c-3-c _____

SPECIAL LANGUAGE:

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 _____

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.



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

August 27, 1984

Fuel Exploration, Inc.
1860 Lincoln Street, Suite 1200
Denver, Colorado 80295

Gentlemen:

RE: Well No. Federal #1-10 - NWSE Sec. 10 (Irregular Section), T. 9S, R. 19E
1980' FSL, 1982' FEL - Uintah County, Utah

Approval to drill the above referenced oil well is hereby granted in accordance with Rule C-3 (b), General Rules and Regulations and Rules of Practice and Procedure.

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

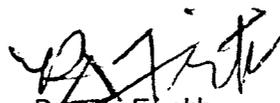
1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. 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.

Page 2
Fuel Exploration, Inc.
Well No. Federal #1-10
August 27, 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 43-047-31531.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

RJF/as

Enclosures

cc: Branch of Fluid Minerals

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructor
verse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO. 2

U-46689

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

FEDERAL

9. WELL NO.

#1-10

10. FIELD AND POOL, OR WILDCAT

PARIETTE BENCH FIELD

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

Sec. 10-T9S-R19E

12. COUNTY OR PARISH | 13. STATE

UINTAH

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
FUEL EXPLORATION, INC.

3. ADDRESS OF OPERATOR
1860 LINCOLN STREET, SUITE 1200, DENVER, CO 80295

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
OLD- 1980' FSL, 1982' FEL (NW SE) Sec. 10
NEW- 1980' FSL, 2047' FEL (NW SE) Sec. 10

14. PERMIT NO.
API # 43-047-31531

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
4720' GR

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

NOTICE OF INTENTION TO:

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 checked="" type="checkbox"/>
(Other)			

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)			

(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.)*

Due to the difficulty of excavating the reserve pit on the east (uphill) side of the location, which is underlain by rock at a depth of a few inches, Fuel Exploration, Inc. requested permission to move the reserve pit back to the location, on the west side of the location, in which it is shown on the original APD diagram (attached). At the same time it was requested that the well spot be moved 65' west in order to minimize the disturbance of additional surface and allow for the needed distance between the rig and the edge of the reserve pit. Both requests were granted in a telephone conference with Al Burch, Dave Zalunardo and Tim O'Brien of the Vernal BLM District Office. Approval was made with the following conditions:

- 1) Bentonite will be mixed with the pit bottom material at the rate of 2-lbs/sq ft to seal the bottom of the pit.
- 2) A bed of straw will be placed on the bottom of the pit before the installation of the pit liner required by the APD.
- 3) The topsoil stock pile will be moved from the location shown on the attached diagram to a location between points 5 and 6 on that diagram.
- 4) It is understood that Fuel Exploration, Inc. may be required to completely remove the pit liner when the location is rehabilitated, the concern being that no portion of the liner be visible at the surface when the job is completed. A final decision on this will be made by the AO when the location is rehabilitated.

Marc Eckels(303/534-4445) represented Fuel Exploration, Inc. in this conference.

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

SIGNED Marc Eckels TITLE President DATE 1/18/85

(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

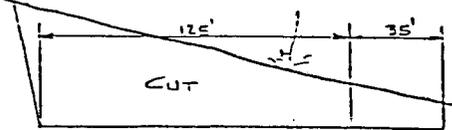
*See Instructions on Reverse

DATE: 1/28/85
BY: John R. Day

FUEL EXPLORATION, INC.

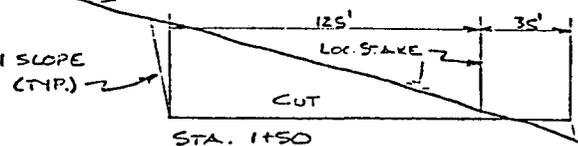
#1-10 FED.

LOCATION LAYOUT & CUT SHEET

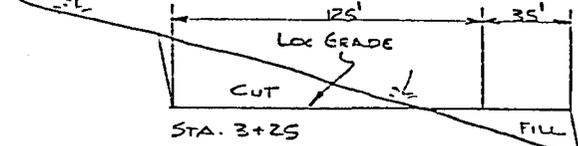


STA. 0+00

200' REFERENCE STAKE
4717.76'



STA. 1+50

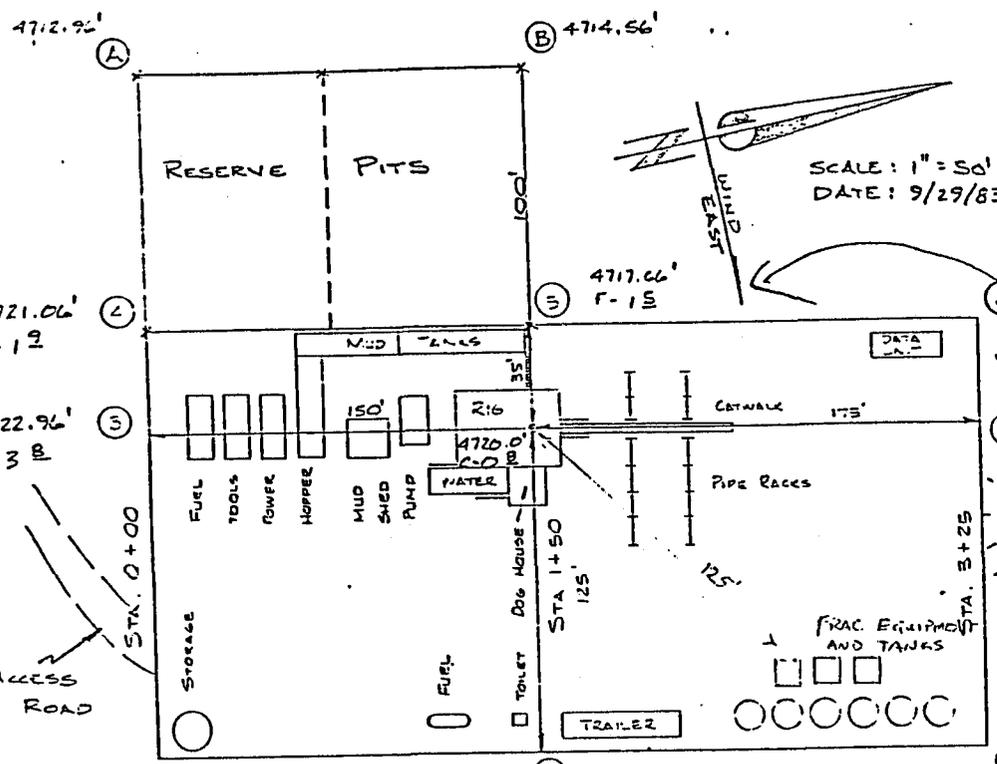


STA. 3+25

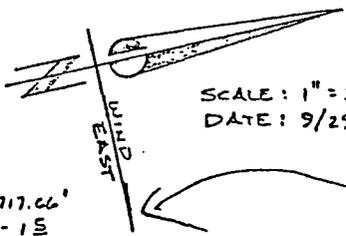
1" = 10'
1" = 50'

APPROX. YARDAGES

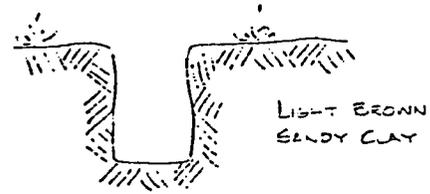
CUT 7631
FILL 490



SCALE: 1" = 50'
DATE: 9/29/83



EC-5 LITHOLOGY
NO SCALE



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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN ORIGINAL COPY
(Other instructions on reverse side)

Budget Bureau No. 10-1-0135
Expires August 31, 1985

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-46689
2. NAME OF OPERATOR FUEL EXPLORATION, INC.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME ---
3. ADDRESS OF OPERATOR 1860 LINCOLN STREET, SUITE 1200, DENVER, CO 80295		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 1980' FSL, 2047' FEL (NW SE) Sec. 10		8. FARM OR LEASE NAME FEDERAL
14. PERMIT NO. 43-047-31531		9. WELL NO. #1-10
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4720' GR		10. FIELD AND POOL, OR WILDCAT PARIETTE BENCH
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 10-T9S-R19E
		12. COUNTY OR PARISH UINTAH
		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 type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	(Other) _____	Spud <input checked="" 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 Fuelex-Federal #1-10 was spud at 1740 hours (5:40 pm) on January 23, 1985, by Westburne Drilling, Inc. Rig #58. Mary Smuin of the Vernal BLM District Office was so notified at 11:40 am on January 24, 1985.

The following changes in the APD were approved by Al McKee, BLM Engineer, in a telephone conversation with Marc Eckels at 11:45 am, January 24, 1985:

- 1) Change planned mud program below 4200' to KCl water system. Banox, a biodegradable oxygen scavenger will be used for corrosion control.
- 2) A float sub will be substituted for the drill string BOP listed in the 10-Point Well Prognosis.
- 3) A mud flow sensor will not be used.

