

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
P.O. 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 1846' FSL - 1967' FWL (NE/SW)

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 673'

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. 2400'

19. PROPOSED DEPTH 5525'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 5180' GR. (Ungraded) *Green River*

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.
 8

10. FIELD AND POOL, OR WILDCAT
 WALKER HOLLOW

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 10, 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#	5525'	390 sx or 300 sx

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

OIL, GAS, AND MINING
 DATE: 5-5-80
 BY: M. G. Minder

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 William J. Juan TITLE Field Services Administrator DATE March 17, 1980

(This space for Federal or State office use)

PERMIT NO. 43-047-30696 APPROVAL DATE 5/5/80

APPROVED BY _____ TITLE _____ DATE _____

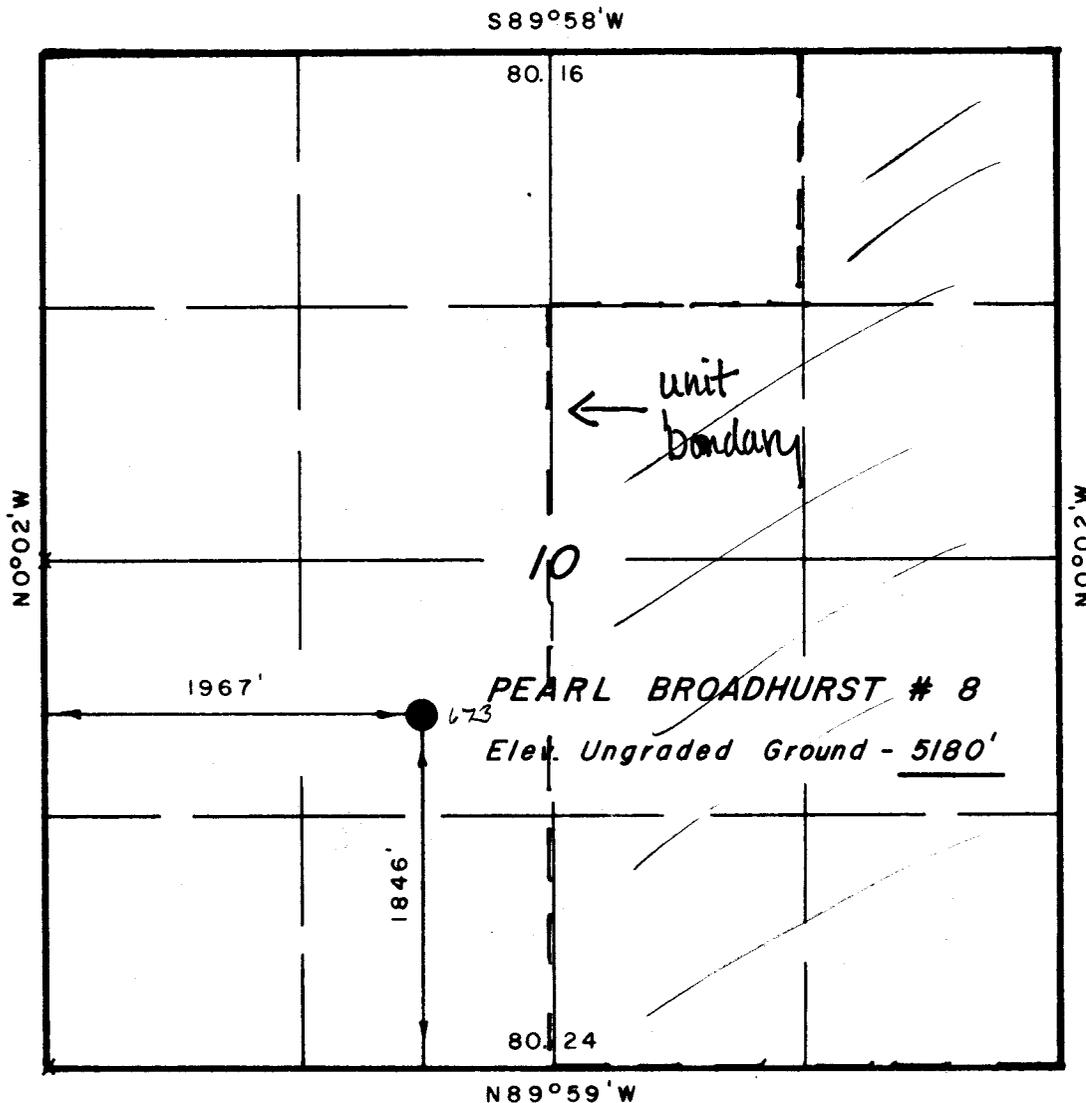
CONDITIONS OF APPROVAL, IF ANY:

PROJECT

ENERGY RESERVES GROUP

Well location, **PEARL BROADHURST #8**,
located as shown in the NE 1/4 SW 1/4
Section 10, 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.

Richard 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 / 7 / 80
PARTY	N.J.M. D.D. S.B.	REFERENCES	GLO Plat
WEATHER	Thawing, rain & wind	FILE	ENERGY RESERVES



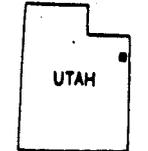
SCALE - 1" = 2000'

ROAD CLASSIFICATION

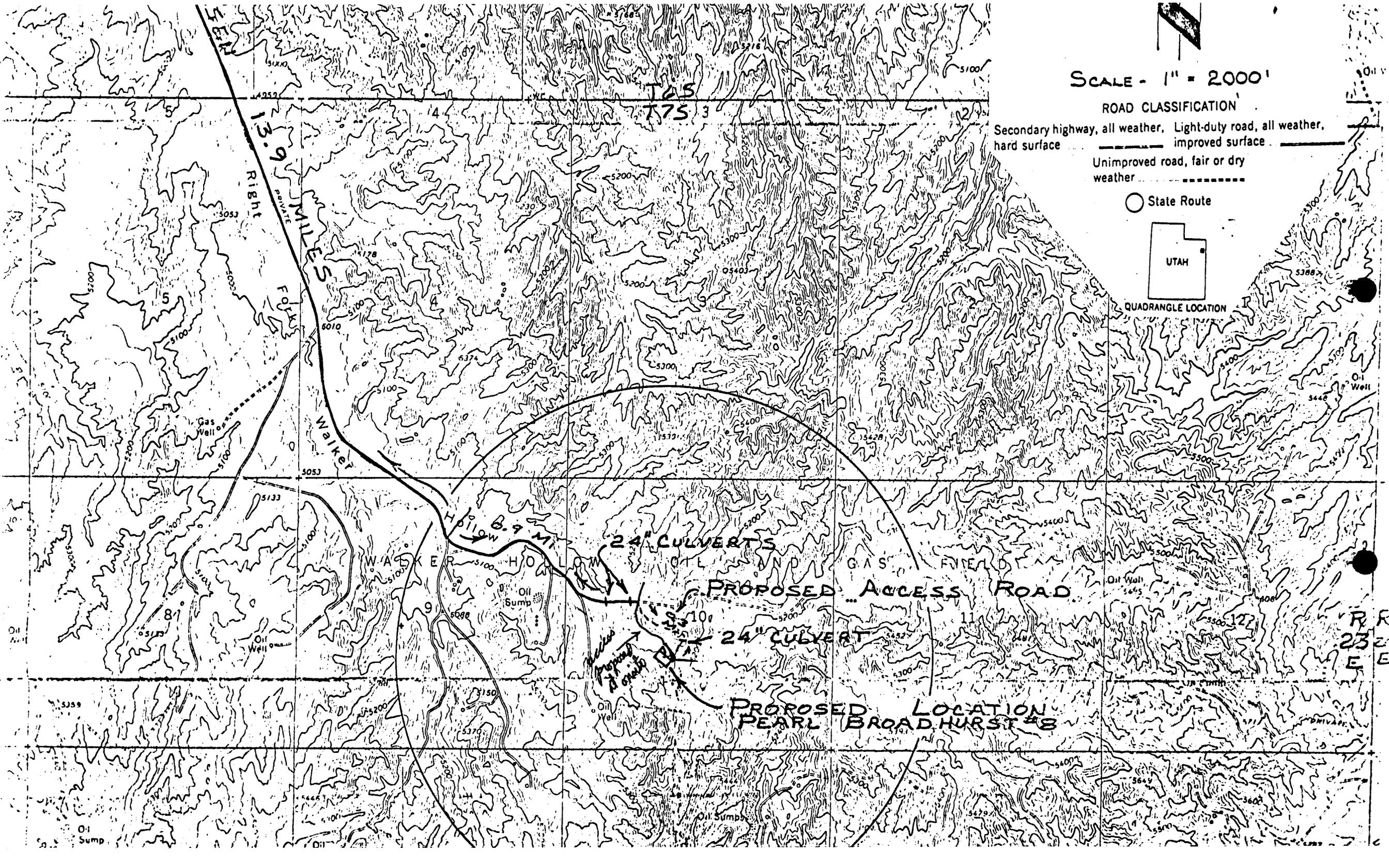
Secondary highway, all weather, Light-duty road, all weather, hard surface

Improved surface
Unimproved road, fair or dry weather

○ State Route



QUADRANGLE LOCATION



13.9 MILES

T6S
T7S

24" CULVERTS

PROPOSED ACCESS ROAD

24" CULVERT

PROPOSED LOCATION PEARL BROADHURST #8

Right

FOOTWALKER

8.9 MI

WALKER

GAS FIELD

PROPOSED

PEARL BROADHURST #8

R R
23
E E

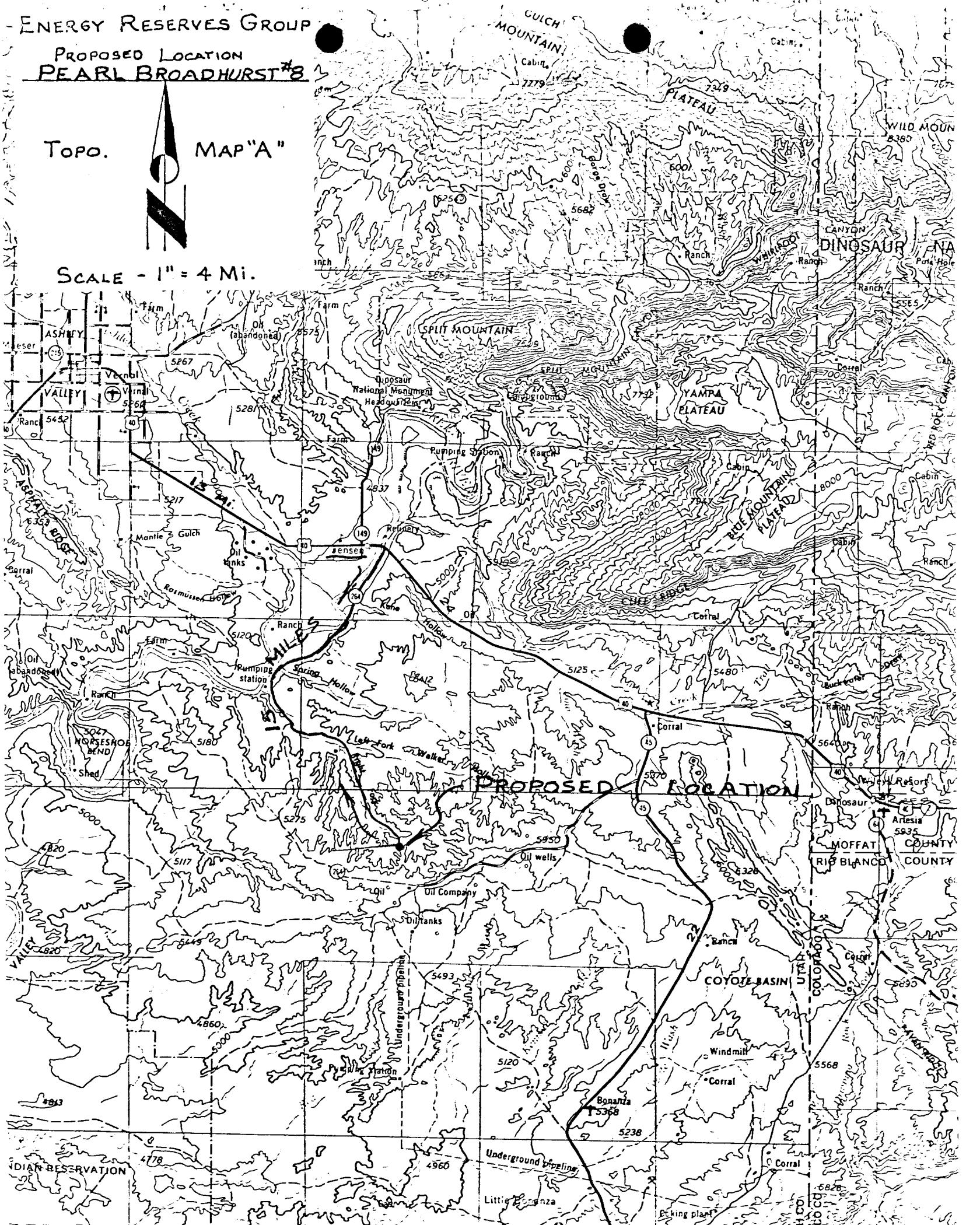
ENERGY RESERVES GROUP

PROPOSED LOCATION
PEARL BROADHURST #8

TOPO. MAP "A"



SCALE - 1" = 4 Mi.



PROPOSED LOCATION

MOFFAT COUNTY
RIO BLANCO COUNTY

COYOOTE BASIN

DIAN RESERVATION

Underground pipeline

Little Bonanza

Picking plant

ENERGY RESERVES GROUP

13 Point Surface Use Plan

For

Well Location

Pearl Broadhurst #8

Located In

Section 10, T7S, R23E, S.L.B. & M.

Uintah County, Utah

ENERGY RESERVES GROUP
Pearl Broadhurst #8
Section 10, T7S, R23E, S.L.B. & M.

1. EXISTING ROADS

See attached Topographic Map "A".

To reach Energy Reserves Group well location Pearl Broadhurst #8, located in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 10, 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 improved road to the Southeast; proceed South along this road 5.3 miles to the junction of this road and an existing improved road to the Southeast; proceed Southeasterly along this road 0.9 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 where the road exits to the Southeast; thereafter the roads are constructed with existing materials and gravels.

The aforementioned dirt oil field service road 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 2 - 24" culverts required on the last 0.9 miles of above described roads. These roads 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 as such time that production is established.

The culverts will be installed according to specifications found in the Oil and Gas Surface Operating Standards Manual for culvert placement.

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 SE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 10, T7S, R23E, S.L.B. & M. and proceeds in a Southeasterly direction 0.3 miles 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.

ENERGY RESERVES GROUP
Pearl Broadhurst #8
Section 10, T7S, R23E, S.L.B. & M.

2. PLANNED ACCESS ROAD - continued

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

There will be one 24" culvert required along this road. For its location refer to Topographic Map "B". It will be placed according to specification 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 dugways up a small hillside to the top of a ridge. It is sparsely vegetated with sagebrush and grasses.

3. LOCATION OF EXISTING WELLS

See Topographic Map "B".

The Walker Hollow Oil and Gas 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.

ENERGY RESERVES GROUP
Pearl Broadhurst #8
Section 10, 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 approximately 15.1 miles from the Green River at a point where it crosses under U.S. Highway 40.

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 #8
Section 10, 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.

At 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 back-filling 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 #8
Section 10, 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 15 miles to the West of the location site.

ENERGY RESERVES GROUP
Pearl Broadhurst #8
Section 10, 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, pronghorn antelope, coyotes, rabbits, and varieties of smallground 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 #8 is located on a ridge above a non-perennial drainage which runs to the Northwest into the right fork of Walker Hollow.

ENERGY RESERVES GROUP
Pearl Broadhurst #8
Section 10, T7S, R23E, S.L.B. & M.

11. OTHER INFORMATION - continued

The terrain in the vicinity of the location slopes from the South through the location site to the North at approximately a 5% grade.

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

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.

3-19-80
Date

Bill Fiant
Bill Fiant

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

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. 8

LOCATION: SE 1/4 NE 1/4 SW 1/4 sec. 10, T. 7S., R. 23E., S.L.M.

Uintah County, Utah

Stratigraphy: Operator tops appear reasonable

Uintah	Surface
Green River	2800

Fresh Water:

~~Fresh water may be encountered in bedrock~~

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 ~ 4500 ft.)

Additional Logs Needed: Adequate

Potential Geologic Hazards: None anticipated

References and Remarks:

Signature: Gregory W. Wood

Date: 3 - 31 - 80

United States Department of the Interior
Geological Survey
Oil and Gas Operations
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator/Project Name Energy Reserves Group, Incorporated
Project Type Oil well drilling and Production Facilities
Project Location 1072' FNL 2159' FWL Section 10, T7S, R23E for well.
Tank Battery is in SE/4 NW/4 same section.
Date Project Submitted August 29, 1980

FIELD INSPECTION

Date September 19, 1980

Field Inspection
Participants

Greg Darlington - USGS, Vernal
Ron Rogers and Larry England - BLM, Vernal
Leonard Heeney - Energy Reserves Group
Ray Radke - Energy Reserves Group
Ned Cook - Ross Construction
Durrell Karren - Walker Hollow Unit Pumper

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

September 22, 1980
Date Prepared

Gregory Darlington
Environmental Scientist

I concur

9/23/80
Date

E. W. [Signature]
District Supervisor

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria 516 DM 2.3.A	Federal/State Agency			Local and private correspondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
	Corre- spondence (date)	Phone check (date)	Meeting (date)						
1. Public health and safety							Onsite Participants	9/19/1980	
2. Unique characteristics									
3. Environmentally controversial									
4. Uncertain and unknown risks									
5. Establishes precedents									Production Facilities Combined for
6. Cumulatively significant							↓		Wells. One APD EA 331-80 amended by CER 654-80 and related APD.
7. National Register historic places							Ron Rogers		
8. Endangered/threatened species							Larry England		
9. Violate Federal, State, local, tribal law							Onsite Participants	↓	

Proposed Action:

Energy Reserves Group, Incorporated proposes to drill the Broadhurst #9 well, a 5700 foot oil test of the Green River formations in the Walker Hollow Unit. About .3 mile of 18 foot driving surface crown new access road would be built on a 30 foot right of way with additional disturbance authorized if needed for the proper installation a 6 foot by 60 foot long culvert crossing of Walker Hollow's Right Fork. An area 160 feet by 315 feet for the pad and an area 70 feet by 150 feet for the reserve pit are requested. The existing drainage will be diverted around the reserve pit. About 2.3 acres of disturbed surface will be associated with the well and access road.

Also the construction of a tank battery to consolidate the production of this well and Broadhurst wells #2 and #8 is requested. This would replace existing facilities and avoid subsidence problems at well #2, and would allow a better loading location than the proposed tank battery for well #8. (See EA 331-80) The tank battery would be located about 1200 feet south of the Broadhurst #9 well. A pad of 50 feet by 350 feet with a 75 foot by 100 foot water disposal pit, an access road of about 900 feet length and 18 foot driving surface, and a loading area of about one acre size would be required for this tank battery. A diagram of this was brought with an amended surface use plan for the Broadhurst well #9 to the onsite by Leonard Heeney. About 2 acres of total disturbance will be required for the tank battery and loading area pads.

Flowlines for Broadhurst wells #2 and #9 would follow existing and proposed roads. A right of way has been applied for for the flowline from Broadhurst well #8. Refer to Topo Map "C" of the amended surface use plan for a general description of the flowline routes involved. About 1 mile of flowlines will be required to hook the three wells into the proposed tank battery.

