

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

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

2. NAME OF OPERATOR
 ENERGY RESERVES GROUP, INC.

3. ADDRESS OF OPERATOR
 BOX 3280 CASPER, WYOMING 82602

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

 At proposed prod. zone 2404' FSL 2062' FWL (NE/SW)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approx. 18 Miles southeast of Jensen, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 236'

16. NO. OF ACRES IN LEASE 1280

17. NO. OF ACRES ASSIGNED TO THIS WELL 40

18. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1300'

19. PROPOSED DEPTH 5650' *Green River*

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 5103' GR. (Ungraded)

22. APPROX. DATE WORK WILL START*
 As soon as approved

5. LEASE DESIGNATION AND SERIAL NO.
 U-02651-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 BROADHURST

9. WELL NO.
 6

10. FIELD AND POOL, OR WILDCAT
 Walker Hollow

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec 9, T7S-R23E

12. COUNTY OR PARISH 13. STATE
 Uintah Utah

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#	500'	CMT to surface
7-7/8"	5 1/2 or 4 1/2"	14# or 9.5#	5650'	390sx or 300 sx.

Energy Reserves Group, Inc. proposes to drill the referenced well as shown on the attached plan of operations.

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING

DATE: 5-16-80

BY: M. J. Winder

RECEIVED

MAR 24 1980

DIVISION OF OIL, GAS & MINING

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

24. SIGNED [Signature] TITLE Field Services Administrator DATE 3-17-80

(This space for Federal or State office use)

PERMIT NO. 43-047-30705 APPROVAL DATE 5/16/80

APPROVED BY _____ TITLE _____ DATE _____

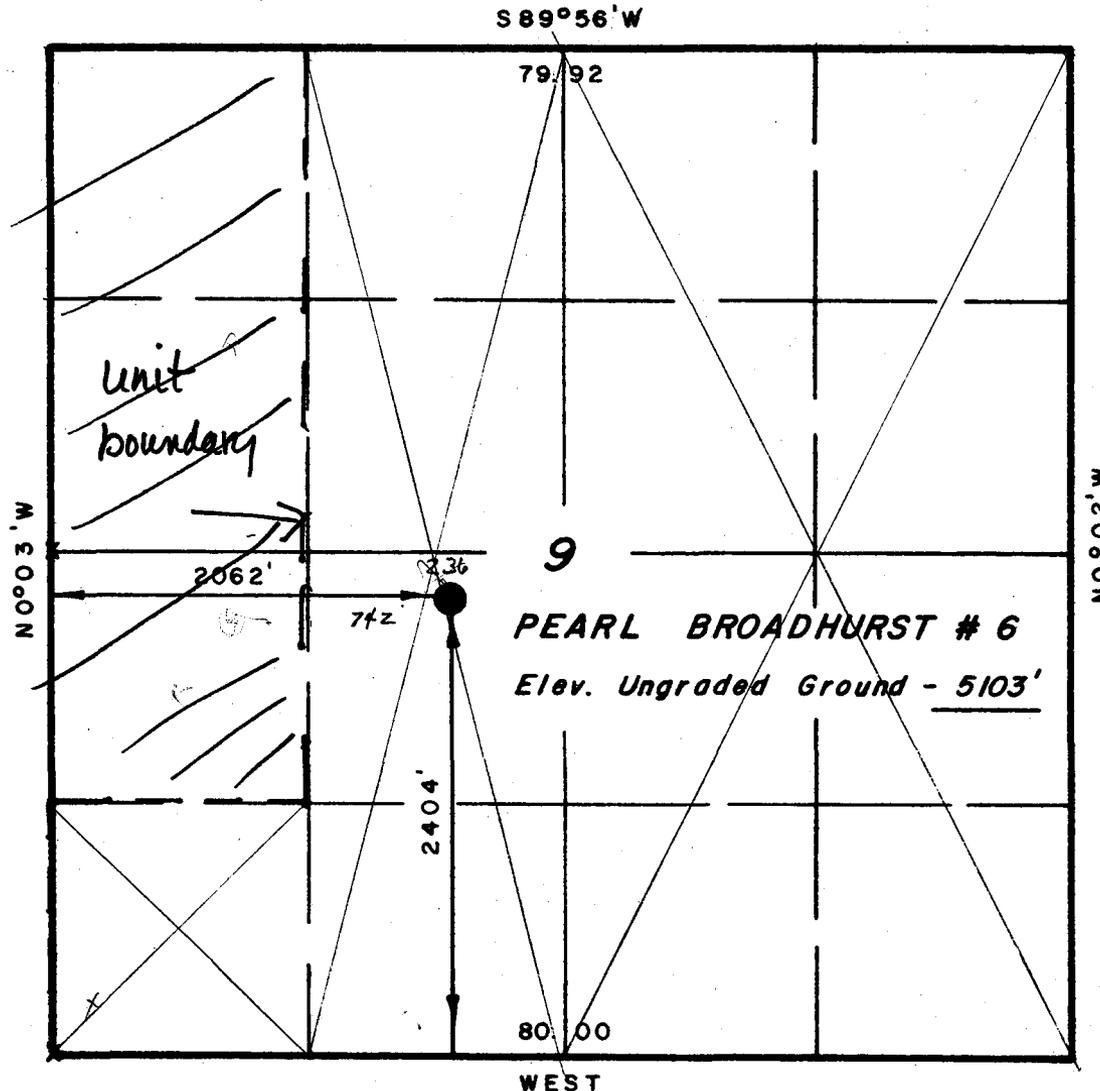
CONDITIONS OF APPROVAL, IF ANY:

PROJECT

ENERGY RESERVES GROUP

Well location, **PEARL BROADHURST # 6**,
located as shown in the NE 1/4 SW 1/4
Section 9, T 7 S, R 23 E, S.L.B. & M.
Uintah County, Utah.

T 7 S, R 23 E, S.L.B. & M.



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.

John Marshall
REGISTERED LAND SURVEYOR
REGISTRATION NO 2454
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q - 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	3/10/80
PARTY	N.J.M. D.D. S.B.	REFERENCES	GLO Plat
WEATHER	Rain Snow, Cloudy	FILE	ENERGY RESERVES

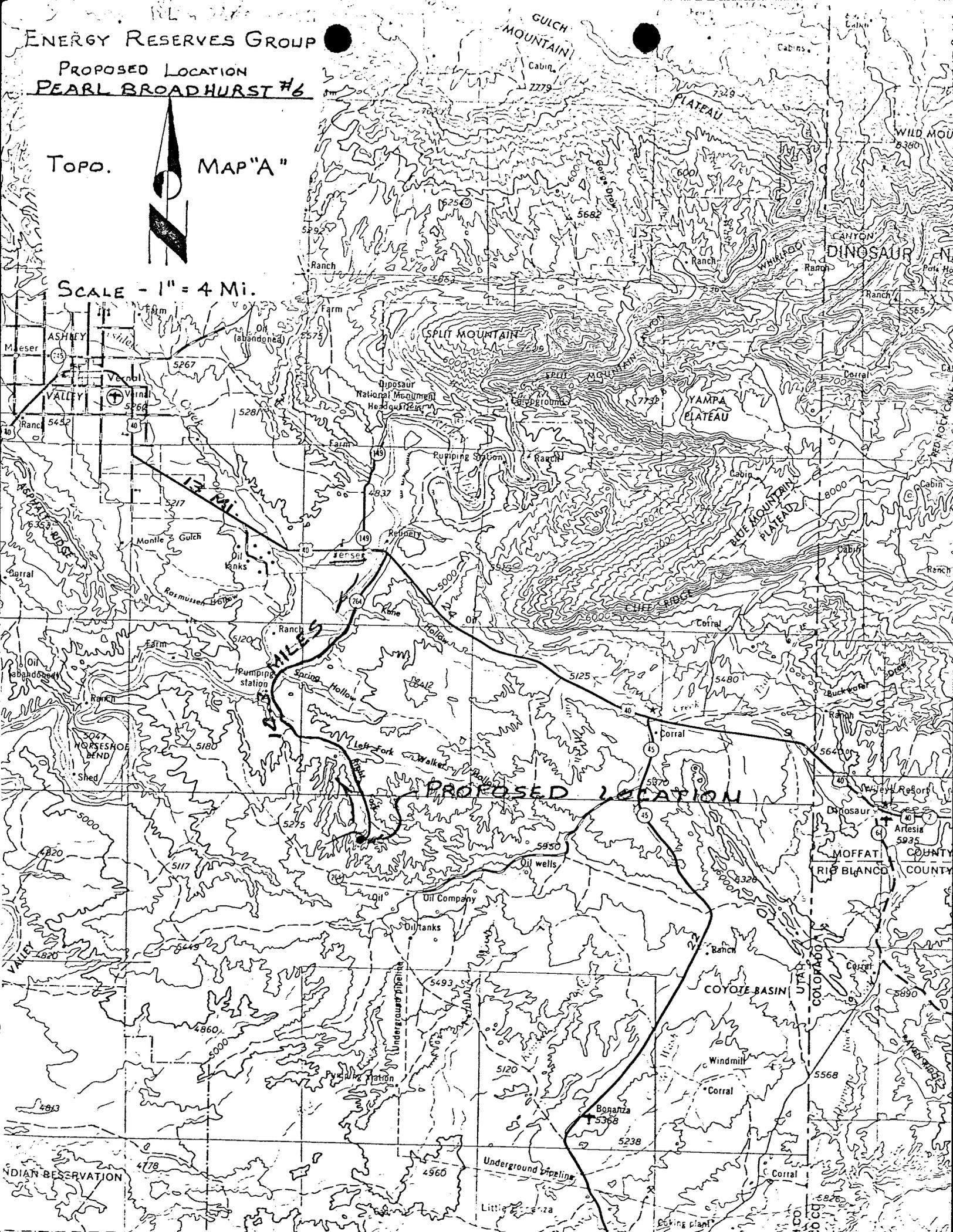
ENERGY RESERVES GROUP

PROPOSED LOCATION
PEARL BROADHURST #6

TOPO.

MAP "A"

SCALE - 1" = 4 Mi.



PROPOSED LOCATION

MOFFAT COUNTY
RIO BLANCO COUNTY

UTAH
COLORADO

INDIAN RESERVATION

Underground pipeline

Baking plant

ENERGY RESERVES GROUP

13 Point Surface Use Plan

For

Well Location

Pearl Broadhurst #6

Located In

Section 9, T7S, R23E, S.L.B. & M.

Uintah County, Utah

ENERGY RESERVES GROUP
Pearl Broadhurst #6
Section 9, T7S, R23E, S.L.B. & M.

1. EXISTING ROADS

See attached Topographic Map "A".

To reach well Energy Reserves Group well location Pearl Broadhurst #6, located in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 9, T7S, R23E, S.L.B. & M., Uintah County, Utah; proceed Easterly out of Vernal, Utah along U.S. Highway 40 - 13 miles to the junction of this highway and Utah State Highway 264; proceed South along Utah State Highway 264 - 8.6 miles more or less to the junction of this highway and an existing road to the Southeast; proceed Southeasterly along this road 5.6 miles to its junction with the proposed access road (to be discussed in Item #2).

The highways mentioned in the foregoing paragraph are bituminous surfaced roads to the point that the existing road exits to the Southeast. After this, the roads are constructed from native materials and gravels.

The aforementioned dirt roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing areas they are located in and range from clays to a sandy-clay shale material.

There will be no other construction on the above described roads. They will meet the necessary standards required to facilitate an orderly flow of traffic during the drilling phase, completion phase, and production phase of this well at such time that production is established.

The roads that are required for access during the drilling phase, completion phase, and production phase of this well will be maintained at the standards required by the B.L.M. or other controlling agencies.

2. PLANNED ACCESS ROAD

See Topographic Map "B".

The proposed access road leaves the existing road described in Item #1 in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 9, T7S, R23E, S.L.B. & M. and proceeds in a Southwesterly direction 700' \pm to the proposed location site.

The proposed access road will be an 18' crown road (9' either side of the centerline) with drain ditches along either side of the proposed road where it is determined necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area.

Back slopes along the cut areas of the road will be $1\frac{1}{2}$ to 1 slopes and terraced.

ENERGY RESERVES GROUP
Pearl Broadhurst #6
Section 9, T7S, R23E, S.L.B. & M.

2. PLANNED ACCESS ROAD - continued

There will be one 36" culvert required along this road. For its location refer to Topographic Map "B". It will be placed according to specifications found in the Oil and Gas Surface Operating Standards Manual For Culvert Placement.

If deemed necessary by the local governmental agencies or their representatives, turnouts will be installed for safety purposes every 0.25 miles or on the top of ridges that will provide the greatest sight distance.

These turnouts will be 200' in length and 10' in width and will be tapered from the shoulder of the road for a distance of 50' in length at both the access and the outlet end.

Any fences that are encountered along this access road will be cut and replaced with a cattleguard having a minimum width of 18' and a loading factor large enough to facilitate the heavy trucks required in the drilling and production of this well.

If cattleguards are to be located at existing gates, they will be installed with the above requirements and with a new gate installed at one end of the cattleguard.

The access from the road to the gate will be of such a nature that there will be no impedance of traffic flow along the main access road and no difficulties encountered by traffic utilizing the gate either leaving or entering the proposed access road.

Most lands involved in this action are under B.L.M. jurisdiction.

The terrain that is traversed by this road is relatively flat, running around the point of a hill to the proposed location site. It is sparsely vegetated with sagebrush and grasses.

3. LOCATION OF EXISTING WELLS

See Topographic Map "B".

The Walker Hollow Gas and Oil Field is within a one mile radius of the proposed location site, therefore there are many different kinds of wells within a one mile radius of this location site.

ENERGY RESERVES GROUP
Pearl Broadhurst #6
Section 9, T7S, R23E, S.L.B. & M.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

There are no Energy Reserves Group tank batteries, production facilities, oil gathering lines, gas gathering lines, injection lines, or disposal lines within a one mile radius of this location site.

A Welded Steel Tank will be placed on the location site to contain liquid hydrocarbons that are produced by this well.

The area will be built if possible, with native materials and if these materials are not available then the necessary arrangements will be made to get them from private sources.

These facilities will be constructed using bulldozers, graders, and workman crews to construct and place the proposed facilities.

If there is any deviation from the above, all appropriate agencies will be notified.

Rehabilitation of disturbed areas no longer needed for operations after construction is completed will meet the requirements of Item #10.

5. LOCATION AND TYPE OF WATER SUPPLY

See Topographic Map "B".

At the present time, it is anticipated that water for this well will be hauled by truck over existing roads and the proposed access road from the Green River approximately 14.2 miles to the North of the location site at a point where it crosses under U.S. Highway 40, East of Jensen, Utah.

In the event that this source is not used, an alternate source will be used and all necessary arrangements will be made with proper authorities.

There will be no water well drilled at this location site.

6. SOURCE OF CONSTRUCTION MATERIALS

Construction materials for this location site shall be borrow materials accumulated during construction of the location site. There are no pit lining materials from other sources anticipated at this time, however if they are required, the appropriate actions will be taken to acquire them from private sources.

ENERGY RESERVES GROUP
Pearl Broadhurst #6
Section 9, T7S, R23E, S.L.B. & M.

7. METHODS FOR HANDLING WASTE DISPOSAL

See Location Layout Sheet.

A reserve pit will be constructed.

The reserve pit will vary in size depending on the depth of the water table at the time of construction.

One half of the reserve pit will be used as a fresh water storage area during the drilling of this well and the other one half will be used to store non-flammable materials such as cuttings, salts, drilling fluids, chemicals, produced fluids, etc.

If deemed necessary by the agencies concerned, to prevent contamination to surrounding areas, the reserve pits will be lined with a gel.

The pits will have wire and overhead flagging installed at such time as deemed necessary to protect the water fowl, wildlife, and domestic animals.

As the onset of drilling, the reserve pit will be fenced on three sides and at the time the drilling activities are completed, it will be fenced on the fourth side and allowed to dry completely prior to the time that backfilling and reclamation activities are attempted.

When the reserve pit dries and the reclamation activities commence, the pits will be covered with a minimum of four feet of soil and all requirements of Item #10 will be followed.

A portable trash basket will be placed on the location site and all trash will be hauled to the nearest Sanitary Land Fill.

A portable chemical toilet will be supplied for human waste.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

See Location Layout Sheet.

The B.L.M. Representative shall be notified before any construction begins on the proposed location site.

ENERGY RESERVES GROUP
Pearl Broadhurst #6
Section 9, T7S, R23E, S.L.B. & M.

9. WELL SITE LAYOUT - continued

As mentioned in Item #7, the pits will be unlined unless it is determined by the representatives of the agencies involved that the materials are too porous and would cause contamination to the surrounding area; then the pits will be lined with a gel and any other type material necessary to make them safe and tight.

When drilling activities commence, all work shall proceed in a neat and orderly sequence.

10. PLANS FOR RESTORATION OF SURFACE

As there is some topsoil on the location site, all topsoil shall be stripped and stockpiled. (See Location Layout Sheet and Item #9). When all drilling and production activities have been completed, the location site will be reshaped to the original contour and stockpiled topsoil spread over the disturbed area.

Any drainages re-routed during the construction activities shall be restored to their original line of flow as near as possible. Fences around pits are to be removed upon completion of drilling activities and all waste being contained in the trash pit shall be buried with a minimum of 5' of cover.

Restoration activities shall begin within 90 days after completion of the well. Once restoration activities have begun, they shall be completed within 30 days.

When restoration activities have been completed, the location site shall be reseeded with a seed mixture recommended by the B.L.M. Representative when the moisture content of the soil is adequate for germination. The Lessee further covenants and agrees that all of said clean-up and restoration activities shall be done and performed in a diligent and most workmanlike manner, and in strict conformity with the above mentioned Items #7 and #10.

11. OTHER INFORMATION

The Topography of the General Area (See Topographic Map "A").

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 16 miles to the West of the location site.

ENERGY RESERVES GROUP
Pearl Broadhurst #6
Section 9, T7S, R23E, S.L.B. & M.

11. OTHER INFORMATION - continued

The basin floor is interlaced with numerous canyons and ridges formed by the non-perennial streams of the area. The sides of these canyons are steep and ledges formed in sandstones, conglomerates, and shale deposits are extremely common to the area.

The geologic structures of the area that are visible are of the Uinta formation (Eocene Epoch) Tertiary Period in the upper elevations and the cobblestone and younger alluvial deposits from the Quaternary Period.

Outcrops of sandstone ledges, conglomerate deposits, and shale are common in this area.

The topsoils in the area range from a light brownish-gray sandy-clay (SM-ML) type soil with poorly graded gravels to a clayey (OL) type soil.

The majority of the numerous washes and streams in the area are of a non-perennial nature flowing during the early spring run-off and extremely heavy rain storms of long duration which are extremely rare as the normal annual rainfall in the area is only 8".

Due to the low precipitation average, climate conditions, and the marginal types of soils, the vegetation that is found in the area is common of the semi-arid region we are located in; it consists of areas of sagebrush, rabbitbrush, some grasses, and cacti as the primary flora. This is also true of the lower elevations.

The fauna of the area consists predominantly of the mule deer, prong-horn antelope, coyotes, rabbits, and varieties so small ground squirrels and other types of rodents. The area is used by man for the primary purpose of grazing domestic sheep and cattle.

The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

The Topography of the Immediate Area (See Topographic Map "B").

Energy Reserves Group - Pearl Broadhurst #6 is located at the point of a hill above a non-perennial drainage.

The terrain in the vicinity of the location slopes from the Southwest through the location site to the Northeast at approximately a 3% grade.

ENERGY RESERVES GROUP
Pearl Broadhurst #6
Section 9, T7S, R23E, S.L.B. & M.

11. OTHER INFORMATION - continued

The vegetation in the immediate area surrounding the location site consists of grasses and sparse amounts of sagebrush.

There are no occupied dwellings or other facilities of this nature in the general area.

There are no visible archaeological, historical, or cultural sites within any reasonable proximity of the proposed location site. (See Topographic Map "B").

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

Bill Fiant
Energy Reserves Group
P.O. Box 3280
Casper, Wyoming 80602

Telephone: 1-307-265-7331

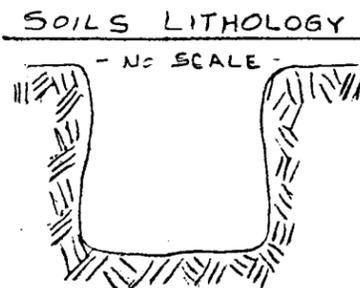
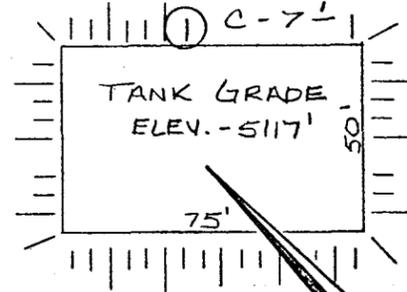
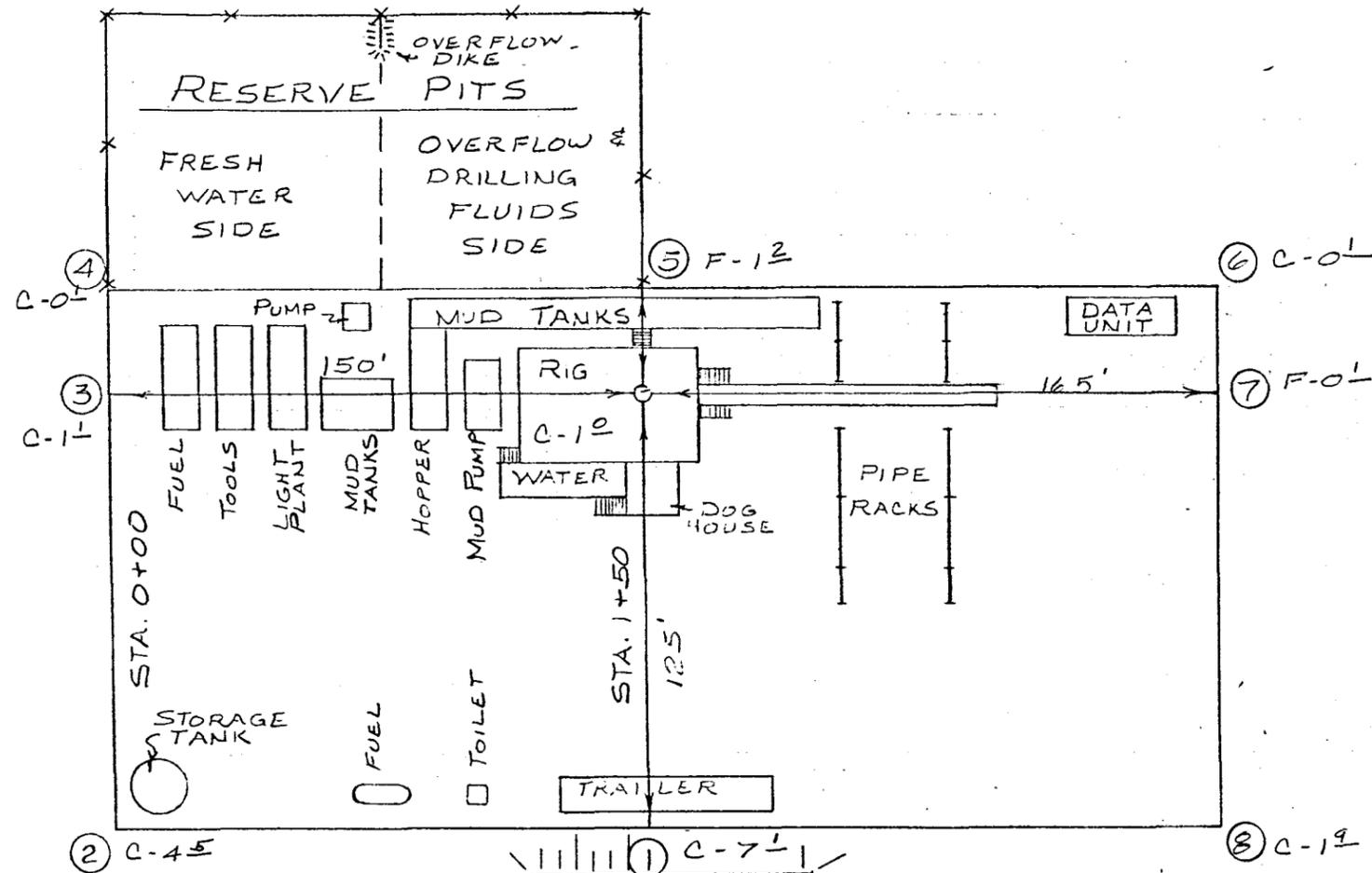
13. CERTIFICATION

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

3-19-90
Date

Bill Fiant
Bill Fiant

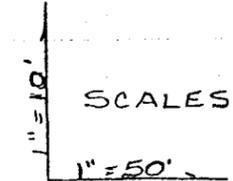
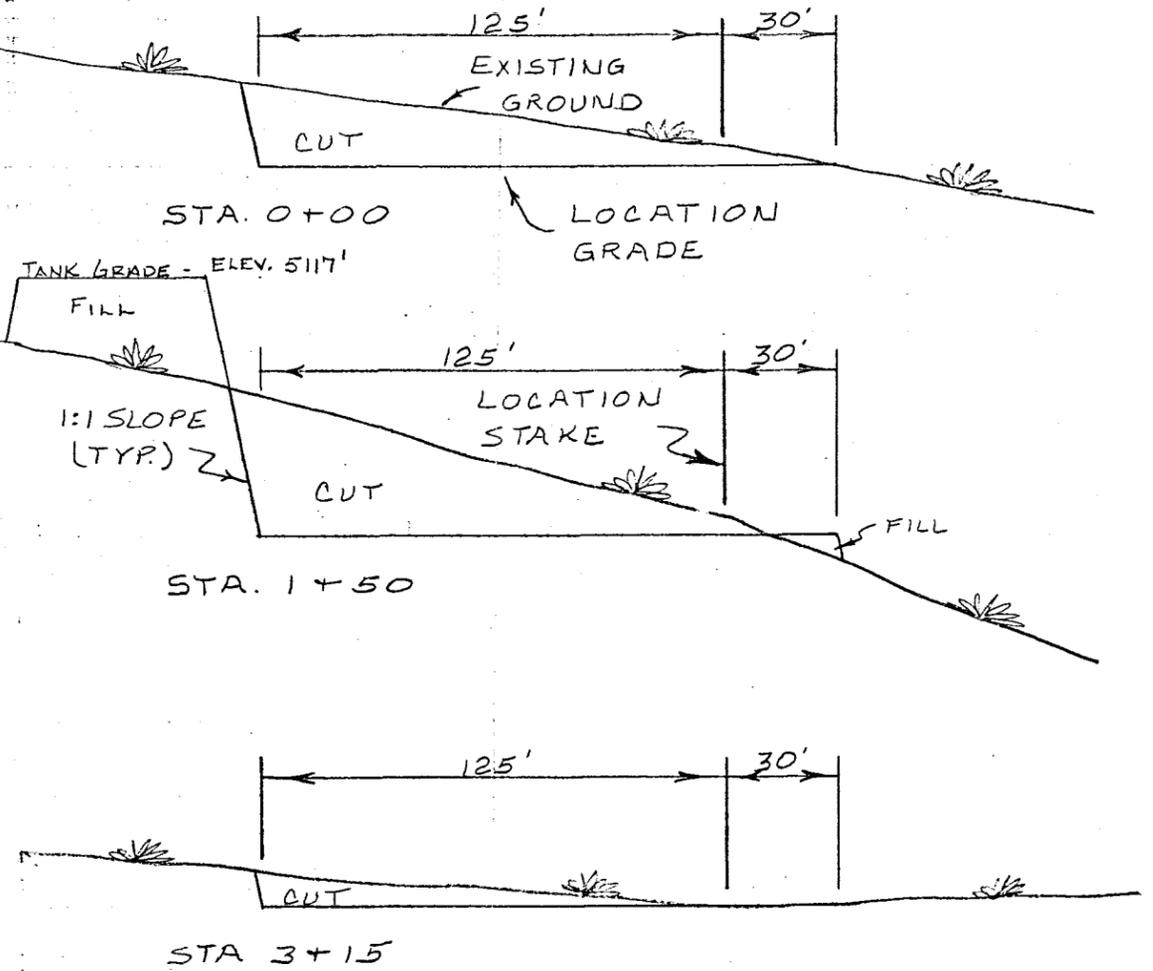
ENERGY RESERVES GROUP
 PEARL BROADHURST #6
 LOCATION LAYOUT & CUT SHEET



SCALE 1"=50'

WIND EAST

CROSS SECTIONS



APPROX YARDAGES

CUT	- 4,572 CU. YDS.
FILL	- 62 CU. YDS.