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

SIGNED Marc Eckels TITLE CONSULTANT DATE 1/24/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions
reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-46689

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
FEDERAL

9. WELL NO.
#1-10

10. FIELD AND POOL, OR WILDCAT
PARIETTE BENCH

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA
Sec. 10-T9S-R19E

14. PERMIT NO.
43-047-31531

15. ELEVATIONS (Show whether DF, RT, OR, etc.)
4720'

12. COUNTY OR PARISH
UINTAH

13. STATE
UTAH

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*

WATER DISPOSAL

(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.)

On January 30, 1985, Al Birch and Mark Christensen were notified that the Federal 1-10 was producing 10 to 20 bbl. water per hour during drilling, and that this water might become a problem requiring disposal. Various options were discussed for dealing with this water and it was decided that the BLM would prefer the following:

- 1) contain in frac tank on location
- 2) haul to Diamond Shamrock disposal well near location
- 3) haul to Grant Hansen's disposal facility near Bridgeland

The pit level became a concern on the morning of January 31, 1985, and a 500 bbl. frac tank was set on location and hooked into the rig circulating system to prevent freezing of the contents. This effectively increased the pit volume by 500 bbl. In addition, Dalbo Trucking hauled 300 bbl to the Hansen disposal facility, The Diamond Shamrock well being unable to handle the required volume. These actions lowered the water level in the reserve pit by more than one foot.

These actions were verbally approved as contingency plans by Al Birch on January 30, 1985. Mr. Birch was verbally notified that they had been taken on February 1, 1985, by Marc Eckels

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

SIGNED

Mark T. Eckels

TITLE

Consultant

DATE

2/1/85

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1538 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number Fuelex Federal 1-10

Operator Fuel Exploration, Inc. Address 1860 Lincoln Street, Suite 1200,
Denver, CO 80295

Contractor Westburne Drilling Co. Address 999 18th St., Suite 1860
Denver, CO 80202

Location NW 1/4 SE 1/4 Sec. 10 T: 9S. R. 19E. County Uintah

Water Sands

	<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
	From	To	Flow Rate or Head	Fresh or Salty
1.	3,400'	- 3,430'	5 BPH	7,900 ppm Cl
2.	3,685'	- 3,705'	5 BPH	7,900 ppm Cl
3.				
4.				
5.				

(Continue of reverse side if necessary)

Formation Tops Tgr = 1,420'; Douglas Creek Mbr = 3,070'; Black Shale Mbr = 4,932';
Castle Peak Mbr = 5,110'.

Remarks

Aggregate water flow = 10 BPH. Shut in pressure = 45 psi. Dry hole.

- 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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instruction on reverse side)

Form approved by
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO. 2

U-46689

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
FEDERAL

9. WELL NO.
#1-10

10. FIELD AND POOL, OR WILDCAT
PARIETTE BENCH

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

SEC. 10-T9S-R19E

12. COUNTY OR PARISH
UINTAH

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.)

RECEIVED

FEB 11 1985

DIVISION OF OIL
GAS & MINING

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
FUEL EXPLORATION, INC.

3. ADDRESS OF OPERATOR
1860 LINCOLN STREET, SUITE 1200, DENVER, CO 80295

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
1980' FSL, 2047' FEL (NW SE) Sec. 10

14. PERMIT NO.
43-047-31531

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
4720'

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.)

Upon reaching the proposed T.D. of 5,500' a small gas show with a slight increase in light brown oil was taken at a depth of 5,488'. Jerry Kenczka, BLM Engineer gave verbal approval to Marc Eckels to continue drilling to 5,550' for the purpose of obtaining electric logs across the show, and the hole reached a T.D. of 5,550' at 4:45 pm, February 2, 1985.

A complete evaluation of logs and DST data indicated that a commercial completion of this well would not be possible. On February 3, 1985, Marc Eckels contacted Jerry Kenczka for plugging instructions, providing information as to the probable source of the artesian water flow issuing from the well. Mr. Kenczka gave verbal plugging orders as follows:

Plug #1-Cover interval from 3,300' to 3,750' to shut off water flowing from sands at 3,400'-3,430' and/or 3,685'-3,705'. This was done with 190 sx of densified Class H cement (18#/gal. slurry) with LCM.

Plug #2-A 100' plug across the top of Tgr. This was done with 35 sx Class A (15.6#/gal. slurry) with LCM, from 1,230' to 1,330'.

Plug #3-A 300' plug across the bottom of the surface casing at 550'. This was done with 90 sx Class A cement (15.5#/gal. slurry) from 350' to 650'. (SEE ATTACHED PAGE)

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

SIGNED: Marc Eckels

TITLE Consultant

DATE 2/4/85

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

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

DATE: 2/20/85
BY: John R. Dargatzis

*See Instructions on Reverse

Plug #4-A surface plug consisting of 25 sx Class A cement
(15.6#/gal. slurry).

This plugging program was performed by Halliburton Services and was completed at 5:00 am, February 4, 1985.

On February 2, 1985, it became necessary to remove excess water from the reserve pit. Dalbo trucking hauled 300 additional barrels to the Hansen disposal facility before it was found that Alta Energy would like to have this 5.5% KCl water for its use on another well. Martin Trucking then hauled 600 barrels to the new Alta reserve pit. Alta Energy will remove most of the remaining water in the Fuelex pit during the next few days, as per Earl Staley, Alta Energy.

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-46689

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

FEDERAL

9. WELL NO.

#1-10

10. FIELD AND POOL, OR WILDCAT

PARLETTE BENCH

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

SEC. 10-T9S-R19E

12. COUNTY OR PARISH | 13. STATE

UINTAH

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.)

RECEIVED

FEB 19 1985

DIVISION OF OIL
GAS & MINING

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

FUEL EXPLORATION, INC.

3. ADDRESS OF OPERATOR

1860 LINCOLN STREET, SUITE 1200, DENVER, CO 80295

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

At surface

1980' FSL, 2047' FEL (NW SE) Sec. 10

14. PERMIT NO.

43-047-31531

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

4720'

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) Post-drilling onsite inspection X

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

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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.)*

On February 8, 1985, at approximately 1:30pm, Tim O'Brien and Dave Zalunardo of the Vernal BLM District Office accompanied Marc Eckels, consultant to Fuelex, on a visit to the above-referenced location for the purpose of making a post-drilling inspection and to determine what, if any, immediate action should be taken by Fuelex with regard to rehabilitation of the drilling location. It was agreed by all parties that the site was essentially free of debris, that the dryhole marker was properly installed, that the water level in the reserve pit was low enough to prevent any spilling of the pit contents, and that the top soil used in constructing the reserve pit could be identified and recovered at the time of final grading.

It was further agreed that all of the items listed as needing attention in the letter from Ralph Heft to Fuelex, dated 2/4/85, had been attended to.

The following schedule was agreed upon for further action:

- 1) Empty reserve pit of all fluids as soon as possible, but allowing time to find another drilling location to take the KCl water contents.
- 2) Reclaim the barrow pit in Sec. 14 after the snow has melted so that the location of Sclerocactus glaucus can be determined. This will be

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

SIGNED

Marc Eckels

TITLE

Consultant

DATE

2/13/85

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

done upon request from the BLM and with a BLM representative present.

- 3) Reclaim and rehabilitate the drilling location as per APD upon request of BLM. This request will probably be made during late summer or fall of 1985. The BLM representatives will then meet with Fuelex's chosen dirtwork contractor to work out the details.



DIVISION OF XCO

1860 Lincoln Street, Suite 780, Denver, Colorado 80203 (303) 863-0014

FUEL EXPLORATION, INC.

PARIETTE BENCH FEDERAL #1-10 WELL

NW $\frac{1}{4}$ SE $\frac{1}{4}$ SECTION 10, T9S-R19E

UINTAH COUNTY, UTAH

LOGGING GEOLOGIST: Forrest A. Smouse
Rose Bumanglag
Mark Gamertsfelder
ANALEX

RESUME

OPERATOR: Fuel Exploration, Inc.
WELL NAME & NUMBER: Pariette Bench Federal #1-10
LOCATION: NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 10, T9S-R19E
COUNTY: Uintah
STATE: Utah
SPUD DATE: January 23, 1985
COMPLETION DATE (TD): February 2, 1985
ELEVATIONS: 4720' GL 4735' KB
TOTAL DEPTH: Driller 5550' Logger
CONTRACTOR: Westburne Drilling, Inc.
RIG: #58
PUMPS: Emsco D300
GEOLOGIST: David H. Suck - Consultant
ENGINEER: Marc Eckels
TOOL PUSHER: Jerry Green
MUD ENGINEER: Lew Arnold
HOLE SIZE: 12 $\frac{1}{4}$ to 548', 7-7/8 to TD
CASING: 8-5/8 to 548'
LOGGING GEOLOGISTS: Forrest A. Smouse, Rose Bumanglag, Mark Gamertsfelder
TYPE UNIT: 2-man FID total hydrocarbon analyzer, FID gas chromatograph
ELECTRIC LOGS BY: Gearhardt
TYPE LOGS RUN: CL, FDC, Dual Lat.
LOGGING ENGINEER: Mike Wach
BOTTOM FORMATION: Green River - Wasatch transition

SUMMARY AND CONCLUSIONS

Fuel Explorations Pariette Bench Federal #1-10 well was spudded by Westburne Drilling Company's Rig #58 on January 23, 1985. Drilling progressed with few delays and a total depth of 5550' (driller) was reached on February 2, 1985.