All of the aforementioned proposed actions are in Section 10, T. 7S, R. 23E.

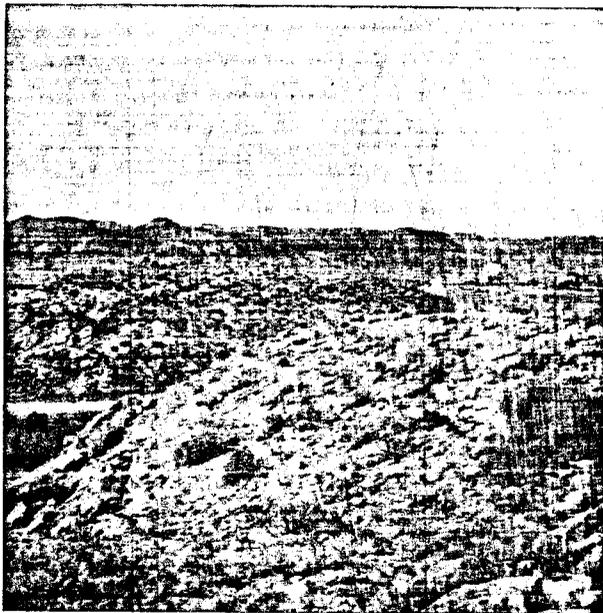
Recommended Approval Conditions:

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

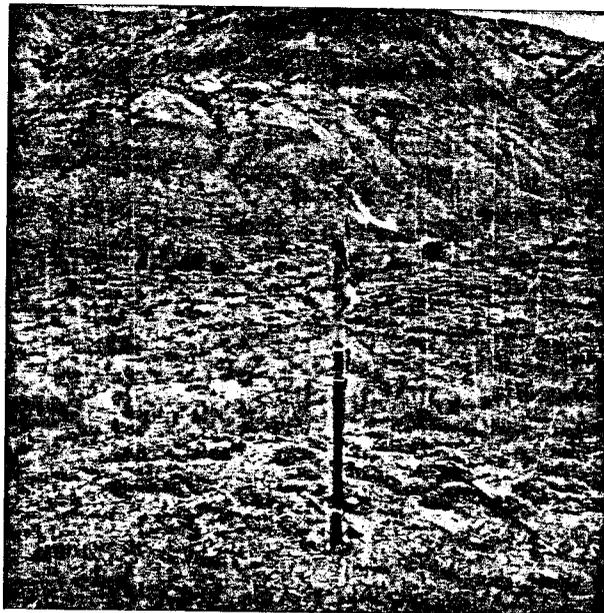
1. BLM stipulations.
2. Agreement to furnish suitable logs requested by the Mining and Resource Evaluation Reports for the identification of other valuable minerals subject to the Mineral Leasing Act of 1920.

Tank battery and flowline construction should be allowed provided the following measures are incorporated into the proposed APD and amended surface use plan and adhered to by the operator:

1. BLM stipulations.



Tank Battery site. Replace tank battery in picture and serve wells 8 and 9 as well as well 2. Picture taken at the Battery location proposed.



North View Broadhurst #9
Energy Reserves Group
Sec. 10, T7S, R23E



United States Department of the Interior

IN REPLY REFER TO

BUREAU OF LAND MANAGEMENT
VERNAL DISTRICT OFFICE
170 South 500 East
Vernal, Utah 84078

T & R
U-802

September 22, 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.
Walker Hollow Field
Well # 9, Lease U-02651-A,
Storage tank battery site,
Sec. 10, T7S, R23E,
Uintah County, Utah

Dear Mr. Guynn:

A joint field examination was made on September 19, 1980 of the above referenced well site location, proposed access road, and storage tank battery site. We feel that the surface use and operating plans are adequate with the following stipulations:

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 brochure, "Surface Operating Standards for Oil and Gas Exploration and Development."
2. Traveling off access road right-of-way will not be allowed. The maximum width of access roads (both existing and planned) will be 30 feet total disturbed area, except where backslope and fills require additional area. Turn-outs will not be required.
3. Topsoil will be stockpiled as addressed in the applicant's 13 Point Plan. The BLM recommends that the top 6 to 8 inches of topsoil be stockpiled at the well site. Topsoil will be separately from cut material and it will be stored at the south corner of the pad.
4. The BLM must be contacted at least 24 hours prior to any construction activities.
5. The BLM will be contacted at least 24 hours prior to any rehabilitation activities. The operator may be informed of any additional needed seeding and restoration requirements.

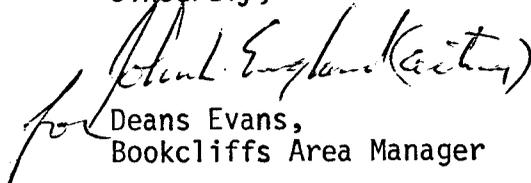


6. Burn Pits will not be constructed. There will be no burning or burying of trash or garbage at the well site. Refuse must be contained and hauled to an approved disposal site.
7. A wire mesh or web type fence will be used around the reserve pit. At least two strands of barbed wire will top this fence. The reserve pit will be 50 feet wide and up to 175 feet long.
8. The natural drainages will be diverted around the east and north sides of the pad.
9. If oil storage tanks are installed, a retaining dike will be constructed around the tanks of sufficient height to contain the oil in the event of tank failure.
10. Reserve pits will be at least 4 feet of their depths below the natural ground surface.
11. The pads corners will be rounded off to conform to existing topography.
12. Production facilities will be painted in such a way to blend into the natural background. Various earth-tone colors can accomplish this.

The proposed activities do not jeopardize listed, threatened, or endangered flora, fauna, or their habitats. A cultural resource investigation revealed no cultural resources in the impacted areas.

The BLM representative is Ron Rogers, 789-1362.

Sincerely,


Deans Evans,
Bookcliffs Area Manager

cc: USGS, Salt Lake City

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 8
Location. 1846' FSL & 1967' FWL Sec.: 10 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 Comp? ,
Pcd 155 x 150
Pct 75 x 150
3/10 mi x 18' new access
1/10 mi x 18' impasse
Tank Btry Area 50 x 100
→ Cond of Area 6-7
1-5
Oil shale
Coal*

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

1. A drill pad 155' wide x 315' long and a contoured reserve pit 75' average width x 150' would be constructed. Approximately .3 miles of new access road, averaging 18' driving surface, would be constructed and approximately .1 miles of existing road would be improved to 18' driving surface from a maintained road. 2.7 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 would be constructed adjacent to the northwest side of the pad and a turnaround area would be constructed on the access road just north of the tank battery. The tank battery would be about 50' x 100' in disturbed area.

2. Drilling would be to a proposed depth of 5525'.
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.

The access road was changed per the attached map to reduce grade, reduce environmental impacts, design a turnaround area on the north side of the proposed tank battery and better conform with the existing topography.

Environmental Considerations of the Proposed Action:

Regional Setting/Topography: The location is surrounded by several small hills in a desert area just north of Red Wash.

PARAMETER

A. Geology: The surface formation is Uintah formation. Oil is anticipated at from 4280' to 5525' depths and gas is anticipated to be present from 4575' to 4830' depths.

Information Source: APD.

1. Other Local Mineral Resources to be Protected: Coal and oil shale are possibly present.

Information Source: Mineral Evaluation Report and Mining 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 the 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. Blowout prevention equipment is described in the APD.

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 expected in the zones to be encountered.

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 during production phases of this proposed project or after drilling has been completed.

Information Source: Field Observation.

E. Water Resources

1. Hydrologic Character

a. Surface Waters Drainage patterns are through non-perennial drainages in the Right Fork of Walker Hollow and then proceeding to the Green River which is about 8 miles northwest of the location. Drainage at the location is to the north.

Information Source. APD.

b. Ground Waters Useable water may be encountered throughout the Green River formation 2800' to 5525'.

Information Source: Mineral Evaluation Report.

2. Water Quality

a. Surface Waters: Efforts will be made to divert a small drainage which crosses the proposed reserve pit. The access road would avoid steeper slopes by being rerouted to the northwest side of the drainage.

Information Source: Field Observation and Onsite stipulations.

b. Ground Waters The operator proposes 500 feet of surface casing and an apparently adequate casing program from 500' to 5525' is planned. The requested protection in the upper Green River formation for oil shale should also help.

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: Consists primarily of sagebrush, desert shrubs, juniper, native grasses, cacti and some wild flowers.

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 other oil and gas development are the major land uses.

Information Source: Field Observation.

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

Information Source: Field Observation.

H. Aesthetics: Very little impact to aesthetics 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 to arise.

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 a comprehensive archaeological survey having been done for the area involved.

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 2.7 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 2800').
5. The access road was altered at the onsite to reduce grades. (See attached map).

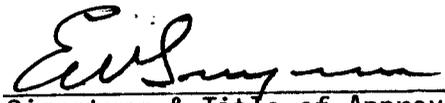
Controversial Issues and Conservation Division Response:

None involved at the present time.

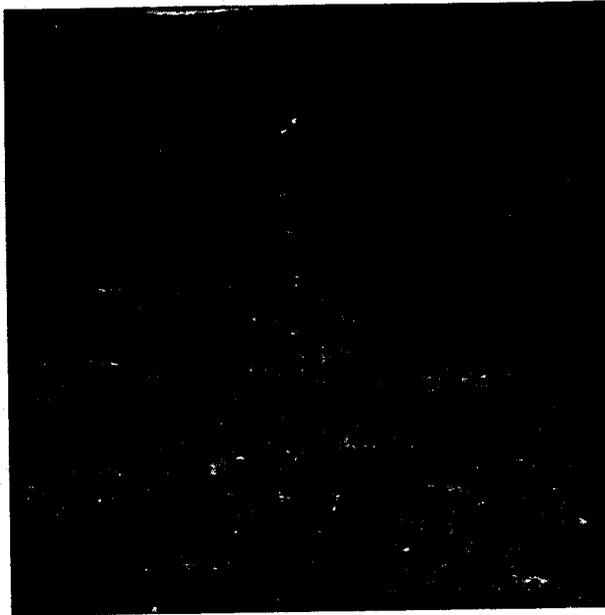
We have considered the proposed action in the preceding pages of this EA and find, based on the analysis of environmental considerations provided therein, no evidence to indicate that it will significantly (40 CFR 1508.27) impact the quality of the human environment.

Determination:

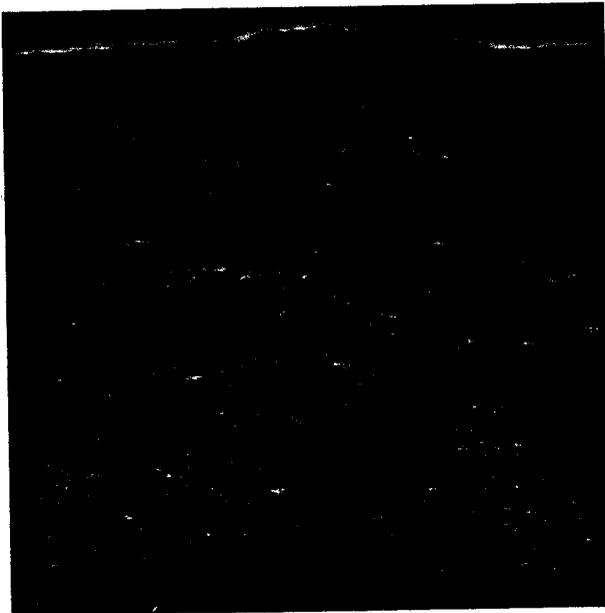
I determine that the proposed action (as modified by the recommended approval conditions) does not constitute a major Federal action significantly affecting the quality of the human environment in the sense of NEPA, Section 102 (2)(C).

 DISTRICT ENGINEER
Signature & Title of Approving Official

MAY 01 1980
Date



Energy Reserves Group, Inc
South View #8
Section 10, T.7S., R.23E



Energy Reserves Group, Inc
North View #8
Section 10, T.7S., R.23E.



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.

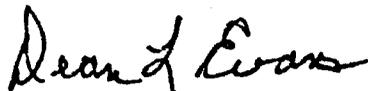
6 to 8 inches of top soil will be stockpiled at the south end of the pad.

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



United States Department of the Interior

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

3/27/80

RECEIVED

Energy Reserves
Survey, Inc.
#8 10-75-23E
Uintah County
E.R. #331-80

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

APR 2 1980
OFFICE OF
AREA OIL SHALE SUPERVISOR
U.S. G.S.

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 #8

April 4, 1980

The proposed casing and cementing program is not adequate for protection of the top of the Green River Formation (about 2800' 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 about 2800'-3100'+

Ray A. Brady
Ray A. Brady
Geologist

oil shale

Supplemental to Form 9-331C

1. The geologic name of the surface formation.

Uintah

2. The estimated tops of important geologic markers.

Green River	2800'
Green River "G"	4280'
Green River "H"	4575'
Green River "I"	4830'
Green River "J"	5100'
Green River "K"	5250'
T.D.	5525'

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.

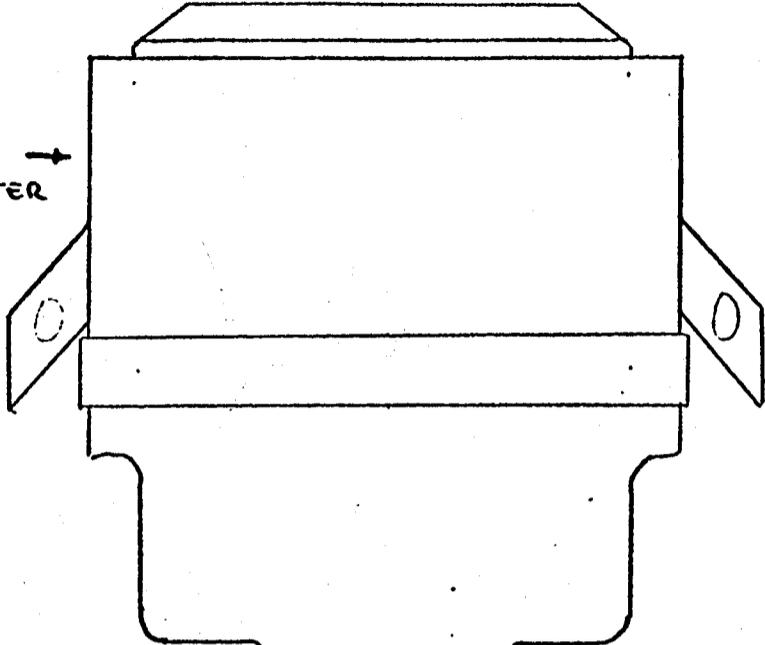
9. Any anticipated abnormal pressures or temperatures expected to be encountered or potential hazards such as hydrogen sulfide gas, along with plans for mitigating such hazards.

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

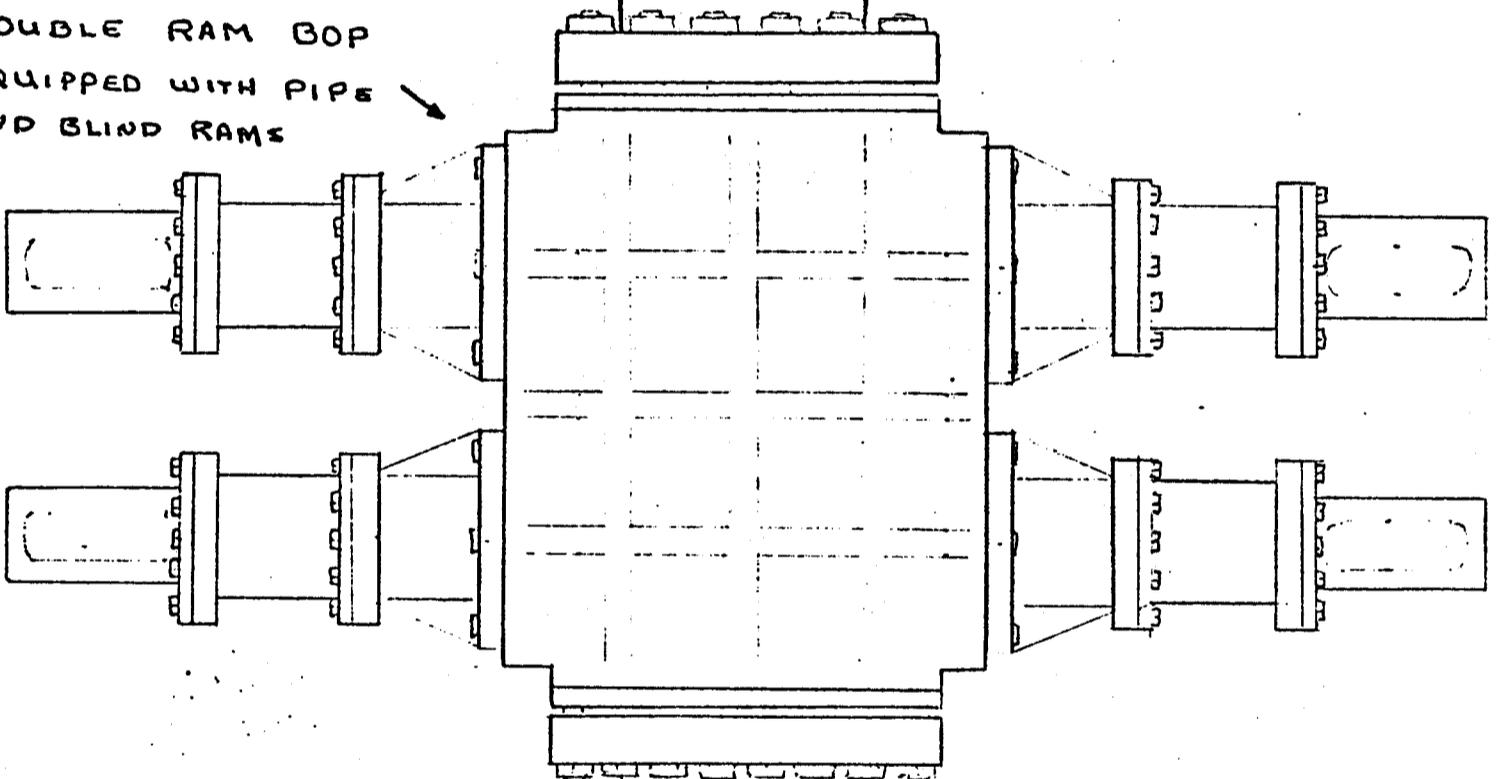
10. The anticipated starting date and duration of the operations.