United States Department of the Interior
Geological Survey
2000 Administration Bldg.
1745 West 1700 South
Salt Lake City, Utah 84104

Usual Environmental Analysis

Date: April 23, 1980

Operator: Energy Reserves Group, Inc. Well Name and No.: Broadhurst 6

Location: 2404' FSL & 2062' FWL Sec.: 9 T.: 7S R.: 23E

County: Uintah State: Utah Field/Unit Walker Hollow

Lease No.: U-02651-A Permit No.: N/A

Joint Field Inspection Date: April 10, 1980

Prepared By: Greg Darlington

Field Inspection Participants, Titles and Organizations:

Greg Darlington	U.S.G.S. - Vernal, Utah
Cory Bodman	BLM - Vernal, Utah
Bill Fiant	Energy Reserves Group, Inc.
Ray Radke	Energy Reserves Group, Inc.
Durrell Karren	Energy Reserves Group, Inc.
Leonard Heeney	Ross Construction Company

Related Environmental Analyses and References:

(1) Unit Resource Analysis, Bonanza Planning Unit, BLM, Vernal, Utah.

lj 4/30/80

*Admin Counsel?
Pad 155 x 315
Pit 75 x 150
800' x 18' (325) new access. road
2 1/2 ac
5' dia Culvert Pg 2
→ Cond of App Oil Shale Pg 7*

The following elements of the proposed action would/could result in environmental impacts:

1. A drill pad 155' wide x 315' long and a reserve pit 75' x 150' would be constructed. Approximately 800 feet of new access road, averaging 18' driving surface, would be constructed from a maintained road. 2.1 acres of disturbed surface would be associated with the project.

Maximum disturbed width of access road would be limited to 32 feet. A tank battery of about 50' x 125' would be constructed near stake 1 on the southwest side of the pad.

A culvert 5 feet in diameter by 40 feet long would be installed to cross the drainage of the Right Fork of Walker Hollow.

2. Drilling would be to a proposed depth of 5650'.
3. Waste disposal.
4. Traffic.
5. Water requirements.
6. Completion.
7. Production.
8. Transportation of hydrocarbons.

Details of the proposed action are described in the Application for Permit to Drill.

Environmental Considerations of the Proposed Action:

Regional Setting/Topography The location is on a small relatively flat area surrounded by several hills and crossed by several small drainages. Several rock outcroppings and large rocks are visible.

PARAMETER

A. Geology: The surface formation is Uintah formation. Oil is anticipated at from 4400' - 5650' TD and gas is anticipated from 4670' - 4915' in the Green River formation.

Information Source: APD.

1. Other Local Mineral Resources to be Protected: Possible oil shale and coal resources may exist.

Information Source: Mineral Evaluation Report.

2 Hazards:

a. Land Stability The area has suitable stability for the proposed project.

Information Source. Field Observation.

b. Subsidence: Subsidence is not anticipated to be a significant problem.

Information Source: Field Observation.

c. Seismicity: The location is in an area where seismic risk is moderate.

Information Source: Geologic Atlas of the Rocky Mountain Region, 1972, Earthquakes of Record and Interpreted Seismicity, 1952-1969, Rocky Mountain Association of Geologists.

d. High Pressure Zones/Blowout Prevention: There are no anticipated high pressure zones. See the APD for a description of the Blowout Prevention equipment to be used.

Information Source: APD.

B. Soils:

1. Soil Character: The soils is a sandy clay. Outcrops of sandstone ledges, conglomerate deposits and shale are common in this area.

Information Source: APD and Field Observation.

2. Erosion/Sedimentation: The soils are very susceptible to erosion. Normal annual rainfall in this area is only about 8".

Information Source: Field Observation and APD.

C. Air Quality: Temporary impacts, especially dusty conditions are likely to result during construction and drilling activities. No H₂S is anticipated.

Information Source: Field Observation and APD.

D. Noise Levels: Temporary impacts from increased noise levels during construction and drilling activities will occur. These impacts will not generally continue after drilling has been completed.

Information Source: Field Observation.

E. Water Resources

1. Hydrologic Character

a. Surface Waters: Drainage is northwest to the Right Fork of Walker Hollow and then to the Green River about 7 miles northwest of the location. These drainage are non-perennial from the location is to the Green River.

Information Source: APD.

b. Ground Waters: Useable water may be encountered throughout the Green River formation.

Information Source: Mineral Evaluation Report.

2. Water Quality

a. Surface Waters: The reserve pit will be carefully constructed to avoid spills and seepage. The access road would include a culvert 5 feet diameter by 40 feet long to allow suitable crossing of the Right Fork of Walker Hollow.

Information Source: Field Observation.

b. Ground Waters: The operator proposes 500 feet of surface casing and the oil shale office requests that at least 300 feet of the upper Green River formation be cased off to protect oil shale resources. Refer to sources cited for further details.

Information Source. APD and Area Oil Shale Geologist's written comments.

F. Flora and Fauna

1. Endangered and Threatened Species Determination

Based on the BLM comments received from Vernal, BLM on April 23, 1980, we determine that there would be no effect on endangered and threatened species and their critical habitat.

2. Flora: Vegetation of the area is predominantly small sagebrush, ohter desert shrubs and native grasses.

Information Source: Field Observation.

3. Fauna: Mule deer, pronghorn antelope, coyotes, rabbits, ground squirrels, small rodents and various birds such as raptors, finches, sparrows, magpies, crows and jays are the fauna of the area.

Information Source: APD.

G. Land Uses:

1. General: Some cattle and sheep grazing and oil and gas development.

Information Source: Field Observation.

2. Affected Floodplains and/or Wetlands. None involved.

Information Source: Field Observation.

H. Aesthetics: Very little impact is likely to occur from the drilling of this development well.

Information Source: Field Observation.

I. Socioeconomics: A single well is likely to have only a minor impact on the socioeconomic structure of the area. If major discoveries occur, then cumulative impacts of further development are likely consequences.

Information Source: Field Observation.

J. Cultural Resources Determination: Based on the Vernal BLM comments received from Vernal BLM on April 23, 1980, we determine that there would be no effect on cultural resources subject to an archaeological clearance conducted by John Greer of Archaeological Services and reported to BLM.

Information Source: BLM stipulation letter.

K. Adequacy of Restoration Plans: Adequate to meet the requirements of NTL-6. The BLM will be contacted prior to restoration activities.

Information Source: APD and the NTL-6 document.

Alternatives to the Proposed Action:

1. Disapproving the proposed action or no action - If the proposed action is denied, no action would occur, the existing environment would remain in its present state, the lessee/operator would not realize any return on investments and the public would be denied a potential energy source.

2. Approving the project with the recommended stipulations - Under federal oil and gas leasing provisions, the Geological Survey has a responsibility to approve mineral development if the environmental consequences are not too severe or irreversible. Permanent damage to the surface and subsurface would be prevented as much as possible under USGS and Surface Management Agency supervision. Environmental impacts would be significantly mitigated.

Adverse Environmental Effects:

1. If approved as proposed:

a. About 2.1 acres of vegetation would be removed, increasing and accelerating erosion potential.

b. Pollution of groundwater systems could occur with the introduction of drilling fluids into the aquifer(s). The potential for interaquifer leakage and lost circulation is ever-present, depending on the casing program.

c. Minor air pollution would be induced on a temporary basis due to exhaust emissions from rig engines and support traffic.

d. The potential for fires, leaks, spills of gas and oil or water exists.

e. During construction and drilling phases of the operation, noise and dust levels would increase.

f. Distractions from aesthetics during the lifetime of the project would exist.

g. Erosion from the site would eventually be carried as sediment in the Green River. The potential for pollution to Green River would exist through leaks and spills.

h. If hydrocarbons would be discovered and produced, further development of the area could be expected to occur, which would result in the extraction of irreplaceable resource, and further negative environmental impacts. These impacts include the cumulative loss of wildlife habitat due to the areas necessary for roads, pipelines, drillsites, and transmission lines. These actions may disrupt wildlife social behavior and force habitat relocation over an extended period of time. In addition, the cumulative effects of non-point erosion become substantial in a developing field, primarily those located near perennial streams where siltation and sedimentation are critical to aquatic life cycles.

2. Conditional Approval:

a. All adverse impacts described in section one above could occur.

Recommended Approval Conditions:

Drilling should be allowed, provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator:

1. See attached Lease Stipulations. *None*
2. See attached BLM Stipulations.
3. The operator is requested to furnish resistivity, density, Gamma-ray, or other appropriate electric logs covering all formations containing potentially valuable minerals subject to the Mineral Leasing Act of 1920 to the Area Mining Supervisor. (see Mining Report).
4. As requested by the Area Oil Shale Geologist at least 300 feet of cement casing would be installed beginning at the top of the Green River formation. (at about 2850' to 3150'+).
5. A 5 foot diameter culvert would be suitably installed where the access road crossed the Right Fork of Walker Hollow. (See APD Map "B").

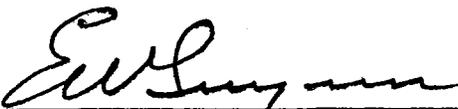
Controversial Issues and Conservation Division Response:

None involved at the present time.

We have considered the proposed action in the preceding pages of this EA and find, based on the analysis of environmental considerations provided therein, no evidence to indicate that it will significantly (40 CFR 1508.27) impact the quality of the human environment.

Determination:

I determine that the proposed action (as modified by the recommended approval conditions) does not constitute a major Federal action significantly affecting the quality of the human environment in the sense of NEPA, Section 102 (2)(C).



DISTRICT ENGINEER

Signature & Title of Approving Official

MAY 01 1980

Date

** FILE NOTATIONS **

DATE: March 24, 1980

Operator: Energy Reserves Group, Inc.

Well No: Broadhurst #6

Location: Sec. 9 T. 75 R. 23E County: Wintak

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number 43-047-30705

CHECKED BY:

Geological Engineer: Will request tape excerpt per phone conversation Bill Gant 5-5-80

Petroleum Engineer: M.J. Winder 5-16-80

Director: _____

APPROVAL LETTER:

C-3: too close to str-ate line & on Unit boundary line
exempt location requested 5/7/80

Bond Required:

Survey Plat Required:

Order No. _____

O.K. Rule C-3

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

#2

Lease Designation Prod Unit

Plotted on Map

Approval Letter Written

ltm

AC
PI
Green River well
not for 2158 File



United States Department of the Interior

IN REPLY REFER TO

T & R
U-802

BUREAU OF LAND MANAGEMENT

Vernal District Office
170 South 500 East
Vernal, Utah 84078

April 15, 1980

Ed Guynn, District Engineer
USGS, Conservation Division
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

Re: Energy Reserve Group Inc.
Well #6 Sec 9, T7S, R23E,
Well #7 Sec 9, T7S, R23E,
Well #8 Sec 10, T7S, R23E,
Uintah County, Utah.

Dear Mr. Guynn:

A joint examination was made on April 10, 1980 of the above referenced well site locations and proposed access road. We feel that the surface use and operating plans are adequate with the following comments:

1. Construction and maintenance of roads, rehabilitation of disturbed areas, and construction of pipeline routes, shall be in accordance with surface use standards as set forth in the booklet, "Surface Operating Standards for Oil and Gas Exploration and Development."
2. The maximum width of the access roads both existing and planned will be 32 feet total disturbed area, except where backslope and fills require additional area. Turnouts will not be required and traveling off the right-of-way will not be allowed. The 18 foot road will be crowned.
3. The BLM will be contacted at least 24 hours prior to any rehabilitation so that the operation may be appraised of seeding and restoration requirements.
4. A burning pit will not be constructed. There will be no burying of garbage and trash at the well sites. Trash and garbage must be contained and hauled to an approved disposal site.
5. It was agreed to by all parties present that the applied for pad sizes are of adequate size to handle all drilling and fracking



operations.

6. The BLM will be contacted at least 24 hours prior to the start of any surface disturbance.

Site Specific:

Well #8 Sec. 10, T7S, R23E.

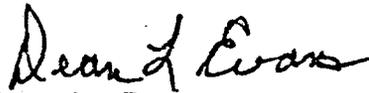
6 to 8 inches of top soil will be stockpiled at the south end of the pad.

An archaeological clearance has been conducted by John Greer of Archaeological Services of the proposed drill sites, and proposed access roads. No cultural materials were located on the surface of the surveyed areas.

The proposed activities do not jeopardize listed, threatened or endangered flora/fauna and their habitats.

If you have any questions, please contact Cory Bodman, 789-1362.

Sincerely,



Dean L. Evans
Area Manager
Bookcliffs Resource Area

cc: USGS, Vernal

FROM: DISTRICT GEOLOGIST, ME, SALT LAKE CITY, UTAH

Greg

TO: DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-02651-A

OPERATOR: Energy Reserves Group Inc.

WELL NO. 6

LOCATION: NE 1/4 NE 1/4 SW 1/4 sec. 9, T. 7 S., R. 23 E., S.L.M.

Uintah County, Utah

Stratigraphy: Operator tops appear reasonable

Uintah Surface
Green River 2850'

Fresh Water:

Useable water may be encountered throughout the Green River Fm.

Leasable Minerals:

~~Prospectively valuable land for coal~~

Prospectively valuable land for oil shale

(Mahogany zone should be encountered at a depth of 4 to 4500 ft.)

Additional Logs Needed: Adequate

Potential Geologic Hazards: None anticipated

References and Remarks:



Signature: Gregory W. Wood

Date: 3 - 31 - 80

Memorandum

To: District Oil and Gas Engineer, Mr. Edward Guynn

From: Mining, Supervisor, Mr. Jackson W. Moffitt

Subject: Application for Permit to Drill (form 9-331c) Federal oil and gas lease No. U-02651-A WOUNG B

1. The location appears potentially valuable for:

strip mining*

underground mining** *oil shale*

has no known potential.

2. The proposed area is

under a Federal lease for _____ under the jurisdiction of this office.

not under a Federal lease under the jurisdiction of this office.

Please request the operator to furnish resistivity, density, Gamma-Ray, or other appropriate electric logs covering all formations containing potentially valuable minerals subject to the Mineral Leasing Act of 1920.

*If location has strip mining potential:

Surface casing should be set to at least 50 feet below the lowest strip minable zone at _____ and cemented to surface. Upon abandonment, a 300-foot cement plug should be set immediately below the base of the minable zone.

**If location has underground mining potential:

The minable zones should be isolated with cement from a point 100 feet below the formation to 100 feet above the formation. Water-bearing horizons should be cemented in like manner. Except for salines or water-bearing horizons with potential for mixing aquifers, a depth of 4,000 feet has been deemed the lowest limit for cementing.

Signed *Allen J. Vance*





United States Department of the Interior

Greg

GEOLOGICAL SURVEY
Conservation Division
8440 Federal Building
Salt Lake City, Utah 84138

3/27/80

*Energy Reserves
or unimp. Res.*

#6 9-75-23E

*Uintah County
CA #330-8*

RECEIVED

APR 15 1980
OFFICE OF
OIL SHALE SUPERVISOR
U.S. G.S.

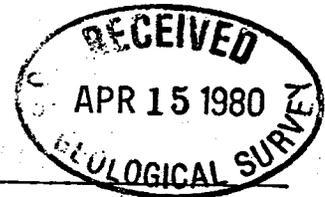
Mr. Peter Rutledge
Area Oil Shale Supervisor
Area Oil Shale Office
131 North Sixth, Suite 300
Grand Junction, Colorado 81501

Dear Mr. Rutledge,

The Office of Oil and Gas Operations, Conservation Division, received the attached Application for Permit to Drill, Deepen, or Plug Back (Form 9-331C).

Please review this proposal for any conflict with any of the resources in the oil shale tracts and withdrawal areas. If needed, set forth the stipulations you determine necessary for adequate protection. Please use the following space for your response (if there is none, so state), together with date and initials of person responsible and return to the Office of Oil and Gas Operations.

U.S. Geological Survey
8440 Federal Building
125 South State Street
Salt Lake City, Utah 84138



Energy Reserves #6

April 4, 1980

The proposed casing and cementing program is not adequate for protection of the top of the Green River Formation (about 2850' depth). An upper cement plug of at least 300', or increased cement volume, will be required for protection of the top of the Green River Formation.

*(at the top
of the Green
River Formation,
estimated
2850' - 3150+)*

Ray A. Brady
Ray A. Brady
Geologist

Oil & Gas

Supplemental to Form 9-331C

1. The geologic name of the surface formation.

Uintah

2. The estimated tops of important geologic markers.

Green River	2850'
Green River "G"	4400'
Green River "H"	4670'
Green River "I"	4915'
Green River "J"	5190'
Green River "K"	5370'
T.D.	5650'

3. The estimated depths at which anticipated water, oil, gas, or other mineral-bearing formations are expected to be encountered.

Green River "G"	possible oil
Green River "H"	gas & oil
Green River "I"	possible oil
Green River "J"	oil
Green River "K"	oil

4. The proposed casing program, including the size, grade, and weight-per-foot of each string and whether new or used.

8-5/8"	K-55	24#	New	ST&C
5 1/2"	K-55	14#	New	ST&C
4 1/2"	K-55	9.5#	New	ST&C

5. The lessee's or operator's minimum specifications for pressure control equipment which is to be used, a schematic diagram thereof showing sizes, pressure ratings (or API series), and the testing procedures and testing frequency.

A 10" series 900 dual ram preventor w/series 900 annular preventor will be used. The BOE will be tested to its full rated capacity, after installation and will be operated on each trip.

6. The type and characteristics of the proposed circulating medium or mediums to be employed for rotary drilling and the quantities and types of mud and weighting material to be maintained.

A fresh water base gel mud will be used for the entire drilling operation. Sufficient quantities of mud and lost circulation material will be on location to handle minor lost circulation problems. Additional material is available locally.

7. The auxiliary equipment to be used, such as (1) kelly cocks, (2) floats at the bit, (3) monitoring equipment on the mud system, (4) a sub on the floor with a full opening valve to be stabbed into drill pipe when the kelly is not in the string.

- A. Kelly cocks
- B. Floats Will Be Available
- C. Monitoring of Mud system will be with P.V.T and flow sensor as well as visually .
- D. Full opening floor valve with drill pipe thread will be on rig floor.

8. The testing, logging, fracing, and coring programs to be followed with provision made for required flexibility.

Logging will consist of DIL, SGR, CN-D. No DST's are planned. No cores are planned. Fracing will consist of 60,000 gallons of gelled water with 100,000# sand. All applicable state and federal regulations concerning equipment placement will be adhered to.

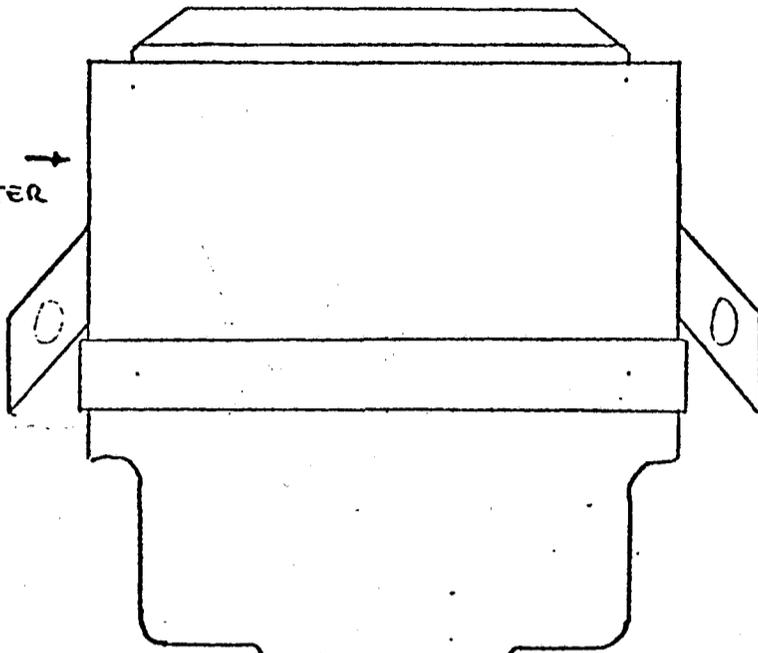
9. Any anticipated abnormal pressures or temperatures expected to be encountered or potential hazards such as hydrogen sulfide gas, along with plans for mitigating such hazards.

No abnormal pressures or temperatures are expected.
No H₂S is expected in the zones to be encountered.

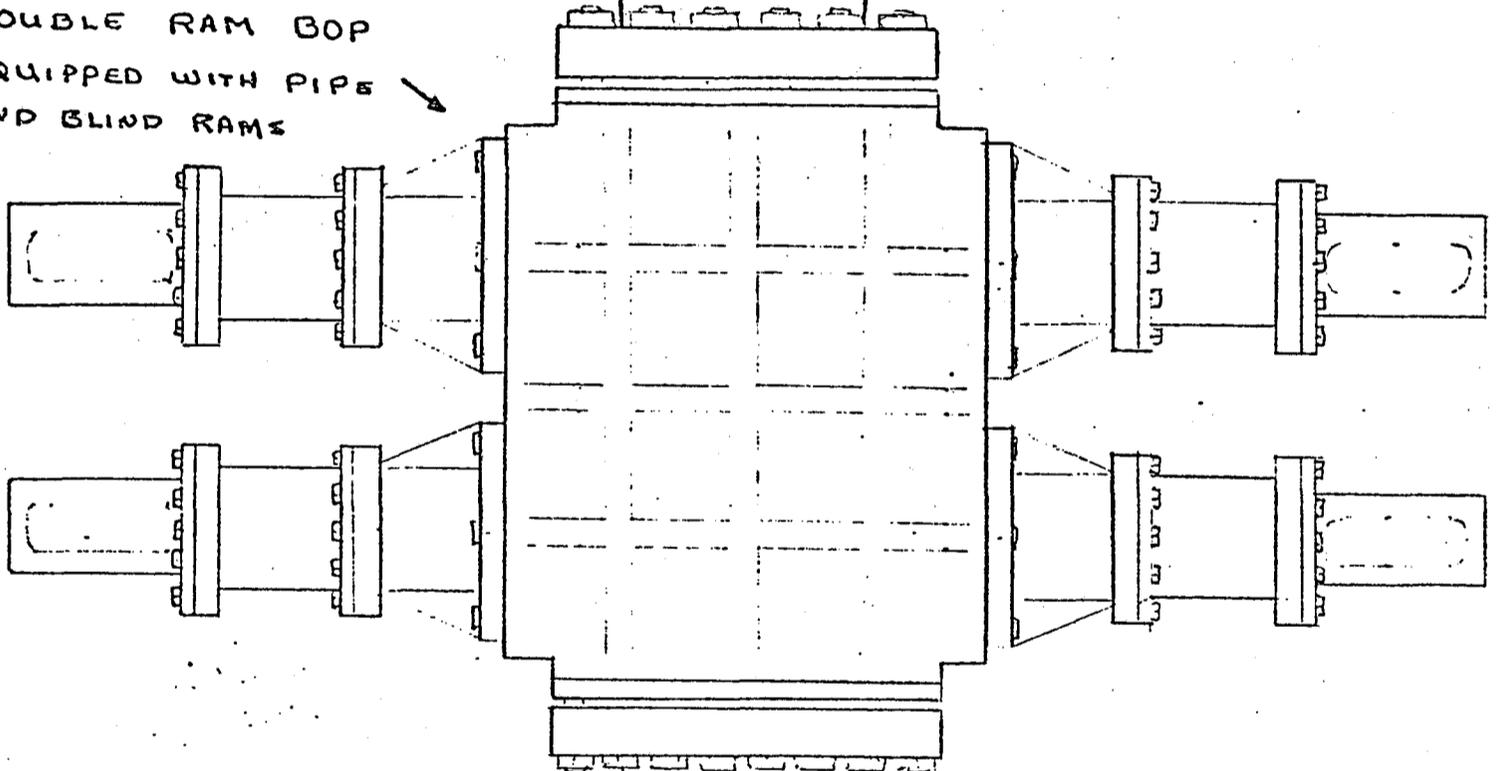
10. The anticipated starting date and duration of the operations.

It is proposed to commence operations in the spring of 1980. It will probably take 15-30 days to drill this well, depending on problems encountered.