Hydrocarbon logging was started at 2000' on January 27, 1985. The Green River formation was the only formation encountered and all shows were very minor.

The Douglas Creek sandstone at 4465' was the best show but showed wet on the composition ratio plot. All others showed either very tight or very wet and none producible.

FORMATION SUMMARY

NOTE: All tops and reported zones of interest are based upon samples and information obtained during the drilling process. Footage and penetration rate were obtained from the drilling contractor's geolograph.

Green River Formation

Geologic sampling commenced at 2000' with estimated Green River top at 1420'. Drilling proceeded at a drill rate of 1 to 2 minutes/foot, occasionally dropping below 1 minute/foot in thin siltstone and sandstone beds. Shales consisting of light to medium brown, poor to moderate indurated, moderately silty, calcareous shales and siltstone occasionally appearing as an oil shale.

Douglas Creek Member

3070' (1650')

The Douglas Creek drilled consistantly at an average of 1.2 minutes/foot. Samples consisted of shales, siltstones, sandstones, and limestones. Shales being generally light to medium gray, moderately indurated, slight to moderately silty calcareous. Siltstones light to medium gray, slightly argillaceous, occasionally sandy, no visible porosity. Limestones at 3310' were light gray to buff, micro to cryptocrystalline, slightly argillaceous, no visible porosity. We had three sandstone shows in the Douglas Creek member. All were fine to very fine grained, subround to subangular, moderately sorted, poorly indurated, calcareous cement generally seen in unconsolidated form, D₂ sandstone showed fluorescence with yellow stream cut. D₂ had a DST run from 4475'-4489' with 5' free oil and wax with 126' of water recovered.

Black Shale Member

4932' (-212')

The Black Shale drilled at an average of 1.2 minutes/foot. Consisting of mainly dark brown to black shales, moderately indurated, smooth to moderately silty, none to moderately calcareous, slightly to moderately micaceous. The basal section grading to light and medium gray shales and occasional, buff to white limestones, occasional sandstones. Sand show 5490' slight fluorescence and poor streaming cut.

Castle Peak Member

5110' (-390')

The Castle Peak drilled at an average of 2.3 minutes/foot. Starting with the Castle Peak limestone; light to medium brown, light gray, moderately indurated, micro to cryptocrystalline, slight to moderately argillaceous, no visible porosity. The Castle Peak sandstones were extensive, from just below Castle Peak limestone to bottom hole. Sands were generally fine grained, translucent quartz, subround to subangular, moderately sorted, calcareous cement, occasionally glauconitic with poor to fair visible porosity. At 5490' small sandstone break with background gas doubled 600-1200 units, slight fluorescence, and slight stream cut.

No Wasatch was encountered.



OPERATOR PUELEX
 WELL Pariette Bench Pad 1-10

SEC 10 TWP 9 S 5 RNG 19 E
 JOB# 85022 Uintah CO., Utah



DIVISION OF XCO

SHOW REPORT# 1 Formation Green River

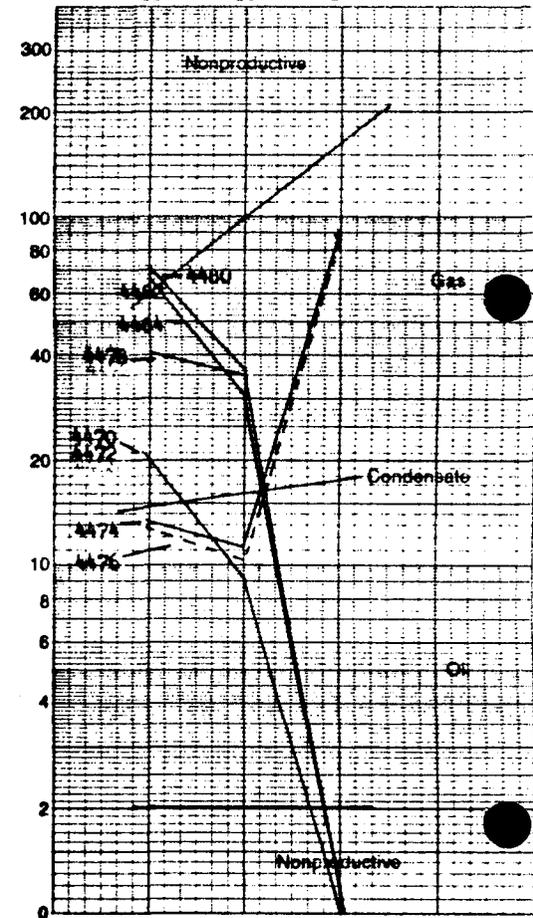
Time 14:32
 Date 1/30/85

RATIO PLOT: C1/C2 C1/C3 C1/C4

Depth Interval from 4464 to 4485 with X liberated _____ produced gas

Gross Ft 18 Net Ft 16

DEPTH	MIN/FT	TOTAL GAS		GAS CHROMATOGRAPHY %				SHOW GAS MINUS BACKGROUND		
		UNITS	% M.E.	C1	C2	C3	Σ C4	C1/C2	C1/C3	C1/C4
BACKGROUND	2.1	850	8.5	5.08	.104	.043	.057	0	0	0
4466	1.1	850	8.5	5.08	.104	.043	.057	0	0	0
4468	.8	1250	12.5	6.97	.25	.21	.058	13.5	11.3	90
4470	2.0	950	9.5	5.61	.13	.10	.057	20.4	9.3	0
4472	1.1	950	9.5	5.61	.13	.10	.057	20.4	9.3	0
4474	1.5	1230	12.3	6.97	.25	.21	.058	12.9	11.3	90
4476	.8	1230	12.3	6.97	.25	.21	.058	12.9	11.3	90
4478	1.0	1340	13.4	7.42	.16	.11	.037	41.8	34.9	0
4480	1.3	1100	11.0	6.97	.13	.10	.037	72.7	33.2	0
4482	1.1	1080	10.8	6.82	.13	.10	.037	66.9	30.5	0
4484	1.6	1050	10.5	6.89	.13	.10	.037	66.9	30.5	0
BACKGROUND	2.4	1050	10.5	6.89	.13	.10	.037			



GAS RATIO EVALUATION: _____ oil _____ gas _____ cond. X the _____ wet

LITHOLOGY TYPE: SS SH SLTST LS DOL Other _____
 %: (80) (20) () () () ()

Color transl Grain/Clal Size vf-f Shape shrd-shang Sorting mod Cmt & Mtx calc Acc _____

POROSITY: n (p m) f g X intgran _____ intxn _____ moldic _____ frac _____ vuggy _____ other _____

STAIN: Color none _____ even _____ spotted _____ pinpoint _____ bleeding _____ % in total cuttings _____

FLUORESCENCE: Color yalgn _____ X even _____ spotted _____ pinpoint _____ % in total cuttings 10 % mnrl _____

CHLOROTHENE CUT: Color yalgn Development a stag Residual _____

ODOR: (H) sl gd

CUT FLUORESCENCE: Color yal Development p Residual _____

WETTABILITY TEST: + -

MUD PROPERTIES: Wt 8.5+ FV 27 Fil BC %OH 12 KCl 3.7% ph 9.0 WOB 40 RPM 80 SPM 58 PP 9000

REMARKS: WATER-KCl MUD Bit Type HTC J-32H Hrs 91 Footage 3940

Analex cannot and does not guarantee the accuracy or correctness of this data and interpretation. Analox shall not be held liable or responsible for any loss, cost, damage or expense incurred or sustained by customer resulting from the use of this information or interpretation thereof by any of its agents, servants or employees.