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



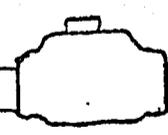
10" SERIES 900
DOUBLE RAM BOP
EQUIPPED WITH PIPE
AND BLIND RAMS



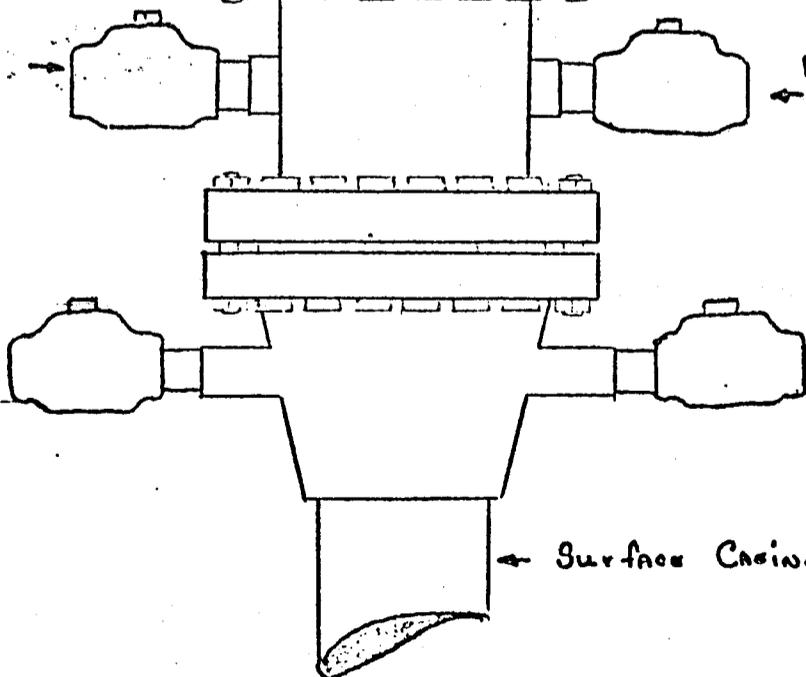
KILL LINE



BLEED OFF
LINE



← Surface Casing



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-02457-A Well No. 8

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

** FILE NOTATIONS **

DATE: March 24, 1980

Operator: Energy Reserves Group, Inc.

Well No: Broadhurst #8

Location: Sec. 10 T. 7S R. 23E County: Wentak

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number 43-047-30696

CHECKED BY:

Geological Engineer: _____

Petroleum Engineer: M. J. Minder 5-5-80

Director: _____

& on Unit boundary

APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. _____

O.K. Rule C-3

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

Lease Designation *not in Unit*

Plotted on Map

Approval Letter Written

Wtm

#1

*nl
PI*

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
 P.O. 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 1846' FSL - 1967' FWL (NE/SW)

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 673'

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. 2400'

19. PROPOSED DEPTH 5525'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 5180' 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.
 8

10. FIELD AND POOL, OR WILDCAT
 WALKER HOLLOW

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 10, T7S-R23E

12. COUNTY OR PARISH
 Uintah

13. STATE
 Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 3/4"	8-5/8"	24#	500'	CMT to surface
7-7/8"	5 1/2" or 4 1/2"	14# or 9.5#	5525'	390 sx or 300 sx

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 7 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. Yuen TITLE Field Services Administrator DATE March 17, 1980

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY (Orig. Sgd.) R. A. Henricks FOR E. W. GUYNN
CONDITIONS OF APPROVAL, IF ANY: _____ TITLE DISTRICT ENGINEER DATE MAY 5 1980

NOTICE OF APPROVAL CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY
*See Instructions on Reverse Side
FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80

Utah O & G

May 8, 1980

Energy Reserves Group, Inc.
P.O. Box 3280
Casper, Wyoming 82602

Re: Well No. Broadhurst #8
Sec. 10, T. 7S, R. 23E.,
Uintah County, Utah

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

Should you determine that it will be necessary to plug and abandon 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 43-047-30696.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder
Petroleum Engineer

/b:dm

cc: USGS

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: Energy Reserves Group, Inc.

WELL NAME: Broadhurst #8

SECTION 10 NE SW TOWNSHIP 7S RANGE 23E COUNTY Uintah

DRILLING CONTRACTOR Dreiling Drilling

RIG # 5

SPUDDED: DATE 5/14/80

TIME 8:00 a.m.

HOW rotary

DRILLING WILL COMMENCE ASAP

REPORTED BY Roscoe Gillespie

TELEPHONE # 307-265-7331

DATE May 15, 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: 1,846' FSL & 1,967' 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.
8

10. FIELD OR WILDCAT NAME
Walker Hollow

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 10-T7S-R23E

12. COUNTY OR PARISH
Uintah

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DE, KDB, AND WD)
GRD 5,180' - KB 5,193'

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.)*

The above reference well was drilled to 5,500' w/7-7/8" bits & ran logs.

Ran 136 jts. 5-1/2" O.D?, 14.0 & 15.50#, K-55, R-3, SS, ST&C new casing set @ 5,500' (K.B.). Cemented w/950 sx 50-50 Pozmix w/8% gel; 10% salt & 10#/sk Coalite; followed by 200 sx of RFC cement w/5# Coalite/sk. Plug down 2:30 PM 6-4-80. Good cement returns.

6-5-80: W.O.C. & R.D.R.T.

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

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

SIGNED Richard M. Dill TITLE Drlg Supt.-RMD DATE June 5, 1980

(This space for Federal or State office use)

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

RECEIVED

JUN 6 1980

DIVISION OF
OIL, GAS & MINING

JOHNSTON

Schlumberger

**computerized
data
analysis**

COMPANY ENERGY RESERVES GROUP WELL U.S.A. PEARLBROADHURST TEST NO. 2 COUNTY JINTAH STATE UTAH
INC. #8

JOHNSTON
Schlumberger

RECEIVED
JUN 6 1980

COMPUTERIZED DATA ANALYSIS

JUNE 3, 1980

DIVISION OF
OIL, GAS & MINING

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 BUT ADEQUATE SHUT-IN BUILD-UPS DID NOT OCCUR FOR RELIABLE QUANTITATIVE ANALYSIS.

1. FLOW RATE: A TOTAL LIQUID RATE OF 16 BBLS/DAY WAS NOTED DURING THIS TEST, CONSISTING OF MUD AND DEAD OIL.
2. GENERAL COMMENTS: THE FORMATION EXHIBITS THE CHARACTERISTICS OF RELATIVELY LOW PERMEABILITY EFFECTIVE TO THE RESERVOIR FLUID. FOR THIS REASON, A RESERVOIR PRESSURE COULD NOT BE OBTAINED FROM THE SHUT-IN BUILD-UP INFORMATION. THE ANOMALY NOTED DURING THE FINAL SHUT-IN IS BELIEVED TO BE DUE TO MULTIPLE LAYERS WITHIN THE 40 FOOT TEST INTERVAL. AN ANALYSIS COULD NOT BE PERFORMED ON THIS TEST DATA.

Dennis Myren
DENNIS MYREN
RESERVOIR EVALUATION
DEPARTMENT

ENERGY RESERVES GROUP, INC.
U.S.A. PEARLBROADHURST #8; UINTAH COUNTY, UTAH
TEST #2; 4627' TO 4667'
LOCATION: SEC. 10 - T7S - R23E

FIELD REPORT # 15541 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.

ΔT (MIN)

0.1 0.2 0.4 0.6 1.0 1.6 2.7 4.8 9.5 25 ∞

HORNER PLOT

FIELD REPORT NO. 155410

INSTRUMENT:
NUMBER: J-1043
CAPACITY: 2800 PSI
DEPTH: 4633 FT

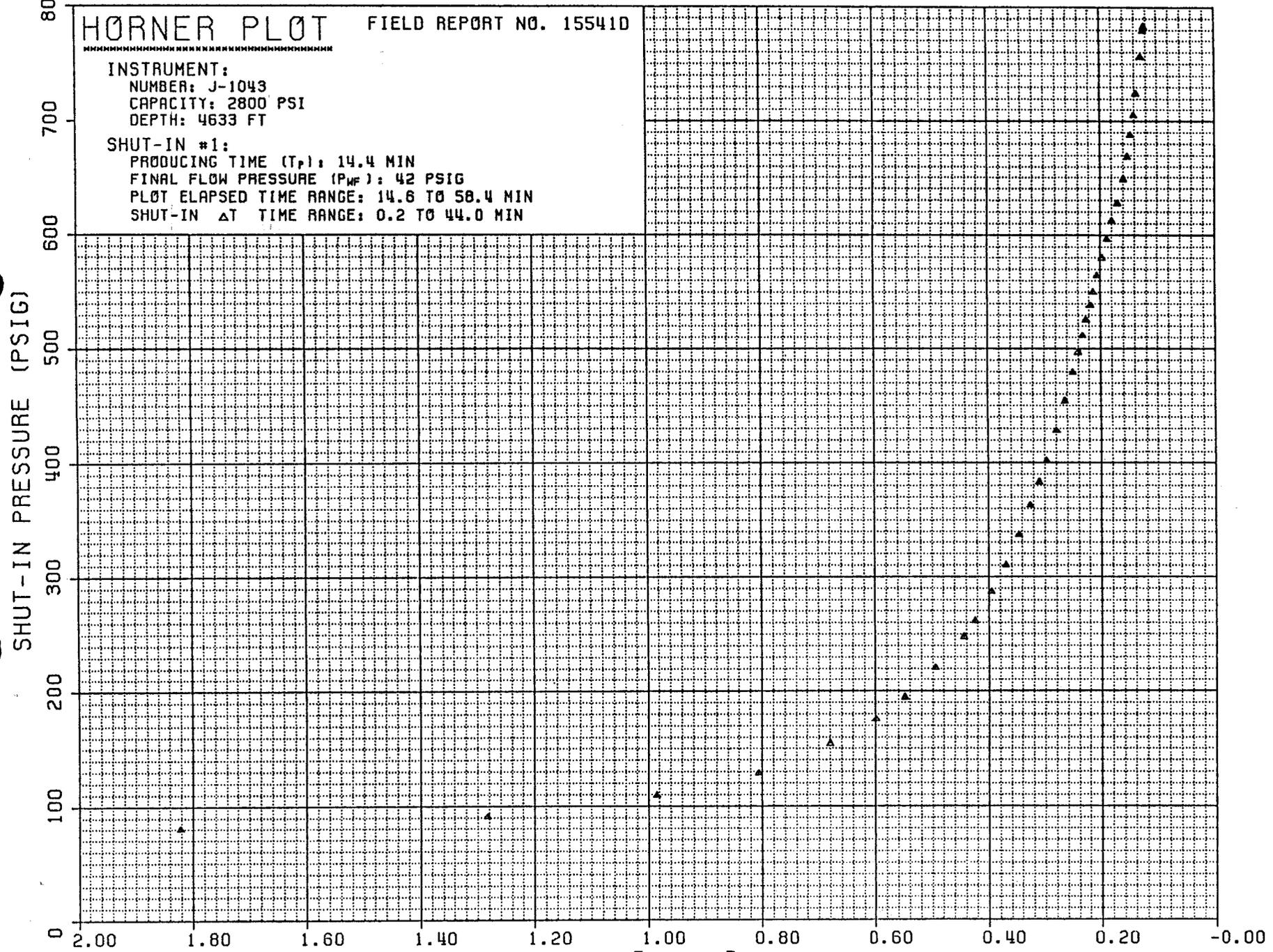
SHUT-IN #1:
PRODUCING TIME (T_P): 14.4 MIN
FINAL FLOW PRESSURE (P_{WF}): 42 PSIG
PLOT ELAPSED TIME RANGE: 14.6 TO 58.4 MIN
SHUT-IN ΔT TIME RANGE: 0.2 TO 44.0 MIN

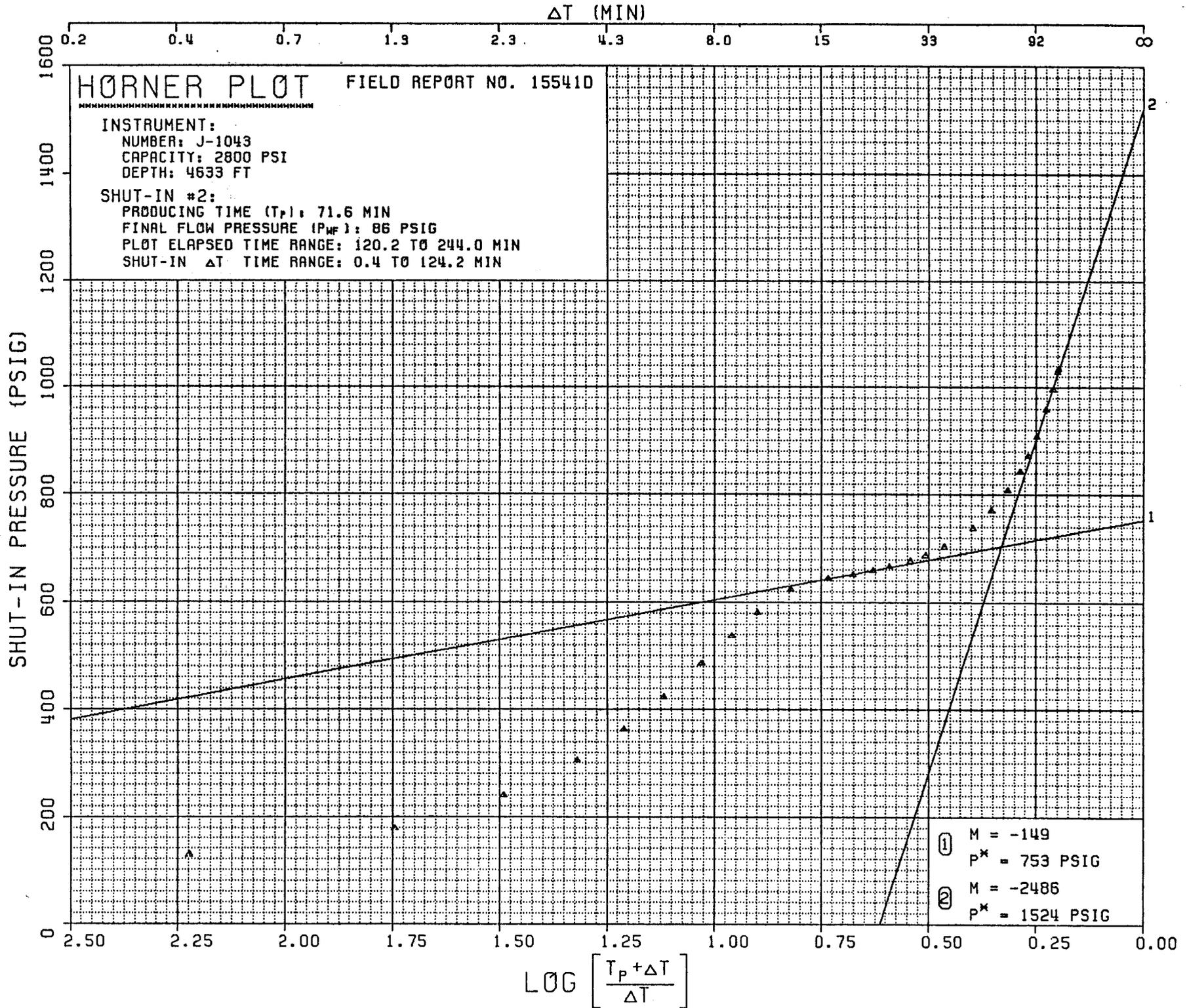
SHUT-IN PRESSURE (PSIG)

800
700
600
500
400
300
200
100
0

2.00 1.80 1.60 1.40 1.20 1.00 0.80 0.60 0.40 0.20 -0.00

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





FIELD REPORT NO. 155410

INSTRUMENT:

NUMBER: J-1043

CAPACITY: 2800 PSI

DEPTH: 4633 FT

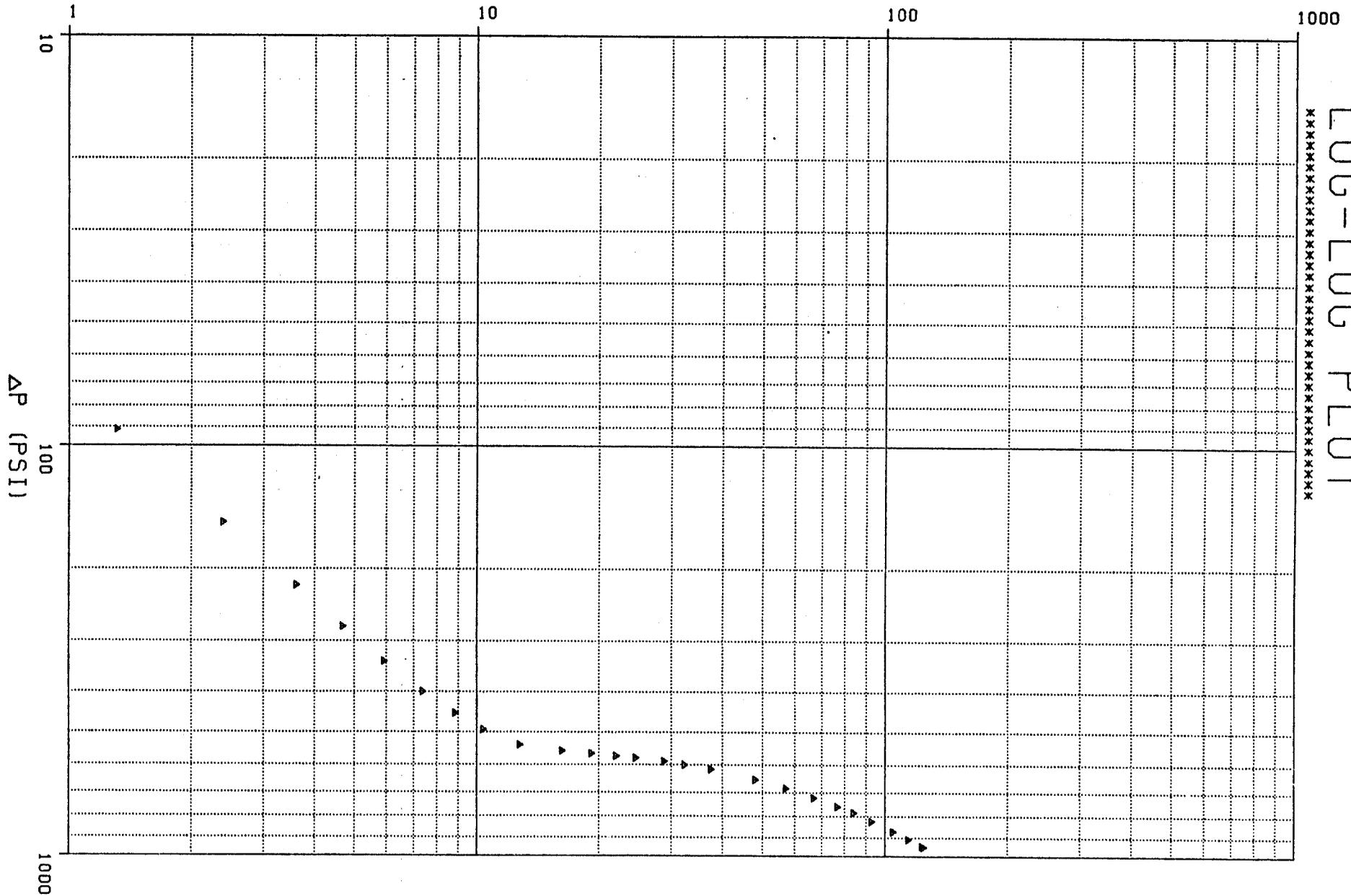
SHUT-IN #2:

FINAL FLOW PRESSURE (P_{WF}): 86 PSIG

PLOT ELAPSED TIME RANGE: 121.1 TO 244.0 MIN

SHUT-IN ΔT TIME RANGE: 1.3 TO 124.2 MIN

ΔT (MIN)



LOG-LOG PLOT

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

COMPANY:	ENERGY RESERVES GROUP, INC. 3200-633-17TH STREET DENVER, COLORADO 80202	CUSTOMER:	SAME
WELL:	U.S.A. PEARLBROADHURST #8	LOCATION:	SEC. 10 - T7S - R23E
TEST INTERVAL:	4627' TO 4667'	FIELD:	WILD CAT
TEST NO:	2	TEST DATE:	5-28-80
COUNTY:	UINTAH	STATE:	UTAH
TECHNICIAN:	PITT (POWELL)	TEST APPROVED BY:	MR. H.R. COLLIER

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

TEST TYPE:	M.F.E. OPEN HOLE	DRILL PIPE LENGTH:	3966	FT.
ELEVATION:	5192	DRILL PIPE I.D.:	3.80	IN.
TOTAL DEPTH:	4667	DRILL COLLAR LENGTH:	624	FT.
MAIN HOLE/CASING SIZE:	7 7/8	DRILL COLLAR I.D.:	2.5	IN.
RAT HOLE/LINER SIZE:	-	PACKER DEPTHS:	4623 & 4627	FT.
FORMATION TESTED:	GREEN RIVER		&	FT.
NET PROD. INTERVAL:	-		&	FT.
POROSITY:	15	FT. DEPTHS REF. TO:	KELLY BUSHING	FT.