10" SERIES 900
BAG TYPE PREVENTER



10" SERIES 900
DOUBLE RAM BOP
EQUIPPED WITH PIPE
AND BLIND RAMS

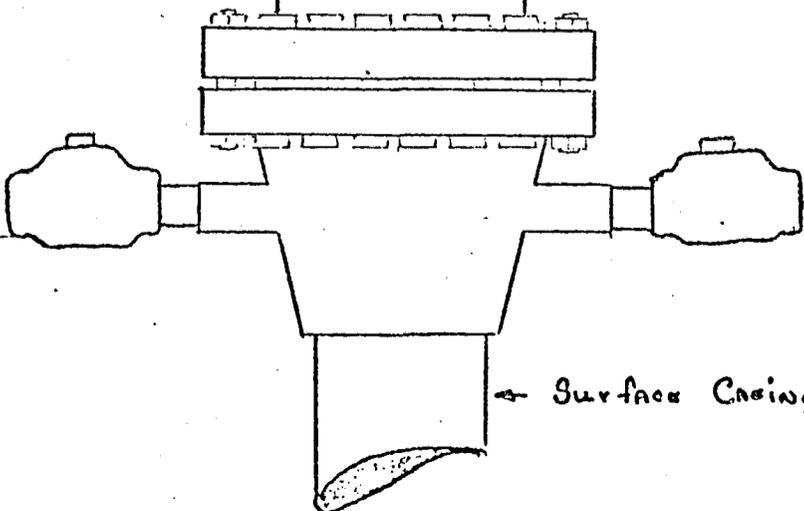


KILL LINE



BLEED OFF
LINE

Surface Casing



Energy Reserves Group, Inc.
P.O. Box 3280
Casper, Wyoming 82601
Phone 307 265 7331



May 5, 1980

State of Utah
Division of Oil, Gas & Mining
1588 West, North Temple
Salt Lake City, UT 84116

ATTN: Michael T. Minder

RE: Exception Location - Pearl Broadhurst Well No. 6, 2404' FSL & 2062'
FWL, Section 9, T7S-R23E, Uintah County, Utah

Dear Mr. Minder:

This letter is in response to our telephone conversation on May 5th, 1980, concerning the above referenced well location. This proposed well is scheduled to be completed as an oil well in the Green River Formation. Energy Reserves Group currently produces oil from the Green River Formation in three wells in the Walker Hollow Field.

The area in which this field is located is extremely rugged due to high erosion potential. There is very little top soil or vegetation to allow for normal run off conditions. The oil produced from these wells has such a high pour point that tank and heating facilities must be located directly on the well site. This also means that well site placement is critical to allow for oil hauling. The referenced well site was moved from the legal location for a number of reasons.

- (1) Minimize environmental disturbance
- (2) Allow for transportation of oil
- (3) Minimize overall expense

Energy Reserves Group, Inc. Lease U-02651-A (Federal) consists of 880 acres.

Sec. 9: E2, E2 W2, SW SW

Sec. 10: W2, NW NE

RECEIVED
MAY 7 1980

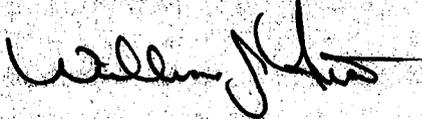
DIVISION OF
OIL, GAS & MINING

Michael T. Minder
State of Utah
May 5, 1980
Page 2

100% - all depths

If any additional information is required, please call anytime.

Very truly yours,
ENERGY RESERVES GROUP, INC.



William J. Fiant
Field Services Administrator

WJF/jas

cc: Roscoe G.
Ed J.
File

ENERGY RESERVES GROUP
PROPOSED LOCATION
PEARL BROADHURST #6

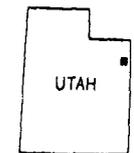
TOPO. MAP "B"



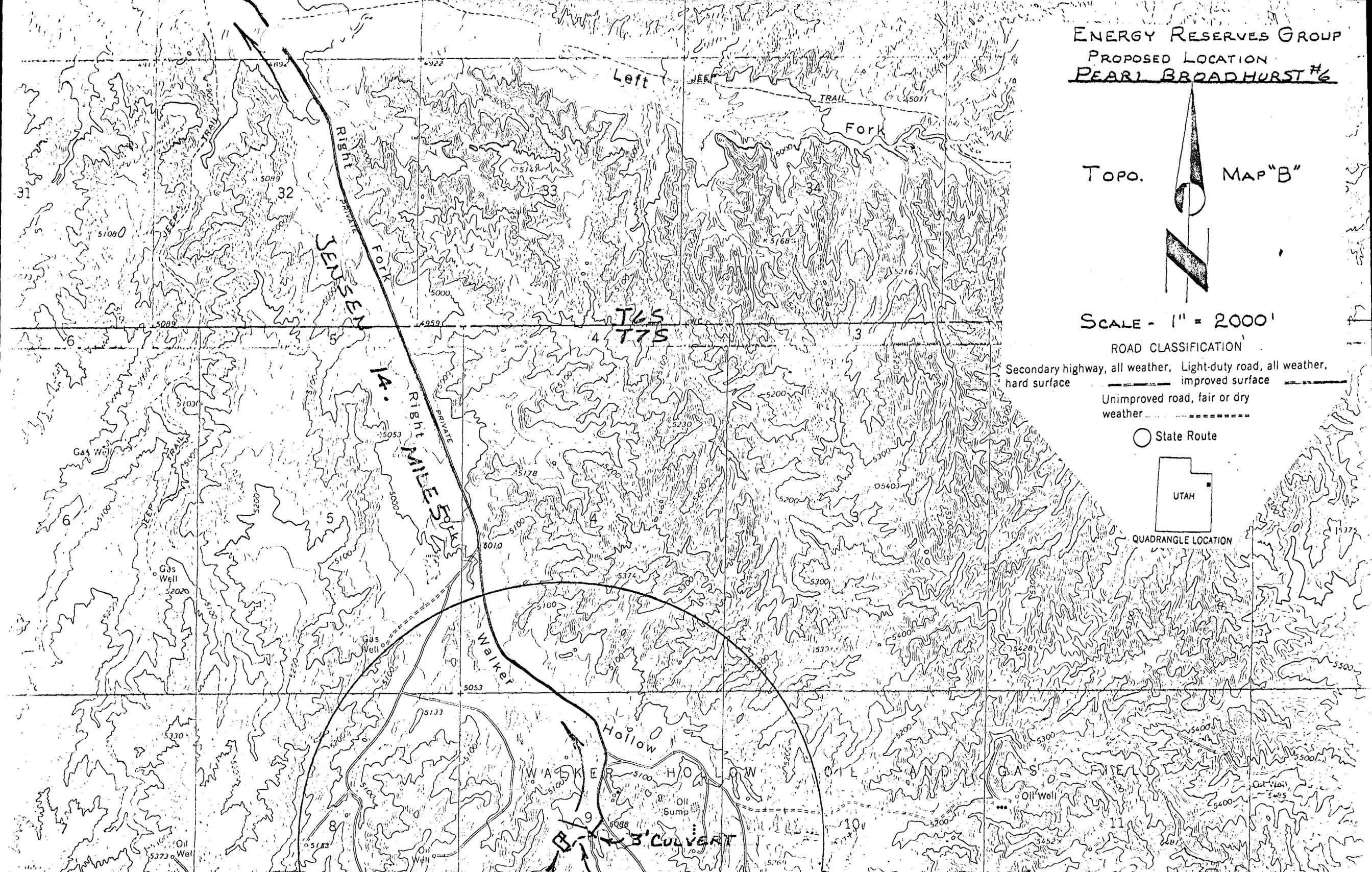
SCALE - 1" = 2000'

ROAD CLASSIFICATION
Secondary highway, all weather, hard surface ————
Light-duty road, all weather, improved surface ————
Unimproved road, fair or dry weather ————

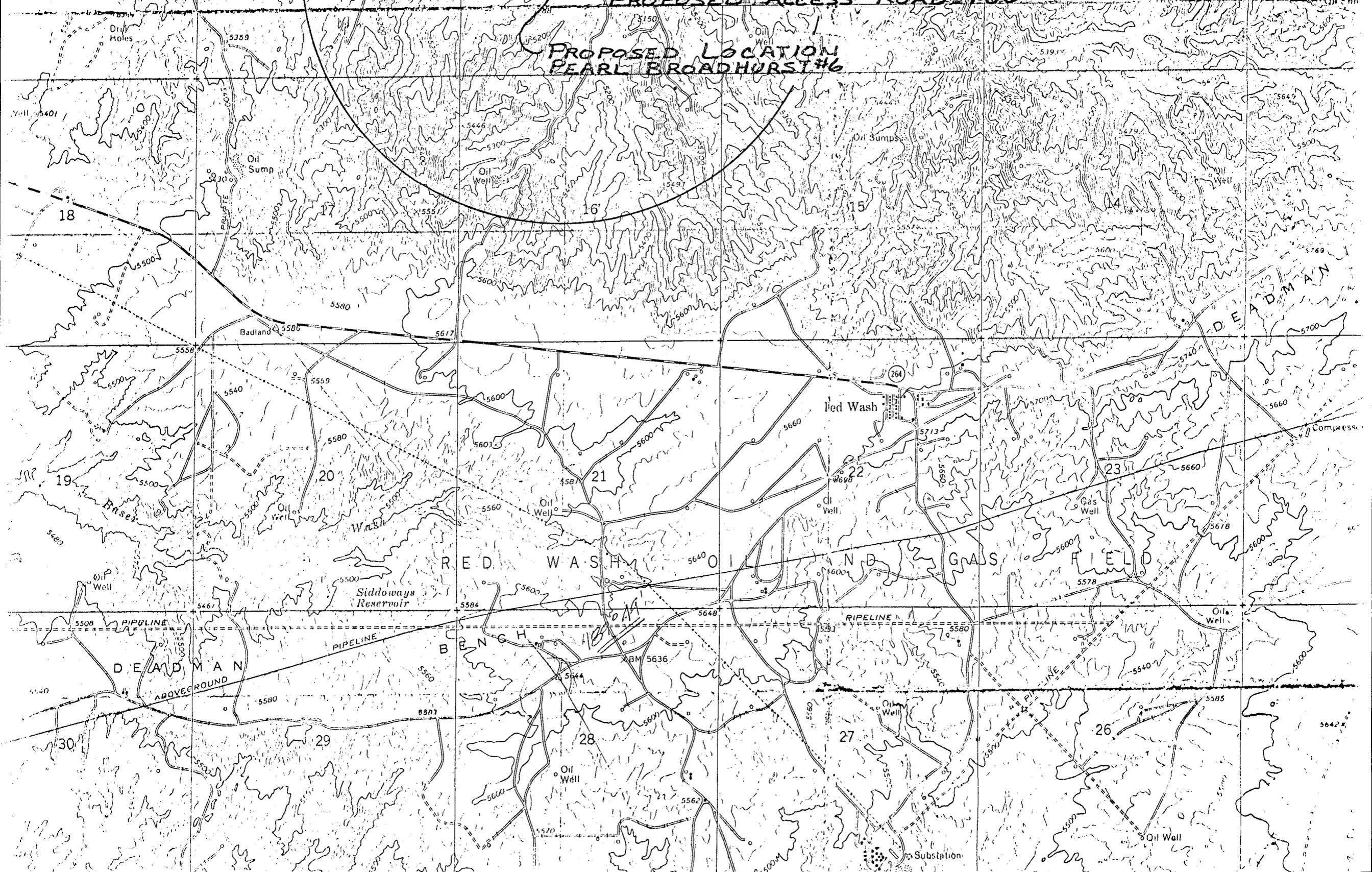
○ State Route



QUADRANGLE LOCATION



PROPOSED LOCATION
PEARL BROADHURST #6



E. ERGY RESERVES GROUP
PROPOSED LOCATION
PEARL BROADHURST #6

TOPO. MAP "B"

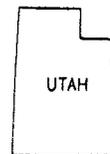


SCALE - 1" = 2000'

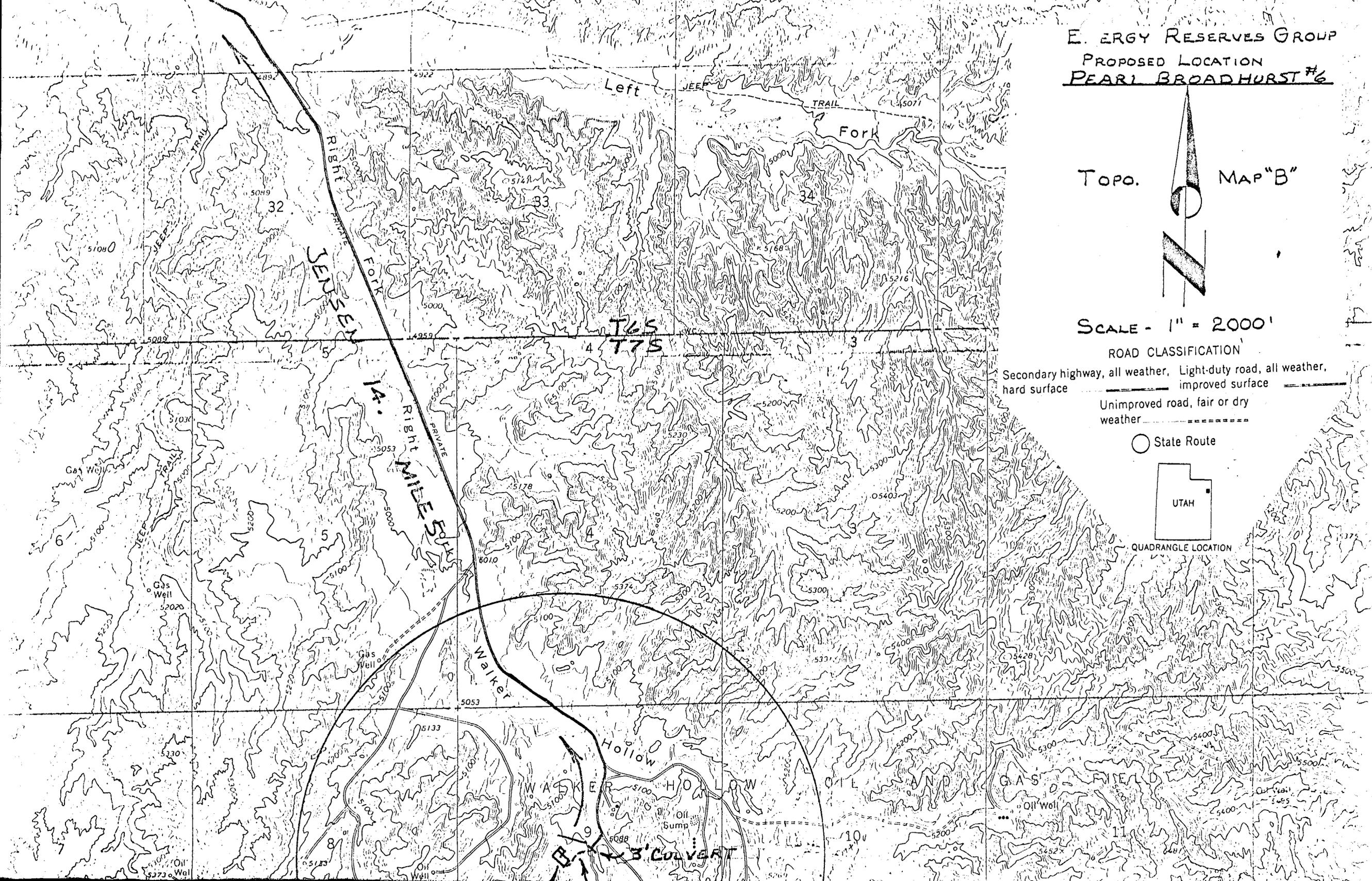
ROAD CLASSIFICATION

Secondary highway, all weather, hard surface  Light-duty road, all weather, improved surface 
Unimproved road, fair or dry weather 

 State Route

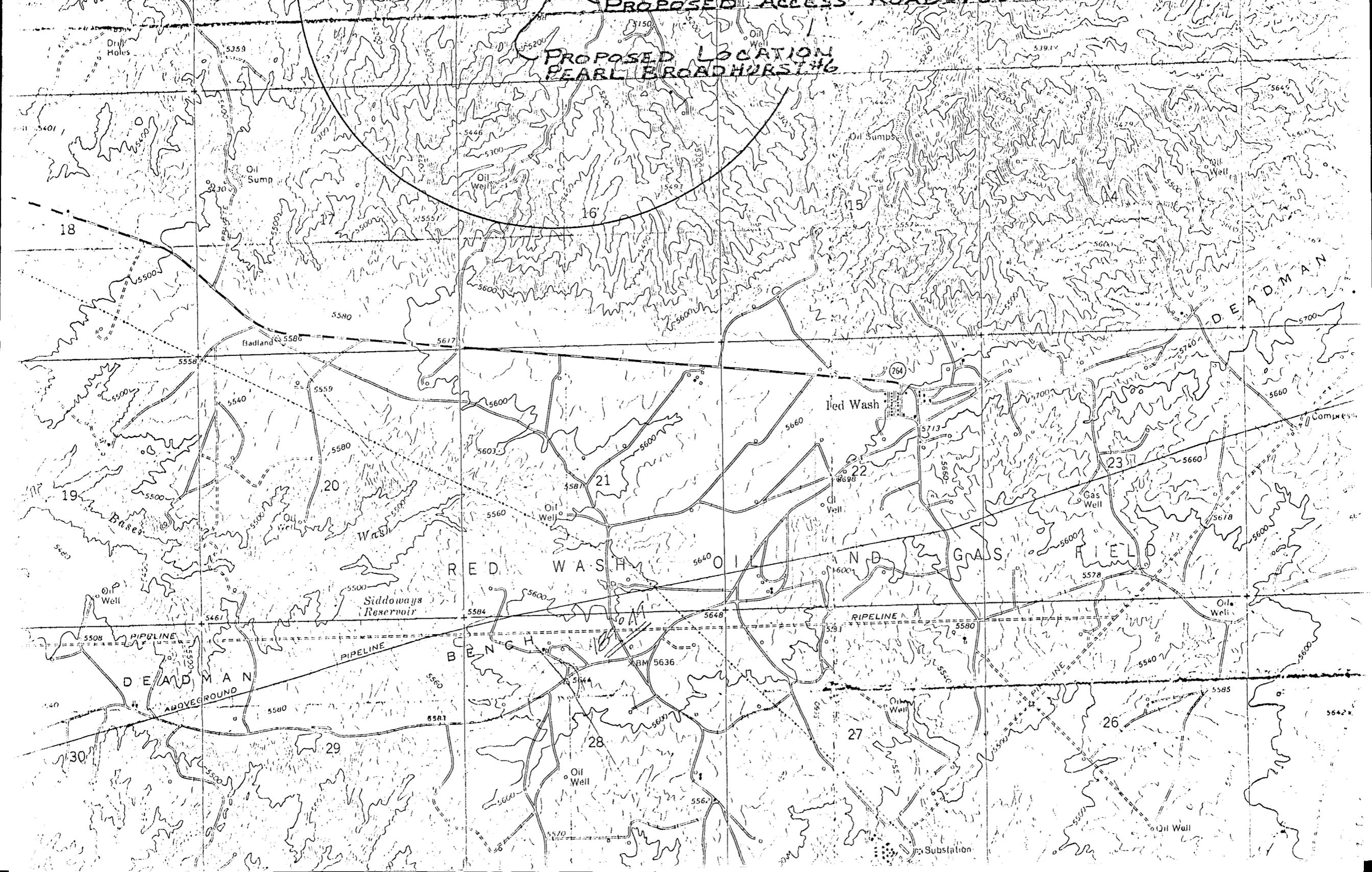


QUADRANGLE LOCATION



PROPOSED ACCESS ROAD

PROPOSED LOCATION
PEARL BROADHURST #6



18

16

15

14

19

20

21

22

23

30

29

28

27

26

DEADMAN

RED WASH OIL AND GAS FIELD

DEADMAN

PIPELINE ABOVEGROUND

PIPELINE

BENCH

PIPELINE

PIPELINE

Substation

Badland

Red Wash

Siddoways Reservoir

Basin

Oil Sump

Oil Well

Oil Sumps

Oil Well

Oil Well

Oil Well

Gas Well

Oil Well

Oil Well

Oil Well

Oil Well

Oil Well

Drill Holes

5359

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51914

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DUPLICATE

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
 ENERGY RESERVES GROUP, INC.

3. ADDRESS OF OPERATOR
 BOX 3280 CASPER, WYOMING 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
 At proposed prod. zone 2404' FSL 2062' FWL (NE/SW)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approx. 18 Miles southeast of Jensen, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 236'

16. NO. OF ACRES IN LEASE 1280

17. NO. OF ACRES ASSIGNED TO THIS WELL 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1300'

19. PROPOSED DEPTH 5650'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 5103' GR. (Ungraded)

22. APPROX. DATE WORK WILL START*
 As soon as approved

5. LEASE DESIGNATION AND SERIAL NO.
 U-02651-A

6. INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 BROADHURST

9. WELL NO.
 6

10. FIELD AND POOL, OR WILDCAT
 Walker Hollow

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec 9, T7S-R23E

12. COUNTY OR PARISH 13. STATE
 Uintah Utah

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#	500'	CMT to surface
7-7/8"	5 1/2" or 4 1/2"	14# or 9.5#	5650'	390sx or 300 sx. BRING YOUR CEMENT UP TO COVER THE GREEN RIVER TO SAFEGUARD USABLE WATER

Energy Reserves Group, Inc. proposes to drill the referenced well as shown on the attached plan of operations.

State of Utah, Department of Natural Resources
 Division of Oil, Gas, and Mining
 1588 West North Temple
 Salt Lake City, Utah 84116

RECEIVED

MAY 12 1980

DIVISION OF OIL, GAS & MINING

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

24. SIGNED William J. [Signature] TITLE Field Services Administrator DATE 3-17-80

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY (Orig. Sgd.) R. A. Henricks TITLE FOR E. W. GUYNN DISTRICT ENGINEER DATE MAY 8 1980

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED
 *See Instructions On Reverse Side
 TO OPERATOR'S COPY

NOTICE OF APPROVAL

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

Utah O & G

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well gas well other

2. NAME OF OPERATOR
Energy Reserves Group, Inc.

3. ADDRESS OF OPERATOR
Box 3280, Casper, Wyoming 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2404' FSL & 2062' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

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

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.)*

Approval is requested to change plans on Item 5 of the surface use plan
Location & Type of Water Supply.

There is presently an existing water supply line from a Chevron/Exxon/ERG well which supplies water to infield injection facilities. It is planned to tie into an existing header near the Broadhurst Well No. 2 and lay a surface line (2-7/8" tubing) along the borrow ditch parallel with the existing road to the above well site. No new surface disturbance will be involved.

Subsurface Safety Valve: Manu. and Type _____ Ft.

18. I hereby certify that the foregoing is true and correct
SIGNED [Signature] TITLE Field Services Adm DATE 80

(This space for Federal or State office use)

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

5. LEASE
U-02651-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Broadhurst

9. WELL NO.
6

10. FIELD OR WILDCAT NAME
Walker Hollow

11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA
Sec. T7S R23E

12. COUNTY OR PARISH Uintah 13. STATE Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5103' (Gr)

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

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: Energy Reserves Group, Inc.

WELL NAME: Broadhurst #6

SECTION 9 NE SW TOWNSHIP 7S RANGE 23E COUNTY Uintah

DRILLING CONTRACTOR All Western Drilling

RIG # _____

SPUDED: DATE 5/16/80

TIME 12 noon

HOW rotary

DRILLING WILL COMMENCE ASAP

REPORTED BY Roscoe Gillespie

TELEPHONE # 307-265-7331

DATE May 20, 1980

SIGNED _____

Original Signed By M. T. Minder

cc: USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well gas well other

2. NAME OF OPERATOR
Energy Reserves Group, Inc.

3. ADDRESS OF OPERATOR
P. O. Box 3280, Casper, Wyoming 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2404' FSL & 2062' FWL (NE-SW)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

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

5. LEASE U-02651-1A	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME Broadhurst	
9. WELL NO. 6	
10. FIELD OR WILDCAT NAME Walker Hollow	
11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA Sec 9 T7S R23E	
12. COUNTY OR PARISH Uintah	13. STATE Utah
14. API NO.	
15. ELEVATIONS (SHOW DF, KDB AND WD) G.L.-5103 KB-5116	

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

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

The above referenced well was spudded at 12:00 Noon 5-16-80. Drilled 113' hole to 434' G.L. Ran 11 jts. 8-5/8" O.D., 24#, K55, R3, 8Rth, ST&C new casing set @ 432' G.L. Cemented w/435 sx. Class B Cement w/3% Sal 2% CaCl₂, & 1/4# Flocele/sk. Plug down @ 1:15 A.M. 5-20-80. Good cement returns to surface.
5-21-80 W.O.C. & W.O.R.T.

Subsurface Safety Valve: Manu. and Type _____ Ft.

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

SIGNED T. A. Stearns TITLE Drlg. Foreman DATE 5/21/80

(This space for Federal or State office use)

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

May 22, 1980

Energy Reserves Group, Inc.
P.O. Box 5280
Casper, Wyoming 82602

Re: Well No. Broadhurst #6
Sec. 9, T. 7S, R. 23E.,
Uintah County, Utah

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

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

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

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

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

The API number assigned to this well is 43-047-30705.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michall T. Minder
Petroleum Engineer

/btm

cc: USGS

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well gas well other

2. NAME OF OPERATOR
Energy Reserves Group, Inc.

3. ADDRESS OF OPERATOR
P.O. Box 3280 - Casper, Wyoming 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2,404' FSL & 2,062' FWL (NE/SW)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

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

5. LEASE U-02651-A	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME Broadhurst	
9. WELL NO. 6	
10. FIELD OR WILDCAT NAME Walker Hollow	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 9-T7S-R23E	
12. COUNTY OR PARISH Uintah	13. STATE Utah
14. API NO.	
15. ELEVATIONS (SHOW DF, KDB, AND WD) G.L. 5,103'; KB 5,116'	

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*
Drilled 7-7/8" hole to 5,600' & ran logs.

Ran 5-1/2" O.D., 14# & 15.5#, 8Rth, SS, new R-1,2 & 3 casing set @ 5,600' (K.B.)
Cemented w/1280 sx of HOWCO Lite cement w/3% salt; 10# gilsonite & 1/4# Flocele/sk.
followed w/290 sx of 50-50 Pozmix w/2% gel; 0.6% Halad-9, 5% KCl & 1/4# Flocele/sk.
Plug down @ 1:05 am 6-25-80. Circulate cement to surface.