OPERATOR FUEL EXPLORATION INC. SEC 10 TWP 96 RNG 192
 WELL PARIETTE MENCH FEDERAL #1-10 JOB# 85022 UTAH CO., UTAH

analex
 DIVISION OF XCO

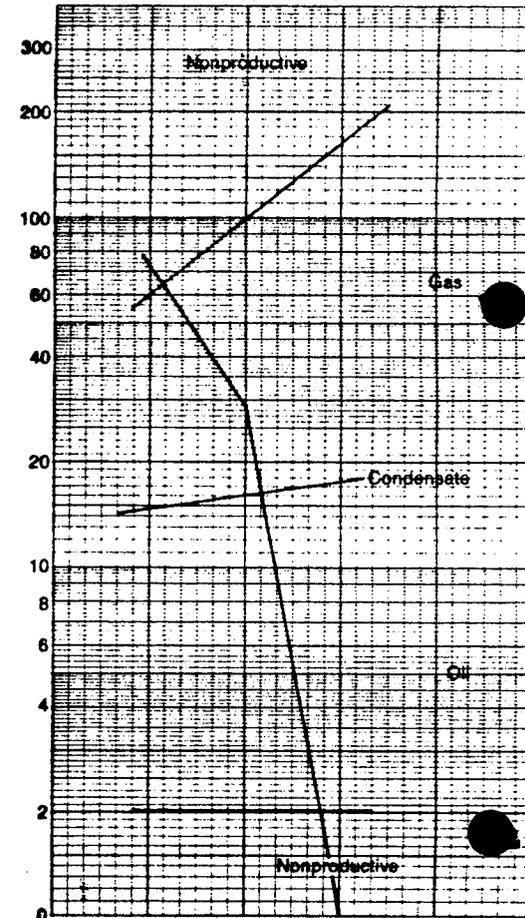
SHOW REPORT# 2 Formation GREEN RIVER Time 10:00 am
 Date 2/1/65

RATIO PLOT: $\frac{C1}{C2}$ $\frac{C1}{C3}$ $\frac{C1}{C4}$

Depth Interval from 4590 to 4598 with X liberated _____ produced gas

Gross Ft 8 Net Ft 10

G F P	DEPTH	MIN/FT	TOTAL GAS		GAS CHROMATOGRAPHY %				SHOW GAS MINUS BACKGROUND		
			UNITS	% M.E.	C1	C2	C3	Σ C4	$\frac{C1}{C2}$	$\frac{C1}{C3}$	$\frac{C1}{C4}$
	BACKGROUND	2.4	1050	10.5	7.72	.12	.07	.037			
	4590	2.0	1050	10.5	7.72	.12	.07	.037			
	4592	2.2	1150	11.5	8.48	.13	.09	.037	76.0	38.0	0
	4594	2.1	1160	11.6	8.48	.13	.09	.037	76.0	38.0	0
	4596	2.4	1140	11.4	8.48	.13	.09	.037	76.0	38.0	0
	4598	2.4	950	9.5	7.72	.12	.07	.037			
	4600	2.5	970	9.7	7.72	.12	.07	.037			
	BACKGROUND										



GAS RATIO EVALUATION: X oil _____ gas _____ bond. X the _____ wet

LITHOLOGY TYPE: SS SH SLTST LS DOL Other _____
 %: (30) (30) (20) () () ()

Color air Grain/Xtal Size f gr Shape shrd-sang Sorting mod Cmt & Mtx calc Acc _____

POROSITY: n p m f g X Ingran _____ Inbkn _____ moldic _____ frac _____ vuggy _____ other _____

STAIN: Color DK BRN _____ even X spotted _____ pinpoint _____ bleeding % in total cuttings 40

FLUORESCENCE: Color BL YEL _____ X even _____ spotted _____ pinpoint % in total cuttings 30 % mml _____

CHLOROTHENE CUT: Color BR YEL Development FR SEMG Residual _____

CUT FLUORESCENCE: Color _____ Development _____ Residual _____

MUD PROPERTIES: Wt H2O-KCl FV _____ FH _____ %OH _____ Cl _____ ph _____ WOB 40 RPM 60 SPM 60 PP 990

REMARKS: _____ BK Type #2 BR REC-332H Hrs _____ Footage _____

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OPERATOR FUEL EXPLORATION INC.

SEC 10 TWP 05 RNG 19E

WELL Pariette Bench Federal #1-10

JOB# 85022 Uintah CO., Utah



DIVISION OF XCO

SHOW REPORT# 3 Formation MASATCH

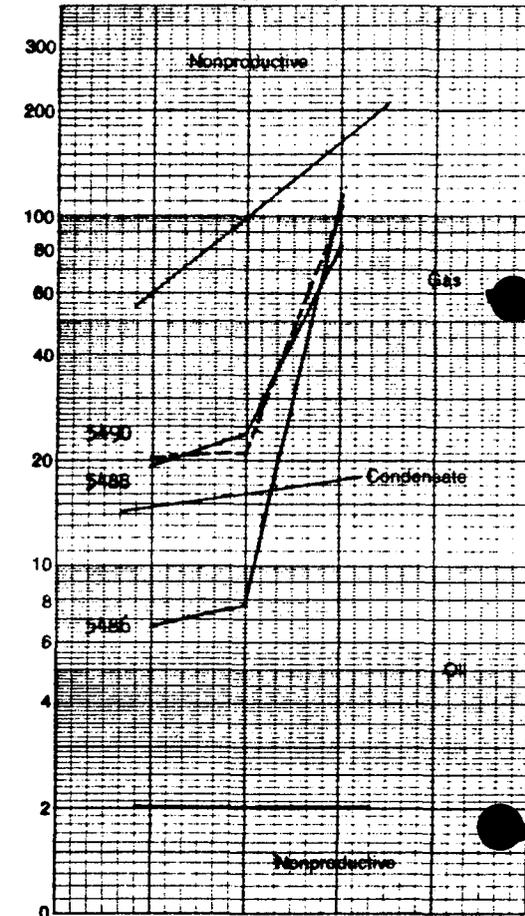
Time 1:30 pm
Date 2/1/85

RATIO PLOT: $\frac{C1}{C2}$ $\frac{C1}{C3}$ $\frac{C1}{C4}$

Depth Interval from 5480 to 5500 with X liberated _____ produced gas

Gross Ft 16 Net Ft 8

DEPTH	MIN/FT	TOTAL GAS		GAS CHROMATOGRAPHY %				SHOW GAS MINUS BACKGROUND		
		UNITS	% M.E.	C1	C2	C3	Σ C4	$\frac{C1}{C2}$	$\frac{C1}{C3}$	$\frac{C1}{C4}$
BACKGROUND	2.5	650	6.5	3.7	.049	.028	.035			
5480	2.1	620	6.2	3.2	.049	.028	.035			
5482	2.0	620	6.2	4.6	.049	.028	.035			
5484	2.0	750	7.6	4.6	.074	.056	.035	42.8	38.3	
5486	1.9	1000	10.0	4.3	.136	.104	.040	6.7	7.5	114.0
5488	1.8	1280	12.8	6.4	.186	.139	.067	19.5	24.1	83.4
5490	2.1	900	9.0	4.6	.092	.069	.043	20.2	21.2	108.8
5492	1.9	680	8.8	4.5	.062	.042	.035	59.2	55.0	
5494	1.9	900	9.0	4.2	.049	.028	.035			
5496	2.1	800	8.0	4.8	.049	.028	.035			
5498	2.4	900	9.0	4.0	.049	.028	.035			
BACKGROUND	1.5	700	7.0	4.2	.049	.026	.035			



GAS RATIO EVALUATION: _____ oil _____ gas _____ cond. _____ lite X wet

LITHOLOGY TYPE: (SS) (SH) (SLTST) LS DOL Other _____
% (20) (70) (10) () () ()

Color air Grain/Xtal Size 1 gr Shape shrd-shang Sorting mod Cmt & Mtr calc Acc _____

POROSITY: n (P) m f g X Ingran Inxin moldic frac vuggy other _____

STAIN: Color _____ even spotted pinpoint bleeding % in total cuttings _____

FLUORESCENCE: Color yalgn X even spotted pinpoint % in total cuttings 10 % mnl _____

CHLOROTHENE CUT: Color yalgn Development a stag Residual _____

ODOR: (N) al gd

CUT FLUORESCENCE: Color yal Development _____ Residual _____

WETTABILITY TEST: + -

MUD PROPERTIES: WR 2.5 FV 120 FH 10 %OH 20 KCl 23000 ph 9.0 WOB 40 RPM 80 SPM 60 PP 950

REMARKS: _____ Bit Type J-33-H Hrs 33 Footage 1011

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FLOPETROL JOHNSTON

Schlumberger

WELL PERFORMANCE TEST REPORT

A Production Systems Analysis (NODAL)
Based On
Drillstem Test Data

Test Date
01-31-85

Report No.:
42989 E

COMPANY
FUEL EXPLORATION

WELL
FEDERAL 1-10

TEST IDENTIFICATION

Test Type: OPEN HOLE
Test Number: 1
Formation: GREEN RIVER
Test Interval: 4475 - 4489 FT.
Reference Depth: KELLY BUSHING

WELL LOCATION

Field.....: PARIETTE BENCH
County.....: UINTAH
State.....: UTAH
Sec/Twn/Rng: S10 T9S R19E
Elevation.....: 4734 FT.