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

SAMPLER PRESSURE:		PSIG	
RECOVERED OIL GRAVITY:	[API @	- DEG. F.	
RECOVERY GOR:	-	FT3/BBL.	
SAMPLE CHAMBER CONTENTS			
FLUID	VOLUME	RESIST. (OHM-M)	MEAS. TEMP. (DEG F.)
GAS:	.18 FT.3		
OIL:	- CC		
WATER:	- CC		
MUD:	1300 CC	1.5	62
FILTRATE:		1.25	63
TOTAL LIQUID:	1300 CC		300

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

TYPE:	FRESH WATER GEL-LO SOL
WEIGHT:	9.2 LB/GAL.
VISCOSITY:	65 SEC.
WATER LOSS:	- CC
FLUID	RESIST (OHM-M) TEMP (DEG F) CHLOR (PPM)
MUD:	1.6 60
FILTRATE:	1.2 60 450

----- REMARKS -----

NO. OF REPORTS REQUESTED: 6 (3X)

FIELD REPORT NO. 15541D

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

DESCRIPTION(RATE OF FLOW)	TIME	PRESSURE PSIG	SURFACE CHOKE
SET PACKER	Ø13Ø	-	-
OPENED TOOL	Ø136	-	"
BLOW, 1" IN WATER			
BLOW OFF BOTTOM OF BUCKET	Ø143	-	"
	Ø15Ø	.25	"
CLOSED FOR INITIAL SHUT-IN	Ø151	-	"
FINISHED SHUT-IN	Ø236	-	"
BLOW, 3" IN WATER			
RE-OPENED TOOL	Ø24Ø	-	"
	Ø245	1	"
	Ø259	1.5	"
	Ø3Ø6	2	3/8"
	Ø319	2.25	"
	Ø327	2.5	"
	Ø337	3	"
CLOSED FOR FINAL SHUT-IN	Ø34Ø	-	"
FINISHED SHUT-IN	Ø54Ø	-	"
PULLED PACKER LOOSE	Ø541	-	"

CUSHION TYPE: FT PSIG | 5/8 IN. BOTTOM CHOKE

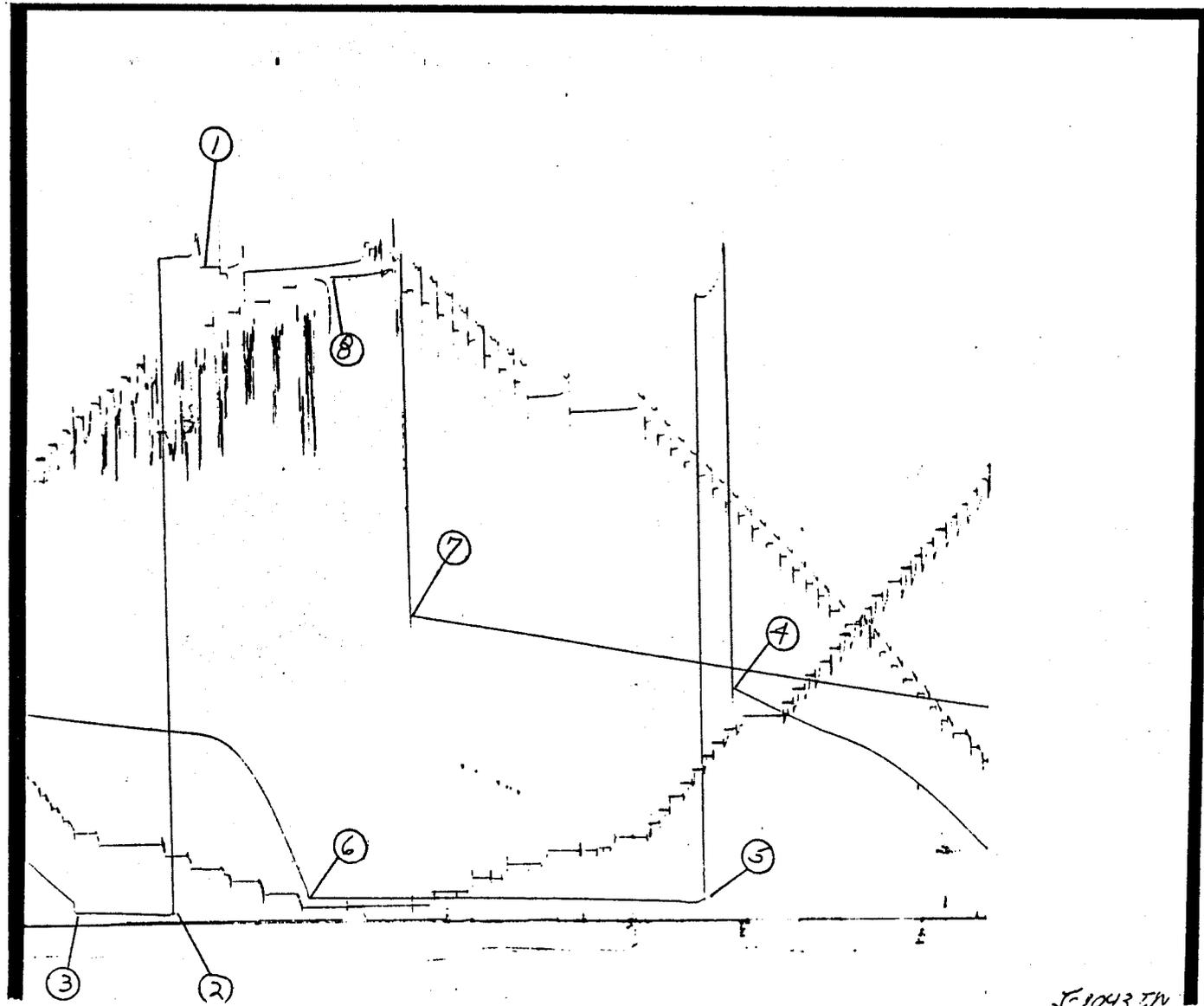
----- RECOVERY INFORMATION -----

RECOVERY	FEET	BARRELS	%OIL	%WATER	%OTHERS	API GRAV.	DEG.	RESIST	DEG.	CHL PPM
MUD WITH DEAD OIL	65	.4Ø						1.55	62	3ØØ
MUD WITH DEAD OIL	65	.4Ø						1.6	62	325

FIELD REPORT NO. 15541D

FIELD REPORT NO.: 15541 D CAPACITY: 2800#
INSTRUMENT NO.: J-1043 NUMBER OF REPORTS: 6-

JOHNSTON
Schlumberger

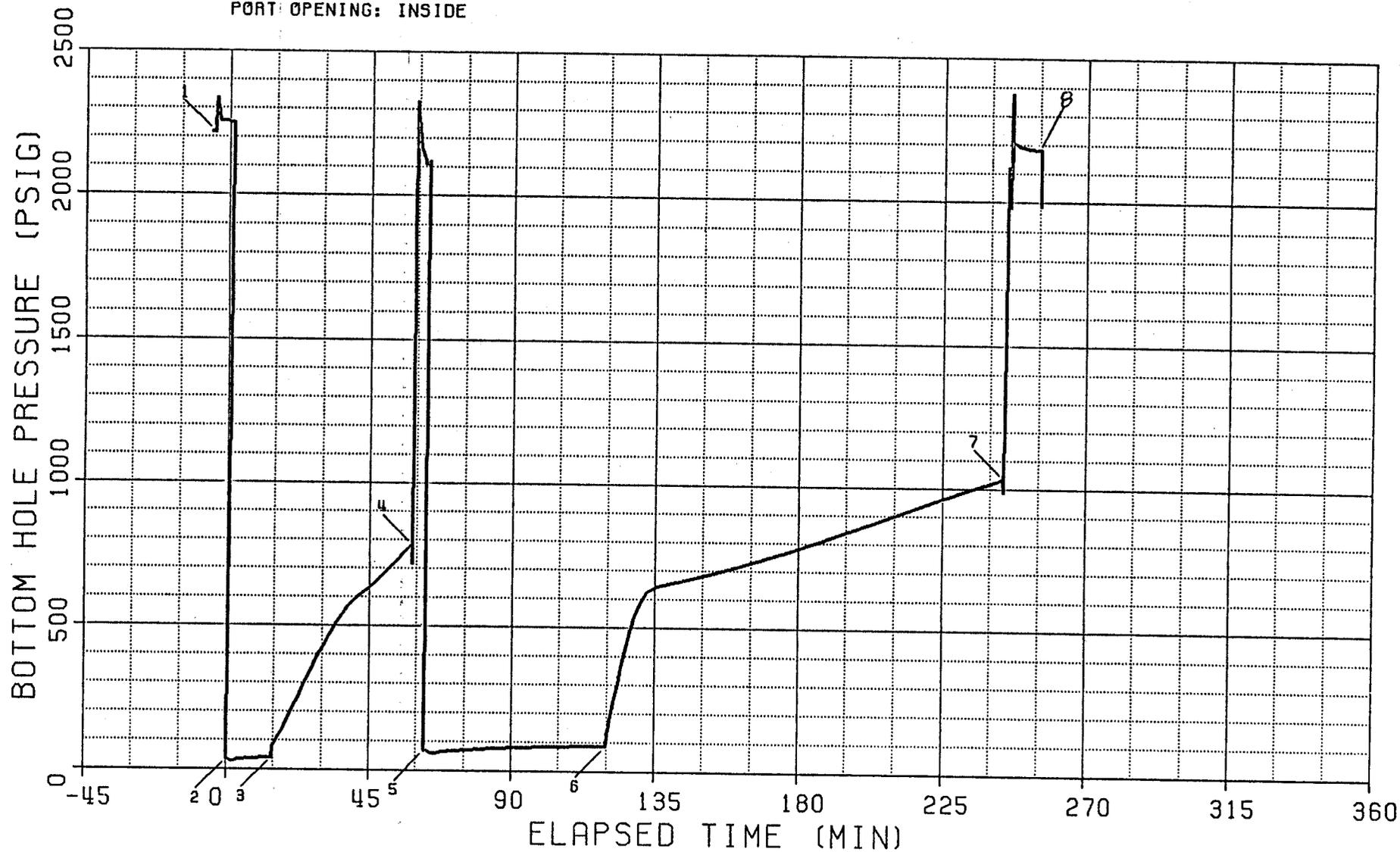


PRESSURE LOG

FIELD REPORT NO. 155410

INSTRUMENT:

NUMBER: J-1043
CAPACITY: 2800 PSI
DEPTH: 4633 FT
PORT OPENING: INSIDE



BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-1043
 PORT OPENING: INSIDE

CAPACITY (PSI): 2800
 BOTTOM HOLE TEMP (F): 108

DEPTH (FT): 4633
 PAGE 1

EXPLANATION	LABELED POINT	PRESSURE (PSIG)	ELAPSED TIME (MIN)
HYDROSTATIC MUD	1	2219	-5.0
START FLOW	2	35	0.0
END FLOW & START SHUT-IN	3	42	14.4
END SHUT-IN	4	783	58.4
START FLOW	5	69	62.6
END FLOW & START SHUT-IN	6	86	119.8
END SHUT-IN	7	1034	244.0
HYDROSTATIC MUD	8	2180	255.2

 * 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	14.4	14.4	35	42
2	62.6	119.8	57.2	69	86

 * 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	14.4	58.4	44.0	42	783	42	14.4
2	119.8	244.0	124.2	86	1034	86	71.6

FIELD REPORT NO. 15541D
INSTRUMENT NO. J-1043TEST PHASE : FLOW PERIOD # 1

ELAPSED TIME (MIN)	DELTA TIME (MIN)	FLOWING PRESSURE (PSIG)
0.0	0.0	35
5.0	5.0	36
10.0	10.0	40
14.4	14.4	42

TEST PHASE : SHUT-IN PERIOD # 1

1. FINAL FLOW PRESSURE ["P_{WF} "] = 42 PSIG
2. PRODUCING TIME ["T_P "] = 14.4 MIN

ELAPSED TIME (MIN)	DELTA TIME ["DT"] (MIN)	SHUT-IN PRESSURE ["P _{WS} "] (PSIG)	LOG [(T + DT)/DT] P	DELTA PRESSURE [P _{WS} - P _{WF}]
14.4	0.0	42		0
15.4	1.0	95	1.187	53
16.4	2.0	116	0.913	74
17.4	3.0	137	0.763	94
18.4	4.0	159	0.662	116
19.4	5.0	179	0.588	137
20.4	6.0	203	0.531	160
21.4	7.0	225	0.485	183
22.4	8.0	246	0.447	204
23.4	9.0	270	0.414	228
24.4	10.0	294	0.387	252
26.4	12.0	342	0.342	300
28.4	14.0	388	0.307	346
30.4	16.0	429	0.278	387
32.4	18.0	469	0.255	427
34.4	20.0	507	0.235	464
36.4	22.0	538	0.218	496
38.4	24.0	568	0.204	526
40.4	26.0	591	0.191	549
42.4	28.0	612	0.180	569
44.4	30.0	627	0.170	585
49.4	35.0	679	0.149	637
54.4	40.0	736	0.133	694
58.4	44.0	783	0.123	741

TEST PHASE : FLOW PERIOD # 2

ELAPSED TIME (MIN) *****	DELTA TIME (MIN) *****	FLOWING PRESSURE (PSIG) *****
62.6	0.0	69
67.6	5.0	65
72.6	10.0	70
77.6	15.0	73
82.6	20.0	76
87.6	25.0	78
92.6	30.0	81
97.6	35.0	82
102.6	40.0	84
107.6	45.0	85
112.6	50.0	86
117.6	55.0	86
119.8	57.2	86

TEST PHASE : SHUT-IN PERIOD # 2

1. FINAL FLOW PRESSURE ["P_{WF} "] = 86 PSIG
2. PRODUCING TIME ["T_P "] = 71.6 MIN

ELAPSED TIME (MIN) *****	DELTA TIME ["DT"] (MIN) *****	SHUT-IN PRESSURE ["P _{WS} "] (PSIG) *****	LOG [(T +DT)/DT] P *****	DELTA PRESSURE [P _{WS} - P _{WF}] *****
119.8	0.0	86		0
120.8	1.0	160	1.861	74
121.8	2.0	218	1.566	131
122.8	3.0	273	1.395	186
123.8	4.0	326	1.276	240
124.8	5.0	378	1.185	292
125.8	6.0	427	1.111	340
126.8	7.0	470	1.050	384
127.8	8.0	508	0.998	422
128.8	9.0	542	0.952	456
129.8	10.0	572	0.911	485
131.8	12.0	611	0.843	524
133.8	14.0	632	0.786	545
135.8	16.0	644	0.738	557
137.8	18.0	649	0.697	563
139.8	20.0	654	0.661	568
141.8	22.0	659	0.629	573
143.8	24.0	664	0.600	578
145.8	26.0	670	0.574	583
147.8	28.0	675	0.551	589
149.8	30.0	681	0.530	594

FIELD REPORT NO. 15541D
INSTRUMENT NO. J-1043TEST PHASE : SHUT-IN PERIOD # 2

1. FINAL FLOW PRESSURE ["P "] = 86 PSIG

2. PRODUCING TIME ["T "] = ^{WF} 71.6 MIN
P

ELAPSED TIME (MIN) *****	DELTA TIME ["DT"] (MIN) *****	SHUT-IN PRESSURE ["P "] (PSIG) WS *****	LOG [(T +DT)/DT] P *****	DELTA PRESSURE [P - P] WS WF *****
154.8	35.0	696	0.484	609
159.8	40.0	712	0.445	625
164.8	45.0	728	0.413	641
169.8	50.0	745	0.386	658
174.8	55.0	763	0.362	676
179.8	60.0	781	0.341	695
184.8	65.0	800	0.322	714
189.8	70.0	819	0.306	733
194.8	75.0	838	0.291	751
199.8	80.0	857	0.277	770
204.8	85.0	877	0.265	790
209.8	90.0	897	0.254	811
214.8	95.0	918	0.244	831
219.8	100.0	939	0.234	852
224.8	105.0	960	0.226	873
229.8	110.0	979	0.218	893
234.8	115.0	999	0.210	913
239.8	120.0	1018	0.203	932
244.0	124.2	1034	0.198	948

JS-164

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JUN 11 1980

DIVISION OF
OIL, GAS & MINING

COMPANY ENERGY RESERVES GROUP, INC. WELL U.S.A. PEARLBROADHURST TEST NO. 1 COUNTY UINTAH STATE UTAH

#8

JOHNSTON
Schlumberger

**technical
report**

F.R. # 15540 D

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

COMPANY:	ENERGY RESERVES GROUP, INC. 3200-633-17TH STREET DENVER, COLORADO 80202	CUSTOMER:	SAME
WELL:	U.S.A. PEARLBROADHURST #8	LOCATION:	SEC. 10 - T7S - R23E
TEST INTERVAL:	4436' TO 4510'	FIELD:	WILD CAT
TEST NO:	1	TEST DATE:	5-26-80
COUNTY:	UINTAH	STATE:	UTAH
TECHNICIAN:	PITT (VERNAL)	TEST APPROVED BY:	MR. HARLEN R. COLLIER

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

TEST TYPE:	M.F.E. OPEN HOLE	DRILL PIPE LENGTH:	3778	FT.
ELEVATION:	5192	DRILL PIPE I.D.:	3.82	IN.
TOTAL DEPTH:	4510	DRILL COLLAR LENGTH:	624	FT.
MAIN HOLE/CASING SIZE:	7 7/8	DRILL COLLAR I.D.:	2.50	IN.
RAT HOLE/LINER SIZE:	-	PACKER DEPTHS:	4432 & 4436	FT.
FORMATION TESTED:	GREEN RIVER		&	FT.
NET PROD. INTERVAL:	-	DEPTHS REF. TO:	KELLY BUSHING	FT.
POROSITY:	15			%

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

SAMPLER PRESSURE:	1175	PSIG
RECOVERED OIL GRAVITY:	-	API @
RECOVERY GOR:	-	FT3/BBL.

SAMPLE CHAMBER CONTENTS				
FLUID	VOLUME	RESIST. (OHM-M)	MEAS. TEMP. (DEG F.)	CHLOR. (PPM)
GAS:	.8 FT.3			
OIL:	- CC			
WATER:	1560 CC	.9	79	1000
MUD:	- CC			
FILTRATE:				
TOTAL LIQUID:	1560 CC			

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

TYPE:	FRESH WATER GEL-LO SOL
WEIGHT:	9.2 LB/GAL.
VISCOSITY:	60 SEC.
WATER LOSS:	- CC
FLUID	RESIST TEMP CHLOR (OHM-M) (DEG F) (PPM)
MUD:	.7 75
FILTRATE:	1.2 72 1200

----- REMARKS -----

UNSUCCESSFUL TEST ; DRILL PIPE LEAKED.