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

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

SIGNED Robert C. Gillen TITLE Drlg Supt-RMD DATE June 25, 1980

(This space for Federal or State office use)

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

RECEIVED

9-331
1973

JUL 7 1980

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RMD CASPER

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well gas well other

2. NAME OF OPERATOR
Energy Reserves Group, Inc.

3. ADDRESS OF OPERATOR
P.O. Box 3280 - Casper, Wyoming 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2,404' FSL & 2,062' FWL (NE/SW)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
U-02651-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Broadhurst

9. WELL NO.
6

10. FIELD OR WILDCAT NAME
Walker Hollow

11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA
Sec. 9-T7S-R23E

12. COUNTY OR PARISH
Uintah

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
G.L. 5,103' KB 5,116'

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

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

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

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

6-07-80 - MIRT & RURT

6-08-80 - RURT

6-09-80 - Drlg 7-7/8" hole @ 1,525'. Nippled up and pressure tested BOPF to 1500 psi - held o.k. 8-5/8" casing had been pre-set to 445' (K.B.) w/smaller rig.

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

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

SIGNED K.C. Gilligan TITLE Drlg. Supt. -RMD DATE June 9, 1980

APPROVED BY [Signature] FOR E. W. GUYNN
CONDITIONS OF APPROVAL, IF ANY: TITLE DISTRICT ENGINEER DATE _____

NO ADDITIONAL SURFACE DISTURBANCE FOR THIS WELL

*See Instructions on Reverse Side

open

FORM OGC-8-X

FILE IN QUADRUPLICATE

RECEIVED
JUL 30 1939

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

DIVISION OF
OIL, GAS & MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number USA Pearl Broadhurst #6

Operator Energy Reserves Group, Inc. Address P.O. Box 3280 Phone (307) 265-7331
Casper, Wyoming 82602

Contractor Dreiling Rig #5 Address 410 17th St.-Suite 1146 Phone (303) 623-6144
Denver, Colorado 80202

Location NE 1/4 SW 1/4 Sec. 9 T. 7 N R. 23 W Uintah County, Utah

Water Sands:

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
From	To	Flow Rate or Head	Fresh or Salty
1. <u>(During the drilling operations no water flows were encountered. The drilling mud</u>			
2. <u>was essentially water for drilling to ± 2,800' and gel-chemical mud from 2,800' to</u>			
3. <u>T.D., with mud weights ranging from 9.0 - 9.2 ppg).</u>			
4. _____			
5. _____			

(Continue on reverse side if necessary)

Formation Tops:

Uintah at surface
Green River 2,809'

Remarks:

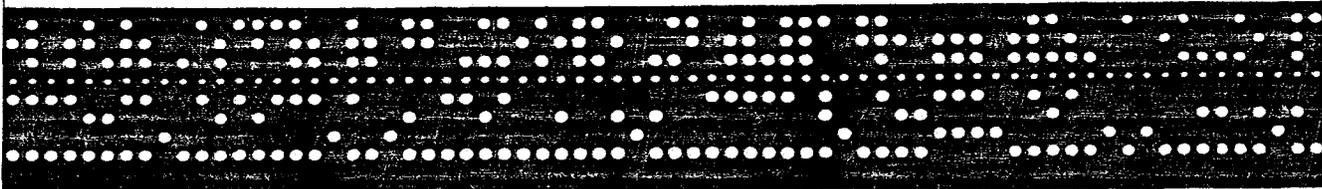
- NOTE:
- (a) Upon diminishing supply forms, please inform this office.
 - (b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure, (See Back of form).
 - (c) If a water analysis has been made of the above reported zone, please forward a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

JS-165

COMPANY ENERGY RESERVES GROUP WELL.S.A. PEARL BROADWORST TEST NO. 1 COUNTY UINTAH STATE UTAH
INC. #6

JOHNSTON
Schlumberger

**computerized
data
analysis**



JOHNSTON

Schlumberger**COMPUTERIZED DATA ANALYSIS**

JULY 3, 1980

GENTLEMEN:

THE ENCLOSED TEST APPEARS TO BE A GOOD MECHANICAL DRILL STEM TEST DURING WHICH THE TOOLS DID FUNCTION PROPERLY. THE FORMATION PRODUCED ENOUGH RESERVOIR FLUID FOR PROPER IDENTIFICATION. RESERVOIR PRESSURE DRAWDOWN WAS SUFFICIENT AND ADEQUATE SHUT-IN BUILD-UPS DID OCCUR FOR RELIABLE QUANTITATIVE ANALYSIS. RESERVOIR PARAMETERS WERE CALCULATED BY THE HORNER METHOD.

1. FLOW RATE: A FLOW RATE OF 493 BBLs/DAY OF LIQUID WAS NOTED DURING THIS TEST.
2. RESERVOIR PRESSURE: EXTRAPOLATION OF THE INITIAL SHUT-IN PRESSURE BUILD-UP INDICATES A MAXIMUM RESERVOIR PRESSURE OF 2108 P.S.I.G. AT RECORDER DEPTH. EXTRAPOLATION OF THE FINAL SHUT-IN PRESSURE BUILD-UP INDICATES A MAXIMUM RESERVOIR PRESSURE OF 2101 P.S.I.G. AT RECORDER DEPTH. THE DIFFERENCE BETWEEN THE INITIAL AND FINAL SHUT-IN PRESSURE OF 7 P.S.I.G. IS INSIGNIFICANT.
3. PERMEABILITY: THE CALCULATED TRANSMISSIBILITY FACTOR OF 507.35 MD.-FT./CP. INDICATES AN AVERAGE EFFECTIVE PERMEABILITY TO LIQUID OF 12.37 MD. FOR THE REPORTED 41 FOOT TEST INTERVAL. THE CALCULATIONS WERE BASED ON A SLOPE OF 158 P.S.I./LOG CYCLE OBTAINED FROM THE FINAL SHUT-IN BUILD-UP PLOT. IT WAS ASSUMED FOR THESE CALCULATIONS THE WATER VISCOSITY AND FORMATION VOLUME FACTOR TO BE 1.0.
4. WELLBORE DAMAGE: THE CALCULATED DAMAGE RATIO OF 1.27 INDICATES THAT WELLBORE DAMAGE IS PRESENT AT THE TIME AND CONDITIONS OF THIS TEST. THE PRESSURE DROP DUE TO DAMAGE IS ESTIMATED TO BE 232 P.S.I.
5. RADIUS OF INVESTIGATION: THE CALCULATED RADIUS OF INVESTIGATION OF THIS TEST IS 227 FEET BASED ON AN ASSUMED POROSITY OF 10%, COMPRESSIBILITY OF 3.3×10^{-6} , AND OTHER ASSUMPTIONS MADE IN NUMBER 3 ABOVE.
6. GENERAL COMMENTS: THE FORMATION EXHIBITS THE CHARACTERISTICS OF RELATIVELY GOOD PERMEABILITY EFFECTIVE TO THE RESERVOIR FLUID AND INDICATES THE PRESENCE OF WELLBORE DAMAGE. GAS WAS NOTED IN THE RECOVERY AND IN THE M.F.E. SAMPLE CHAMBER.

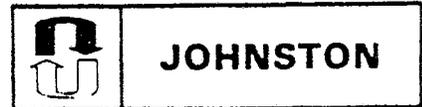
D. J. Simper
D. J. SIMPER
RESERVOIR EVALUATION
DEPARTMENT

ENERGY RESERVES GROUP, INC.
U.S.A. PEARL BROADWORT #6; UINTAH COUNTY, UTAH
TEST #1; 4964' TO 5005'
LOCATION: SEC. 9 - T7S - R23E

FIELD REPORT # 25361 D

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation made by any of our agents or employees.

Reservoir Engineering Data



Recorder No. J-1237

Field Report No. 25361 D

Damage Ratio	DR	1.27	Effective Transmissibility LIQUID	$\frac{Kh}{\mu B}$	507.35	$\frac{Md-ft.}{Cp.}$
Maximum Reservoir Pressure INITIAL SHUT-IN	P _o	2108 P.S.I.G.	Effective Transmissibility	$\frac{Kh}{\mu B}$	-	$\frac{Md-ft.}{Cp.}$
Slope of Shut-in Curve FINAL SHUT-IN	M	158 PSI/log cycle	Flow Rate TOTAL LIQUID	Q	493	Bbl./day
Potentiometric Surface (Datum Plane, Sea Level)	PS	5000 ft.	Pressure Gradient		:424	PSI.ft.
Productivity Index	PI	.453 Bbl./day/PSI	Gas Oil Ratio	GOR	-	CF/Bbl.
Radius of Investigation		227 ft.	K (Effective to LIQUID)		12.37	Md.

SLOPE M = 2101 - 1943 = 158

Assumptions made for Calculations for Liquid Recoveries

1. Q is averaged at a constant rate.
2. P_f is formation flowing pressure at a constant rate.
3. Formation flow is taken as single phase flow.
If gas is produced at surface, phase separation is assumed to have occurred in drill pipe.
4. Radial flow is assumed.
5. For the purpose of calculating EDR where specific reservoir parameters are not available it is assumed that:

Effective permeability, K, will fall between 1 to 200 md
 Formation porosity, ϕ , will fall between 0.1 to 0.3
 Fluid compressibility, c, will fall between 10⁻⁶ to 10⁻⁴
 Fluid viscosity, μ , will fall between 0.05 to 50 cp.
 Well bore radius, r_w, will fall between 3" to 4 1/2"

Which gives an average value for the function $\log \frac{K}{\phi \mu c r_w^2}$ of 5.5

6. Other standard radial flow, equilibrium assumptions.

Empirical Equations:

1. $EDR = \frac{P_o - P_f}{M(\log T + 2.65)}$ where $M = \frac{P_i - P_{10}}{\text{Log Cycle}}$

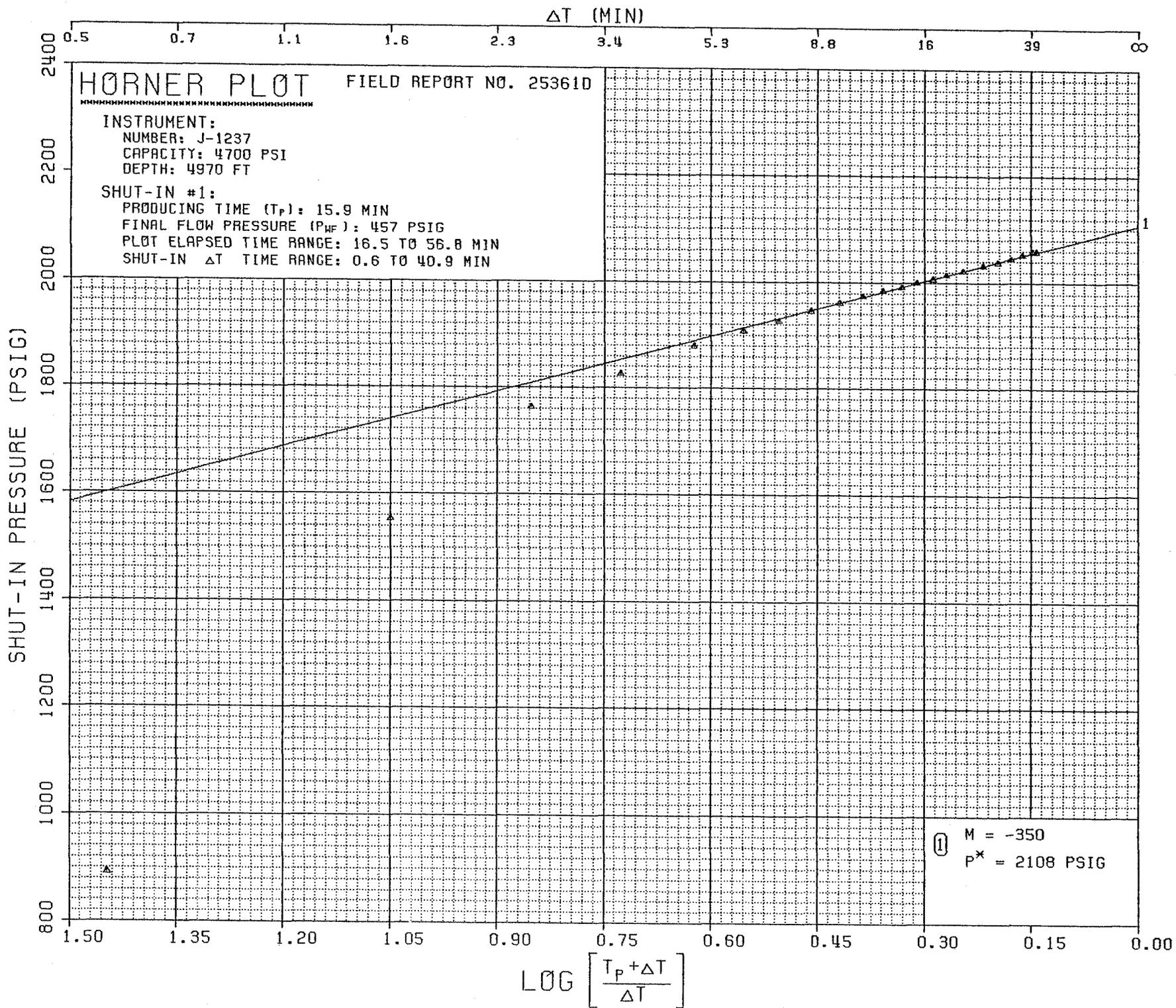
2. Transmissibility $\frac{Kh}{\mu B} = \frac{162.6 Q}{M}$

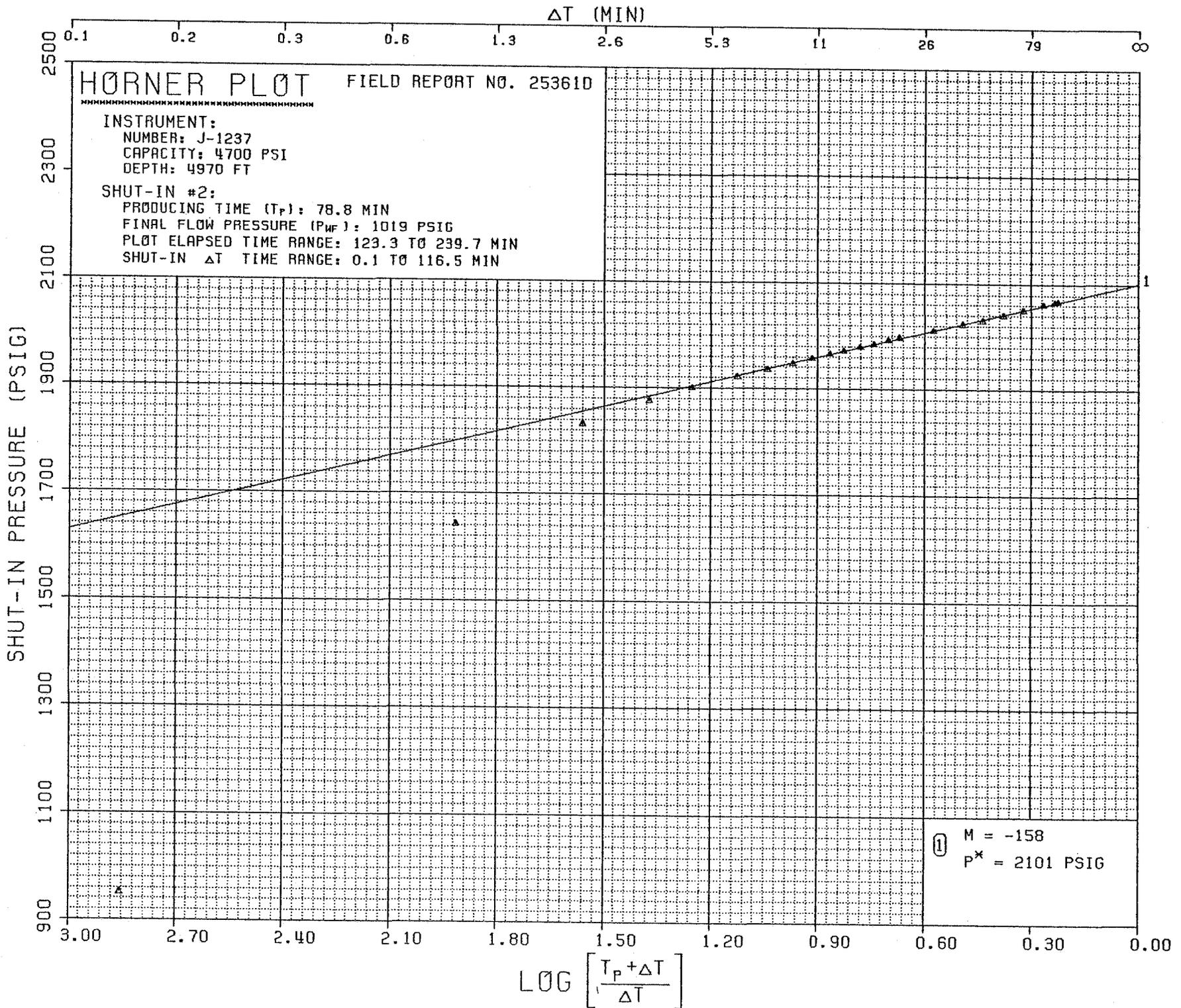
3. DST J = $\frac{Q}{P_o - P_f}$ Theoretical J = $\frac{7.08 \times 10^{-3} Kh}{\mu B \ln(r_e/r_w)}$ Assumed $\ln(r_e/r_w) = 7.60$

4. P.S. = $[P_o \times 2.309 \text{ ft./PSI}] - [\text{Recorder depth to sea level.}]$

5. Radius of investigation, r_i = $\sqrt{\frac{Kt}{40\phi\mu c}}$ where t = time in days

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation made by any of our agents or employees.





FIELD REPORT NO. 253610

INSTRUMENT:

NUMBER: J-1237

CAPACITY: 4700 PSI

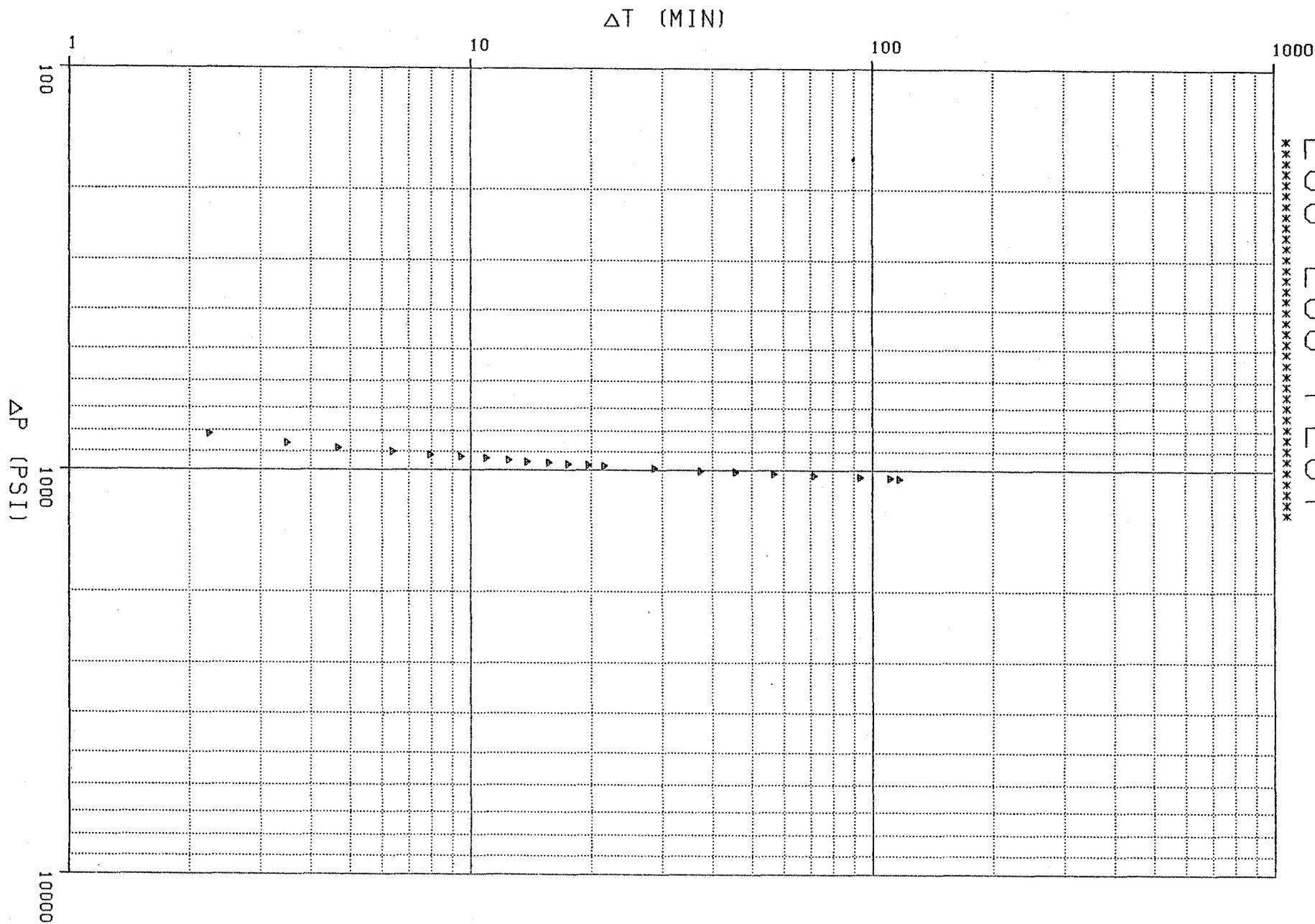
DEPTH: 4970 FT

SHUT-IN #2:

FINAL FLOW PRESSURE (P_{WF}): 1019 PSIG

PLOT ELAPSED TIME RANGE: 125.4 TO 239.7 MIN

SHUT-IN ΔT TIME RANGE: 2.2 TO 116.5 MIN



LOG-LOG PLOT

----- WELL IDENTIFICATION -----

COMPANY:	ENERGY RESERVES GROUP, INC. P.O. BOX 3280 CASPER, WYOMING 82601	CUSTOMER:	SAME
WELL:	U.S.A. PEARL BROADWORST #6	LOCATION:	SEC. 9 - T 7S - R23E
TEST INTERVAL:	4964' TO 5005'	FIELD:	-
TEST NO:	1	TEST DATE:	6-19-80
COUNTY:	UINTAH	STATE:	UTAH
TECHNICIAN:	RICHARDS (VERNAL)	TEST APPROVED BY:	-

----- EQUIPMENT AND HOLE DATA -----

TEST TYPE:	M.F.E. OPEN HOLE	DRILL PIPE LENGTH:	4304	FT.
ELEVATION:	5103 G.R.	DRILL PIPE I.D.:	3.80	IN.
TOTAL DEPTH:	5005	DRILL COLLAR LENGTH:	623	FT.
MAIN HOLE/CASING SIZE:	7 7/8	DRILL COLLAR I.D.:	2.25	IN.
RAT HOLE/LINER SIZE:	-	PACKER DEPTHS:	4958 & 4964	FT.
FORMATION TESTED:	GREEN RIVER I ZONE		&	FT.
NET PROD. INTERVAL:	-	DEPTHS REF. TO:	KELLY BUSHING	FT.
POROSITY:	-			%

----- TEST TOOL CHAMBER DATA -----

SAMPLER PRESSURE:	900	PSIG
RECOVERED OIL GRAVITY:	- API @	- DEG. F.
RECOVERY GOR:	-	FT3/BBL.