HOLE CONDITIONS

Total Depth (MVD/TVD): 4489 FT.
Hole Size / Deviation Angle: 7 7/8"/STRAIGHT
Csg / Liner ID: NA
Perf'd Interval: NA
Shot Density / Phasing: NA
Gun Type / Perf Cond: NA

MUD PROPERTIES

Mud Type: WATER
Mud Weight: 8.5 LB/GAL
Mud Resistivity: NOT GIVEN
Filtrate Resistivity: NOT GIVEN
Filtrate Chlorides: 17000 PPM
Filtrate Nitrates.....: NA

INITIAL TEST CONDITIONS

Gas Cushion Type: NONE
Surface Pressure: NA
Liquid Cushion Type: NONE
Height Above DST Valve: NA

TEST STRING CONFIGURATION

Pipe Length / ID.....: 3838 FT./3.83 IN.
Collar Length / ID.....: 619 FT./2.50 IN.
Packer Depth(s).....: 4475 FT.
BH Choke Size.....: 15/16 IN.

NET PIPE RECOVERY

Volume	Fluid Type	Physical Properties
0.03 BBL	OIL	ASSUMED 25° API
0.78 BBL	WATER	TOP: .25 OHM -M @ 80°F BTM: .36 OHM -M @ 80°F

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Physical Properties
0.2 SCF	GAS	
1875 CC	WATER	.16 OHM -M @ 84°F

Pressure: 100 PSIG GOR: -- GLR: 17

INTERPRETATION RESULTS

Reservoir Pressure @Gauge Depth: 2184 PSIA
Gauge Depth: 4479 FT.
Hydrostatic Gradient: .488 PSI/FT
Potentiometric Surface: 5298 FT.
Effective Permeability to LIQUID 0.1 MD.
Transmissibility.....: 2.61 MD.-FT./CP.
Skin Factor / Damage Ratio.....: 4.61 / 2.49
Omega / Lambda (2φ System).....: HOMOGENEOUS
Radius of Investigation: 8 FT.
Measured Wellbore Storage: 9.9E-04

ROCK / FLUID / WELLBORE PROPERTIES

Reservoir Temperature.....: 120°F
Analysis Fluid Type.....: TOTAL LIQUID
Formation Volume Factor: 1.02 RVB/STB
Viscosity: 0.56 CP.
Z-Factor (gas only).....: --
Net Pay.....: 14 FT.
Porosity: 5%
Total System Compressibility.....: 2.26E-04 1/PSI
Wellbore Radius.....: .328 FT.
Expected Wellbore Storage.....: 3.79E-03

FLOW RATE DURING DST

17.5 BLPD avg. / 5.3 BLPD last rate

MAXIMUM FLOW RATE POTENTIAL AFTER COMPLETION

NOTE: NO COMPLETION DESIGN NODAL PLOTS HAVE BEEN GENERATED HERE DUE TO THE NATURE OF THE PRODUCED FLUID, 96% WATER.

FJS 5 B14059

BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 42989E

COMPANY : FUEL EXPLORATION, INC.

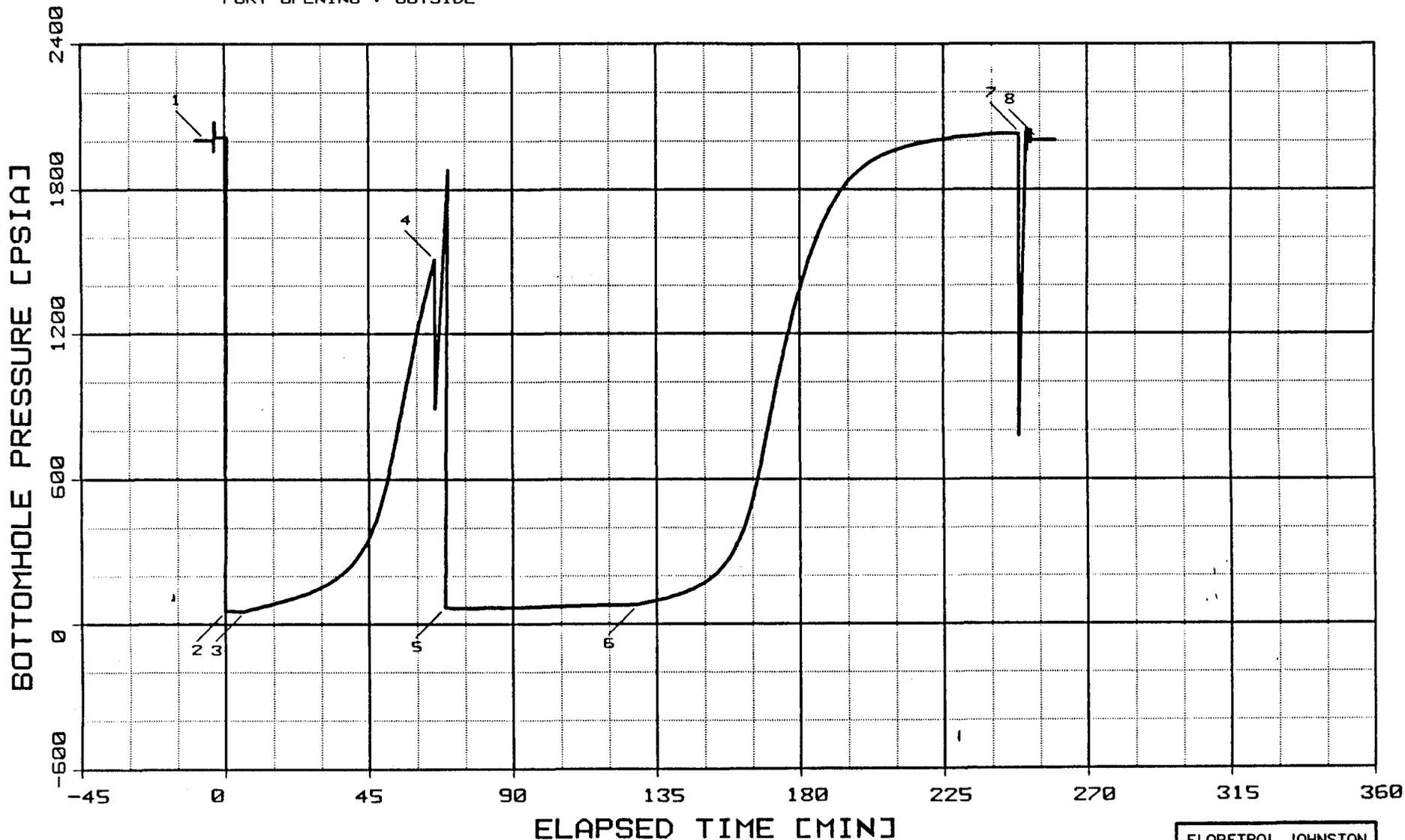
INSTRUMENT NO. J-1043

WELL : FEDERAL #1-10

DEPTH : 4479 FT

CAPACITY : 2800 PSI

PORT OPENING : OUTSIDE



DST EVENT SUMMARY

Field Report # 42989 E

DATE (M/D/Y)	TIME (HR:MIN)	EVENT E.T. (MIN)	EVENT DESCRIPTION	LABEL PT. #	SURFACE PRESSURE (PSIG)	FLOOR MANIFOLD CHOKE SIZE (64ths INCH)
1-31-85	1012	—	SET PACKER	1		1/8" BUBBLE HOSE
	1017	—	OPENED TEST TOOL FOR INITIAL FLOW	2		"
			4" BLOW THROUGHOUT FLOW PERIOD			
	1022	—	CLOSED TEST TOOL FOR INITIAL SHUT-IN	3		"
			4" BLOW IN WATER			
	1037		BLOW DIED			"
	1122		FINISHED SHUT-IN	4		"
	1126	—	OPENED TEST TOOL FOR FINAL FLOW	5		"
			1/2" BLOW IN WATER			
	1131		1" BLOW IN WATER			"
	1136		1" BLOW IN WATER			"
	1141		1" BLOW IN WATER			"
	1146		1/2" BLOW IN WATER			"
	1151		1/4" BLOW IN WATER			"
	1156		SURFACE BLOW IN WATER DECREASING TO VERY WEAK SURFACE BLOW			"
	1226	—	CLOSED TEST TOOL FOR FINAL SHUT-IN	6		"
	1426	—	FINISHED FINAL SHUT-IN	7		"
	1427	—	UNSEATED PACKER	8		—
		—	REVERSED OUT			
		—	BEGAN TRIP OUT OF HOLE			