NO. OF REPORTS REQUESTED: 6 (3X)

FIELD REPORT NO. 15540D

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

DESCRIPTION(RATE OF FLOW)	TIME	PRESSURE PSIG	SURFACE CHOKE
SET PACKER	0645	-	-
OPENED TOOL	0648	-	1/4"
BLOW, 1" IN WATER			
BLOW, 3" IN WATER	0652	-	"
BLOW, 5" IN WATER	0701	-	"
CLOSED FOR INITIAL SHUT-IN	0703	-	"
BLOW, 6" IN WATER			
FINISHED SHUT-IN	0748	-	"
RE-OPENED TOOL	0750	-	"
GAS TO SURFACE	0751	1	"
	0825	.75	"
PSI WOULD SURGE FROM 0 TO 50 PSI	0850	-	"
CLOSED FOR FINAL SHUT-IN	0850	-	"
FINISHED SHUT-IN	1050	-	"
PULLED PACKER LOOSE	1053	-	"

CUSHION TYPE: FT PSIG 5/8 IN. BOTTOM CHOKE

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

RECOVERY	FEET	BARRELS	%OIL	%WATER	%OTHERS	API GRAV.	DEG.	RESIST	DEG.	CHL PPM
MUD TO SURFACE	3612	46.24								
TOP SAMPLE								1	73	675
MIDDLE SAMPLE								.6	78	1100
BOTTOM SAMPLE								.7	79	1100

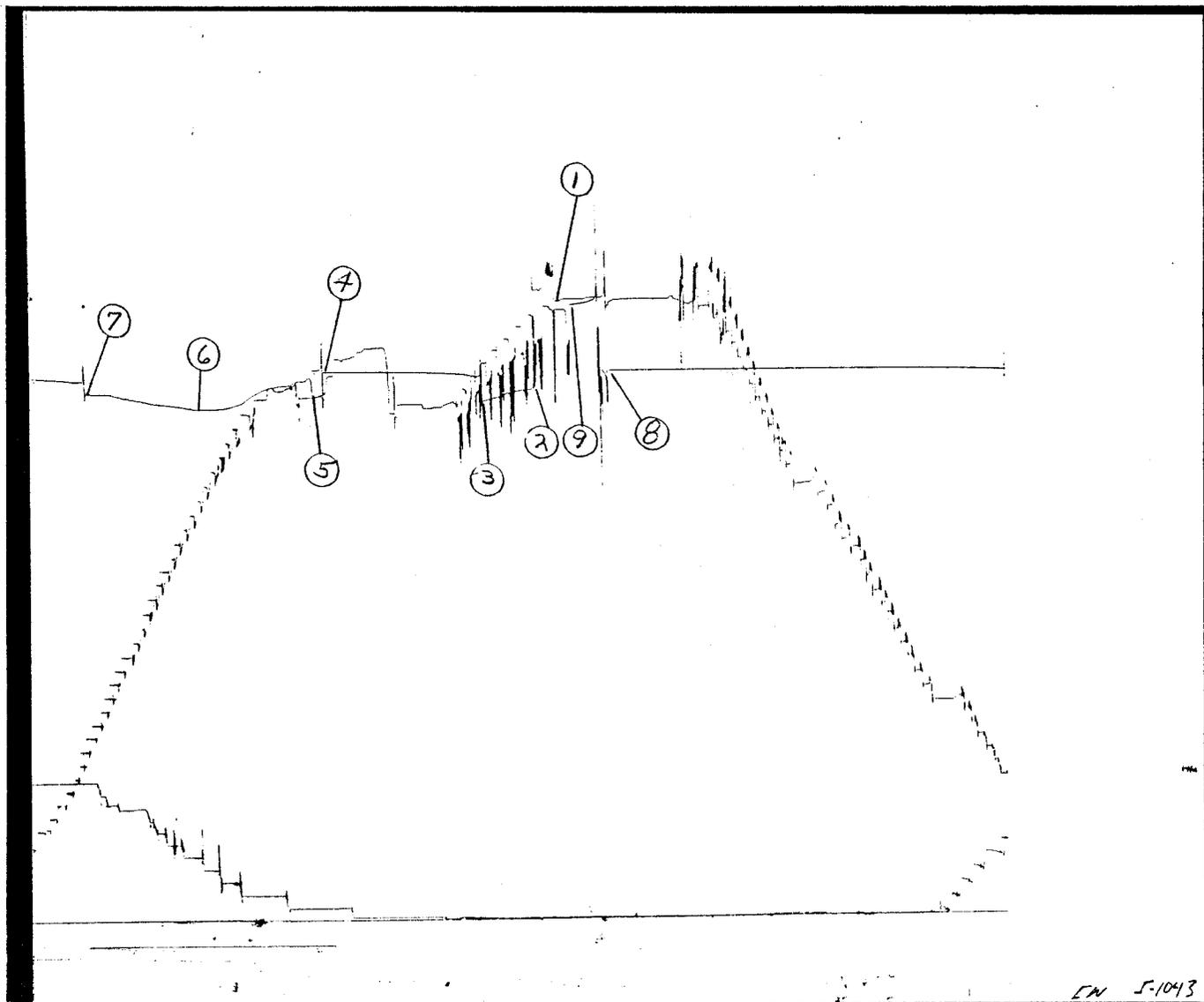
FIELD REPORT NO. 15540D

FIELD REPORT NO.: 15540 D CAPACITY: 2800#

INSTRUMENT NO.: J-1043 NUMBER OF REPORTS: 6-

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UNSUCCESSFUL TEST



PRESSURE LOG

FIELD REPORT NO. 15540D

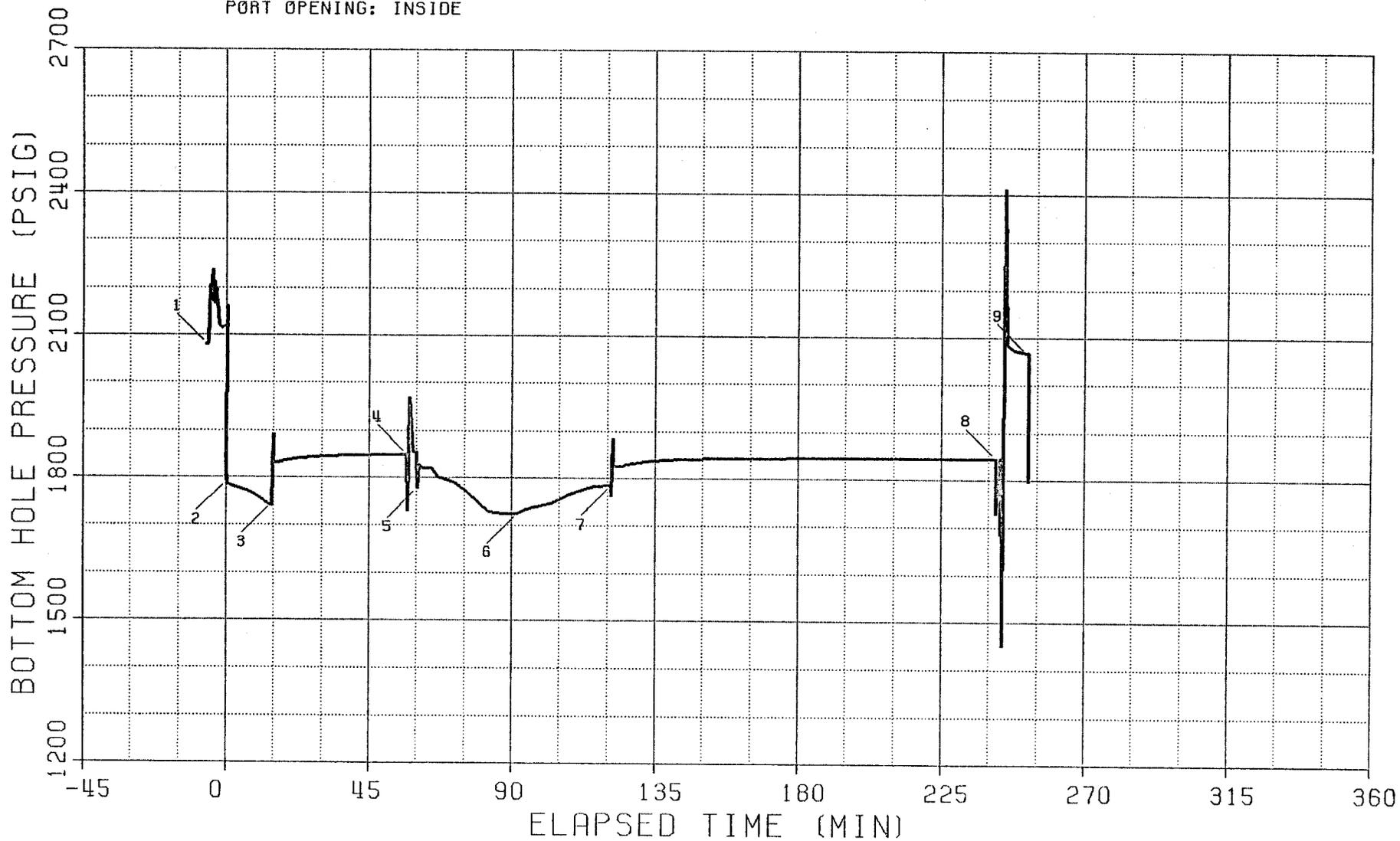
INSTRUMENT:

NUMBER: J-1043

CAPACITY: 2800 PSI

DEPTH: 4442 FT

PORT OPENING: INSIDE



BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-1043
 PORT OPENING: INSIDE

CAPACITY (PSI): 2800
 BOTTOM HOLE TEMP (F): 104

DEPTH (FT): 4442
 PAGE 1

EXPLANATION	LABELED POINT	PRESSURE (PSIG)	ELAPSED TIME (MIN)
HYDROSTATIC MUD	1	2081	-6.2
START FLOW	2	1792	0.0
END FLOW & START SHUT-IN	3	1745	14.3
END SHUT-IN	4	1848	57.0
START FLOW	5	1778	60.1
FLOW POINT	6	1725	91.7
END FLOW & START SHUT-IN	7	1784	121.1
END SHUT-IN	8	1846	242.0
HYDROSTATIC MUD	9	2068	251.7

 * 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	14.3	14.3	1792	1745
2	60.1	121.1	61.0	1778	1784

 * 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	14.3	57.0	42.6	1745	1848	1745	14.3
2	121.1	242.0	120.9	1784	1846	1784	75.3

FIELD REPORT NO. 15540D
INSTRUMENT NO. J-1043TEST PHASE : FLOW PERIOD # 1

ELAPSED TIME (MIN)	DELTA TIME (MIN)	FLOWING PRESSURE (PSIG)
0.0	0.0	1792
5.0	5.0	1775
10.0	10.0	1760
14.3	14.3	1745

TEST PHASE : SHUT-IN PERIOD # 1

1. FINAL FLOW PRESSURE ["P "] = 1745 PSIG
2. PRODUCING TIME ["T "] = 14.3 MIN
P

ELAPSED TIME (MIN)	DELTA TIME ["DT"] (MIN)	SHUT-IN PRESSURE ["P "] (PSIG)	LOG [(T +DT)/DT] P	DELTA PRESSURE [P - P] WS WF
14.3	0.0	1745		0
15.3	1.0	1831	1.185	86
16.3	2.0	1831	0.911	86
17.3	3.0	1834	0.761	89
18.3	4.0	1836	0.661	91
19.3	5.0	1837	0.587	92
20.3	6.0	1838	0.530	94
21.3	7.0	1839	0.483	94
22.3	8.0	1840	0.445	95
23.3	9.0	1841	0.413	96
24.3	10.0	1842	0.386	97
26.3	12.0	1843	0.341	98
28.3	14.0	1843	0.306	99
30.3	16.0	1844	0.277	100
32.3	18.0	1845	0.254	100
34.3	20.0	1845	0.234	100
36.3	22.0	1846	0.218	101
38.3	24.0	1846	0.203	101
40.3	26.0	1846	0.190	101
42.3	28.0	1846	0.179	102
44.3	30.0	1847	0.169	102
49.3	35.0	1848	0.149	103
54.3	40.0	1848	0.133	103
57.0	42.6	1848	0.126	103

FIELD REPORT NO. 15540D
INSTRUMENT NO. J-1043

TEST PHASE : FLOW PERIOD # 2

ELAPSED TIME (MIN)	DELTA TIME (MIN)	FLOWING PRESSURE (PSIG)
60.1	0.0	1778
65.1	5.0	1818
70.1	10.0	1795
75.1	15.0	1775
80.1	20.0	1745
85.1	25.0	1727
90.1	30.0	1725
95.1	35.0	1736
100.1	40.0	1744
105.1	45.0	1756
110.1	50.0	1771
115.1	55.0	1781
120.1	60.0	1784
121.1	61.0	1784

TEST PHASE : SHUT-IN PERIOD # 2

1. FINAL FLOW PRESSURE ["P_{WF} "] = 1784 PSIG
2. PRODUCING TIME ["T_P "] = 75.3 MIN

ELAPSED TIME (MIN)	DELTA TIME ["DT"] (MIN)	SHUT-IN PRESSURE ["P _{WS} "] (PSIG)	LOG [(T +DT)/DT] P	DELTA PRESSURE [P - P _{WS}] WS WF
121.1	0.0	1784		0
122.1	1.0	1826	1.883	42
123.1	2.0	1826	1.587	42
124.1	3.0	1826	1.417	42
125.1	4.0	1827	1.297	43
126.1	5.0	1831	1.206	46
127.1	6.0	1832	1.132	47
128.1	7.0	1833	1.071	48
129.1	8.0	1834	1.018	49
130.1	9.0	1835	0.972	50
131.1	10.0	1835	0.931	51
133.1	12.0	1837	0.862	53
135.1	14.0	1838	0.805	54
137.1	16.0	1839	0.757	55
139.1	18.0	1840	0.715	55
141.1	20.0	1840	0.678	56
143.1	22.0	1841	0.646	57
145.1	24.0	1842	0.617	57
147.1	26.0	1842	0.591	58
149.1	28.0	1842	0.567	58

FIELD REPORT NO. 155400
INSTRUMENT NO. J-1043TEST PHASE : SHUT-IN PERIOD # 2

1. FINAL FLOW PRESSURE ["P "] = 1784 PSIG

2. PRODUCING TIME ["T "] = ^{WF} 75.3 MIN
P

ELAPSED TIME (MIN) *****	DELTA TIME ["DT"] (MIN) *****	SHUT-IN PRESSURE ["P "] (PSIG) *****	LOG [(T +DT)/DT] P *****	DELTA PRESSURE [P - P] WS WF *****
151.1	30.0	1843	0.545	58
156.1	35.0	1844	0.499	59
161.1	40.0	1844	0.460	59
166.1	45.0	1844	0.427	59
171.1	50.0	1844	0.399	59
176.1	55.0	1844	0.375	60
181.1	60.0	1845	0.353	60
186.1	65.0	1845	0.334	60
191.1	70.0	1845	0.317	60
196.1	75.0	1845	0.302	60
201.1	80.0	1845	0.288	61
206.1	85.0	1845	0.276	61
211.1	90.0	1846	0.264	61
216.1	95.0	1846	0.254	61
221.1	100.0	1846	0.244	61
226.1	105.0	1846	0.235	61
231.1	110.0	1846	0.227	61
236.1	115.0	1846	0.219	61
241.1	120.0	1846	0.212	61
242.0	120.9	1846	0.210	61

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
 P.O. 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 1072' FNL 2159' FWL NE/NW

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approximately 18 miles south east of Jensen, Utah

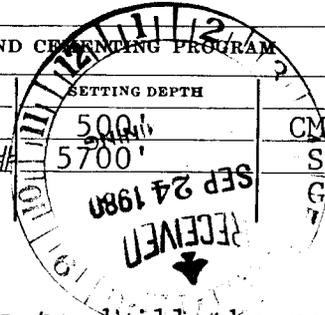
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 481'

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

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 5180 GR (Ungraded)

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#	5700'	Sufficient to protect Green River Formation



5. LEASE DESIGNATION AND SERIAL NO. 02651-A
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 7. UNIT AGREEMENT NAME
 8. FARM OR LEASE NAME
 Broadhurst
 9. WELL NO. 9
 10. FIELD AND POOL, OR WILDCAT
 Walker Hollow
 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 10 T7S-R23E
 12. COUNTY OR PARISH 13. STATE
 Uintah Utah

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
 1528 West North Temple
 Salt Lake City, Utah 84116

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. William J. Jean Field Services Administrator DATE March 17, 1980

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE FOR E. W. GUYNN DISTRICT ENGINEER

APPROVED BY (Orig Sgd.) A. M. RAFFOUL TITLE DATE 23 SEP 1980

CONDITIONS OF APPROVAL, IF ANY: CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

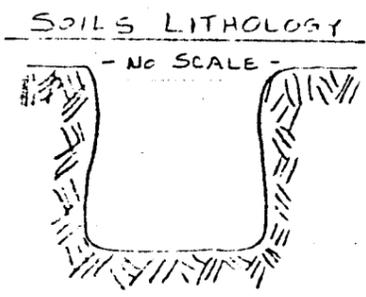
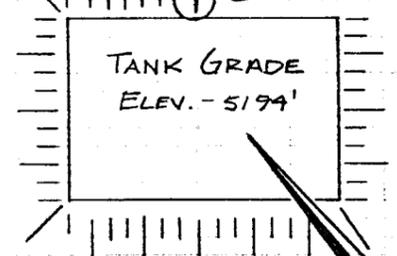
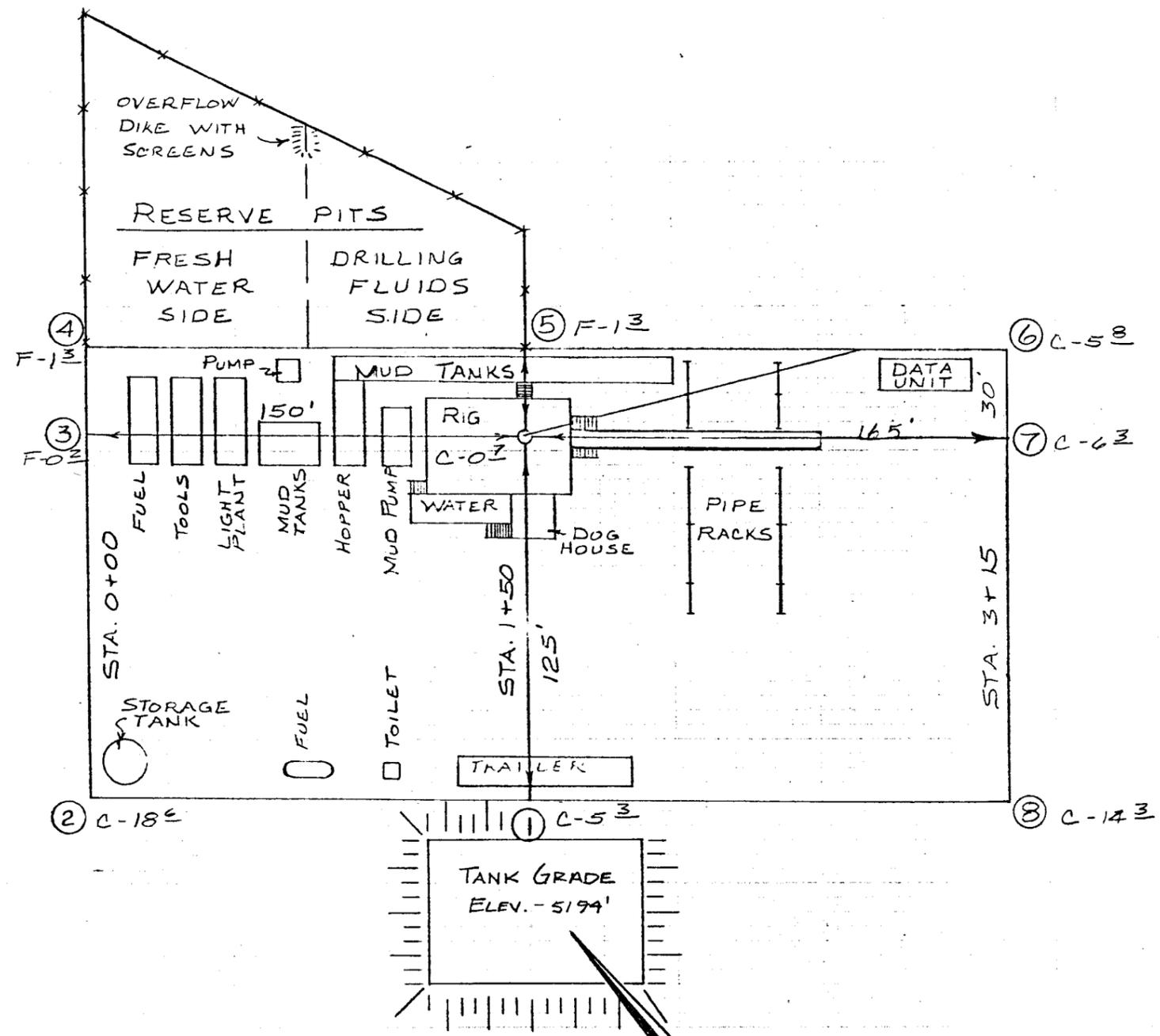
FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80