SAMPLE CHAMBER CONTENTS

FLUID	VOLUME	RESIST. (OHM-M)	MEAS. TEMP. (DEG F.)	CHLOR. (PPM)
GAS:	.3 FT.3			
OIL:	- CC			
WATER:	1800 CC	.98	90	4250
MUD:	- CC			
FILTRATE:				
TOTAL LIQUID:	1800 CC			

----- MUD DATA -----

TYPE:	FRESH WATER GEL
WEIGHT:	9.2 LB/GAL.
VISCOSITY:	- SEC.
WATER LOSS:	5.6 CC
FLUID	RESIST (OHM-M) TEMP (DEG F) CHLOR (PPM)
MUD:	2.5 90
FILTRATE:	1.9 90 325

----- REMARKS -----

NO. OF REPORTS REQUESTED: 6 (3X)

FIELD REPORT NO. 25361D

----- SURFACE INFORMATION -----

DESCRIPTION(RATE OF FLOW)	TIME	PRESSURE PSIG	SURFACE CHOKE
SET PACKER	1143	-	1/4"
OPENED TOOL	1148	-	"
SLIGHT BLOW			
	1158	1.5	"
CLOSED FOR INITIAL SHUT-IN	1203	2	"
FINISHED SHUT-IN	1243	-	"
RE-OPENED TOOL	1248	-	"
BLOW, 1" IN WATER			
BLOW OFF BOTTOM OF BUCKET	1251	-	"
	1303	2	"
	1318	3	"
	1333	4	"
	1348	4.75	"
CLOSED FOR FINAL SHUT-IN	1348	-	"
FINISHED SHUT-IN	1548	-	"
PULLED PACKER LOOSE	1549	-	"

CUSHION TYPE: FT PSIG 15/16 IN. BOTTOM CHOKE

----- RECOVERY INFORMATION -----

RECOVERY	FEET	BARRELS	%OIL	%WATER	%OTHERS	API GRAV.	DEG.	RESIST	DEG.	CHL PPM
ASPHALT CUT, GAS CUT MUD	180	2.56						1.5	98	2500
HEAVILY GAS CUT WATER	1176	16.70						.85	98	3750
HEAVILY GAS CUT WATER	1177	10.92						.98	96	4000

FIELD REPORT NO. 25361D

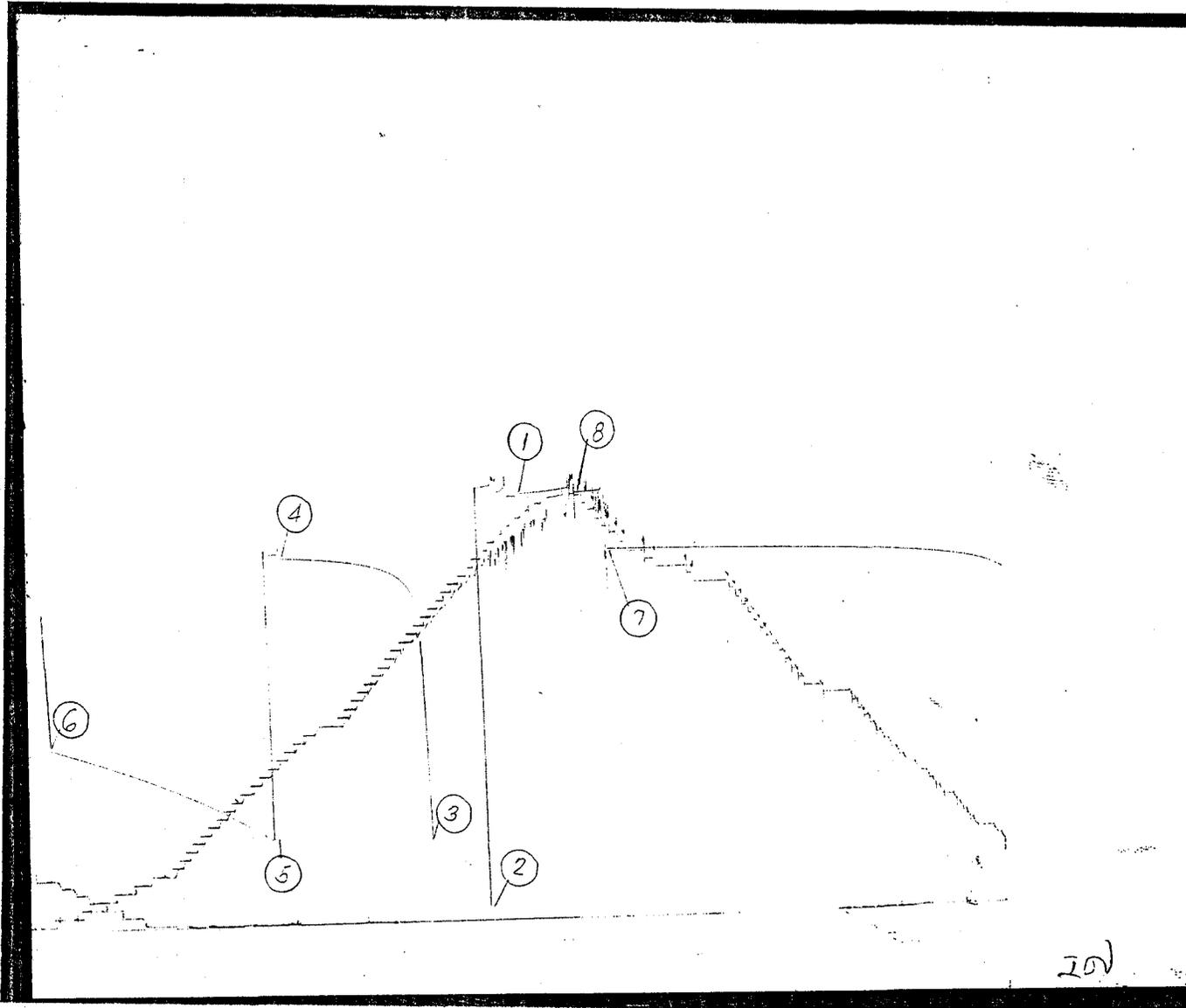
FIELD REPORT NO.: 25361 D

CAPACITY: 4700#

INSTRUMENT NO.: J-1237

NUMBER OF REPORTS: 6-

JOHNSTON
Schlumberger



PRESSURE LOG

FIELD REPORT NO. 253610

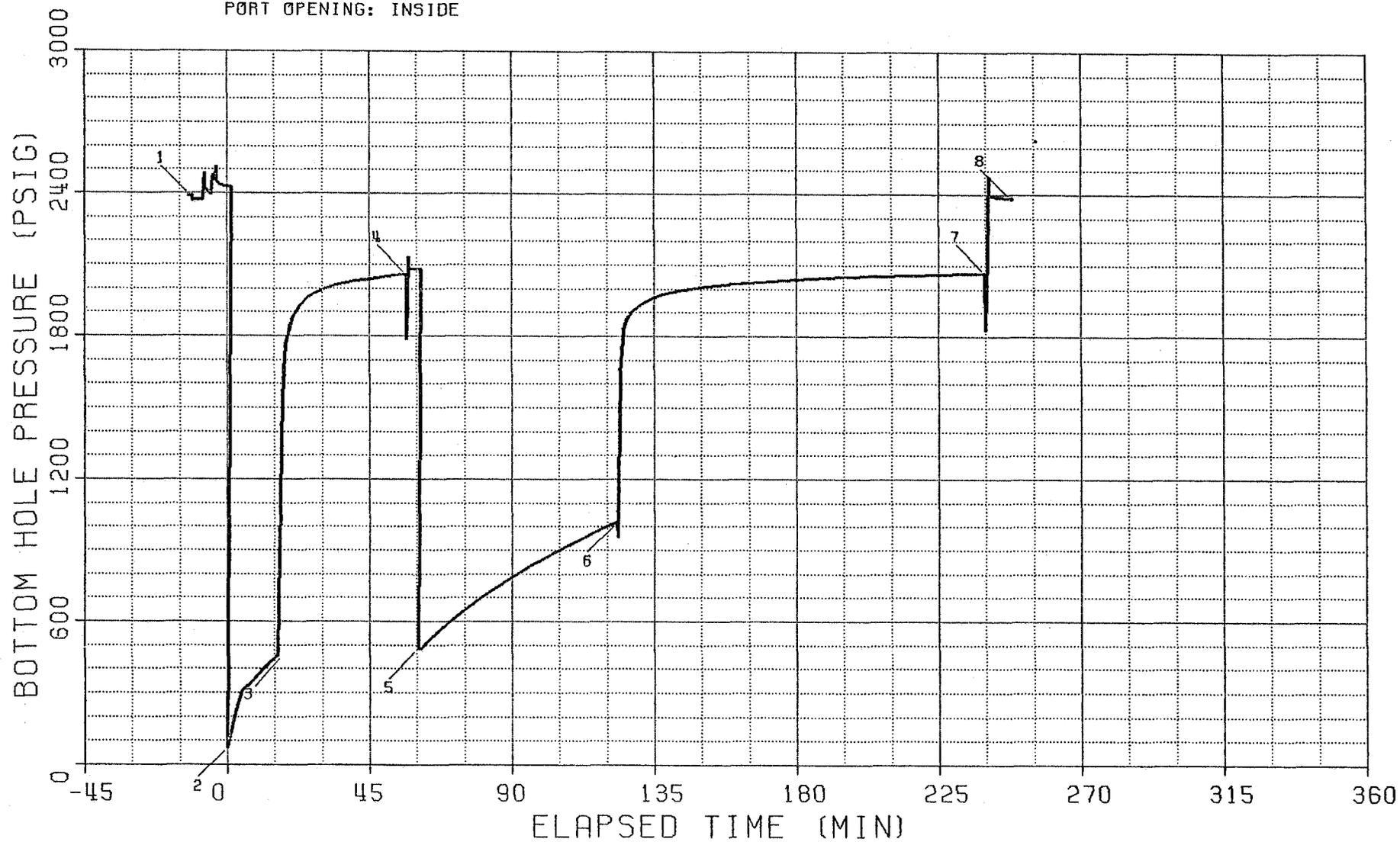
INSTRUMENT:

NUMBER: J-1237

CAPACITY: 4700 PSI

DEPTH: 4970 FT

PORT OPENING: INSIDE



BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-1237
 PORT OPENING: INSIDE

CAPACITY (PSI): 4700
 BOTTOM HOLE TEMP (F): 118

DEPTH (FT): 4970
 PAGE 1

EXPLANATION	LABELED POINT	PRESSURE (PSIG)	ELAPSED TIME (MIN)
HYDROSTATIC MUD	1	2389	-11.6
START FLOW	2	72	0.0
END FLOW & START SHUT-IN	3	457	15.9
END SHUT-IN	4	2058	56.8
START FLOW	5	484	60.3
END FLOW & START SHUT-IN	6	1019	123.2
END SHUT-IN	7	2066	239.7
HYDROSTATIC MUD	8	2386	247.6

 * SUMMARY OF FLOW PERIODS *

FLOW PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF FLOW (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)
1	0.0	15.9	15.9	72	457
2	60.3	123.2	62.9	484	1019

 * SUMMARY OF SHUT-IN PERIODS *

SHUT-IN PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF SHUT-IN (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)	FINAL FLOW PRESSURE (PSIG)	PRODUCING TIME (MIN)
1	15.9	56.8	40.9	457	2058	457	15.9
2	123.2	239.7	116.5	1019	2066	1019	78.8

FIELD REPORT NO. 25361D
INSTRUMENT NO. J-1237TEST PHASE : FLOW PERIOD # 1

ELAPSED TIME (MIN)	DELTA TIME (MIN)	FLOWING PRESSURE (PSIG)
0.0	0.0	72
5.0	5.0	311
10.0	10.0	381
15.0	15.0	447
15.9	15.9	457

TEST PHASE : SHUT-IN PERIOD # 1

1. FINAL FLOW PRESSURE ["P "] = 457 PSIG
2. PRODUCING TIME ["T "] = 15.9 MIN
WF
P

ELAPSED TIME (MIN)	DELTA TIME ["DT"] (MIN)	SHUT-IN PRESSURE ["P "] WS (PSIG)	LOG [(T +DT)/DT] P	DELTA PRESSURE [P - P] WS WF
15.9	0.0	457		0
16.9	1.0	1171	1.229	715
17.9	2.0	1642	0.953	1185
18.9	3.0	1786	0.800	1329
19.9	4.0	1839	0.697	1383
20.9	5.0	1879	0.622	1423
21.9	6.0	1903	0.563	1447
22.9	7.0	1922	0.515	1465
23.9	8.0	1938	0.476	1481
24.9	9.0	1951	0.442	1495
25.9	10.0	1963	0.414	1506
27.9	12.0	1980	0.367	1524
29.9	14.0	1992	0.330	1536
31.9	16.0	2002	0.300	1546
33.9	18.0	2011	0.275	1555
35.9	20.0	2019	0.254	1562
37.9	22.0	2024	0.237	1568
39.9	24.0	2029	0.221	1573
41.9	26.0	2034	0.208	1577
43.9	28.0	2038	0.196	1581
45.9	30.0	2042	0.185	1585
50.9	35.0	2051	0.163	1595
55.9	40.0	2058	0.146	1602
56.8	40.9	2058	0.143	1602

TEST PHASE : FLOW PERIOD # 2

ELAPSED TIME (MIN) *****	DELTA TIME (MIN) *****	FLOWING PRESSURE (PSIG) *****
60.3	0.0	484
65.3	5.0	538
70.3	10.0	598
75.3	15.0	652
80.3	20.0	700
85.3	25.0	745
90.3	30.0	788
95.3	35.0	828
100.3	40.0	865
105.3	45.0	901
110.3	50.0	935
115.3	55.0	969
120.3	50.0	1002
123.2	62.9	1019

TEST PHASE : SHUT-IN PERIOD # 2

1. FINAL FLOW PRESSURE ["P_{WF} "] = 1019 PSIG
2. PRODUCING TIME ["T_P "] = 78.8 MIN

ELAPSED TIME (MIN) *****	DELTA TIME ["DT"] (MIN) *****	SHUT-IN PRESSURE ["P _{WS} "] (PSIG) *****	LOG [(T +DT)/DT] P *****	DELTA PRESSURE [P - P _{WS}] WF *****
123.2	0.0	1019		0
124.2	1.0	1646	1.902	627
125.2	2.0	1797	1.606	778
126.2	3.0	1859	1.436	839
127.2	4.0	1886	1.316	867
128.2	5.0	1904	1.224	885
129.2	6.0	1916	1.150	897
130.2	7.0	1927	1.088	907
131.2	8.0	1935	1.035	916
132.2	9.0	1943	0.989	924
133.2	10.0	1950	0.948	931
135.2	12.0	1963	0.879	944
137.2	14.0	1972	0.821	953
139.2	16.0	1980	0.773	961
141.2	18.0	1986	0.731	967
143.2	20.0	1992	0.694	973
145.2	22.0	1997	0.661	978
147.2	24.0	2001	0.632	982
149.2	26.0	2005	0.605	986
151.2	28.0	2009	0.581	990

SAMPLE DESCRIPTIONS

- 3500-3540 Shale, varicolored, reddish brown to brownish red, gray to dark gray and light gray, rarely greenish gray, calcareous, locally silty to rarely very fine sandy (thin laminations, rare carbonaceous partings (films), soft to rarely medium hard, blocky to hackly; an occasional piece pyrite.
- 3540-3620 Shale as above with a rare chip sandstone, very fine, subangular, locally stained with black to dark brown dead oil, neg. cut, stain, UVL, tight, firm; a rare chip dark brown blocky medium hard to hard oil shale.
- 3620-3640 Shales as above with some sandstone, brown to light gray and brown, very fine to fine, subangular, calcareous and locally argillaceous, firm to frangible, tight to rare trace very poor intergranular porosity, neg. cut, possible traces brown stain, trace very faint and dull yellow fluorescence, bright yellow chlorothane fluorescence cut. Had slight drilling break from 3600 -20' with 10 units over 5 units background gas; 15C₁ on chromatograph.
(Comment: Possibly some of the minor gas kicks to this depth are related to possible fractured shales, traces oil shale and/or from the rare thin (films) partings of carbonaceous material within the shales); trace very light brown to tan arenaceous argillaceous microcrystalline medium hard limestone.
- 3640-3660 Sandstone, very light brown to tan, fine to very fine, rarely locally medium, subangular, calcareous to locally argillaceous (cement), medium hard to rarely frangible, tight to some local fair porosity, trace dark brown to black stain, pale amber cut, negative fluorescence, bright yellow white chlorothane fluorescence cut. At 3642 -60' had 9 units over background of 6 units gas and 15C₁ and 1C₂ on the chromatograph with some varicolored shales as above.
- 3660-3700 Shales as above with traces very fine to fine very light brown calcareous and argillaceous light sandstone; an occasional piece calcareous kaolinite.
- 3700-3720 Shales as above an abundant Sandstone as 3640, neg. cut, a rare spot black stain, neg. fluorescence; some local poor porosity. At 3716-3722 had 5 units over background 2 unit gas and 7C₁ on chromatograph.

DRILL STEM TEST SUMMARY

DST #1

Zone: Green River (Lower I-Zone)
Interval: 4965-5005' (40')
Type of Test: Bottom Hole (2 packers)
Times: IF 15" ISI 45" FF 60" FSI 120"

Description of Surface Flow: Open on initial flow w/weak air blow increasing to strong air blow in 2 minutes (2 pounds on 1/4" surface choke at end of initial flow period). Open on final flow w/weak air blow increasing to strong in 4 minutes, (1 pound in 15 minutes; 3 pounds in 30 minutes; 4 pounds in 45 minutes; 4-3/4 pounds in 60 minutes); no gas to surface.

Drill Pipe Recovery: 180 feet gas cut mud heavily cut w/black gilsonite and/or asphalt plus 2353 feet heavily (gas charged) gas cut very slightly salty clear formation water; total fluid recovery 2533 feet.

Sample Chamber Recovery: 1825 CC water and .3 CFG at 900 PSI.

Resistivities and Chloride Analysis:

Rw (Surf. water)	5.5 @ 90°	300PPM
Rm (Pit mud)	2.5 @ 90°; filtrate 1.9 @ 90°	325PPM
Rm (Top Pipe)	_____ ; filtrate 1.5 @ 98°	2500PPM
Rw (Mid Pipe)	.85 @ 98°	3750PPM
Rw (Bot. Pipe)	.98 @ 96°	4000PPM
Rw (Spl. Chamber)	.98 @ 90°	4250PPM

Pressures:

Top Recorder:

IH 2446	IF 65/457	ISI 2060
FH 2418	FF 476/1004	FSI 2097

Bottom Recorder:

IH 2424	IF 64/433	ISI 2054
FH 2414	FF 480/1002	FSI 2054

Bottom Hole Temp: 118°F

- 4200-4220 Sandstone, dirty white to rarely light gray, very fine to fine, rarely locally medium, locally very sparsely salt and pepper, calcareous to slightly calcareous, locally pyritic, some white clay infilling, locally cherty (very coarse to granule sized dark gray opaque chert grains and/or loose fragments), medium hard, tight and shales with occasional chip limestone as before.
- 4220-4230 Shales and minor sandstone as above; a rare chip limestone as before.
- 4230-4260 Shales and very minor to traces sandstone; an occasional chip limestone as before.
- 4260-4280 Shales as above with some sandstone, dirty white to very light gray, very fine to fine, subangular to subrounded, locally very sparsely salt and pepper, calcareous to argillaceous, medium hard, tight; an occasional piece kaolinite.
- 4280-4300 Shales, etc. as above with minor loose clear to translucent subangular to rounded fine to very coarse quartz grains; trace light gray to gray chert grains and/or fragments as before.
- 4300-4330 Shale and Sandstone as 4260 locally rarely medium grained, tight.
- 4330-4350 Sandstone, very light gray to dirty white, very fine to medium (poorly sorted), subangular to subrounded, locally calcareous and argillaceous, medium hard to frangible, some fair porosity, scattered light brown to dark brown stain (dull yellow fluorescence), pale amber cut, bright yellow chlorothane fluorescence cut; a few loose fine to coarse quartz grains as 4280 and an occasional granule sized gray chert grain and/or fragment with minor shale as before. Had good drilling break from 4335-54 with 20 units over background of 2 units gas and 50C₁ on chromatograph; occasional chip limestone.
- 4350-4360 Shale and some sandstone and loose sand and trace chert as above, rare trace brown stain, neg. fluorescence.
- 4360-4370 Sandstone, light gray, very fine, subangular, silty, calcareous to argillaceous, medium hard, tight grading to a very fine sandy siltstone and shale as before.

- 3720-3740 Shales and some sandstone as above.
- 3740-3780 Sandstone, very light gray to gray white, fine to very fine to rarely locally medium, subangular to subrounded, locally calcareous to slightly calcareous, some white clay infilling, medium hard (well cemented), tight to rare trace very poor to poor porosity, neg. cut, stain, UVL and abundant shales as above; traces sandstone as above; an occasional chip light brown cryptocrystalline hard limestone. At 3748-3767' had 6 units over background of 2 units gas and 8C₁ on chromatograph; traces kaolinite.
- 3780-4020 Shales varicolored as above with occasional traces to very minor sandstone as above and an occasional piece white very calcareous soft kaolinite grading to a kaolinitic calcite; a rare chip argillaceous light brown and gray cryptocrystalline limestone.
- 4020-4050 Shales, etc., as above with minor sandstone, dirty white to light gray, very fine to medium, subangular to subrounded, poorly sorted, locally very sparsely salt and pepper, calcareous, some white clay infilling, locally cherty (coarse to granule sized light gray to black chert grains and/or fragments, locally pyritic, medium hard to rarely frangible, tight, neg. cut, stain, UVL; occasional loose very coarse subangular to angular translucent to clear quartz grains and/or fragment; occasional chip limestone as before.
- 4050-4080 Shales and traces to very minor sandstones as above; traces limestone as 3780 and kaolinite.
- 4080-4100 Sandstone, dirty white, very fine to medium, poorly sorted, subangular to subrounded, sparsely salt and pepper, a few very coarse to granule sized quartz (translucent) and black and gray opaque subangular to angular chert grains, locally calcareous, some white clay infilling, locally pyritic, medium hard to frangible, tight to traces poor intergranular porosity, neg. cut, stain, UVL and minor Shales as above; trace kaolinite as before.
- 4100-4200 Shales, varicolored, reddish brown to brownish red, light gray to gray, greenish gray, rarely dark gray locally calcareous and slightly silty, blocky to hackly, soft to medium hard with traces to very minor sandstones as above; occasional traces limestone and kaolinite as before.

- 4590-4600 Shale and very minor sandstone as above, locally slightly cleaner with trace very poor porosity, trace oolitic limestone as before.
- 4600-4650 Sandstone as 4570 and interbedded shale as above with traces limestone, siltstone and kaolinite as before (sandstones occasionally have a light (quartz) to dark (chert) medium sized grain).
- 4650-4660 Shales varicolored as before, locally grading to a slightly calcareous and/or dolomitic, very argillaceous light gray siltstone with very minor sandstone and trace limestone as before.
- 4660-4690 Sandstone, dirty white, to very light gray, very fine to rarely fine, subangular, sparsely salt and pepper, silty, calcareous and locally argillaceous (white clay infilling) medium hard to locally frangible, traces poor porosity, neg. cut, stain, UVL with minor shales and trace limestone as before; occasional piece kaolinite.
- 4690-4710 Sandstone as above, local fair intergranular porosity, pale amber cut, local very faint brownish stain, scattered yellow fluorescence, bright yellow (streaming) chlorothane fluorescence cut. Had drilling break from 4690-4701 with 37 units over 3 units gas and 60C₁; 2C₂; trace C₃ and 1C₄, with very minor shale and trace limestone.
- 4710-4730 Shales varicolored and very minor interbedded sandstone as above, tight to traces poor to fair porosity, a rare piece muscovite.
- 4730-4750 Shales and very minor sandstone 4690 with very minor limestone as 4450 locally very fossiliferous and fine sandy; an occasional chert fragment as before.
- 4750-4780 Sandstone, dirty white to very light gray and brown, very fine to fine, rarely medium subangular locally salt and pepper and very calcareous to argillaceous, medium hard to frangible, tight to traces poor ingranular porosity, trace yellow fluorescence, trace brown stain, bright yellow chlorothane fluorescence cut, pale amber cut on traces brown stained chips; with minor shales and very minor sandy fossiliferous oolitic limestone as 4450; a rare dark gray opaque very coarse angular chert fragment (shale increases towards bottom).

- 4370-4380 Shale and sandstone grading to siltstone as above.
- 4380-4390 Shale and minor sandstone as above.
- 4390-4420 Shale and abundant sandstone locally sparsely salt and pepper grading to siltstone as 4360, frangible to medium hard, tight to rare trace, very poor porosity, neg. cut, stain, UVL; an occasional piece kaolinite; trace brown very argillaceous hard crypto-crystalline limestone.
- 4420-4430 Sandstone, dirty white to light gray, and trace pale green, very fine to fine, subangular to subrounded, sparsely salt and pepper, calcareous to argillaceous (white clay infilling), locally silty, frangible, tight to trace poor porosity, neg. cut, stain, UVL, trace siltstone as above; occasional chip brown to light brown limestone and minor shale as before; traces kaolinite.
- 4430-4450 Shale and sandstones, etc., as above.
- 4450-4470 Shales and minor sandstone as above with some limestone, light brown to brown and tan and rarely gray, crypto-crystalline, locally dolomitic, argillaceous (locally marly) rarely locally fossiliferous (ostracods), oolitic and arenaceous (fine sandy) medium hard to hard; trace light gray very fine sandy siltstone.
- 4470-4480 Shales with some sandstone and limestones as above, traces siltstone as above.
- 4480-4490 Shales with minor sandstone, very minor limestone and traces siltstone; an occasional dark gray to light gray opaque coarse to granule sized angular chert fragment and/or grain (associated probably in sandstones).
- 4490-4500 Shale and some argillaceous limestone and very minor locally very argillaceous and calcareous sandstone as before, occasionally medium grained.
- 4500-4550 Shales varicolored as before with minor interbedded sandstone as 4420 with very minor limestone and siltstone as 4450; traces kaolinite, white very calcareous; samples very poor.
- 4550-4570 Shales as above with very minor traces sandstone, limestone, and siltstone as above; traces kaolinite.
- 4570-4590 Sandstone, very light gray to gray white and brownish white, very fine to occasionally fine, subangular to subrounded, argillaceous calcareous, sparsely salt and pepper, locally silty, medium hard, tight and very minor shale as above; trace kaolinite.

- 4780-4800 Shale with very minor interbedded sandstone and limestone as above; an occasional very coarse to granule sized light gray to dark gray angular chert fragment (shows of gas were periodically recorded from 4712 thru 4798; check gas detector shows in report).
- 4800-4820 Sandstone, dirty white to very light gray, fine to medium, rarely very fine, subangular to angular, very sparsely salt and pepper, calcareous, traces white clay infilling, locally cherty (very coarse subangular to angular light and dark gray chert grains); trace very coarse clear quartz grains, frangible to medium hard, traces poor to fair porosity, neg. cut, stain, UVL; with very minor shale and traces kaolinite as before.
- 4820-4830 Shales as above with some sandstone as above and oolitic limestone as before; trace kaolinite.
- 4830-4860 Shales as above with very minor sandstone, dirty white to very light gray, very fine to fine, subangular to subrounded, silty, locally argillaceous, calcareous, medium hard tight; traces sandstone and limestone as above; trace kaolinite; traces siltstone.
- 4860-4890 Sandstone, salt and pepper as above medium hard to frangible and traces sandstone as 4800; traces chert and quartz grains as 4800 with very minor shale and traces limestone and kaolinite as above; traces dead oil on sandstone.
- 4890-4900 Shales as above with minor sandstone and traces limestone as above; traces siltstone and kaolinite.
- 4900-4920 Sandstones and shales as 4830 with traces limestone as before; sandstones are generally tight with traces poor porosity, neg. cut, traces dead oil stain, neg. UVL; gray shales are locally dolomitic.
- 4920-4930 Sandstone as 4830, medium hard to frangible, tight to some poor porosity, traces brown stain, neg. fluorescence, bright yellow chlorothane cut fluorescence with minor shales locally dolomitic as above; traces oolitic and ostracodal limestone and kaolinite.
- 4930-4940 Sandstone etc. as above with some shales as above.
- 4940-4970 Shale as above and minor sandstones as 4830; traces limestone and kaolinite.