 * WELL TEST DATA PRINTOUT *

FIELD REPORT # : 42989E

COMPANY : FUEL EXPLORATION, INC.
 WELL : FEDERAL #1-10

INSTRUMENT # : J-1043
 CAPACITY [PSI] : 2800.
 DEPTH [FT] : 4479.0
 PORT OPENING : OUTSIDE
 TEMPERATURE [DEG F] : 120.0

LABEL POINT INFORMATION

#	TIME OF DAY	DATE	EXPLANATION	ELAPSED TIME, MIN	BOT HOLE PRESSURE PSIA
1	10:14:2	31-JA	HYDROSTATIC MUD	-5.97	2003
2	10:17:0	31-JA	START FLOW	0.00	52
3	10:23:5	31-JA	END FLOW & START SHUT-IN	6.08	51
4	11:22:42	31-JA	END SHUT-IN	65.70	1507
5	11:25:50	31-JA	START FLOW	68.83	68
6	12:26:3	31-JA	END FLOW & START SHUT-IN	129.05	78
7	14:26:0	31-JA	END SHUT-IN	249.00	2029
8	14:31:50	31-JA	HYDROSTATIC MUD	254.83	2003

SUMMARY OF FLOW PERIODS

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA
1	0.00	6.08	6.08	52	51
2	68.83	129.05	60.22	68	78

SUMMARY OF SHUTIN PERIODS

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	FINAL FLOW PRESSURE PSIA	PRODUCING TIME, MIN
1	6.08	65.70	59.62	51	1507	51	6.08
2	129.05	249.00	119.95	78	2029	78	219.99

TEST PHASE : FLOW PERIOD # 1

TIME OF DAY	DATE	ELAPSED TIME	DELTA TIME	BOT HOLE PRESSURE
HH:MM:SS	DD-MM	TIME, MIN	TIME, MIN	PSIA
10:17:0	31-JA	0.00	0.00	52
10:22:0	31-JA	5.00	5.00	51
10:23:5	31-JA	6.08	6.08	51

TEST PHASE : SHUTIN PERIOD # 1

FINAL FLOW PRESSURE [PSIA] = 51
 PRODUCING TIME [MIN] = 6.08

TIME OF DAY	DATE	ELAPSED TIME	DELTA TIME	BOT HOLE PRESSURE	DELTA P	LOG HORNER TIME
HH:MM:SS	DD-MM	TIME, MIN	TIME, MIN	PSIA	PSI	TIME
10:23:5	31-JA	6.08	0.00	51	0	
10:24:5	31-JA	7.08	1.00	56	4	0.850
10:25:5	31-JA	8.08	2.00	60	8	0.606
10:26:5	31-JA	9.08	3.00	63	12	0.481
10:27:5	31-JA	10.08	4.00	66	15	0.401
10:28:5	31-JA	11.08	5.00	69	18	0.346
10:29:5	31-JA	12.08	6.00	73	22	0.304
10:30:5	31-JA	13.08	7.00	76	25	0.272
10:31:5	31-JA	14.08	8.00	80	28	0.246
10:32:5	31-JA	15.08	9.00	83	32	0.224
10:33:5	31-JA	16.08	10.00	87	36	0.206
10:35:5	31-JA	18.08	12.00	94	43	0.178
10:37:5	31-JA	20.08	14.00	102	51	0.157
10:39:5	31-JA	22.08	16.00	110	59	0.140
10:41:5	31-JA	24.08	18.00	119	68	0.126
10:43:5	31-JA	26.08	20.00	129	77	0.115
10:45:5	31-JA	28.08	22.00	140	89	0.106
10:47:5	31-JA	30.08	24.00	153	101	0.098
10:49:5	31-JA	32.08	26.00	167	116	0.091
10:51:5	31-JA	34.08	28.00	183	132	0.085
10:53:5	31-JA	36.08	30.00	202	151	0.080
10:58:5	31-JA	41.08	35.00	270	219	0.070
11:03:5	31-JA	46.08	40.00	388	336	0.061
11:08:5	31-JA	51.08	45.00	609	558	0.055
11:13:5	31-JA	56.08	50.00	931	880	0.050
11:18:5	31-JA	61.08	55.00	1255	1204	0.046
11:22:42	31-JA	65.70	59.62	1507	1456	0.042

TEST PHASE : FLOW PERIOD # 2

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA
HH:MM:SS	DD-MM	*****	*****	*****
11:25:50	31-JA	68.83	0.00	68
11:30:50	31-JA	73.83	5.00	66
11:35:50	31-JA	78.83	10.00	66
11:40:50	31-JA	83.83	15.00	66
11:45:50	31-JA	88.83	20.00	66
11:50:50	31-JA	93.83	25.00	68
11:55:50	31-JA	98.83	30.00	70
12: 0:50	31-JA	103.83	35.00	71
12: 5:50	31-JA	108.83	40.00	73
12:10:50	31-JA	113.83	45.00	75
12:15:50	31-JA	118.83	50.00	76
12:20:50	31-JA	123.83	55.00	77
12:25:50	31-JA	128.83	60.00	78
12:26: 3	31-JA	129.05	60.22	78

TEST PHASE : SHUTIN PERIOD # 2

FINAL FLOW PRESSURE [PSIA] = 78

PRODUCING TIME [MIN] = 219.99

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
HH:MM:SS	DD-MM	*****	*****	*****	*****	*****
12:26: 3	31-JA	129.05	0.00	78	0	
12:27: 3	31-JA	130.05	1.00	82	4	2.344
12:28: 3	31-JA	131.05	2.00	85	7	2.045
12:29: 3	31-JA	132.05	3.00	88	9	1.871
12:30: 3	31-JA	133.05	4.00	91	12	1.748
12:31: 3	31-JA	134.05	5.00	94	15	1.653
12:32: 3	31-JA	135.05	6.00	96	18	1.576
12:33: 3	31-JA	136.05	7.00	99	21	1.511
12:34: 3	31-JA	137.05	8.00	103	24	1.455
12:35: 3	31-JA	138.05	9.00	106	28	1.406
12:36: 3	31-JA	139.05	10.00	110	31	1.362
12:38: 3	31-JA	141.05	12.00	118	39	1.286
12:40: 3	31-JA	143.05	14.00	126	48	1.223
12:42: 3	31-JA	145.05	16.00	137	59	1.169
12:44: 3	31-JA	147.05	18.00	149	71	1.121
12:46: 3	31-JA	149.05	20.00	164	85	1.079
12:48: 3	31-JA	151.05	22.00	181	102	1.041
12:50: 3	31-JA	153.05	24.00	201	123	1.007
12:52: 3	31-JA	155.05	26.00	227	149	0.976
12:54: 3	31-JA	157.05	28.00	259	181	0.947
12:56: 3	31-JA	159.05	30.00	301	222	0.921
13: 1: 3	31-JA	164.05	35.00	464	386	0.862
13: 6: 3	31-JA	169.05	40.00	748	669	0.813
13:11: 3	31-JA	174.05	45.00	1070	991	0.770

TEST PHASE : SHUTIN PERIOD # 2

FINAL FLOW PRESSURE [PSIA] = 78

PRODUCING TIME [MIN] = 219.99

TIME OF DAY	DATE	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
HH:MM:SS	DD-MM	*****	*****	*****	*****	*****
13:16:	3 31-JA	179.05	50.00	1338	1260	0.732
13:21:	3 31-JA	184.05	55.00	1554	1475	0.699
13:26:	3 31-JA	189.05	60.00	1709	1630	0.669
13:31:	3 31-JA	194.05	65.00	1816	1738	0.642
13:36:	3 31-JA	199.05	70.00	1884	1806	0.617
13:41:	3 31-JA	204.05	75.00	1928	1850	0.595
13:46:	3 31-JA	209.05	80.00	1958	1879	0.574
13:51:	3 31-JA	214.05	85.00	1978	1899	0.555
13:56:	3 31-JA	219.05	90.00	1993	1915	0.537
14: 1:	3 31-JA	224.05	95.00	2005	1926	0.521
14: 6:	3 31-JA	229.05	100.00	2014	1935	0.505
14:11:	3 31-JA	234.05	105.00	2020	1941	0.491
14:16:	3 31-JA	239.05	110.00	2026	1948	0.477
14:21:	3 31-JA	244.05	115.00	2029	1951	0.464
14:26:	0 31-JA	249.00	119.95	2029	1951	0.452

ΔT (MIN)

0.68 0.88 1.1 1.5 2.0 2.8 4.0 6.1 10 23 00

HORNER PLOT

FIELD REPORT NO. 42989E

INSTRUMENT NO. J-1043

COMPANY : FUEL EXPLORATION, INC.