*See Instructions On Reverse Side

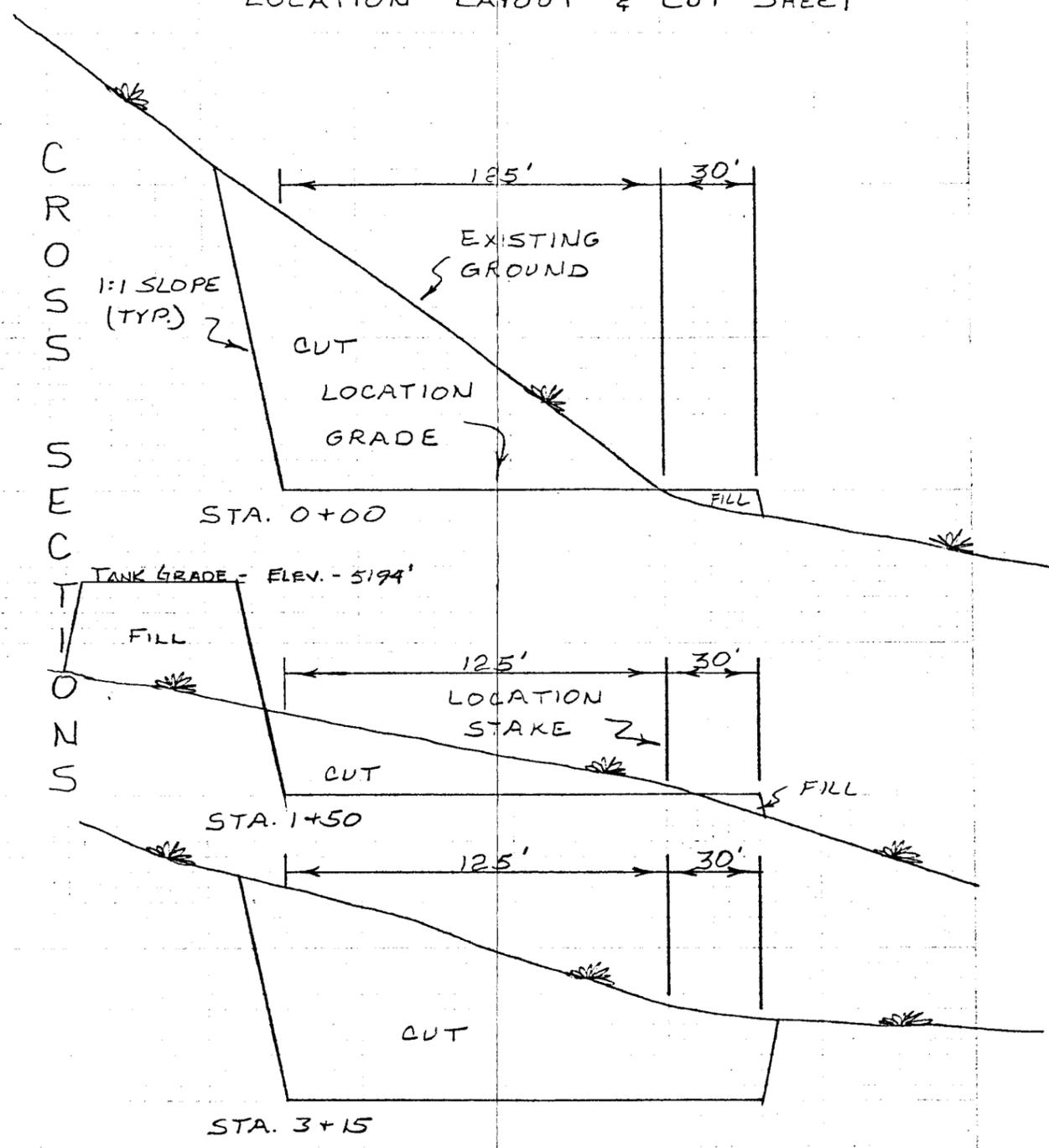
NOTICE OF APPROVAL

ENERGY RESERVES GROUP

PEARL BROADHURST #8
LOCATION LAYOUT & CUT SHEET



SCALE 1"=50'



1"=10'
1"=50'

APPROX YARDAGES	
CUT	- 10,892 CU. YDS.
FILL	- 147 CU. YDS.

NERO
PROPOSED
PEARL BR. WAST

TOPO. MAP "B"



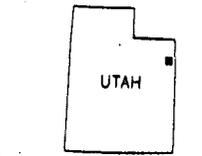
SCALE - 1" = 2000'

ROAD CLASSIFICATION

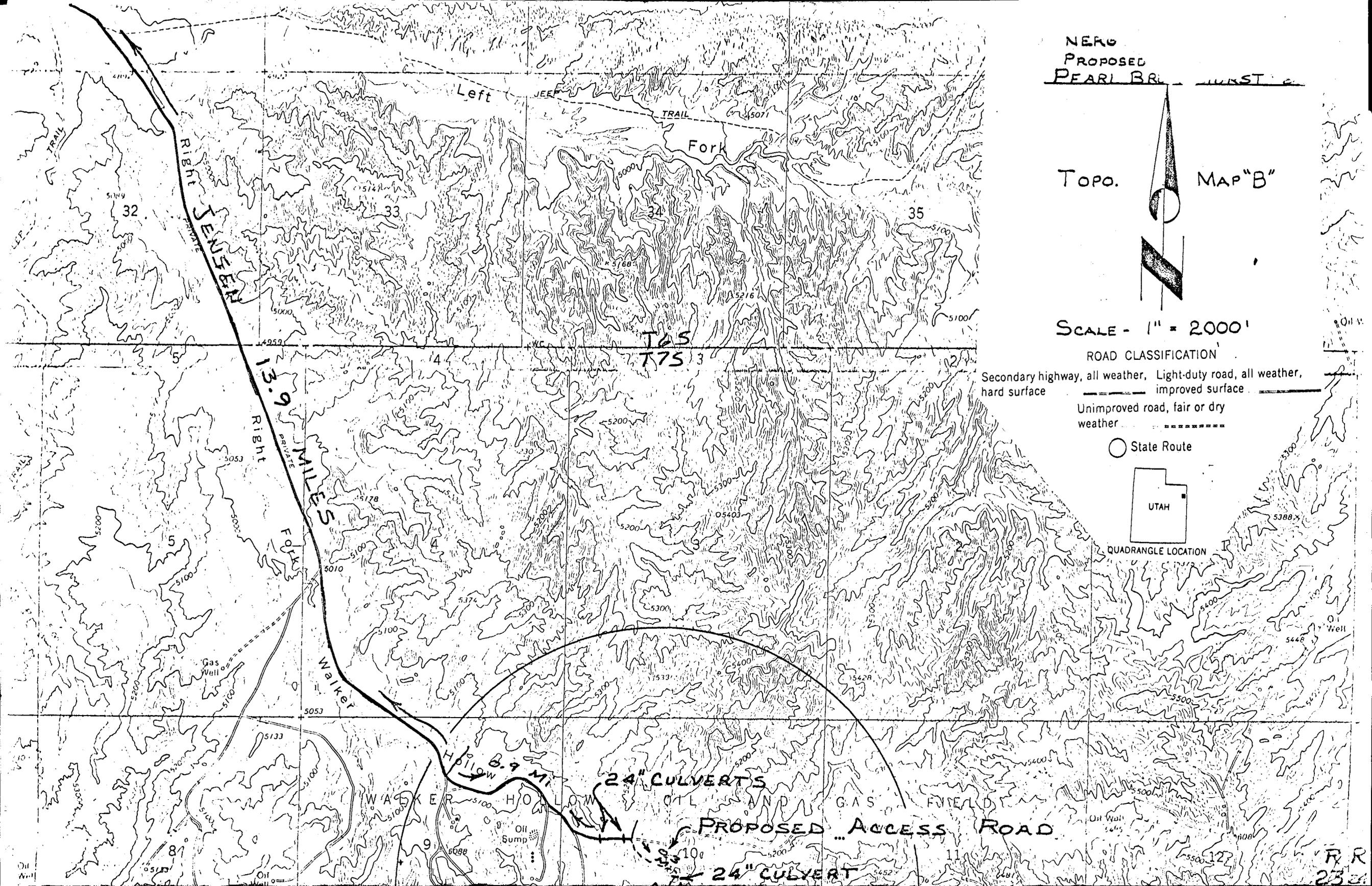
Secondary highway, all weather, hard surface
Light-duty road, all weather, improved surface

Unimproved road, fair or dry weather

State Route



QUADRANGLE LOCATION



Right Jensen

13.9 Miles Right

Left

TRAIL

Fork

TAS
T75

Forks

Walker

Hollow

24" CULVERTS

PROPOSED ACCESS ROAD

24" CULVERT

32

33

34

35

8

9

10

11

12

FR

23

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-02457-A Well No. 8

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*

October 30, 1980

Energy Reserves Group, Inc.
P. O. Box 3280
Casper, Wyoming 82602

RE: Well No. Broadhurst #1
Sec. 10, T. 7S, R. 23E,
Uintah, Utah

Gentlemen:

Our records indicate that you have not filed the monthly drilling reports for the month (S) indicated above on the subject well (s).

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1B, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

Debbie Beauregard
DEBBIE BEAUREGARD
CLERK-TYPIST

**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 1846' FSL & 1967 FWL (NE/SW)

At top prod. interval reported below

At total depth

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

U.S.A. Pearl Broadhurst
9. WELL NO.

8

10. FIELD AND POOL, OR WILDCAT
Walker Hollow

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 10-T7S-R23E

14. PERMIT NO. 43-047-30696 DATE ISSUED 5-5-80

12. COUNTY OR PARISH Uintah 13. STATE Utah

15. DATE SPUDDED 5-15-80 16. DATE T.D. REACHED 6-3-80 17. DATE COMPL. (Ready to prod.) 11-6-80 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* K.B. 5,192' (GRD + 12')

20. TOTAL DEPTH, MD & TVD 5,500' K.B. 21. PLUG, BACK T.D., MD & TVD 5,366' K.B. 22. IF MULTIPLE COMPL., HOW MANY* NA 23. INTERVALS DRILLED BY Surface to T.D. ROTARY TOOLS Cable Tools

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Green River "J" and "K" sands (5,229'-5,341' K.B.)
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#	505' KB	12-1/4"	375 sx Class "B" w/3% Salt + 2% CaCl ₂ & 1/4#/sx Cell of flake	-0-
5-1/2"	14 & 15.5#	5,500' KB	7-7/8"	950 sx 50-50 Pozmix w/8% Gel (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"	5,347' K.B.	none

31. PERFORATION RECORD (Interval, size and number)
5,465'-68', 5,430', 5,420', 5,416', 5,340' 41', 5,335'-36' & 5,303'-05' w/1 JSPF (Green River "K" sand); 5,240'-41', 5,234' 35' & 5,229'-30' w/1 JSPF (Green River "J" sand)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5,416-5,468' KB	Cement Squeeze: (See Back)
5,303'-5,341' KB	Breakdown 1: (See Bac)
5,229'-5,241' KB	Breakdown 2: (See Back)
5,229'-5,341' KB	Fracture: (See Back)

33.* PRODUCTION

DATE FIRST PRODUCTION 10-25-80 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping - 2-1/2" x 1-1/2" x 14' RHBC pump WELL STATUS (Producing or shut-in) Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
11-6-80	24	-----	→	51	NA	18	NA

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
-----	-----	→	51	NA	18	28.8

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
VENTED DURING TEST TEST WITNESSED BY RAY RADKE

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 Bobby Patrick TITLE Prod Engineer- RMD DATE 11-10-80

*(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.)

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP	TRUE VBST. DEPTH
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							
			SEE ATTACHED				
			Continued from page 1 <u>Cementing - 5-$\frac{1}{2}$"</u> ; + 10% salt, 10#/sx Coal-lite, followed w/200 sx RFC + 5#/sx Coalite.	<u>LOG TOPS</u> Uintah Green River "G" zone "H" zone "I" zone "J" zone "K" zone T.D. Logger T.D. Driller	surface 2,780' KB 4,312' KB 4,590' KB 4,812' KB 5,098' KB 5,260' KB 5,498' KB 5,500' KB		
			<u>Cement Squeeze</u> - Set cement retainer @ 5,400' KB & sqz'd perfs @ 5,416'-5,468' KB, which were water pro- ductive w/50 sx Class "H" + additives to 2500 psi. PBTD 5,366' KB.				
			<u>Breakdown 1</u> - BD perfs 5,303'-5,341' KB w/ 500 gal Western 7 $\frac{1}{2}$ % "Spear-head Acid" + additives.				
			<u>Breakdown 2</u> - BD perfs 5,229'-5,241' KB w/ 500 gal Western 7 $\frac{1}{2}$ % "Spear-head Acid" + additives.				
			<u>Fracture</u> - Frac'd perfs 5,229'-5,341' KB w/40,000 gals Western "Super "K" (oil-in-gelled KCl - wtr emulsion) w/33,750# 20-40 sd & 22,500# 10-20 sd using				

Limited entry technique.

FORM OGC-8-X

FILE IN QUADRUPLICATE

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

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number USA Pearl Broadhurst #8

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

Contractor Dreiling Rig #5 Address 410 17th St-Suite 1140 Phone 303-623-6144
Denver, Colorado 80202

Location NE 1/4 SW 1/4 Sec. 10 T. 7S N R. 23E E Uintah County, Utah
S W

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 ± 2,700' and gel-chemical mud from 2,700' to</u>			
3. <u>T.D., with mud weights ranging from 8.9 to 9.2 ppg).</u>			
4. _____			
5. _____			

(Continue on reverse side if necessary)

Formation Tops:

Uintah at surface
Green River 2,780'

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.

DRILL STEM TEST SUMMARY

DST #1

Zone: Green River (Middle G-Zone)
Interval: 4430'-4504' (74')
Type of Test: Bottom Hole (2 packers)
Times: IF 15" ISI 45" FF 60" FSI 120"

Description of Surface Flow: Open W/weak air blow increasing to a fair air blow at end of initial flow period (Comment: While shut-in after initial flow the air blow increased to very strong); Open on final flow W/gas to surface immediately at the rate of 5500 CFPD on 3/8" surface choke; Mud (highly gas charged) to the surface in 45 minutes W/gas surging from 5500 CF (1 pound) to 210 MCF (55 pounds) thru the end of the final flow period and continued for 75 minutes during the final shut-in period.

Drill Pipe Recovery: 3612' slightly oil flecked and highly gas charged (probably over one half of the above recovery is gas trapped in the drill pipe) mud, probably slightly formation water cut near the very bottom.

Sample Chamber Recovery: 1560 CC water and .8 CFG at 1175 PSI.

Resistivities and Chloride Analysis

Rm (Pit Mud) .7 @ 75°; filtrate 1.2 @ 72°; 1200 PPM
R (Surf. Water) 8 @ 75°
Rm (Top Pipe) 1 @ 73°; filtrate 1.3 @ 72°; 675 PPM
Rm (Mid. Pipe) .6 @ 78"; filtrate 1.4 @ 79°, 1100 PPM

FORM OGC-8-X

FILE IN QUADRUPLICATE

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

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number USA Pearl Broadhurst #8

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

Contractor Dreiling Rig #5 Address 410 17th St-Suite 1140 Phone 303-623-6144
Denver, Colorado 80202

Location NE 1/4 SW 1/4 Sec. 10 T. 7S N R. 23E E Uintah County, Utah
S W

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 ± 2,700' and gel-chemical mud from 2,700' to</u>			
3. <u>T.D., with mud weights ranging from 8.9 to 9.2 ppg).</u>			
4. _____			
5. _____			

(Continue on reverse side if necessary)

Formation Tops:

Uintah at surface
Green River 2,780'

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.

DRILL STEM TEST SUMMARY

DST #1

Zone: Green River (Middle G-Zone)
Interval: 4430'-4504' (74')
Type of Test: Bottom Hole (2 packers)
Times: IF 15" ISI 45" FF 60" FSI 120"

Description of Surface Flow: Open W/weak air blow increasing to a fair air blow at end of initial flow period (Comment: While shut-in after initial flow the air blow increased to very strong); Open on final flow W/gas to surface immediately at the rate of 5500 CFPD on 3/8" surface choke; Mud (highly gas charged) to the surface in 45 minutes W/gas surging from 5500 CF (1 pound) to 210 MCF (55 pounds) thru the end of the final flow period and continued for 75 minutes during the final shut-in period.

Drill Pipe Recovery: 3612' slightly oil flecked and highly gas charged (probably over one half of the above recovery is gas trapped in the drill pipe) mud, probably slightly formation water cut near the very bottom.

Sample Chamber Recovery: 1560 CC water and .8 CFG at 1175 PSI.

Resistivities and Chloride Analysis

Rm (Pit Mud)	.7 @ 75°; filtrate 1.2 @ 72°; 1200 PPM
R (Surf. Water)	8 @ 75°
Rm (Top Pipe)	1 @ 73°; filtrate 1.3 @ 72°; 675 PPM
Rm (Mid. Pipe)	.6 @ 78"; filtrate 1.4 @ 79°, 1100 PPM

Rm (Bot. Pipe) .7 @ 79°; filtrate 1.6 @ 79°; 1100 PPM
Rw (Spl. Chamber) .9 @ 79° ----- 1000 PPM

Nitrate Analysis:

Pit Mud - 95 PPM
Top Pipe - 88 PPM
Bot. Pipe - 88 PPM
Spl. Chamber - 52 PPM

Pressures:

Top Recorder:

IH 2089 IF 1785/1745 ISI 1852
FH 2089 FF 1785/1779 FSI 1847

Bottom Recorder:

IH 2142 IF 1816/1770 ISI 1850
FH 2113 FF 1805/1788 FSI 1856

Bottom Hole Temp.: 104°

DST #2

Zone: Green River (H-Zone)
Interval: 4620-4660 (40')
Type of Test: Bottom Hole (2 packers)
Times: IF 15" ISI 45" FF 60" FSI 120"

Description of Surface Flow: Open W/weak air blow increasing to fair air
blow at end of initial flow. Had fair air blow throughout initial shut-in period.