- 4970-4990 Sandstone, dirty white to very light brown and gray very fine to fine, subangular, locally silty to slightly argillaceous and calcareous, medium hard to frangible, tight to some poor to fair porosity, traces dark brown (spotty) stain, a very faint yellow to a bright yellow chlorothane fluorescence cut; a pale amber to a neg. visual cut with some shales as above; an occasional piece brown and gray limestone, locally oolitic; an occasional loose angular clear to translucent quartz fragments.
- (Had drilling break from 4973-86 with 6 units over background of 2 with 8C₁)
- 4990-5000 Sandstone, etc. as above with traces oolitic and ostracodal cryptocrystalline argillaceous locally sandy light brown and gray limestone.
- 5000-5020 Shales as above with very minor sandstone as above, predominately very fine, tight to traces poor porosity, with traces limestone as above.
- 5020-5050 Shales with traces sandstone as above; a rare chip limestone or piece kaolinite; slight increase in sandstone in the 5050 sample.
- 5050-5060 Shales, etc. as above with some sandstone, very light gray and brown, fine to medium, subangular to subrounded, sparsely salt and pepper, a rare coarse to very coarse angular to subangular black chert grain, slightly calcareous to calcareous, slightly argillaceous, medium hard to rarely frangible, tight, neg. cut, stain, UVL; an occasional loose coarse to very coarse chert and/or quartz grains and/or fragments.
- 5060-5110 Shales as above with traces to very minor interbedded tight medium hard sandstone with an occasional chip limestone as before.
- 5110-5130 Shale as above with abundant sandstone as 4970, tight and limestone, light brown and gray, cryptocrystalline, oolitic, ostracodal, argillaceous, locally sandy, medium hard; traces kaolinite; a rare very coarse, loose black chert grain.
- 5130-5160 Sandstone, dirty white to very light gray and brown, very fine to fine to a very rare medium grain, subangular to subrounded locally sparsely salt and pepper, calcareous, some white clay infilling, locally silty, medium hard, tight with abundant shales and traces limestone as above; trace kaolinite and a rare chert grain as above.

- yellow white fluorescence, a bright yellow fluorescence chlorothane cut; traces sandstone as above with some shale and traces limestone and kaolinite with an occasional loose dark to light gray very coarse to granule sized chert fragment and/or grain. A 5327-42 had 53 units gas over 5 units background with 70C₁; 5C₂; 1C₃; 2C₄; 1C₅.
- 5350-5380 Shales as above with very minor to traces sandstones as 5310 and 5330.
- 5380-5400 Sandstones as 5310 and 5330 with fair porosity and similar hydrocarbon shows and some shales and an occasional chip limestone as before. At 5382-5403 had 8 units gas over background of 10 units with 20C₁; 2C₂; 1C₃; 1C₄.
- 5400-5420 Shales varicolored as before, light gray and gray, greenish gray, reddish brown to brownish red to brown, occasionally dark gray, calcareous, locally silty, rarely sandy, blocky to hackly, medium hard to soft (shales on rare occasions have traces black round pellets) with traces to very minor sandstones as above and an occasional chip limestone as before; an occasional coarse to very coarse light gray translucent angular chert fragment.
- 5420-5550 Shales as above with traces sandstones as above tight, a rare chip limestone as before; an occasional light gray to dark gray very coarse subangular to angular loose chert fragment and/or grain; a rare muscovite flake; occasional traces kaolinite (slight increase in sandstone in 5470 to 5500); samples have abundant uphole cavings and are considered to be predominately shales as before.
- 5550-5560 Shales as above locally very sandy occasionally grading to a very argillaceous fine to very fine sandstone with traces tight sandstones as above (cavings?); traces kaolinite and an occasional chip limestone (samples very poor).
- 5560-5570 Sandstone, dirty white to white, fine to very fine, subangular to subrounded, slightly calcareous, local white clay infilling, frangible, tight to local poor porosity, neg. cut, stain, UVL with some loose coarse to granule sized angular clear quartz and milky to light gray and gray chert fragments; with some shales as above, rarely locally pyritic. (Had good drilling break from 5548-60 which probably relates to this sample); trace kaolinite.

- 5160-5180 Shale and interbedded sandstone, etc. as above; rare piece pyrite.
- 5180-5200 Shale with very minor sandstone as above, locally frangible with traces poor porosity, neg. cut, stain, UVL with traces limestone as above.
- 5200-5230 Shale etc. with some sandstone as above; traces kaolinite.
- 5230-5250 Shale etc. as above with traces sandstone, dirty white, very fine to fine, subangular, slightly calcareous, frangible, traces fair to poor porosity, neg. cut, stain, UVL. At 5233-45 had 2 units gas over 2 background with 8C₁.
- 5250-5280 Shale as above with traces to very minor sandstones as 5130 and 5230, neg. cut, stain, UVL.
- 5280-5300 Shales etc. as above with very minor sandstone as 5230; yellow chlorothane fluorescence cut, neg. stain, UVL. At 5283-98 had 20 units gas over 2 units background with 25C₁; traces limestone as before; a rare dark very coarse rounded chert grain as before.
- 5300-5310 Sandstone, dirty white, to brownish white, very fine to medium, subrounded to subangular, locally very sparsely salt and pepper, locally slightly calcareous, frangible to friable, some fair porosity, bright yellow chlorothane fluorescence cut, rare traces very light brown stain, traces bright yellow white fluorescence (overall sample) with some shale and traces limestone as before.
- 5310-5330 Shales and traces limestone as before with some sandstone, dirty white to gray white, very fine, subangular, slightly calcareous and argillaceous, medium hard to locally frangible, tight to local poor porosity, bright yellow chlorothane fluorescence cut, a rare spot very light brown stain, trace bright yellow white fluorescence (overall sample); traces sandstone as above. AL 5310-15 had 10 units gas over 5 units background and 22C₁.
- 5330-5350 Sandstone, light gray and brown, fine to medium, rarely very fine, subangular, sparsely salt and pepper with an occasional coarse to very coarse light and/or dark chert grain, locally calcareous and argillaceous, frangible to friable, rarely medium hard, some local good porosity, very pale amber cut, some light brown to brown stain, scattered

5570-5580

Sandstone, etc. as above with slight increase in shale as above; occasional chip oolitic limestone as before, trace muscovite.

5580-5600

Shales as above with minor sandstones as before tight (cavings?); occasional chips limestone and muscovite as above and traces loose quartz and chert grains and/or fragments as 5560.

Total Depth: 5600' Driller 5598 Logs

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794
Casper, Wyoming

WATER ANALYSIS REPORT

OPERATOR	<u>Energy Reserves Group</u>	DATE	<u>7-9-80</u>	LAB NO.	<u>34701-1</u>
WELL NO.	<u>#6 Broadhurst</u>	LOCATION	<u>Section 9-75-23E</u>		
FIELD	<u>Walker Hollow</u>	FORMATION	_____		
COUNTY	<u>Uintah</u>	INTERVAL	<u>4964-5005</u>		
STATE	<u>Utah</u>	SAMPLE FROM	<u>DST #1 (Sample Chamber)</u>		

REMARKS & CONCLUSIONS: _____

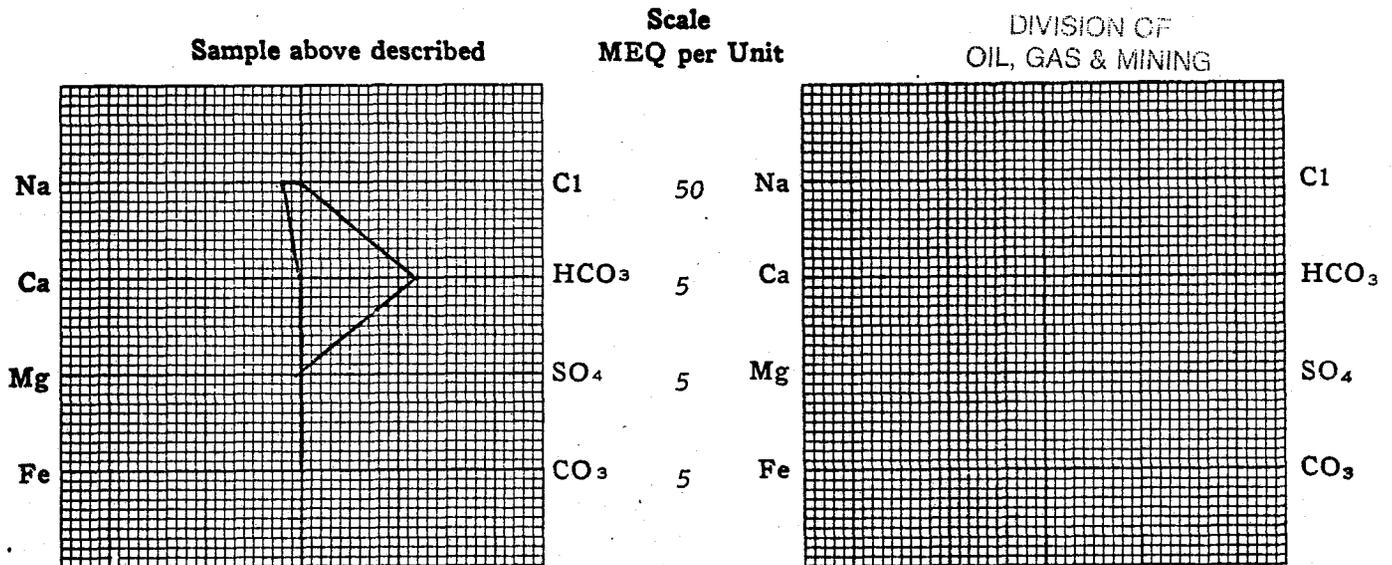
Cations			Anions		
	mg/l	meq/l		mg/l	meq/l
Sodium	2462	107.08	Sulfate	12	0.25
Potassium	18	0.46	Chloride	1720	48.50
Lithium	-	-	Carbonate	-	-
Calcium	23	1.15	Bicarbonate	3660	60.02
Magnesium	1	0.08	Hydroxide	-	-
Iron	-	-	Hydrogen sulfide	-	-
Total Cations		108.77	Total Anions		108.77

Total dissolved solids, mg/l - - - - - 6039
 NaCl equivalent, mg/l - - - - - 5218
 Observed pH - - - - - 7.8

Specific resistance @ 68°F.:
 Observed - - - - - 1.15 ohm-meters
 Calculated - - - - - 1.25 ohm-meters

RECEIVED
 JUL 32 1980

WATER ANALYSIS PATTERN



(Na value in above graphs includes Na, K, and Li)
 NOTE: Mg/l=Milligrams per liter Meq/l= Milligram equivalents per liter
 Sodium chloride equivalent=by Dunlap & Hawthorne calculation from components

CHEMICAL & GEOLOGICAL LABORATORIES

P.O. Box 2794
Casper, Wyoming 82602

GAS ANALYSIS REPORT

Company	Energy Reserves Group, Inc.	Date	7-10-80	Lab. No.	34701-2
Well No.	#6 Broadhurst	Location	9-7S-23E		
Field	Walker Hollow	Formation			
County	Uintah	Depth	4964-5005		
State	Utah	Sampling point	DST #1		
Line pressure	psig; Sample pressure	15 psig; Temperature	° F; Container number	1238	
Remarks					

Component	Mole % or Volume %	Gallons per MCF
Oxygen	0	
Nitrogen	0.37	
Carbon dioxide	0	
Hydrogen sulfide	*	
<hr/>		
Methane	99.51	
Ethane	0.12	
Propane	0	0
Iso-butane	0	0
N-butane	0	0
Iso-pentane	0	0
N-pentane	0	0
Hexanes & higher	0	0
<hr/>		
Total	100.00	0
<hr/>		
GPM of pentanes & higher fraction		0
<hr/>		
Gross btu/cu. ft. @60° F. & 14.7 psia (dry basis)		1008
Specific gravity (calculated from analysis)		0.556
Specific gravity (measured)		0.552

Remarks:

* = H₂S negative to lead acetate paper.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

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

2. NAME OF OPERATOR
Energy Reserves Group, Inc.

3. ADDRESS OF OPERATOR
P.O. Box 3280 - Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 2404' FSL & 2062' FWL (NE/SW)

At top prod. interval reported below

At total depth

14. PERMIT NO. 43-047-30705 | DATE ISSUED 5-16-80

5. LEASE DESIGNATION AND SERIAL NO.
U-02651-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
USA Pearl (Broadhurst

9. WELL NO.
6

10. FIELD AND POOL, OR WILDCAT
Walker Hollow Field

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 9-T7S-R23E

12. COUNTY OR PARISH
Uintah | 13. STATE
Utah

15. DATE SPUNDED 5-16-80 | 16. DATE T.D. REACHED 6-24-80 | 17. DATE COMPL. (Ready to prod.) 9-05-80 | 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* KB - 5,116' (GRD + 13') | 19. ELEV. CASINGHEAD -----

20. TOTAL DEPTH, MD & TVD 5,600' | 21. PLUG, BACK T.D., MD & TVD 5,485' | 22. IF MULTIPLE COMPL., HOW MANY* NA | 23. INTERVALS DRILLED BY Surface to TD | ROTARY TOOLS | CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Green River "J" and "K" sands (5,275' - 5,384') | 25. WAS DIRECTIONAL SURVEY MADE NO

26. TYPE ELECTRIC AND OTHER LOGS RUN
Compensated Neutron - Formation Density, Dual Induction, & Compensated Sonic | 27. WAS WELL CORED NO

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	445' KB	13"	435 sx Class "B" w/3% Salt	-0-
5-1/2"	14 & 15.5#	5,600' KB	7-7/8"	+ 2# CaCl ₂ & 1/4# Flocele/sx. 1280 sx HOWCO Lite w/3% salt (See Back)	-0-

29. LINER RECORD | 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
		None			2-7/8"	5,399'	None

31. PERFORATION RECORD (Interval, size and number)
5,562', 5,550', 5,549', 5,546', 5,382'-84'
5,353', 5,349' & 5,326'-29' w/1 JSPF (Green River "K" Sand)
5,307', 5,285'-88', & 5,275' w/1 JSPF (Green River "J" Sand)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5,546'-5,562'	Cement squeeze: (See Back)
5,326'-5,384'	Breakdown 1: (See Back)
5,275'-5,307'	Breakdown 2: (See Back)
5,275'-5,384'	Fracture: (See Back)

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
8-28-80	Pumping - 2-1/2" x 1-3/4" x 14' rod pump	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9-5-80	24	-----	→	94	NA	241	NA

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
-----		→	94	NA	241	33.15

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
VENTED DURING TEST | TEST WITNESSED BY DOUG CRITTON

35. LIST OF ATTACHMENTS
DST SUMMARY & SAMPLE DESCRIPTION

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

SIGNED J. E. Jones | TITLE District Engineer-RMD | DATE 9-8-80

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

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

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

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

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

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			SEE ATTACHED
			Continued from other side
			Cementing - 5-1/2" + 10# Gilsonite & 1/4# Floccle/sk, followed w/290 sx
			50-50 Pozmix w/2% gel + 0.6%
			Halad-9 + 5% KCl & 1/4# Floccle /sk.
			Cement Squeeze - Set cement retainer @ 5,505' & sqz'd perfs @ 5,546' - 5,562', which were water productive, w/50 sx Class "H" + 2% CaCl ₂ to 4000 psi. PBD 5,485'.
			Breakdown - BD perfs @ 5,326' - 5,384' w/500 gal. 7-1/2% MSR + additives.
			Breakdown 2 - BD perfs @ 5,275' - 5,307' w/500 gal 7-1/2% MCR + additives.
			Fracture - Frac'd perfs @ 5,275' - 5,384' w/47,500 gal Super-K-1 oil-in-water emulsion w/27,000# 20-40 sd + 45,000# 10-20 sd & other additives using limited entry technique.

38. GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH
LOG TOPS		
Uintah	Surface	
Green River Fm	2,809'	
"G" zone	4,306'	
"H" zone	4,625'	
"I" zone	4,864'	
"J" zone	5,145'	
"K" zone	5,312'	
TD - Logs	5,598'	
Driller	5,600'	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
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 purposes.)

RECEIVED

JUN 03 1985

DIVISION OF OIL
& GAS & MINING

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. U-02651-A
2. NAME OF OPERATOR Energy Reserves Group, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P. O. Box 3280 Casper, Wyoming 82602		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any GAS & MINING See also space 17 below.) At surface		8. FARM OR LEASE NAME USA Pearl Broadhurst
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	9. WELL NO.
		10. FIELD AND POOL, OR WILDCAT Walker Hollow Field
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 9 T1S-R1E
		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	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other) Consolidate Tank Batteries	<input checked="" type="checkbox"/>		

SUBSEQUENT REPORT OF:

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

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

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.)*

Energy Reserves Group, Inc. is proposing to consolidate the five existing tank batteries to one central tank battery to be located at the USA Pearl Broadhurst #1 present tank battery site. The location of the central tank battery site and the additional flowlines are shown on the attached topo map. All of the additional flowlines required will be in existing pipeline routes and will be insulated surface lines, so there should not be any additional surface disturbances. The entire lease has already had archaeological clearance. The present #1 Broadhurst Tank Battery already has the required tank storage, additional heater treaters will have to be moved to the present #1 battery.

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

SIGNED Bobby Patrick TITLE Petroleum Engineer DATE 5-31-85
Bobby Patrick
(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Energy Reserves Group
 USA Pearl Broadhurst Lease
 Walker Hollow Field
 Uintah Co., Utah

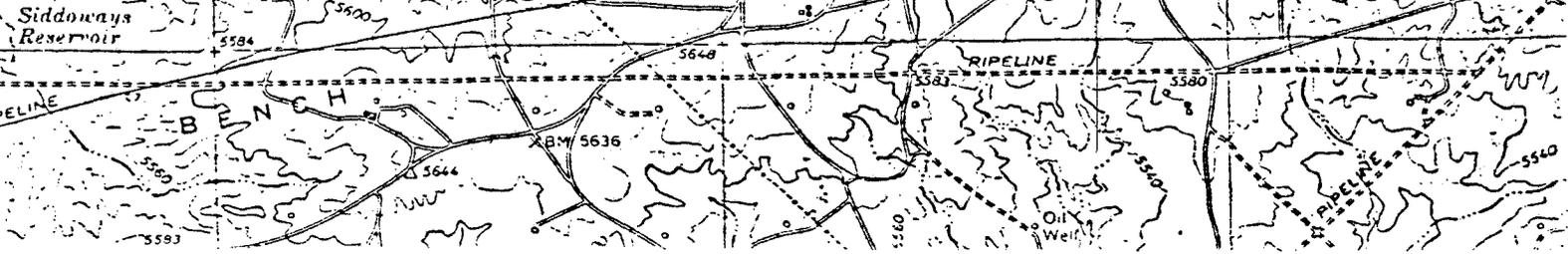
3.5 MI TO UTAH 266 20' 642 643 4164 IV SE (JENSEN) 644 645 17'30"



The flowline routes shown above are the proposed routes from the existing batteries to the #1 Central Tank Battery Site. The proposed routes are on existing pipeline routes and the flowlines shown above are the additional flowlines that are required.

Proposed Central Tank Battery Site

RED WASH OIL AND GAS FIELD



913 North Foster Road
Post Office Box 3280
Casper, Wyoming 82602
Telephone (307) 265-7331
Fax (307) 266-1999

RECEIVED

OCT 24 1985

DIVISION OF OIL
GAS & MINING



BHP
Petroleum
(Americas) Inc

September 17, 1985

Division of Oil, Gas, and Mining
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

*Broadhurst #6
75.23E.9*

Re: Corporate name change, ENERGY RESERVES GROUP, INC.

Gentlemen:

By authority of the enclosed copies and affidavit, please change your records to reflect the change of the name of ENERGY RESERVES GROUP, INC. to BHP Petroleum (Americas) Inc. for all former ERG operations in Utah.

Affected leases and numbers are as follows:

USA Pan American
Federal Lease #81-06579
(Utah entity #00220)

USA Pearl Broadhurst
Federal Lease #U-02651-A
(Utah entity #00225)

Roosevelt Unit - Wasatch
Federal Lease #I-109-IND-5248 and I-109-IND-5242
(Utah entity #00221)

If further information is needed, please contact me at the letterhead address or telephone number.

Thank you for your assistance.

BHP Petroleum (Americas) Inc.

Dale Belden
District Clerk
Rocky Mountain District

DB/mz

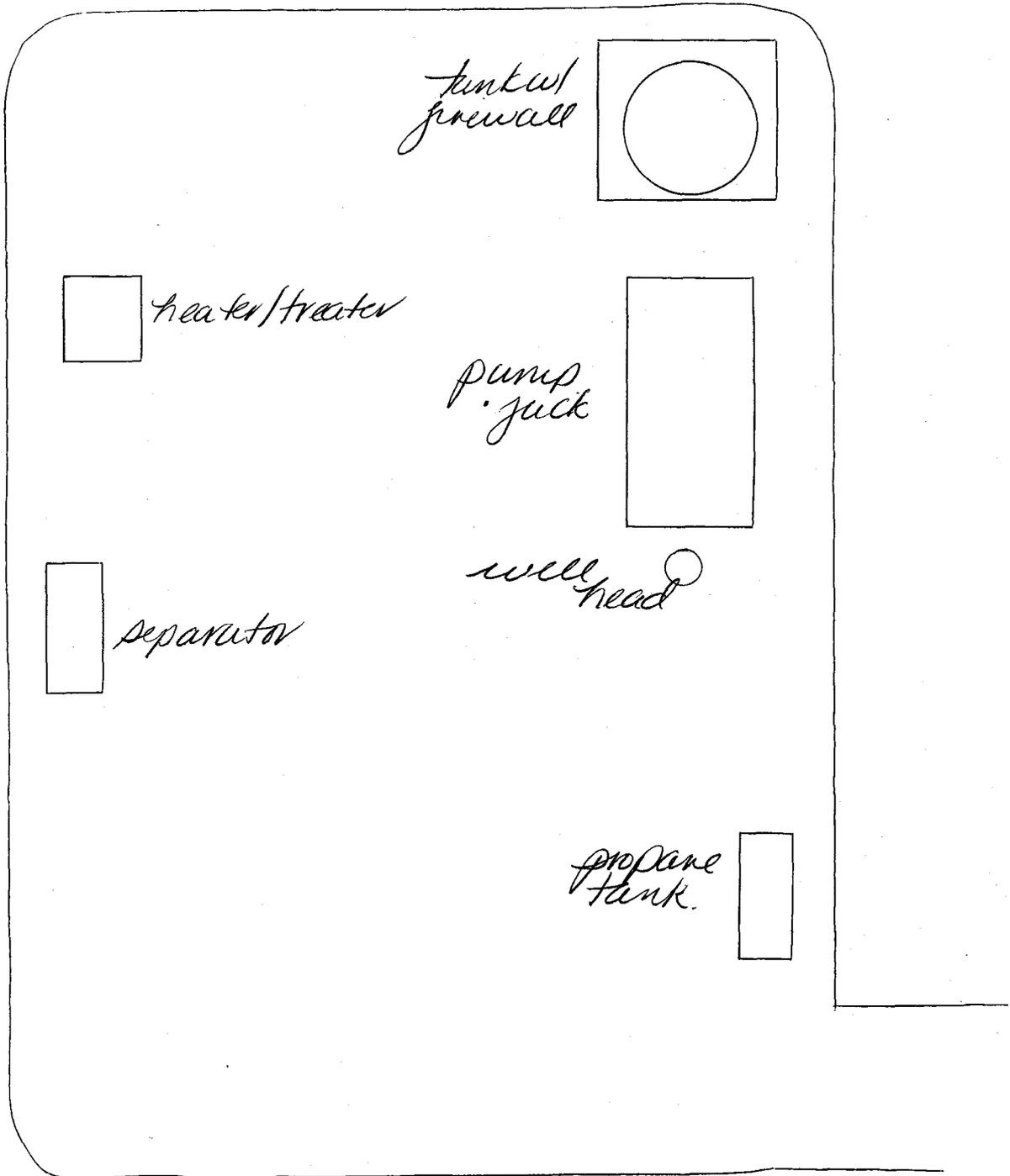
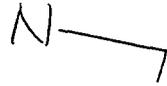
Enclosure

OCT 25 1985

Rural Broadhurst #6

Sec 7, 7 South, 23E

Hubby 9/28/88



42-381 50 SHEETS 3 SQUARE
42-382 100 SHEETS 3 SQUARE
42-383 200 SHEETS 3 SQUARE
MADE IN U.S.A.



GENERAL ATLANTIC

RESOURCES, INC.

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

June 14, 1993

RECEIVED

JUN 17 1993

State of Utah
Oil & Gas Conservation Commission
Three Triad Center, Suite 350
355 West North Temple
Salt Lake City, Utah 84180-1203

DIVISION OF
OIL, GAS & MINING

RE: Change of Operator
Sundry Notices and
Reports on Wells

Gentlemen:

By Assignment dated April 30, 1993, effective January 1, 1993, General Atlantic Resources, Inc. ("GARI") purchased the interests of BHP Petroleum (Americas) Inc., Hamilton Brothers Oil Company, Hamilton Brothers Exploration Company and The Norwegian Oil Corporation (DNP-U.S.) collectively ("BHP"), in the properties referenced on the enclosed forms. BHP was the designated operator of said properties, resigning effective May 1, 1993. GARI has been acting as the operator in the interim while balloting was being conducted to determine the successor operator.

GARI has been named successor operator. Enclosed are executed forms for your review and approval reflecting this change. In the event you have questions or concerns relative to this transfer of operatorship, please contact Jim Lee Wolfe, Vice President of Operations or the undersigned at the letterhead address and/or call (303) 573-5100. Thank you for your timely attention in this matter.

Very truly yours,

GENERAL ATLANTIC RESOURCES, INC.


Lynn D. Becker, CPL
Landman

Enclosures



STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

<p>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.)</p>		<p>5. LEASE DESIGNATION & SERIAL NO. SEE BELOW</p>
<p>1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></p>		<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p>
<p>2. NAME OF OPERATOR BHP Petroleum (Americas) Inc. (PREVIOUS OPERATOR)</p>		<p>7. UNIT AGREEMENT NAME SEE BELOW</p>
<p>3. ADDRESS OF OPERATOR 5847 San Felipe, Suite 3600, Houston, Texas 77057</p>		<p>8. FARM OR LEASE NAME</p>
<p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface Sections 9,10,13,18,19,20,21,23,25,26,27,28 At proposed prod. zone</p>		<p>9. WELL NO. SEE ATTACHED</p>
<p>10. FIELD AND POOL, OR WILDCAT</p>		<p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA</p>
<p>14. API NO.</p>	<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.)</p>	<p>12. COUNTY Utah</p>
		<p>13. STATE Utah</p>

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 type="checkbox"/>	(Other) <u>CHANGE OF OPERATOR</u> <input checked="" type="checkbox"/>	
APPROX. DATE WORK WILL START _____		DATE OF COMPLETION <u>5/01/93</u>	

(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.)

* Must be accompanied by a cement verification report.