WELL : FEDERAL #1-10

SHUTIN #1 : FINAL FLOW PRESSURE: 51.15 PSIA

PLOT ELAPSED TIME RANGE: 6.8 TO 65.7 MIN

PLOT ΔT TIME RANGE: 0.7 TO 59.6 MIN

PRODUCING TIME (T_p): 6.1 MIN

SHUTIN PRESSURE [PSIA]

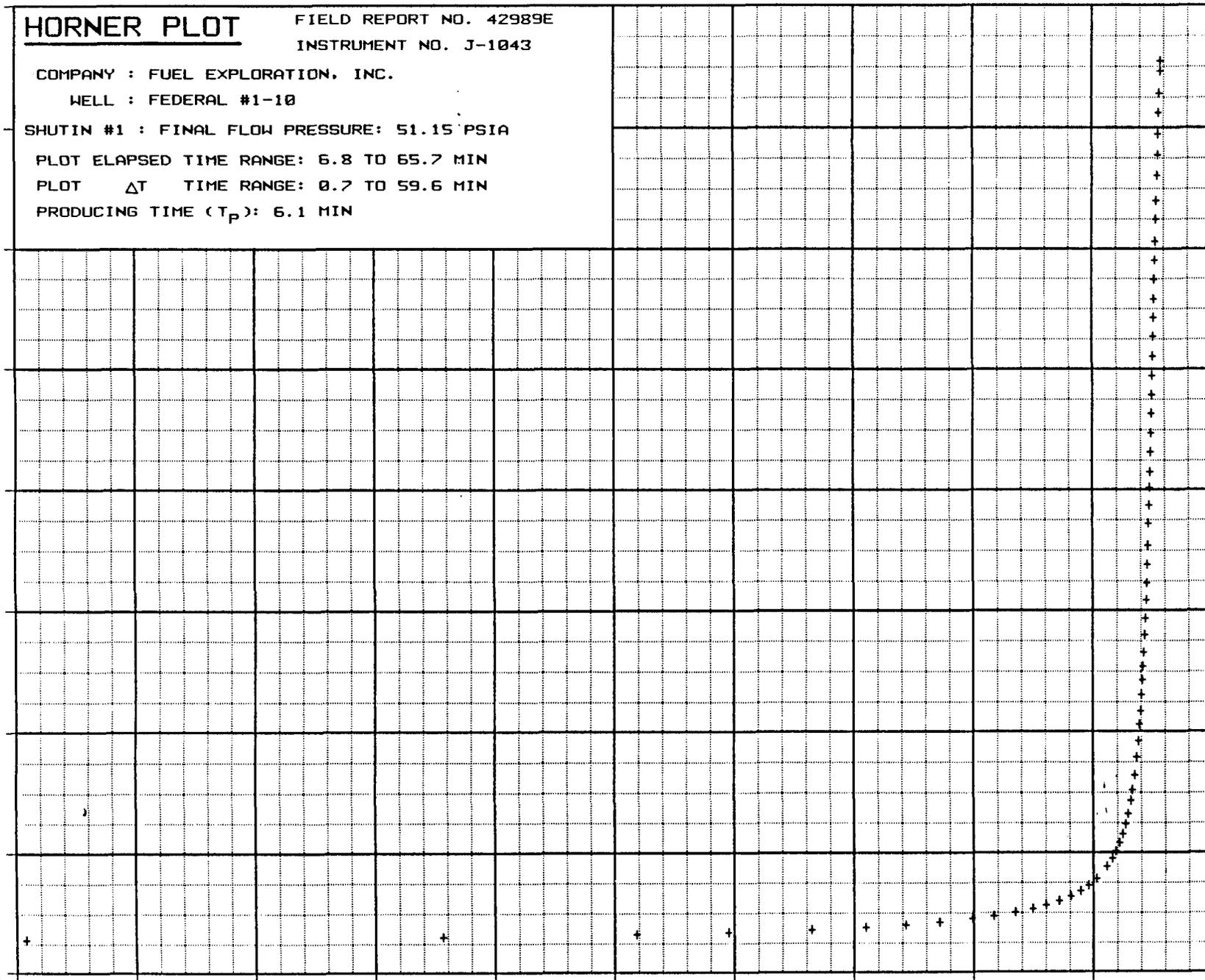
1600
1400
1200
1000
800
600
400
200
0

1.00 0.90 0.80 0.70 0.60 0.50 0.40 0.30 0.20 0.10 0.00

$$\text{LOG} \left[\frac{T_p + \Delta T}{\Delta T} \right]$$

FLOPETROL JOHNSTON

Schlumberger



ΔT (MIN)

0.70 1.2 2.2 4.0 7.2 13 24 47 101 282 00

HORNER PLOT

FIELD REPORT NO. 42989E

INSTRUMENT NO. J-1043

COMPANY : FUEL EXPLORATION, INC.

WELL : FEDERAL #1-10

SHUTIN #2 : FINAL FLOW PRESSURE: 78.41 PSIA

PLOT ELAPSED TIME RANGE: 129.8 TO 249.0 MIN

PLOT ΔT TIME RANGE: 0.8 TO 119.9 MIN

PRODUCING TIME (T_p): 220.0 MIN

SHUTIN PRESSURE [PSIA]

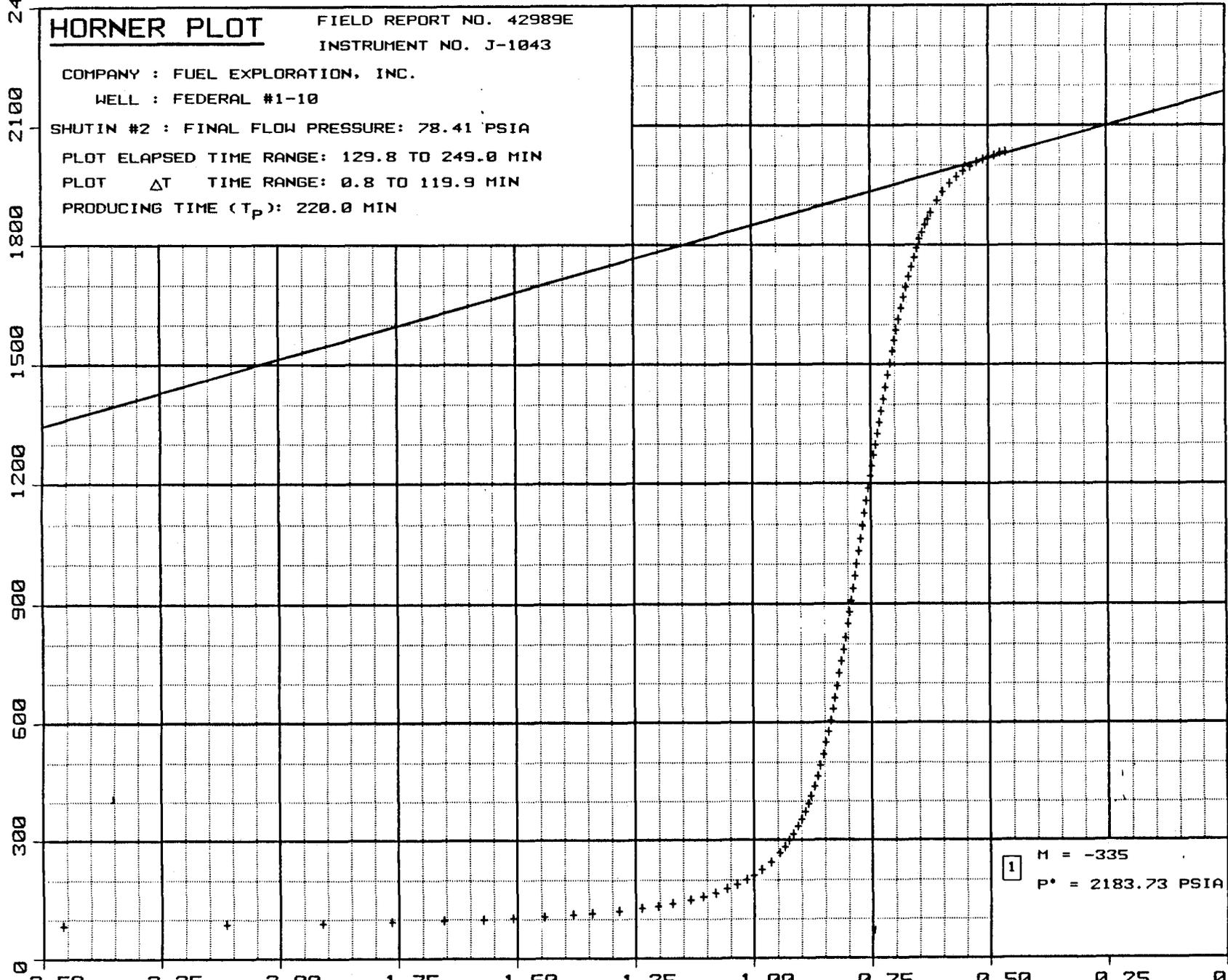
2400
2100
1800
1500
1200
900
600
300
0

2.50 2.25 2.00 1.75 1.50 1.25 1.00 0.75 0.50 0.25 0.00

$$\text{LOG} \left[\frac{T_p + \Delta T}{\Delta T} \right]$$

1 M = -335
P* = 2183.73 PSIA

FLOPETROL JOHNSTON
Schlumberger



BOTTOM HOLE PRESSURE AND TIME DATA

JOHN MACCÓ
Schumberger

PAGE NUMBER

JS-197A

INSTRUMENT NUMBER
J-080

CAPACITY (P.S.I.)
2800#

DEPTH
4425 FT.