Open W/immediate strong air blow (1# on 3/8" surface choke) increasing to 3# (6500 CF Air/day) at the end of the final flow period (no gas to surface).

Drill Pipe Recovery: 154' mud, gas cut and very heavily cut (flecked) w/dead oil (globs of asphalt).

Sample Chamber Recovery: .18 cu. ft. gas @ 75 PSI and 1300 CC dead oil and mud.

Resistivities and Chloride Analysis:

Rm (Pit Mud)	1.2 @ 60°; filtrate 1.6 @ 60°	450 PPM
R (Surf. Water)	.7 @ 59°	
Rm (Top Pipe)	1.55@ 60°; filtrate 1.3 @ 61°	300 PPM
Rm (Bot. Pipe)	1.66@ 62°; filtrate 1.3 @ 63°	325 PPM
Rm (Spl. Chamber)	1.5 @ 62°; filtrate 1.25@ 63°	300 PPM

Nitrate Analysis:

Pit Mud	- 95 PPM
Top Pipe	-
Bot. Pipe	-
Spl. Chamber	-

Pressures:

Top Recorder

IH 2225	IF 30/42	ISI 786
FH 2208	FF 75/81	FSI 1034

Bottom Recorder

IH 2221	IF 45/51	ISI 788
FH 2215	FF 85/91	FSI 1033

Bottom Hole Temp: 108°

SAMPLE DESCRIPTIONS

- 2000'-2080' Shales, varicolored, maroon, light reddish brown, light yellow brown, light gray and light greenish gray, calcareous, rarely locally silty, soft, platy to occasionally blocky; traces bentonite, rare traces silty argillaceous soft tight light gray very fine sandstone.
- 2080'-2100' Shales, etc. as above; trace secondary calcite (veining) a rare coarse subangular clear to translucent quartz grain and/or fragment.
- 2100'-2180' Shales, etc. as 2000' with traces coarse to very translucent to frosted quartz grains and/or fragments.
- 2180'-2200' Shales, etc. as above with traces to very minor Sandstone, white to gray white, very fine to fine, occasionally medium, subrounded to subangular, locally silty, argillaceous (white clay) and calcareous, tight to traces poor porosity, neg. cut, stain, UVL; trace secondary calcite.
- 2200'-2300' Shales as above, occasional traces very fine to fine light gray sandstone as above, rare traces siltstone.
- 2300'-2340' Sandstones (in part free drilled; loose) dirty white, medium to coarse, locally fine, subrounded to rarely subangular or rounded, loosely consolidated, frangible, slightly calcareous, some white clay infilling (kaolinite), rarely sparsely salt & pepper, trace glauconite spheroids, locally pyritic, some fair to good local porosity, neg. cut, stain, UVL; minor shales as above, trace loose very coarse subrounded quartz grains, traces secondary

calcite and/or marl.

- 2340'-2380' Shales and abundant sandstone, etc., as above.
- 2380'-2400' Shales and traces siltstones as before.
- 2400'-2460' Shales as above some loose translucent to frosted rarely clear subangular to subrounded medium to coarse quartz grains (shales are still varicolored but predominately reddish brown and light gray.)
- 2460'-2540' Shales with minor to some loose quartz (fine to medium) grains as above; traces secondary calcite and/or marl.
- 2540'-2580' Shales with very minor loose quartz grains as above.
- 2580'-2660' Shales as above to traces sandstone, calcite and bentonite.
- 2660'-2760' Shales as above with traces loose quartz grains as before (cavings?) and occasional traces very fine to fine light colored to tight sandstones as siltstones as before.
- 2760'-2780' Shales above with minor to some loose quartz grains as 2460' and sandstone as above.
- 2780'-2800'
(Green River)
(2780') Sandstone, light gray, very fine to fine, subangular to subrounded, sparsely salt and pepper, slightly argillaceous and calcareous, frangible, tight, neg. cut, stain, UVL and minor shale as above; occasional piece pyrite.
- 2800'-2820' Sandstone as above predominately fine grained to rarely locally very fine or medium, traces pyrobitumin, traces poor intergranular

porosity, neg. cut (pale yellow chlorathane fluorescence cut), neg. stain, UVL; traces shale as above.

- 2820'-2840' Sandstone as 2780', predominately dirty white to gray white and brownish white, marly, frangible to medium hard, tight to rare trace, very poor intergranular porosity, neg. cut stain, UVL, with minor shale as before.
- 2840'-2960' Sandstone, dirty white to gray white, light gray, brownish white and light brown, fine to locally very fine and rarely medium, subangular to subrounded, locally angular, argillaceous and calcareous (marly) frangible to medium hard, tight to rare trace poor intergranular porosity, neg. cut stain and UVL; very minor light gray to gray white blocky locally silty and sandy very calcareous (marlstone) shale; trace shales as before.
- 2960'-2980' Sandstone as above becoming more argillaceous and silty with some shale as above rarely grading to a very argillaceous slightly calcareous siltstone; rare trace dead oil stain in traces fine grained chips sandstone, with fair porosity, neg. cut, stain UVL.
- 2980'-3000' Shales varicolored as before and shale as 2840' with minor sandstones as 2840' tight; trace siltstone and traces micaceous (biotite) slightly calcareous, locally slightly silty and sandy bentonite (?) and/or kaolinite.
- 3000'-3040' Shales as above predominately grays and light grays with minor reddish brown and yellow brown; traces sandstone, bentonite and siltstone as above; rare piece pyrite.

- 3040'-3080' Sandstone, dirty white to very light gray, medium to fine, with occasional coarse grains, poorly sorted, subangular to rarely subrounded, calcareous, frangible to friable, locally slightly argillaceous, local fair to poor porosity, neg. cut stain, UVL and some shales, etc. as above.
- 3080'-3100' Shale varicolored as before, predominately reddish brown to brownish red and various shades of grays; very minor sandstone and rare traces bentonite as above; rare chip light colored fresh water limestone.
- 3100'-3200' Shales as above with very minor sandstone (some loose fine to coarse grains; cavings?) and traces bentonite as before, (occasional flecks of pyrobitum~~in~~ on sandstones).
- 3200'-3320' Shales as above with traces sandstone, etc. as above; occasional trace siltstone; rare traces muscovite and biotite micas. (The past 200' of samples are poor.)
- 3320'-3380' Shales as above with occasional traces sandstone, etc., as before; rare piece loose muscovite.
- 3380'-3420' Shales, etc. as above; trace sandstone light brown to light gray, very fine to fine, subangular, slightly calcareous to rarely slightly argillaceous, firm to frangible, poor intergranular porosity, scattered dull yellow fluorescence, light brown stain, very light brown cut (no gas kicks on detectors).
- 3420'-3480' Shales, varicolored, reddish brown to brownish red, light gray to brownish gray and gray, brown, light greenish gray to rarely

dark gray, locally slightly silty, calcareous, medium hard to soft, blocky; rare traces very argillaceous siltstone.

3480'-3500' Shales as above with trace to very minor Sandstone, very light brown to dirty white, very fine, subangular, slightly calcareous, local white clay infilling, medium hard to rarely frangible, rare trace poor intergranular porosity, very faint amber cut, scattered light brown stain, scattered dull yellow fluorescence. (Some of the above brownish shades of shales are probably oil shales). (No gas kicks on detectors.)

3500'-3540' Shales as above with traces Sandstone, dark brown to light gray, very fine, subangular, locally calcareous and argillaceous, medium hard to very rarely frangible, tight to trace very poor intergranular porosity, light amber cut, scattered dark brown stain, trace dull yellow fluorescence in overall sample, bright yellow chloro-
thane fluorescence cut. At 3513' had 11 units gas over background of 4 units total gas and 45 units C₁ on the Chromatograph. At 3531' had 11 units gas over background of 10 units total gas and 62 units C₁ on the Chromatograph.

3540'-3580' Shales, varicolored, light and dark grays, brownish gray, brown to reddish brown, locally dolomitic, locally slightly silty, blocky, medium hard; trace light gray to gray argillaceous and arenaceous microcrystalline hard dolomite; occasional piece bentonite.

3580'-3640' Shales, etc. as above with traces to very minor Sandstone, light brown to brown and light gray and gray, very fine, subangular

slightly calcareous, silty and argillaceous, medium hard to rarely frangible, tight to trace very poor to poor intergranular porosity, very light amber cut, scattered brown stain, neg. UVL (bright, yellow fluorescence chlorothane cut). At 3587' had 20 units gas over background of 10 units and 65 units C₁ on the chromatograph and at 3602' had 35 units over background 5 units and 75 units C₁ on the chromatograph with no good drilling breaks.

- 3640'-3700' Shales, varicolored, light gray, greenish gray, gray, reddish brown, light grayish brown, slightly calcareous and/or dolomitic locally silty, soft to medium hard, blocky, traces sandstone, light gray to gray white, very fine to fine, subangular, slightly calcareous and argillaceous to locally silty, medium hard, tight to rare traces very poor porosity; rare trace dolomite as above; occasional piece muscovite; traces bentonite; an occasional loose angular coarse to very coarse translucent quartz grains and/or fragments.
- 3700'-3720' Sandstone (abundant loose grains), fine to very fine to medium, with occasional coarse grains, poorly sorted, rarely locally sparsely salt and pepper, subangular to rarely subrounded, locally slightly calcareous and/or dolomitic, some white clay infilling, medium hard to frangible, tight to local poor porosity, neg. cut, stain, UVL with some shales as above.
- 3720'-3740' Shales as 3540' and some sandstone as above.
- 3740'-3780' Sandstone (predominately free drilled), medium to fine to occasionally very fine with rare coarse grains, subrounded to occasionally

rounded and subangular, locally slightly calcareous and/or dolomitic, some white clay infilling, frangible to friable to medium hard, inferred to have local fair porosity, neg. cut, stain, UVL with minor shales as 3540' and 3640'; traces calcareous bentonite and/or kaolinite.

3780'-3800' Shales as 3640' and minor sandstone, etc. as above.

3800'-3880' Shales as 3640' with occasional traces fine to very fine, subangular to subrounded, slightly calcareous, argillaceous, medium hard tight to rare traces very poor intergranular porosity, light gray to dirty white sandstone with trace buff to tan and light brown cryptocrystalline argillaceous dolomitic limestone in the 3820' to 3860' samples; traces bentonite as above.

3880'-3900' Sandstone, dirty white to light gray and brown, very fine to fine, subangular to subrounded, locally calcareous and argillaceous (white clay infilling), rarely locally sparsely salt and pepper, frangible to medium hard, tight to traces very poor intergranular porosity (drilling break from 3897'-3916' at 1 1/2 minute per foot), pale amber cut (from a brown chip), traces brown stain, dull yellow fluorescence from brown stained chips (bright yellow fluorescence in chloroethane cut from stained brown chips); no gas kicks on detectors with abundant shales as above.

3900'-3920' Sandstones as above, predominately dirty white to light gray, some poor to fair intergranular porosity, neg. cut, stain, UVL and abundant shale as above; no gas kicks.

- 3920'-3960' Shales as above with minor sandstone as above, tight with minor loose fine to medium, rarely coarse translucent, subrounded to subangular quartz grains.
- 3960'-3980' Shales and very minor tight medium hard sandstone as above.
- 3980'-4010' Shale and abundant Sandstone, dirty white to gray white fine to locally rarely medium and very fine, subangular to subrounded, sparsely salt and pepper, calcareous, white clay infilling, medium hard, tight to traces poor porosity, neg. cut, stain, UVL; trace bentonite.
- 4010'-4030' Shales and traces sandstone as above; occasional piece bentonite.
- 4030'-4040' Sandstone, dirty white to light gray, fine to medium, subangular to subrounded, sparsely salt and pepper, slightly calcareous, local white clay infilling medium hard to frangible, tight to traces local very poor intergranular porosity, neg. cut, stain, UVL and abundant shales as before; trace brown to light brown hard cryptocrystalline limestone; traces bentonite and/or kaolinite.
- 4040'-4050' Shale and some sandstone, etc. as above, a rare very coarse angular light gray opaque chert fragment.
- 4050'-4080' Shales as above with minor tight sandstone as 4030' with a rare granule sized grain; occasional chip limestone as 4030' and a rare very coarse angular fragment of light gray to black chert.
- 4080'-4130' Shales as above with trace to very minor brown to gray argillaceous cryptocrystalline hard limestone; an occasional trace sandstone.

- 4130'-4170' Shales as above with abundant to some sandstone as 4030' with an occasional very coarse quartz grain.
- 4170'-4180' Shales as above with very minor sandstone as above.
- 4180'-4210' Shales as above with traces sandstone and limestone as above and rare traces light gray argillaceous siltstone.
- 4210'-4220' Shales, etc. as above with very minor tight sandstone as 4030'; an occasional very coarse gray black angular chert fragment; (shales are rarely locally pyritic.)
- 4220'-4230' Shales, etc. as above with minor loose very fine to medium translucent subrounded to subangular quartz grains; occasional piece bentonite.
- 4230'-4250' Sandstone (loose) as above, and very minor tight sandstone as 4030' and some shales (varicolored) as above, (had drilling break from 4242'-4271' with 8 units over background and 2 units of gas; no shows in samples).
- 4250'-4260' Shales as above with some medium hard to rarely frangible tight sandstone as 4030'; trace Sandstone, brown, fine, subangular (clear quartz), frangible, poor porosity, pale amber cut, dark brown stain (inferred very heavy), neg. fluorescence, a yellow fluorescence chlorothane cut.
- 4260'-4270' Sandstone as 4030', medium hard, tight and trace brown sandstone as above with some shale as above; trace limestone and a rare very coarse to granule sized white to dark gray to light gray opaque angular chert fragment.

- 4270'-4290' Sandstone as 4030' with minor shale as above; trace chert fragments as above (assumed to be fractured pebbles from the sandstone); traces bentonite.
- 4290'-4300' Sandstone as above with a few black coarse to very coarse subangular to subrounded chert grains and minor loose fine to medium translucent quartz grains; trace granule sized chert fragments as 4260' and very minor shale; trace bentonite.
- 4300'-4310' Sandstone, tight as 4030' with minor shales and trace limestone and bentonite as before.
- 4310'-4320' Sandstone as 4290' with minor Sandstone, brown to light brown to dirty white and light gray fine to very fine, subangular, fragile to medium hard, tight to some poor intergranular porosity, pale amber cut, scattered brown stain and dull yellow fluorescence; bright yellow chloroethane fluorescence cut. Had drilling break from 4311'-4319' and 6 units gas over background of 4 units and 25 units C₁ on the chromatograph; trace shale as above and a trace light brown cryptocrystalline ostracodal oolitic slightly dolomitic hard limestone; trace chert fragments as 4260'; trace shale as before.
- 4320'-4330'
(G-Zone)
(4322') Sandstone as 4290' with traces brown sandstone as above with abundant shale as above; a rare trace chert fragments as above; trace bentonite.
- 4330'-4340' Shales as above with very minor tight sandstone as 4030' with very minor limestone, brown, cryptocrystalline, slightly argillaceous, hard; a rare piece pyrite.

- 4340'-4350' Shales as above with minor tight sandstone as 4030' and very minor light brown to brown sandstone as 4310', slightly calcareous, firm, traces very poor porosity, pale amber cut, scattered brown stain, dull yellow fluorescence, bright yellow chlorothane fluorescence cut; trace limestone as above. Had 8 unit gas over background of 2 units with drilling break from 4345'-4349'.
- 4350'-4360' Sandstone, light gray and brown to brown, fine to locally very fine and medium, subangular to subrounded, sparsely salt and pepper, locally slightly calcareous to argillaceous, medium hard to frangible, tight to some poor to fair intergranular porosity, pale amber cut, scattered brown stain, neg. UVL; yellow chlorothane fluorescence cut; some shales as above; traces limestone and dark gray to milky chert fragments as before. Had drilling break from 4354'-4365' with 16 units gas over background of 2 units with 25 units C₁ on the chromatograph.
- 4360'-4370' Shales as before with traces sandstone as above and 4030'.
- 4370'-4390' Shales as above and sandstone, tight as 4030' and traces to very minor sandstone as 4350'; traces limestone, bentonite and light and dark chert fragments as before with trace shales as before; occasional traces siltstone.
- 4390'-4400' Sandstones tight and shales, etc., as above.
(Comment: For the past 200' to 300' the samples have had abundant cavings and are poor.) No shows.

- 4400'-4430' Sandstone, dirty white to light gray, very fine to fine, occasionally locally medium, subangular to subround, sparsely salt and pepper, calcareous to argillaceous (white clay infilling), medium hard, tight with traces to very minor shales as before; occasional chips limestone and light and dark chert fragments as before.
- 4430'-4450' Shales and Sandstone as above with very minor sandstone, very light brown to brownish white, fine to very fine, subangular, slightly calcareous with trace white clay infilling, local flecks pyrobitumin, frangible to friable, poor to fair intergranular porosity, scattered very light brown stain, very pale amber cut, orange yellow fluorescence, bright yellow chlorothane fluorescence cut. Had drilling break from 4437'-50' and 33 units gas over background of 2 units with 57 units C₁ on chromatograph slight petroliferous odor in sample; traces limestone, light brown, cryptocrystalline, argillaceous, hard; an occasional fragment chert and chip siltstone.
- 4450'-4460' Sandstone, dirty white to light gray and brown, very fine to locally fine and occasionally medium, sparsely salt and pepper, subangular to subrounded, calcareous and locally argillaceous, medium hard, tight and some varicolored, brown to reddish brown, gray, light gray, greenish gray to rarely dark gray, calcareous, locally silty, blocky to rarely platy, medium hard to soft shale.
- 4460'-4470' Shales as above with abundant sandstone, as above, and very minor sandstone, dirty white, very fine to rarely fine, subrounded to subangular, slightly calcareous, frangible to friable, poor

to fair porosity, neg. cut, stain, UWL; an occasional chert fragment (light and dark) as before; trace orthoquartzite; trace bentonite.

- 4470'-4480' Shales, etc., as above with rare chip light brown cryptocrystalline ostracodal limestone.
- 4480'-4490' Shales with some sandstones as above, tight, neg. cut, stain, trace dull white fluorescence; trace orthoquartzite, dark chert fragments and limestone as before.
- 4490'-4500' Shales as before locally dark gray hard and dolomitic and minor sandstone as above, tight with traces brown to light brown hard, black pelletal (black spheroids, probably oolites) argillaceous and locally silty and sandy clastic limestone; trace light brown limestone as before, locally marly; rare chip orthoquartzite, hard; no shows and/or breaks.
- 4500'-4510' Sandstone as 4450' and abundant shale as 4450'; traces limestone as 4430', chert and bentonite as before.
- 4510'-4530' Shale and some sandstone as above; traces limestone and bentonite as before.
- 4530'-4550' Shales as above with very minor sandstone as above; rare chips limestone and bentonite.
- 4550'-4570' Sandstone and minor interbedded shales as 4450'; traces argillaceous brown cryptocrystalline hard limestone; rare traces bentonite.