EFFECTIVE DATE: January 1, 1993.
NEW OPERATOR: General Atlantic Resources, Inc.
ADDRESS: 410 17th Street, Suite 1400, Denver, Colorado 80202

LEASE: USA Pearl Broadhurst	LEASE #: UTU02651A
USA Pan American	UTSL065759
Roosevelt Unit Wasatch	892000886A

RECEIVED

JUN 17 1993

DIVISION OF
OIL GAS & MINING

Attached is a list of the wells which make up the above leases along with their respective API numbers. This method of ownership change was suggested by Lisha Romero, Division of Oil, Gas and Mining, Salt Lake City, Utah.

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

SIGNED Carl Kolbe TITLE Regulatory Off. Rep. DATE 4/27/93

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

<u>LEASE</u>	<u>WELL#</u>	<u>API NUMBER</u>
USA Pearl Broadhurst	1 — Sec 9 T75 R23E	43-047-15692
" " "	2 — 10	43-047-15693
" " "	4 — 9	43-047-15694
" " "	5 — 10	43-047-15695
" " "	6 — 9	43-047-30705
" " "	7 — 9	43-047-30730
" " "	8 — 10	43-047-30696
" " "	9 — 10	43-047-30787
" " "	10 — 9	43-047-30839
" " "	11 — 11	43-047-30840
" " "	12 — 10	43-047-30841
" " "	13 — 9	43-047-30842
" " "	14 — 9	43-047-30904
" " "	15 — 9	43-047-30901
" " "	16 — 10	43-047-30903
" " "	17 — 10	43-047-30905
" " "	18 — 9	43-047-30939
" " "	19 — 9	43-047-30940
" " "	20 — 9	43-047-30941
" " "	21 — 9	43-047-30942
" " "	22 — 10	43-047-31025
USA Pan American	1 — Sec 23 T55 R 22E	43-047-15682
" " "	2 — 26	43-047-15683
" " "	3 — 26	43-047-15684
" " "	4 — 22	43-047-15685
" " "	5 — 26	43-047-15686
" " "	6 — 26	43-047-15687
" " "	7 — 25	43-047-15688
" " "	8 — 22	43-047-15689
" " "	9 — 27	43-047-15690
" " "	10 — 22	43-047-15691
Roosevelt Unit Wasatch	5W — Sec 20 T15 1E	43-047-31254
" " "	6 — 20	43-047-31366
" " "	7 — 19	43-047-31402
" " "	9W — 28	43-047-31445
" " "	10W — 21	43-047-31446
" " "	C11 — 18	43-047-31500
" " "	Mary 278 13	43-047-31845

Form 3160-5
inc 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

SEP 20 1993

5. Lease Designation and Serial No.
USA U-02651-A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No. 6 (see at Pearl Broadhurst exhibit)

9. API Well No. 43-047-30705 (see att. exhibit A)

10. Field and Pool, or Exploratory Area

11. County or Parish, State
Uintah County, Utah

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
General Atlantic Resources, Inc. **DIVISION OF OIL, GAS & MINING**

3. Address and Telephone No.
410 17th Street, Suite 1400, Denver, Colorado 80202 (303) 573-5100

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
(See attached exhibit A)
Sections 9 and 10, Township 7 South-Range 23 East

CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>change of operator</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

13. 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 May 1, 1993 General Atlantic Resources, Inc. took over operations of the referenced well from BHP Petroleum (Americas) Inc.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by General Atlantic Resources, Inc. under their nationwide bond, BLM bond number C01023. They will be responsible for compliance under the lease terms and conditions for that portion of the lease associated with this notice.

VERNAL DIST.
ENG. 2/20/93

GEOL. _____

E.S. _____

PET. _____

A.M. _____

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

Signed [Signature] Title Lynn D. Becker Date August 20, 1993
Landman

(This space for Federal or State office use)

Approved by [Signature] Title ASSISTANT DISTRICT Date SEP 10 1993
MANAGER MINERALS

Conditions of approval, if any:

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.

*See instruction on Reverse Side

Routing:	
1-VEC/CL	<input checked="" type="checkbox"/>
2-DTS/67-SJ	<input checked="" type="checkbox"/>
3-VLC/8-FILE	<input checked="" type="checkbox"/>
4-RJE	<input checked="" type="checkbox"/>
5-LEW	<input checked="" type="checkbox"/>
6-PL	<input checked="" type="checkbox"/>

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold) Designation of Agent
 Designation of Operator Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 5-1-93)

TO (new operator)	<u>GENERAL ATLANTIC RES INC</u>	FROM (former operator)	<u>BHP PETROLEUM/AMERICAS INC</u>
(address)	<u>410 17TH ST #1400</u>	(address)	<u>5847 SAN FELIPE #3600</u>
	<u>DENVER, CO 80202</u>		<u>HOUSTON, TX 77057</u>
	<u>LYNN BECKER, LANDMAN</u>		<u>CARL KOLBE (713) 780-5301</u>
	phone <u>(303) 573-5100</u>		phone <u>(713) 780-5245</u>
	account no. <u>N 0910</u>		account no. <u>N 0390</u>

Well(s) (attach additional page if needed):

Name: USA PEARL BH #1/GRRV API: 43-047-15692 Entity: 225 Sec 9 Twp 7S Rng 23E Lease Type U02651A
Name: *USA PEARL BH #2/GRRV API: 43-047-15693 Entity: 225 Sec 10 Twp 7S Rng 23E Lease Type: " "
Name: USA PEARL BH #4/GRRV API: 43-047-15694 Entity: 225 Sec 9 Twp 7S Rng 23E Lease Type: " "
Name: *USA PEARL BH #5/GR & WS API: 43-047-15695 Entity: 225/914 Sec 10 Twp 7S Rng 23E Lease Type: " "
Name: BROADHURST #6/GRRV API: 43-047-30705 Entity: 225 Sec 9 Twp 7S Rng 23E Lease Type: " "
Name: BROADHURST #7/GRRV API: 43-047-30730 Entity: 225 Sec 9 Twp 7S Rng 23E Lease Type: " "
Name: BROADHURST #8/GRRV API: 43-047-30696 Entity: 225 Sec 10 Twp 7S Rng 23E Lease Type: " "
CONT.

OPERATOR CHANGE DOCUMENTATION

- 1 (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(rec'd 6-17-93)*
- 2 (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(rec'd 6-17-93)*
- 3 The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) If yes, show company file number: 1192898.
- 4 (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- 5 Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(9-28-93)*
- 6 Cardex file has been updated for each well listed above. *(9-28-93)*
- 7 Well file labels have been updated for each well listed above. *(9-28-93)*
- 8 Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(9-28-93)*
- 9 A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- Sec 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- Sec / N/A 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- 2. A copy of this form has been placed in the new and former operators' bond files.
- 3. The former operator has requested a release of liability from their bond (yes/no) . Today's date 19 . If yes, division response was made by letter dated 19 .

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated 19 , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
DJS 9-29-93
- N/A 2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

- 1. All attachments to this form have been microfilmed. Date: 10-12 1993.

FILING

- Sec 1. Copies of all attachments to this form have been filed in each well file.
- Sec 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

930920 B/L Annual Approved 9-10-93. (Lease 111102651-A Only) Other leases/wells will be handled on separate change.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

APRIL LAHNUM
GENERAL ATLANTIC RES INC
410 17TH ST STE 1400
DENVER CO 80202

UTAH ACCOUNT NUMBER: N0910

REPORT PERIOD (MONTH/YEAR): 12 / 94

AMENDED REPORT (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
✓ USA PEARL BROADHURST #1								
4304715692	00225	07S 23E 9	GRRV			U02651-A		
✓ USA PEARL BROADHURST #4						"		
4304715694	00225	07S 23E 9	GRRV			"		
✓ BROADHURST #8						"		
4304730696	00225	07S 23E 10	GRRV			"		
✓ BROADHURST #6						"		
4304730705	00225	07S 23E 9	GRRV			"		
✓ BROADHURST #7						"		
4304730730	00225	07S 23E 9	GRRV			"		
✓ BROADHURST #9						U02651		
4304730787	00225	07S 23E 10	GRRV			U02651		
✓ PEARL BROADHURST 10						U02651-A		
4304730839	00225	07S 23E 9	GRRV			U02651-A		
✓ PEARL BROADHURST 11						"		
4304730840	00225	07S 23E 10	GRRV			"		
✓ PEARL BROADHURST #12						"		
4304730841	00225	07S 23E 10	GRRV			"		
✓ PEARL BROADHURST #13						"		
4304730842	00225	07S 23E 9	GRRV			"		
✓ BROADHURST #15						"		
4304730901	00225	07S 23E 9	GRRV			"		
✓ BROADHURST #16						"		
4304730903	00225	07S 23E 10	GRRV			"		
✓ BROADHURST #14						"		
4304730904	00225	07S 23E 9	GRRV			"		
TOTALS								

COMMENTS: _____

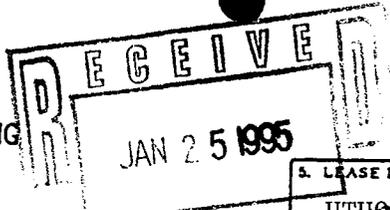
I hereby certify that this report is true and complete to the best of my knowledge.

Date: _____

Name and Signature: _____

Telephone Number: _____

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING



5. LEASE DESIGNATION & SERIAL NO.

UTMNO2651A

SUNDRY NOTICES AND REPORTS ON WELLS-OIL, GAS & MINERAL

(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.)

6. IF INDIAN ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

USA Pearl Broadhurst

9. WELL NO.

(see attached exhibit A)

10. FIELD AND POOL, OR WILDCAT

Green River

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

Sec 9 & 10, T7S, R23E

12. COUNTY

Uintah

13. STATE

UT

14. API NO.

(see att. exhibit A)

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

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) Change of Operator

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

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

APPROX. DATE WORK WILL START _____

DATE OF COMPLETION _____

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.)

* Must be accompanied by a cement verification report.

On November 15, 1994, General Atlantic Resources, Inc. merged into UMC Petroleum Corporation. (See enclosed certificate of merger.)

UMC Petroleum Corporation will begin operating the referenced lease on January 1, 1995.

Bond coverage for lease activities is being provided by UMC Petroleum Corporation under their nationwide bond, BLM bond number B01843.

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

SIGNED

April J.M. Lahnum

TITLE

April J.M. Lahnum
Production Technician

DATE

January 20, 1995

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

GENERAL ATLANTIC RESOURCES, INC. - Well Location Report
 Report Date: 01-18-1995 - Page 1
 Reporting Field WALKER HOLLOW

EXHIBIT "A"

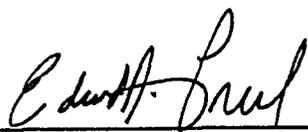
Utah Production	PRAMS I.D.	Company Identification #	State I.D.#	API Number	Lease Name/Number	Formation	Qtr/Qtr	Sec.	Twp.	Rge	County	Operator
<u>WALKER HOLLOW Field</u>												
PEARL BROADHURST #1	PEARL1	UT-017-01-001	00225	43-047-15692-00	UTU02651A	GREEN RIVER	NESE	9	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #10	PEARL10	UT-017-01-009	00225	43-047-30839-00	UTU02651A	GREEN RIVER	NWSW	9	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #11	PEARL11	UT-017-01-010	00225	43-047-30840-00	UTU02651A	GREEN RIVER	NWNE	10	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #12	PEARL12	UT-017-01-011	00225	43-047-30841-00	UTU02651A	GREEN RIVER	NWNW	10	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #13	PEARL13	UT-017-01-012	00225	43-047-30842-00	UTU02651A	GREEN RIVER	NENE	9	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #14	PEARL14	UT-017-01-013	00225	43-047-30904-00	UTU02651A	GREEN RIVER	SENE	9	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #15	PEARL15	UT-017-01-014	00225	43-047-30901-00	UTU02651A	GREEN RIVER	SESE	9	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #16	PEARL16	UT-017-01-015	00225	43-047-30903-00	UTU02651A	GREEN RIVER	NWSW	10	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #17	PEARL17	UT-017-01-016	00225	43-047-30905-00	UTU02651A	GREEN RIVER	SENW	10	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #18	PEARL18	UT-017-01-017	00225	43-047-30939-00	UTU02651A	GREEN RIVER	NWNE	9	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #19	PEARL19	UT-017-01-018	00225	43-047-30940-00	UTU02651A	GREEN RIVER	NWNE	9	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #2 (wtw)	PEARL2	UT-017-01-002	00225	43-047-15693-00	UTU02651A	GREEN RIVER	SWNW	10	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #20	PEARL20	UT-017-01-019	00225	43-047-30941-00	UTU02651A	GREEN RIVER	SESW	9	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #21	PEARL21	UT-017-01-020	00225	43-047-30942-00	UTU02651A	GREEN RIVER	SESW	9	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #22	PEARL22	UT-017-01-021	00225	43-047-31025-00	UTU02651A	GREEN RIVER	SESW	10	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #4	PEARL4	UT-017-01-003	00225	43-047-15694-00	UTU02651A	GREEN RIVER	SWSE	9	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #5 (wtw)	PEARL5A	UT-017-01-004	00225	43-047-15695-00	UTU02651A	GREEN RIVER	SWSW	10	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #6	PEARL6	UT-017-01-005	00225	43-047-30705-00	UTU02651A	GREEN RIVER	NESW	9	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #7	PEARL7	UT-017-01-006	00225	43-047-30730-00	UTU02651A	GREEN RIVER	SWSW	9	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #8	PEARL8	UT-017-01-007	00225	43-047-30696-00	UTU02651A	GREEN RIVER	NESW	10	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #9	PEARL9	UT-017-01-008	00225	43-047-30787-00	UTU02651A	GREEN RIVER	NENW	10	7S	23E	UINTAH	GARI-BHP

State of Delaware
Office of the Secretary of State PAGE 1

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"GENERAL ATLANTIC RESOURCES, INC.", A DELAWARE CORPORATION, WITH AND INTO "UMC PETROLEUM CORPORATION" UNDER THE NAME OF "UMC PETROLEUM CORPORATION", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE FIFTEENTH DAY OF NOVEMBER, A.D. 1994, AT 11:10 O'CLOCK A.M.





Edward J. Freel, Secretary of State

AUTHENTICATION:

2257442 8100M

DATE: 7306080

944221473

11-17-94

CERTIFICATE OF MERGER

OF

**GENERAL ATLANTIC RESOURCES, INC.,
A DELAWARE CORPORATION**

AND

**UMC PETROLEUM CORPORATION,
A DELAWARE CORPORATION**

UMC Petroleum Corporation, a Delaware corporation, certifies that:

1. Constituent Corporations. The constituent business corporations participating in the merger herein certified are:

(a) General Atlantic Resources, Inc., which is incorporated under the laws of the State of Delaware; and

(b) UMC Petroleum Corporation, which is incorporated under the laws of the State of Delaware.

2. Approval of Agreement and Plan of Merger. An Agreement and Plan of Merger dated as of August 9, 1994 ("Agreement and Plan of Merger"), has been approved, adopted, certified, executed and acknowledged by each of the aforesaid constituent corporations in accordance with the provisions of Section 251 of the General Corporation Law of the State of Delaware.

3. Surviving Corporation. The surviving corporation (the "Surviving Corporation") in the merger herein certified is UMC Petroleum Corporation, a Delaware corporation.

4. Certificate of Incorporation. The certificate of incorporation of UMC Petroleum Corporation, a Delaware corporation, shall be the certificate of incorporation of the Surviving Corporation, except that Article 4 thereof is hereby amended and restated in its entirety as follows:

1. Authorized Shares. The total authorized capital stock of the corporation shall consist of Common Stock. The aggregate number of shares of Common Stock that the corporation shall have authority to issue is three thousand (3,000) with the par value of one cent (\$.01) per share.

5. Agreement and Plan of Merger on File. The executed Agreement and Plan of Merger is on file at the principal place of business of the Surviving Corporation, the address

of which as of the date hereof is as follows:

1201 Louisiana Street
Suite 1400
Houston, Texas 77002

6. Copies of Agreement and Plan of Merger. A copy of the Agreement and Plan of Merger will be furnished by the Surviving Corporation, on request and without cost, to any stockholder of any of the aforesaid constituent corporations.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Merger on behalf of UMC Petroleum Corporation on this 15th day of November, 1994.

UMC PETROLEUM CORPORATION, a Delaware corporation

By:
Name:
Title:

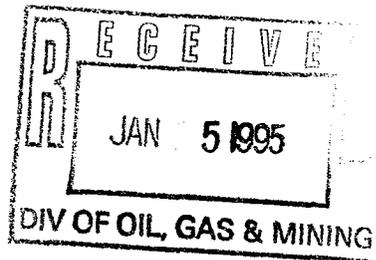

John B. Brock
President and Chief Executive Officer

Attest:

By:
Name:
Title:


Marya Ingram
Corporate Secretary

UMC Petroleum Corporation



January 23, 1995

State of Utah
Division of Oil, Gas and Mining
3 Triad Center, #350
Salt Lake City, Utah 84180-1203

Re: Change of Operator

Gentlemen,

On November 15, 1994, General Atlantic Resources, Inc. merged into UMC Petroleum Corporation. Enclosed please find a copy of the certificate of merger as well as State of Utah Form 9 with an attachment listing all wells and their locations.

UMC Petroleum Corporation will be operating these wells effective January 1, 1995. If there are any questions or you require additional information, please contact the undersigned at (303) 573-4732.

Sincerely,

UMC PETROLEUM CORPORATION



April J.M. Lahnum
Production Technician

ajml

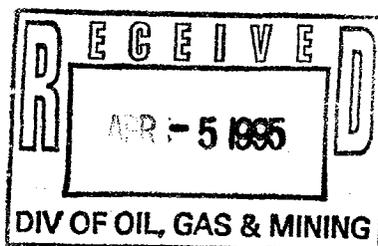
{LETTERS/utah}

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3100
U-02651A et al
(UT-923)



MAR 24 1995

NOTICE

UMC Petroleum Corporation	:	Oil and Gas
1201 Louisiana, Suite 1400	:	U-02651A, U-51411,
Houston, Texas 77002-5603	:	U-55626, U-58530

Merger Recognized

Acceptable evidence has been filed in this office concerning the merger of General Atlantic Resources, Inc. into UMC Petroleum Corporation with UMC Petroleum Corporation being the surviving entity.

For our purposes, the merger is recognized effective November 15, 1994.

The oil and gas lease files identified above have been noted as to the merger. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice.

A rider to UMC's bond (BLM Bond No. NM1773) assuming the liability accrued under General's bond (BLM Bond No. CO1023) was accepted effective March 7, 1995, the date the rider was filed.

/s/ ROBERT LOPEZ

Chief, Branch of Mineral
Leasing Adjudication

bc: Vernal District Office
Moab District Office
MMS—Data Management Division, MS 3113, P.O. Box 5860, Denver, CO 80217
UT-922 (Teresa Thompson)
Lisha Cordova, State of Utah, Division of Oil, Gas, and Mining, 3 Triad Center,
Suite 350, Salt Lake City, Utah 84189-1204

DOGMT

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
 UMC Petroleum Corporation

3. Address and Telephone No.
 410 17th Street, Suite 1400, Denver, CO 80202 (303) 573-5100

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
 (see attachment)

RECEIVED
MAR 29 1995

5. Lease Designation and Serial No.
 6. If Indian, Allottee or Tribe Name
 7. If Unit or CA, Agreement Designation
 UTU02651A
 8. Well Name and No.
 Pearl Broadhurst
 9. API Well No.
 (see attachment)
 10. Field and Pool, or Exploratory Area
 Walker Hollow
 11. County or Parish, State
 Uintah, UT

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Change of Operator</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

13. 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 November 15, 1994, General Atlantic Resources, Inc. merged with UMC Petroleum Corporation (See enclosed certificate of merger.)

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by UMC Petroleum Corporation under their nationwide bond, B01843. They will be responsible for compliance under the lease terms and conditions for that portion of the lease associated with this notice.

Attachment lists all wells associated with the referenced agreement number, their location, and API well numbers.

RECEIVED
APR 07 1995
E.S.
DIV OF OIL, GAS & MINING
A.M.

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

Signed April J.M. Lahnum Title Production Technician Date March 15, 1995

(This space for Federal or State Office Use)

Approved by _____ Title _____ Date APR 06 1995

Conditions of approval, if any:

NOTED

State I.D.#	API Number	Lease Name/Number	Formation	Qtr/Qtr	Sec.	Twp.	Rge	County
Utah Production								
<u>WALKER HOLLOW Field</u>								
PEARL BROADHURST #1	00225	43-047-15692-00	UTU02651A	GREEN RIVER	NESE	9	7S 23E	UINTAH
PEARL BROADHURST #10	00225	43-047-30839-00	UTU02651A	GREEN RIVER	NWSW	9	7S 23E	UINTAH
PEARL BROADHURST #11	00225	43-047-30840-00	UTU02651A	GREEN RIVER	NWNE	10	7S 23E	UINTAH
PEARL BROADHURST #12	00225	43-047-30841-00	UTU02651A	GREEN RIVER	NWNW	10	7S 23E	UINTAH
PEARL BROADHURST #13	00225	43-047-30842-00	UTU02651A	GREEN RIVER	NENE	9	7S 23E	UINTAH
PEARL BROADHURST #14	00225	43-047-30904-00	UTU02651A	GREEN RIVER	SENE	9	7S 23E	UINTAH
PEARL BROADHURST #15	00225	43-047-30901-00	UTU02651A	GREEN RIVER	SESE	9	7S 23E	UINTAH
PEARL BROADHURST #16	00225	43-047-30903-00	UTU02651A	GREEN RIVER	NWSW	10	7S 23E	UINTAH
PEARL BROADHURST #17	00225	43-047-30905-00	UTU02651A	GREEN RIVER	SENE	10	7S 23E	UINTAH
PEARL BROADHURST #18	00225	43-047-30939-00	UTU02651A	GREEN RIVER	NWNE	9	7S 23E	UINTAH
PEARL BROADHURST #19	00225	43-047-30940-00	UTU02651A	GREEN RIVER	NWNE	9	7S 23E	UINTAH
PEARL BROADHURST #2	00225	43-047-15693-00	UTU02651A	GREEN RIVER	SWNW	10	7S 23E	UINTAH
PEARL BROADHURST #20	00225	43-047-30941-00	UTU02651A	GREEN RIVER	SESW	9	7S 23E	UINTAH
PEARL BROADHURST #21	00225	43-047-30942-00	UTU02651A	GREEN RIVER	SESW	9	7S 23E	UINTAH
PEARL BROADHURST #22	00225	43-047-31025-00	UTU02651A	GREEN RIVER	SESW	10	7S 23E	UINTAH
PEARL BROADHURST #4	00225	43-047-15694-00	UTU02651A	GREEN RIVER	SWSE	9	7S 23E	UINTAH
PEARL BROADHURST #5	00225	43-047-15695-00	UTU02651A	GREEN RIVER	SWSW	10	7S 23E	UINTAH
PEARL BROADHURST #6	00225	43-047-30705-00	UTU02651A	GREEN RIVER	NESW	9	7S 23E	UINTAH
PEARL BROADHURST #7	00225	43-047-30730-00	UTU02651A	GREEN RIVER	SWSW	9	7S 23E	UINTAH
PEARL BROADHURST #8	00225	43-047-30696-00	UTU02651A	GREEN RIVER	NESW	10	7S 23E	UINTAH
PEARL BROADHURST #9	00225	43-047-30787-00	UTU02651A	GREEN RIVER	NENW	10	7S 23E	UINTAH

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1- SP GIL
2-LWP 7-SJ ✓
3-DTS 8-PL ✓
4-VLC 9-FILE
5-RJF ✓
6-LWP ✓

Attach all documentation received by the division regarding this change.
 Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (MERGER) Designation of Agent
 Designation of Operator Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 11-15-94)

TO (new operator)	<u>UMC PETROLEUM CORPORATION</u>	FROM (former operator)	<u>GENERAL ATLANTIC RES INC</u>
(address)	<u>410 17TH ST STE 1400</u>	(address)	<u>410 17TH ST STE 1400</u>
	<u>DENVER CO 80202</u>		<u>DENVER CO 80202</u>
	<u>APRIL LAHNUM (915)683-3003</u>		<u>APRIL LAHNUM</u>
	phone <u>(303) 573-5100</u>		phone <u>(303) 573-5100</u>
	account no. <u>N9215</u>		account no. <u>N0910</u>

Well(s) (attach additional page if needed):

Name: <u>**SEE ATTACHED**</u>	API: <u>4304730705</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- See 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Rec'd 1-25-95)*
- See 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec'd 1-25-95)*
- See 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: #152682. *(eff. 6/91)*
- See 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- See 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(4-6-95)*
- Sup 6. Cardex file has been updated for each well listed above. *4-18-95*
- Sup 7. Well file labels have been updated for each well listed above. *4-18-95*
- See 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(4-6-95)*
- See 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes no) (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- 2. A copy of this form has been placed in the new and former operators' bond files.
- 3. The former operator has requested a release of liability from their bond (yes/no) _____. Today's date _____ 19____. If yes, division response was made by letter dated _____ 19____.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated _____ 19____, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
 DTJ 4/18/95
- 2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

- 1. All attachments to this form have been microfilmed. Date: May 2 1995.