PORT OPENING
ABOVE TEST TOOL

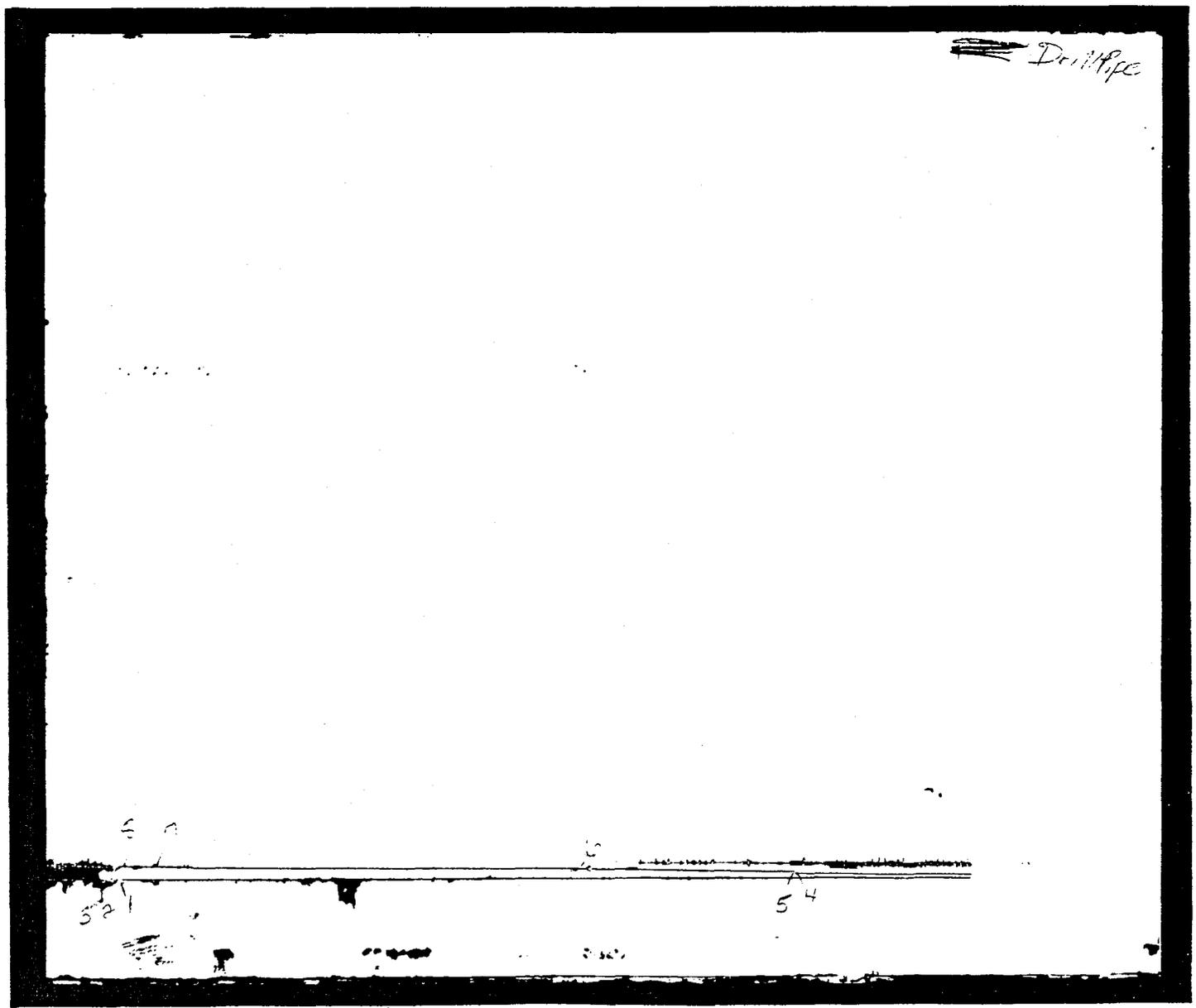
BOTTOM HOLE TEMPERATURE
120°F

FIELD REPORT NUMBER
42989E

DESCRIPTION	LABELED POINTS	PRESSURE (P.S.I.)	GIVEN TIME	COMPUTED TIME
INITIAL HYDROSTATIC MUD	1	25		
INITIAL FLOW (1)	2	25		
INITIAL FLOW (2)	3	35	5 MINS.	
INITIAL SHUT-IN	4	41	60 MINS.	
SECOND FLOW (1)				
SECOND FLOW (2)				
SECOND SHUT-IN				
FINAL FLOW (1)	5	42		
FINAL FLOW (2)	6	58	60 MINS.	
FINAL SHUT-IN	7	72	120 MINS.	
FINAL HYDROSTATIC MUD	8	72		

REMARKS:

INSTRUMENT RUN ABOVE TOOL



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE
RECEIVED
(See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

10

WELL COMPLETION OR RECOMPLETION REPORT

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
FUEL EXPLORATION, INC.

3. ADDRESS OF OPERATOR
1860 Lincoln Street Suite 1200, Denver, Colorado 80295

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
 At surface **1980' FSL, 2047' FEL (NW SE) Section 10**
 At top prod. interval reported below same
 At total depth same

14. PERMIT NO. **43-047-31531** DATE ISSUED **8/28/84**

15. DATE SPUDDED **1/23/85** 16. DATE T.D. REACHED **2/2/85** 17. DATE COMPL. (Ready to prod.) **Dry hole**

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* **4,720' (GR), 4,735(KB)** 19. ELEV. CASINGHEAD **cut off below gr**

20. TOTAL DEPTH, MD & TVD **5,550'** 21. PLUG. BACK T.D., MD & TVD **well plugged** 22. IF MULTIPLE COMPL. HOW MANY* **NA** 23. INTERVALS DRILLED BY ROTARY TOOLS **0'-5,550'** CABLE TOOLS **---**

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
None

26. TYPE ELECTRIC AND OTHER LOGS RUN
Dual Laterolog, Gamma Ray, Caliper, Comp. Density, Comp. Neutron

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#, J-55	550'	12 1/4"	285 sx Lite/Class H w/ LCM & 3% CaCl.	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) **Dry hole**

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
2 copies ea.: Dual Laterolog/MSFL, Comp. Density/Comp. Neutron Log, Mud Log, DST report, & well history.

5. LEASE DESIGNATION AND SERIAL NO.
U-46689

6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____

7. UNIT AGREEMENT NAME _____

8. FARM OR LEASE NAME
Federal

9. WELL NO.
1-10

10. FIELD AND POOL, OR WILDCAT
Pariette Bench *Undesigna.*

11. SEC. T., R., N., OR BLOCK AND SURVEY OR AREA
SEC. 10-T9S-R19E

12. COUNTY OR PARISH
Uintah

13. STATE
Utah

25. WAS DIRECTIONAL SURVEY MADE
Yes. Max dev.=2-1

27. WAS WELL CORED
No

SIGNED *Marc T. Edlund* TITLE **Consultant** DATE **March 28, 1985**

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

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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.
Tgr (Douglas Creek)	3,400'	3,430'	Est. 5 BPH water flow, Cl increased from 1600 ppm to 7900 ppm.
Tgr (Douglas Creek)	3,685'	3,705'	Est. additional 5 BPH water flow, Cl unchanged at 7900 ppm. These two water flows were shut in for logging the well. SICP = 45 psi.
Tgr (Douglas Creek)	4,475'	4,489'	See DST data attached.

38. GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TOP	
		MEAS. DEPTH	TRUE VERT. DEPTH
Green River	est. 1,420'		1,420'
Douglas Creek Mkr	3,070'		3,070'
Black Shale	4,932'		4,932'
Castle Peak Mbr	5,110'		5,110'
Well did not penetrate Wasatch formation			



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

June 28, 1985

Fuel Exploration, Inc.
1860 Lincoln Street, #1200
Denver, Colorado 80295

Gentlemen:

Re: Well No. Federal 1-10 - Sec. 10, T. 9S., R. 19E.,
Uintah County, Utah - API #43-047-31531

According to our records a "Well Completion Report" filed with this office March 28, 1985 on the above referenced well indicates the following electric logs were run: Dual Laterolog, Gamma Ray, Caliper, Comp. Density, Comp. Neutron. This office has not yet received these logs.

Please take care of this matter as soon as possible, but not later than July 12, 1985.

Your cooperation in this matter is appreciated.

Sincerely,

A handwritten signature in cursive script that reads "Pam Kenna".

Pam Kenna
Well Records Specialist

cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File

0161S/4