FILING

- 1. Copies of all attachments to this form have been filed in each well file.
- 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

950131 Reg. 410 F5 (27 wells)

9502 Trust Lands Admin. "accepted merger"

950324 Btm/54 Appv. eff. 11-15-94

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

LORETTA A MURPHY
 UMC PETROLEUM CORPORATION
 PO BOX 549
 NEWCASTLE WY 82701-0549

UTAH ACCOUNT NUMBER: N9215

REPORT PERIOD (MONTH/YEAR): 6 / 98

AMENDED REPORT (Highlight Changes)

Well Name API Number	Entity	Location	Producing Zone	Well Status	Days Oper	Production Volumes		
						OIL(BBL)	GAS(MCF)	WATER(BBL)
USA PEARL BROADHURST #1 4304715692	00225	07S 23E 9	GRRV			U-02651-A		
USA PEARL BROADHURST #4 4304715694	00225	07S 23E 9	GRRV			U-02651-A		
BROADHURST #8 4304730696	00225	07S 23E 10	GRRV			"		
BROADHURST #6 4304730705	00225	07S 23E 9	GRRV			"		
BROADHURST #7 4304730730	00225	07S 23E 9	GRRV			"		
BROADHURST #9 4304730787	00225	07S 23E 10	GRRV			U-02651		
PEARL BROADHURST 10 4304730839	00225	07S 23E 9	GRRV			U-02651-A		
PEARL BROADHURST 11 4304730840	00225	07S 23E 10	GRRV			"		
PEARL BROADHURST #12 4304730841	00225	07S 23E 10	GRRV			"		
PEARL BROADHURST #13 4304730842	00225	07S 23E 9	GRRV			"		
BROADHURST #15 4304730901	00225	07S 23E 9	GRRV			"		
BROADHURST #16 4304730903	00225	07S 23E 10	GRRV			"		
BROADHURST #17 4304730905	00225	07S 23E 10	GRRV			"		
TOTALS								

COMMENTS: _____

I hereby certify that this report is true and complete to the best of my knowledge. Date: _____
 Name and Signature: _____ Telephone Number: _____

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

LORETTA A MURPHY
 UMC PETROLEUM CORPORATION
 PO BOX 549
 NEWCASTLE WY 82701-0549

UTAH ACCOUNT NUMBER: N9215

REPORT PERIOD (MONTH/YEAR): 6 / 98

AMENDED REPORT (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
BROADHURST #18			GRRV			<i>N-02651-A</i>		
4304730939	00225	07S 23E 9						
PEARL BROADHURST 19								
4304730940	00225	07S 23E 9						
BROADHURST #20								
4304730941	00225	07S 23E 9						
BROADHURST #21			GRRV			"		
4304730942	00225	07S 23E 9						
PEARL BROADHURST 22								
4304731025	00225	07S 23E 10						
TOTALS								

COMMENTS: _____

I hereby certify that this report is true and complete to the best of my knowledge.

Date: _____

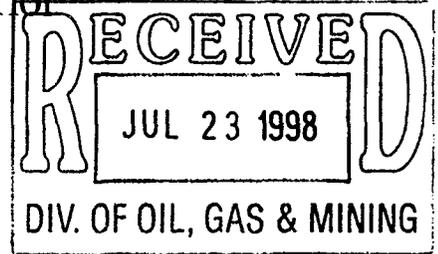
Name and Signature: _____

Telephone Number: _____



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155



In Reply Refer To:
3100
U-02651A et al
(UT-932)

JUL 21 1998

NOTICE

Ocean Energy, Inc.	:	Oil and Gas: U-02651A, U-
1201 Louisiana, Suite 1400	:	U-09712A, U-020691A, U-8894A,
Houston, TX 77002-5603	:	U-8895A, U-8897A, U-40401, U-64058
(713) 654-9110		

Merger Recognized

Acceptable evidence has been filed in this office concerning the merger of UMC Petroleum Corporation into Ocean Energy, Inc. with Ocean Energy, Inc. being the surviving entity.

For our purposes, the merger is recognized effective May 15, 1998, the effective date set by the New Mexico State Office.

The oil and gas lease files identified above have been noted as to the merger. The list was compiled from your list of leases, and a list of leases obtained from our Automated Land and Mineral Record System (ALMRS). We have not abstracted the lease files to determine if the entity affected by the merger holds an interest in the leases identified nor have we attempted to identify leases where the entity is the operator on the ground maintaining no vested record title or operating rights interests. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

By recognition of the merger, the principal is automatically changed by operation of law from UMC Petroleum Corporation to Ocean Energy, Inc. on Bond No. BO1843 (BLM Bond No. NM1773). A rider amending the principal's name from UMC Petroleum Corporation to Ocean Energy, Inc. has been filed in the New Mexico State Office, examined, and found to be satisfactory.

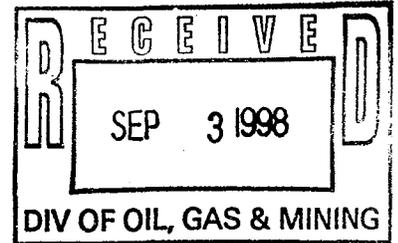
ROBERT LOPEZ
Robert Lopez
Group Leader,
Minerals Adjudication Group

cc: Moab District Office
Vernal Field Office
MMS-Reference Data Branch, MS 3130, P.O. Box 5860, Denver, CO 80217
State of Utah, DOGM, Attn: Lisha Cordova (Ste. 1210) P.O. Box 145801, SLC, UT 84114



September 2, 1998

Lisha Cordova
Utah Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84114-5801



RE: Merger of UMC Petroleum Corporation and Ocean Energy, Inc.
Pearl Broadhurst #2, #4, #5 & #14.

Dear Ms. Cordova:

Effective April 1, 1998, UMC Petroleum Corporation merged with Ocean Energy, Inc. Effective June 30, 1998, all onshore wells were transferred to its wholly owned subsidiary, Ocean Energy Resources, Inc. Enclosed is the requested UIC Form 5's for the subject change of operation for the original merger and the subsequent re-organization in June 30 1998. All wells previously operated by UMC Petroleum in Utah are now operated by Ocean Energy Resources, Inc.

There has been no change in personnel with whom you are already familiar. Furthermore, the address for all notices, revenues and remittances, notifications and general correspondence remains the same:

Ocean Energy, Resources, Inc.
410 17th Street, Suite 1400
Denver, Colorado 80202

Please distribute this notice to any other applicable departments within your organization that should be aware of this change.

If you have any questions, please feel free to contact the undersigned at (303) 573-4721.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott M. Webb".

Scott M. Webb
Regulatory Coordinator

UNITED STATES OF AMERICA

State of



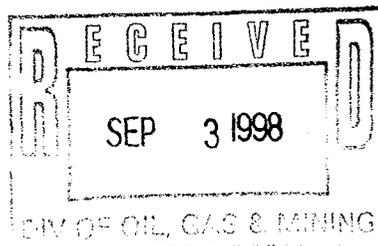
Louisiana

Box McKeithen

SECRETARY OF STATE

As Secretary of State, of the State of Louisiana, I do hereby Certify that

the annexed and following is a True and Correct copy of a Merger as shown by comparison with document filed and recorded in this Office on March 27, 1998.



In testimony whereof, I have hereunto set my hand and caused the Seal of my Office to be affixed at the City of Baton Rouge on,

April 17 1998

Box McKeithen

CGR

Secretary of State



CERTIFICATE OF MERGER

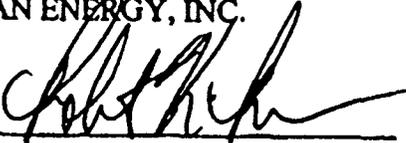
of
UMC Petroleum Corporation, a Delaware corporation
into
Ocean Energy, Inc., a Louisiana corporation

Pursuant to Section 112 of the Louisiana Business Corporation Law (the "LBCL"), Ocean Energy, Inc., a Louisiana corporation ("OEI"), hereby adopts the following Certificate of Merger regarding the merger (the "Merger") of UMC Petroleum Corporation, a Delaware corporation ("UMCPC" and, together with OEI, the "Constituent Corporations"), with and into OEI, with OEI as the surviving corporation (the "Surviving Corporation").

1. Ocean Energy, Inc., a Louisiana corporation, and UMC Petroleum Corporation, a Delaware corporation, are the parties to the Merger.
2. The Agreement and Plan of Merger, dated March 27, 1998 (the "Merger Agreement"), has been approved, adopted, certified, executed and acknowledged by the Constituent Corporations in accordance with Section 112 of the LBCL.
3. The Merger is effective at 3:02 p.m., Central Standard Time, on March 27, 1998.
4. The name of the Surviving Corporation shall be Ocean Energy, Inc.
5. Article III of the Articles of Incorporation of Ocean Energy, Inc. is amended in connection with the Merger to increase the authorized capital of the Surviving Corporation and, as a result of the amendment, Article III shall be and read as follows: *The aggregate number of shares which the corporation shall have authority to issue is 3,000 shares without par value, all of which shares shall be of one class and shall be designated as Common Stock*. The Articles of Incorporation of the Surviving Corporation as amended by the amendment to Article III shall be its articles of incorporation.
6. The executed Merger Agreement is on file at the principal place of business of the Surviving Corporation, 1201 Louisiana, Suite 1400, Houston, Texas 77002.
7. A copy of the Merger Agreement will be furnished by the Surviving Corporation, on request and without cost, to any shareholder of UMC Petroleum Corporation or Ocean Energy, Inc., the parties to the Merger.

This Certificate of Merger is dated this 27th day of March, 1998.

OCEAN ENERGY, INC.

By: 

Name: Robert K. Reeves

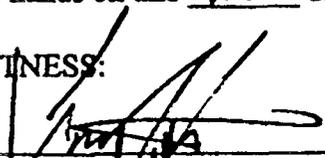
Title: Executive Vice President,
General Counsel and Secretary

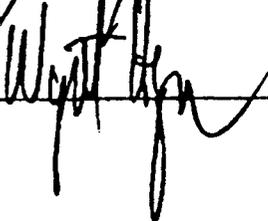
STATE OF TEXAS §
 §
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, personally came and appeared Robert K. Reeves, who being duly sworn, declared and acknowledged before me that he is the Executive Vice President, General Counsel and Secretary of Ocean Energy, Inc., a Louisiana corporation, and acknowledged to me that he was authorized to and executed the foregoing Certificate of Merger of UMC Petroleum Corporation into Ocean Energy, Inc. in such capacity for the purposes therein expressed, and as his, and said corporation's free act and deed.

IN WITNESS WHEREOF, the said appearer, witnesses and I, notary, have hereunto affixed our hands on this 27th day of March, 1998 at Houston, Texas.

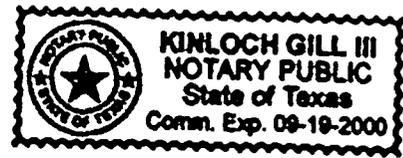
WITNESS:

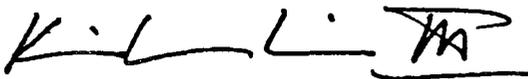






Robert K. Reeves



Notary Public in and for
the State of Texas


State of Delaware
Office of the Secretary of State

PAGE 1

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"UMC PETROLEUM CORPORATION", A DELAWARE CORPORATION,
WITH AND INTO "OCEAN ENERGY, INC." UNDER THE NAME OF "OCEAN ENERGY, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF LOUISIANA, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTY-SEVENTH DAY OF MARCH, A.D. 1998, AT 12:22 O'CLOCK P.M.



Edward J. Freel

Edward J. Freel, Secretary of State

2257442 8100M

981130659

AUTHENTICATION: 9012828

DATE: 04-06-98

CERTIFICATE OF MERGER

Merger of UMC Petroleum Corporation, a Delaware corporation
With and Into
Ocean Energy, Inc., a Louisiana corporation

Pursuant to the Provisions of Section 252 of the Delaware General Corporation Law, the undersigned certifies as follows concerning the merger (the "Merger") of UMC Petroleum Corporation, a Delaware corporation, with and into Ocean Energy, Inc., a Louisiana corporation (together with UMC Petroleum Corporation, the "Constituent Corporations"), with Ocean Energy, Inc. as the surviving corporation (the "Surviving Corporation").

1. The Agreement and Plan of Merger, dated March 27, 1998 (the "Merger Agreement"), has been approved, adopted, certified, executed and acknowledged by the Constituent Corporations in accordance with Section 252 of the Delaware General Corporation Law.

2. The Merger contemplated in the Merger Agreement and this Certificate of Merger will be effective at 3:02 p.m., Central Standard Time, on March 27, 1998.

3. The name of the Surviving Corporation shall be Ocean Energy, Inc.

4. Article III of the Articles of Incorporation of Ocean Energy, Inc. is amended in connection with the Merger to increase the authorized capital of the Surviving Corporation and, as a result of the amendment, Article III shall be and read as follows: *The aggregate number of shares which the corporation shall have authority to issue is 3,000 shares without par value, all of which shares shall be of one class and shall be designated as Common Stock.* The Articles of Incorporation of the Surviving Corporation as amended by the amendment to Article III shall be its articles of incorporation.

5. The executed Merger Agreement is on file at the principal place of business of the Surviving Corporation, 1201 Louisiana, Suite 1400, Houston, Texas 77002.

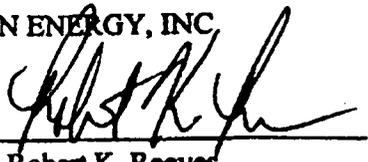
6. A copy of the Merger Agreement will be furnished by the Surviving Corporation, on request and without cost, to any stockholder of UMC Petroleum Corporation or Ocean Energy, Inc.

7. The Surviving Corporation may be served with process in the State of Delaware in any proceeding for enforcement of any obligation of the Constituent Corporations, as well as for enforcement of any obligation of the Surviving Corporation arising from the Merger, including any suit or other proceeding to enforce the right of any stockholder as determined in appraisal proceedings pursuant to the provisions of Section 262 of the Delaware General Corporation Law, and the Surviving Corporation does hereby irrevocably appoint the Secretary of State of

Delaware as its agent to accept service of process in any such suit or other proceedings. The address to which a copy of such process shall be mailed by the Secretary of State of Delaware is c/o Ocean Energy, Inc., 1201 Louisiana, Suite 1400, Houston, Texas 77002, Attention: Secretary, until the Surviving Corporation shall have hereafter designated in writing to the Secretary of State of Delaware a different address for such purpose.

Dated this 27th day of March, 1998.

OCEAN ENERGY, INC.

By: 

Name: Robert K. Reeves

Title: Executive Vice President,
General Counsel and Secretary

OPERATOR CHANGE WORKSHEET

Routing	
1- JEM	6- JEC KRV
2- GLH	7- KAS
3- DTS	8- SI
4- VLD CDW	9- FILE
5- JRB	

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold) Designation of Agent
 Designation of Operator Operator Name Change Only

The operator of the well(s) listed below has changed, effective: 4-1-98 (MERGER)

TO: (new operator)	<u>OCEAN ENERGY INC</u>	FROM: (old operator)	<u>UMC PETROLEUM CORPORATION</u>
(address)	<u>PO BOX 549</u>	(address)	<u>PO BOX 549</u>
	<u>NEWCASTLE WY 82701-0549</u>		<u>NEWCASTLE WY 82701-0549</u>
	Phone: <u>(307) 746-4052</u>		Phone: <u>(307) 746-4052</u>
	Account no. <u>N3220 (7-31-98)</u>		Account no. <u>N9215</u>

WELL(S) attach additional page if needed:

Name: **SEE ATTACHED**	API: <u>43,147,30705</u>	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

OPERATOR CHANGE DOCUMENTATION

- lec 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form). (rec'd 9-3-98)
- lec 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). (rec'd 9-3-98)
- lec 3. The **Department of Commerce** has been contacted if the new operator above is not currently operating any wells in Utah. Is the company **registered with the state?** (yes/no) yes If yes, show company file number: Co 209299. (eff. 3-23-98)
- lec 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of **Federal** and **Indian** well operator changes should ordinarily take place prior to the division's approval, and before the completion of **steps 5 through 9** below.
- lec 5. Changes have been entered in the **Oil and Gas Information System (3270)** for each well listed above. (7-31-98) X UIC Query E. DBASE
- chl 6. **Cardex** file has been updated for each well listed above. (8-3-98)
- chl 7. Well **file labels** have been updated for each well listed above. (8-3-98)
- lec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" **memo** for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. (7-31-98)
- lec 9. A folder has been set up for the **Operator Change file**, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- Lee 1. (r649-8-7) **Entity assignments have been reviewed** for all wells listed above. Were entity changes made? (yes/no) ____ If entity assignments were changed, attach copies of Form 6, Entity Action Form.
- N/A/lee 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been **notified** through normal procedures of entity changes.

BOND VERIFICATION - (FEE WELLS ONLY)

- N/A/lee 1. (r649-3-1) The **NEW** operator of any fee lease well listed above has furnished a proper bond.
- ___ 2. A **copy of this form** has been placed in the new and former operator's bond files.
- ___ 3. The **FORMER** operator has requested a release of liability from their bond (yes/no) ____, as of today's date _____. If yes, division response was made to this request by letter dated _____.

LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

- N/A/lee 1. Copies of documents have been sent on _____ to _____ at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
- N/A/lee 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated _____ 19 ____, of their responsibility to notify all interest owners of this change.

FILMING

- B 1. All attachments to this form have been **microfilmed**. Today's date: 12.8.98.

FILING

- ___ 1. **Copies** of all attachments to this form have been filed in each **well file**.
- ___ 2. The **original of this form**, and the **original attachments** are now being filed in the Operator Change file.

COMMENTS

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

UTAH ACCOUNT NUMBER: N3220

LORETTA A MURPHY
 OCEAN ENERGY INC
 PO BOX 549
 NEWCASTLE WY 82701-0549

REPORT PERIOD (MONTH/YEAR): 12 / 98

AMENDED REPORT (Highlight Changes)

Well Name API Number Entity Location	Producing Zone	Well Status	Days Oper	Production Volumes		
				OIL(BBL)	GAS(MCF)	WATER(BBL)
USA PEARL BROADHURST 1 4304715692 00225 07S 23E 9	GRRV			U-02651-A		
USA PEARL BROADHURST 4 4304715694 00225 07S 23E 9	GRRV			U-02651-A	* per Sunday W1W	
BROADHURST 8 4304730696 00225 07S 23E 10	GRRV			U-02651-A		
BROADHURST 6 4304730705 00225 07S 23E 9	GRRV			U-02651-A		
BROADHURST 7 4304730730 00225 07S 23E 9	GRRV			U-02651-A		
BROADHURST 9 4304730787 00225 07S 23E 10	GRRV			U-02651		
PEARL BROADHURST 10 4304730839 00225 07S 23E 9	GRRV			U-02651-A		
PEARL BROADHURST 11 4304730840 00225 07S 23E 10	GRRV			U-02651-A		
PEARL BROADHURST 12 4304730841 00225 07S 23E 10	GRRV			U-02651-A		
PEARL BROADHURST 13 4304730842 00225 07S 23E 9	GRRV			U-02651-A		
BROADHURST 15 4304730901 00225 07S 23E 9	GRRV			U-02651-A		
BROADHURST 16 4304730903 00225 07S 23E 10	GRRV			U-02651-A		
BROADHURST 17 4304730905 00225 07S 23E 10	GRRV			U-02651-A		
TOTALS						

REMARKS: _____

I hereby certify that this report is true and complete to the best of my knowledge. Date: _____
 Name and Signature: _____ Telephone Number: _____

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION & SERIAL NO. U-025651-A	
2. NAME OF OPERATOR Ocean Energy Resources, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 410 17th Street, Suite 1400, Denver, Colorado 80202		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2404' FSL & 2062' FWL NE SW At proposed prod. zone		8. FARM OR LEASE NAME USA Pearl Broadhurst	
14. API NO. 43,047,30705		9. WELL NO. 6	
15. ELEVATIONS (Show whether DF, RT, GR, etc.)		10. FIELD AND POOL, OR WILDCAT Walker Hollow Field	
12. COUNTY Uintah		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 9 -7S-R23E	
13. STATE UT			

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

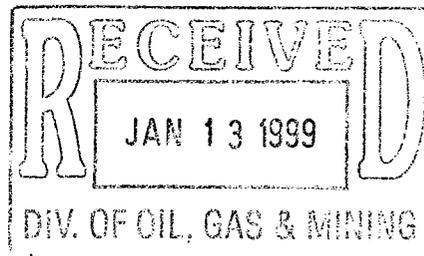
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	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 type="checkbox"/>	(Other) Change Of Operator <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	
APPROX. DATE WORK WILL START _____		DATE OF COMPLETION _____	

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.)

Change of Operator: Effective Date January 1, 1999.* Must be accompanied by a cement verification report.

Former Operator: Ocean Energy, Resources, Inc. (303) 573-5100
410 17th Street, Suite 1400
Denver, Colorado 80202

New Operator: Citation Oil & Gas Corp. (281) 469-9664
8223 Willow Place South
Suite 250
Houston, Texas 77070-5623



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

SIGNED [Signature] TITLE Regulatory Coordinitor DATE 1/6/99

(This space for Federal or State office use)

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

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

<p>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.)</p>		<p>5. LEASE DESIGNATION & SERIAL NO. U-025651-A</p>
<p>1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></p>		<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p>
<p>2. NAME OF OPERATOR Citation Oil & Gas Corp.</p>		<p>7. UNIT AGREEMENT NAME</p>
<p>3. ADDRESS OF OPERATOR 8223 Willow Place South, Suite 250, Houston, TX 77070-5623</p>		<p>8. FARM OR LEASE NAME USA Pearl Broadhurst</p>
<p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2404' FSL & 2062' FWL NE SW At proposed prod. zone</p>		<p>9. WELL NO. 6</p>
<p>14. API NO. 43-047-30705</p>		<p>10. FIELD AND POOL, OR WILDCAT Walker Hollow Field</p>
<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.)</p>		<p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 9-T7S-R23E</p>
<p>12. COUNTY Uintah</p>		<p>13. STATE UT</p>

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

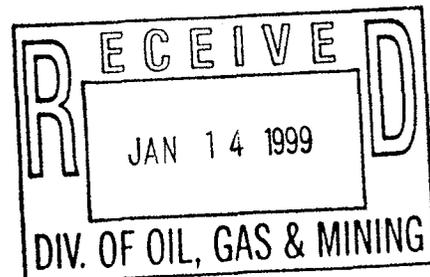
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	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 type="checkbox"/>	(Other) Change Of Operator <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(Note: Report results of multiple completion on Well Completion or Recombination Report and Log form.)	
APPROX. DATE WORK WILL START _____		DATE OF COMPLETION _____	

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.)

Change of Operator: Effective Date January 1, 1999.* Must be accompanied by a cement verification report.

Former Operator: Ocean Energy, Resources, Inc. (303) 573-5100
410 17th Street, Suite 1400
Denver, Colorado 80202

New Operator: Citation Oil & Gas Corp. (281) 469-9664
8223 Willow Place South
Suite 250
Houston, Texas 77070-5623



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

SIGNED Robert J. Kennedy TITLE Vice President Land DATE 1-8-99

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



United States Department of the Interior

BUREAU OF LAND MANAGEMENT Vernal Field Office

170 South 500 East Phone: (435) 781-4400
Vernal, Utah 84078-2799 Fax: (435) 781-4410

IN REPLY REFER TO:

3160
UT08300

February 17, 1999

Citation Oil & Gas Corporation
Attn: Sharon Ward
P O Box 690688
Houston, TX 77269-0688

Re: USA Pearl Broadhust Wells 1, 2, 4, 5, 6, 7,
8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19,
20, 21, and 22
Sec. 9 & 10, T7S, R23E
Lease U-02651-A
Uintah County, Utah

Dear Ms. Ward:

This correspondence is in regard to the self-certification statement submitted requesting a change in operator for the referenced well. After a review by this office, the change in operator request is approved. Effective immediately, Citation Oil & Gas Corporation is responsible for all operations performed on the referenced well. All liability will now fall under your bond, BLM Bond No. MT0630, for all operations conducted on the referenced well on the leased land.

If you have any other questions concerning this matter, please contact Margie Herrmann or Pat Sutton of this office at (435) 781-4492.

Sincerely,

Howard B. Cleavinger II
Assistant Field Manager for

Minerals Resources

cc: Ocean Energy, Inc.
Amoco Production Co.
Utah Div. Oil, Gas & Mining

From: <Margie_Herrmann@ut.blm.gov>
To: <nrogm.krisbeck@state.ut.us>
Date: Tue, Jun 1, 1999 11:18 AM
Subject: Change of Operator

Here goes again! Let me know if you receive it.
Thank you,
Margie

OPERATOR CHANGE WORKSHEET

Routing:	
1-KDR ✓	6-KAS ✓
2-GLH ✓	7-SJ
3-JRB ✓	8-FILE
4-CDW ✓	
5-KDR ✓	T

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold) Designation of Agent
 Designation of Operator Operator Name Change Only

The operator of the well(s) listed below has changed, effective: 1-1-99

TO: (new operator) CITATION OIL & GAS CORP **FROM:** (old operator) OCEAN ENERGY RESOURCES INC
 (address) 8223 WILLOW PL. SOUTH STE 250 (address) 410 17TH STREET STE 1400
HOUSTON, TX 77070-5623 DENVER, CO 80202

Phone: (281)469-9664
Account no. N0265

Phone: (303)573-5100
Account no. N3220

WELL(S) attach additional page if needed:

Name: <u>*SEE ATTACHED*</u>	API: <u>43-047-30705</u>	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

OPERATOR CHANGE DOCUMENTATION

- KDR 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form). *(Rec'd 1.13.99)*
- KDR 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). *(Rec'd 1.14.99)*
- N/A 3. The **Department of Commerce** has been contacted if the new operator above is not currently operating any wells in Utah. Is the company **registered with the state?** (yes/no) ____ If yes, show company file number: _____
- CDR 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of **Federal** and **Indian** well operator changes should ordinarily take place prior to the division's approval, and before the completion of **steps 5 through 9** below. *(Rec'd 6.1.99)*
- KDR 5. Changes have been entered in the **Oil and Gas Information System** (3270) for each well listed above. *(6.10.99)*
- KDR 6. **Cardex** file has been updated for each well listed above.
- KDR 7. Well **file labels** have been updated for each well listed above. *(*new filing system)*
- KDR 8. Changes have been included on the monthly "Operator, Address, and Account Changes" **memo** for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. *6.10.99*
- DR 9. A folder has been set up for the **Operator Change file**, and a copy of this page has been placed there for reference **during routing and processing of the original documents.**

ENTITY REVIEW

- CDP 1. (r649-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no If entity assignments were changed, attach copies of Form 6, Entity Action Form.
- CDP 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been notified through normal procedures of entity changes.

BOND VERIFICATION - (FEE WELLS ONLY)

- N/A 1. (r649-3-1) The NEW operator of any fee lease well listed above has furnished a proper bond.
- + 2. A copy of this form has been placed in the new and former operator's bond files.
- + 3. The FORMER operator has requested a release of liability from their bond (yes/no) _____, as of today's date _____. If yes, division response was made to this request by letter dated _____.

LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

- N/A 1. Copies of documents have been sent on _____ to _____ at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
- + 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated _____ 19 __, of their responsibility to notify all interest owners of this change.

FILMING

- W 1. All attachments to this form have been microfilmed. Today's date: 8.3.99.

FILING

- + 1. Copies of all attachments to this form have been filed in each well file.
- + 2. The original of this form, and the original attachments are now being filed in the Operator Change file.

COMMENTS

990514 left message w/ Marjil (BIM) regarding approval? 990601 rec'd e-mail approval from Marjil (BIM)