- 4570'-4580' Sandstone, etc., as above with traces sandstone, gray white to light gray, fine to very fine, subangular to subrounded, slightly calcareous and argillaceous, medium to rarely frangible, poor to very poor porosity, very pale amber cut, spotty brown stain, trace dull yellow fluorescence; bright yellow chlorathane, cut fluorescence. Had drilling break 4572'-82' and 15 units gas over 5 unit background with 33 units C₁ on chromatography (samples have been poor and full of cavings.)
- 4580'-4600' Shales and minor sandstones as 4450' with a rare chip light brown and gray arenaceous argillaceous ostracodal clastic limestone grading to a very calcareous sandstone.
- 4600'-4610'
(H-Zone)
(4600') Shales and very minor sandstone, predominately very fine as 4450'; traces calcareous argillaceous very fine sandy hard siltstone; rare chip limestone as before.
- 4610'-4620' Shale, light gray to gray, locally very silty, rarely locally very fine sandy, dolomitic grading occasionally to a very fine sandy argillaceous dolomitic hard siltstone; traces light gray very fine dolomitic silty sandstone.
- 4620'-4630' Sandstone, dirty white to light brown, very fine to fine, subangular to subrounded, very sparsely salt and pepper, slightly calcareous, frangible to rarely friable, occasionally firm, a rare glauconite spheroid, fair to some poor intergranular porosity, fair light brown to brown stain, very pale amber cut, yellow to brownish yellow fluorescence; bright yellow fluorescence chloroathane cut. Had drilling break from 4623'-30' with 50 units gas over 7 units

background and 71 C₁, 25 C₂, 2 1/2 C₃ and 1 C₄ units on chromatograph with abundant shales as 4610' and 4450' and very minor sandstone as 4450' and traces limestone and bentonite as before.

4630'-4650' Shales as 4610' and 4450' and sandstone as 4450' with very minor sandstone as above with shows as above (cavings?) with an occasional chip of limestone as before.

4650'-4660' Shales as above and some sandstone, light gray to gray white, very fine, slightly calcareous and/or dolomitic, argillaceous to very argillaceous, hard and tight with trace limestone as before.

4660'-4690' Sandstone as above, very fine to fine, subangular, sparsely salt and pepper, hard, tight and minor to very minor shales as above.

4690'-4720' Shales as 4630' with very minor sandstone as above; traces bentonite and limestone, ostracodal as before in 4710' and 4720', trace sandstone, brown, fine to very fine, subangular, slightly calcareous, frangible, poor to very poor porosity, pale amber cut, brown stain, yellow fluorescence.

4720'-4760' Shales as above with traces sandstone as above and as 4650'. Had drilling break from 4735'-40' with 42 units gas over 5 units with 30 units C₁ and drilling break from 4749'-51' with 29 units gas over 6 units with 30 C₁; occasional chip light brown limestone and white slightly calcareous bentonite as before.

4760'-4830' Shales varicolored as 4630' with traces sandstone as 4450' and 4460' with occasional traces light brown to tan and brown argillaceous

cryptocrystalline limestone, locally marly.

- 4830'-4840'
(I-Zone)
(4833') Shales, etc. as above with trace gray to light gray to light brown cryptocrystalline oolitic locally arenaceous clastic ostracodal limestone; slight increase of tight sandstones as before.
- 4840'-4870' Sandstone, light gray to dirty white, fine to very fine, rarely medium, subangular to subrounded, locally very sparsely salt and pepper calcareous to argillaceous, medium hard to frangible, tight to rare traces poor porosity, neg. cut, stain, UVL with minor shales and limestones as 4760' and 4830'; trace dark gray very argillaceous ostracodal cryptocrystalline to microcrystalline limestone in 4870'; rare piece pyrite.
- 4870'-4890' Shales and some sandstone as above, tight with minor limestone as above.
- 4890'-4910' Shales and minor sandstone and limestone as above.
- 4910'-4930' Shales and minor sandstone and traces limestone 4760' with rare very coarse to coarse subangular to subrounded gray to light gray and dark gray opaque to rarely translucent chert grains and/or fragments.
- 4930'-4960' Shales and traces sandstone as above with minor tan to light brown cryptocrystalline argillaceous ostracodal oolitic clastic limestone, locally marly; a rare chip sandstone, dirty white, fine, subangular, frangible, poor to fair porosity, spotty brown to brownish black stain, neg. cut, UVL in 4940', 4950, and 4960' samples.

- 4960;-4970' Shales with very minor sandstone as 4840'; limestone as 4760' and 4930'.
- 4970'-4990' Shales and minor sandstones and limestones as above.
- 4990'-5010' Shales, locally sandy and some sandstones as above, with very minor to traces limestones as before; traces very fine sandy argillaceous calcareous light gray siltstone.
- 5010'-5020' Shales as above with abundant sandstones as above, poorly sorted, very fine to medium, subangular to subrounded, sparsely salt and pepper, calcareous to argillaceous, medium hard, tight, neg. cut, stain UVL; a rare loose chert and/or quartz grain as 4910'; traces limestones as 4960'.
- 5020'-5030' Shales and some sandstones as above with traces limestones as above.
- 5030'-5050' Shales and traces sandstone and rare traces limestone as above.
- 5050'-5070' Sandstones as 5010' and minor shales and traces limestone as above; traces poor porosity in sandstones.
- 5070'-5110' Shales and minor sandstone and traces limestone as above, a rare chert fragments and/or grains as before.
- 5110'-5150'
(J-Zone)
(5110'?) Shales and slight increase in interbedded sandstones as above, traces limestone.
- 5150'-5180' Shales and some interbedded sandstones as above, predominately light gray to dirty white, fine to very fine, rarely medium, locally sparsely salt and pepper, calcareous to locally argilla-

ceous, medium hard, tight with a rare piece pyrite; traces calcareous bentonite?

- 5180'-5190' Sandstone as above, frangible to medium hard, a rare trace, very poor intergranular porosity, neg. cut, stain, UVL with very minor varicolored shales as before; traces calcareous bentonite.
- 5190'-5220' Shales and very minor interbedded sandstones as 5150' and 5180'.
- 5220'-5230' Sandstone as above, tight to rare trace very poor porosity, rare trace light brown stain, very pale amber cut, bright yellow chlorathane fluorescence cut, trace yellow fluorescence in overall sample with minor shales and traces very fine sandy siltstone.
- 5230'-5250' Shales and very minor sandstones as above with same shows, had drilling break 5232'-36' with 3 units gas over 2 units background and 5 C₁ and breaks with same gas kicks at 5238'-39 and 5243'-44'.
- 5250'-5260' Shales and traces sandstone as 5180', no shows and/or breaks.
- 5260'-5270' Shales and very minor sandstone, tight as 5180' with traces sandstone very light brown, fine to very fine, subangular, frangible, poor porosity, neg. cut, possible light brown stain, yellow fluorescence, bright yellow chlorothane cut fluorescence; an occasional chip limestone as 4720'.
- 5270'-5300'
(K-Zone)
(5272') Shales and traces sandstones as above; trace yellow fluorescence, neg. cut, stain, no drilling breaks and/or gas kicks.
- 5300'-5310' Sandstone, very light gray to light brown, very fine, subangular, calcareous to silty and slightly argillaceous, medium hard to

frangible, tight, neg. cut, some brown dead oil stain, neg. fluorescence with some varicolored shale as before, predominately dark gray to gray, slightly calcareous to calcareous, locally silty, medium hard to soft, blocky to platy. Had drilling break from 5306'-5309' with 6 units gas over 2 unit background and 10 C₁, 4 C₂, and 2 C₃ which is associated with the shows in the 5320' sample.

5310'-5330' Shale and some sandstone as above, locally fine grained, trace very poor to poor porosity, trace light brown stain, trace yellow fluorescence, bright yellow chlorothane cut fluorescence, very pale amber cut; trace light brown locally sandy argillaceous cryptocrystalline hard limestone; rare piece pyrite (most of the past 1000' of samples have had abundant uphole cavings); traces dirty white very fine to medium subrounded calcareous salt and pepper medium hard tight sandstone.

5330'-5380' Shales varicolored, light and dark gray, reddish brown to brown, etc., locally calcareous and silty, medium hard to soft, blocky to rarely platy and very minor to minor sandstones as 5300' and 5310' with traces coarse black chert grains; traces argillaceous calcareous light gray siltstone; no shows.

5380'-5420' Shales varicolored as above, predominately soft, hackly light grayish green to green and gray calcareous shales; traces to minor sandstones, very light gray to dirty white, very fine, locally grading to silt size) subangular, calcareous, medium hard to rarely frangible, tight, neg. cut, stain, trace yellow to yellow white fluorescence; trace sandstones as above; a rare

chip limestone.

- 5420'-5450' Shales, predominately various shades of grays as above and sandstone, dirty white to very light gray, very fine to fine, subrounded to subangular, locally sparsely salt and pepper, calcareous to slightly calcareous and argillaceous (white clay) frangible, some local poor to fair porosity, neg. cut, stain, trace pale yellow fluorescence; traces slightly calcareous bentonite; traces siltstone; a rare chip limestone; trace coarse translucent to opaque subangular chert and quartz grains in the 5450' sample (samples continue to be poor).
- 5450'-5460' Shales and some sandstones as above, tight, neg. cut, stain, and UVL; occasional chip limestone and occasional coarse to very coarse angular milky to light gray loose chert fragments.
- 5460'-5480' Shales and some to abundant sandstone as above, tight to traces poor to fair intergranular porosity, neg. cut, rare trace dead oil stain, trace yellow fluorescence, no gas kicks; traces bentonite and limestone as before.
- 5480'-5490' Sandstone, predominately dirty white, and shales with traces limestone as above, tight, no shows, no gas kicks.
- 5490'-5500' Sandstone, dirty white, very fine to locally fine, subangular, calcareous, locally argillaceous (white clay infilling), locally silty, frangible to medium hard, tight to some poor to rarely fair intergranular porosity, neg. cut, stain, UVL, no gas kicks and very minor shales as above, predominately various shades of

gray with a trace bentonite and an occasional chip of light brown limestone as before.

Total Depth: 5500' Driller 5498' Logs

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
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.* See also space 17 below.)
At surface
1846' FSL & 1967' FWL (NE/SW)

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
KB 5192' (GRD + 12')

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.
8

10. FIELD AND POOL, OR WILDCAT
Walker Hollow Field

11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA
Section 10 T7S-R23E

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 checked="" type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

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

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

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 workover the subject well as follows. Estimated starting date is April 29, 1985.

1. MI RUSU. Pull rods & pump. Release tbg anchor. Install BOPE. TOOH.
2. PU 5 1/2" casing scraper and TIH to 5366'. TOOH.
3. Reperforate the following Green River intervals 5340'-42', 5333'-37', 5302'-05', 5239'-40', 5233'-35' & 5228'-29'. Perforate the following Green River intervals 5292'-95', 4730'-33' & 4618'-22'. All perforations will be at 3 JSPP.
4. PU 5 1/2" casing scraper and TIH to 5366'. TOOH.
5. Acidize each 1 ft perforated interval w/1 bbl of 15% HCl acid plus additives using Baker Service Tools "SAP" tool.
6. Swab back acid.
7. TIH w/tubing and tubing anchor. Set tubing anchor at ± 4550' and land tubing at ± 5340'. ND BOPE.
8. TIH w/pump and rods. RD MOSU.
9. Start well pumping.

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

DATE: 5/5/85
BY: John R. Daga

Federal approval of this action
is required before commencing
operations.

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

SIGNED Bobby Patrick
Bobby Patrick

TITLE Petroleum Engineer

DATE 4-24, 1985

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-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 State requirements.* See also space 17 below.) At surface 1846' FSL & 1967' FWL (NE/SW)		8. FARM OR LEASE NAME USA Pearl Broadhurst
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 5192' (GRD + 12')	9. WELL NO. 8
		10. FIELD AND POOL, OR WILDCAT Walker Hollow Field
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 10 T7S-R23E
		12. COUNTY OR PARISH Uintah
		13. STATE Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	
(Other) _____		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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

Energy Reserves Group, Inc., completed the workover on the subject well as follows from April 26 to May 7, 1985.

1. MI RUSU. Pull rods and pump. Release tbg anchor. Install BOPE. TOOH.
2. PU 5 1/2" casing scraper and TIH to 5353'. TOOH.
3. Reperforate the following Green River intervals 5340'-42', 5333'-37', 5302'-05', 5239'-40', 5233'-35' and 5228'-29'. Perforate the following Green River intervals 5292'-95', 4730'-33' and 4618'-22'. All perforations will be at 3 JSPF.
4. PU 5 1/2" casing scraper and TIH to 5353'. TOOH.
5. Acidize each 1 ft perforated interval w/1 bbl of 15% HCl acid plus additives using Baker Service Tools "SAP" tool.
6. Swab back acid.
7. TIH w/tubing and tubing anchor. Set tubing anchor at ± 4550' and land tubing at ± 5340'. ND BOPE.
8. TIH w/pump and rods. RD MOSU.
9. Start well pumping.

RECEIVED

MAY 22 1985

DIVISION OF OIL
GAS & MINING

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

SIGNED Bobby Patrick TITLE Petroleum Engineer DATE 5-17-85
Bobby Patrick

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

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



September 17, 1985

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

*Broadhurst #8
75.23E.10 Uintah Co.*

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.

A handwritten signature in cursive script, appearing to read 'Dale Belden', written over a horizontal line.

Dale Belden
District Clerk
Rocky Mountain District

DB/mz

Enclosure

OCT 25 1985

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

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

00021a

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
USA Pearl Broadhurst

9. WELL NO.
8

10. FIELD AND POOL, OR WILDCAT
Walker Hollow

11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 10, T7S, R23E

12. COUNTY OR PARISH
Uintah

13. STATE
Utah

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
BHP Petroleum (Americas) Inc.

3. ADDRESS OF OPERATOR
5613 DTC Parkway, Ste. 600, Englewood, CO. 80111

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
1846' FSL & 1967' FWL (NE/SW)

14. PERMIT NO.
43-047-30696

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
KB 5192' (Grd + 12')

RECEIVED
DIVISION OF OIL, GAS & MINING
JAN 29 1987

DIVISION OF OIL, GAS & MINING

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) <input type="checkbox"/>	(Other) <input type="checkbox"/>
(Other) <input type="checkbox"/>	TA <input checked="" type="checkbox"/>	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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

The subject well was shut-in January 20, 1987 due to uneconomic operations. The January 7, 1987 test rate was 3 B0 & 123 BW. BHP proposes to leave the well shut-in until oil prices recover.

18. I hereby certify that the foregoing is true and correct
SIGNED Paul W. Adam TITLE Petroleum Engineer DATE 1/27/87

(This space for Federal or State office use)

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

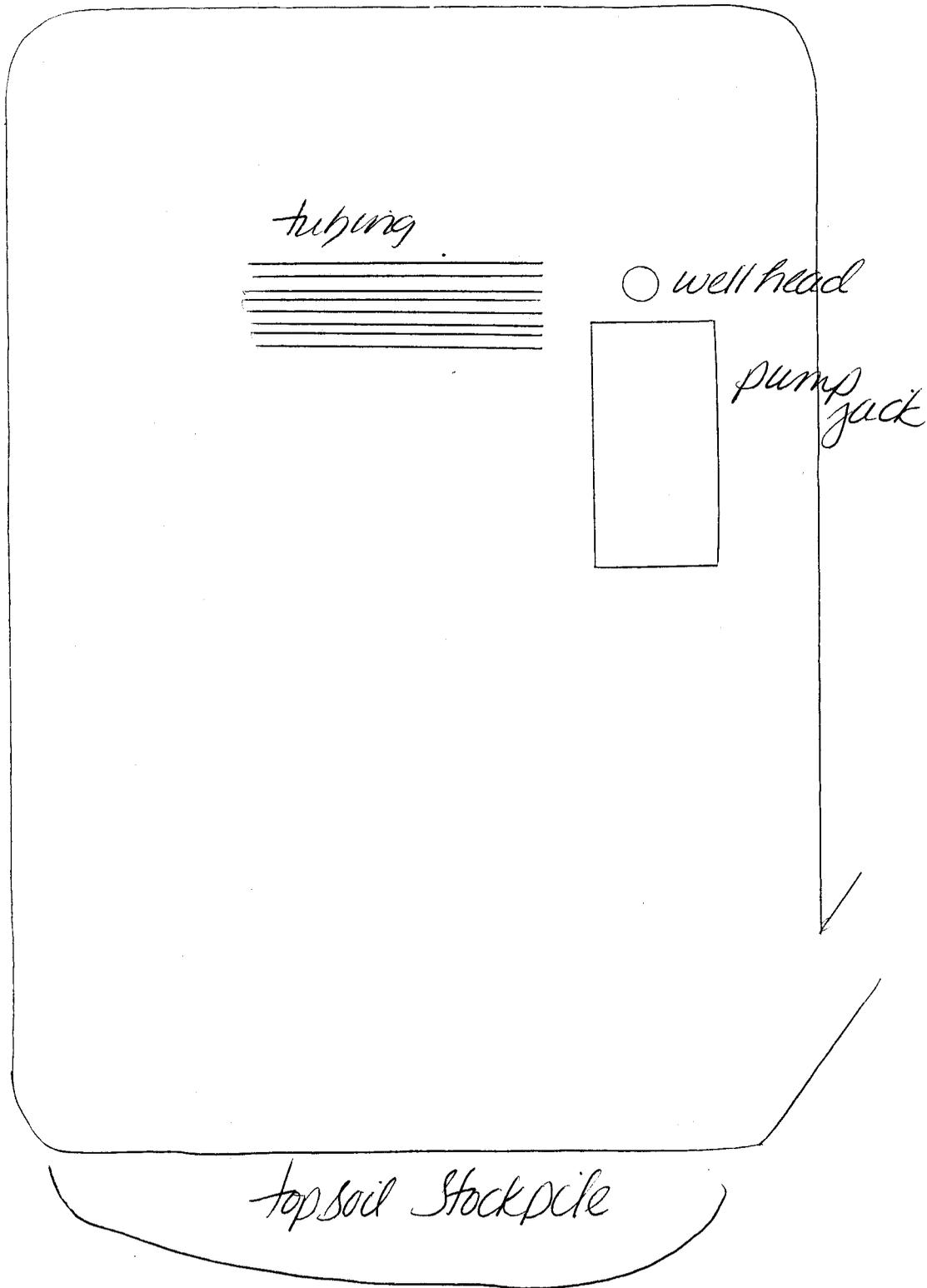
Leant Broad Hunt #8

Sec 10, T8, R3E

Chubb

9/28/99

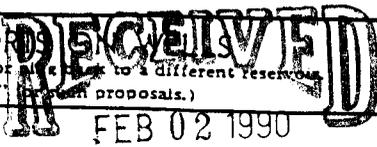
42,381 50 SHEETS 5 SQUARE
42,382 100 SHEETS 5 SQUARE
42,383 200 SHEETS 5 SQUARE



STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

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

SUNDRY NOTICES AND REPORTS
(Do not use this form for proposals to drill or to deepen of a well to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)



6. IF INDIAN ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

1. OIL WELL GAS WELL OTHER

8. FARM OR LEASE NAME
U.S.A. Pearl Broadhurst

2. NAME OF OPERATOR
BHP PETROLEUM (AMERICAS) INC. DIVISION OF OIL, GAS & MINING

9. WELL NO.
8

3. ADDRESS OF OPERATOR
1560 Broadway, Suite 1900, Denver, CO 80202

10. FIELD AND POOL, OR WILDCAT
Walker Hollow Field

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface 1846' FSL & 1967' FWL (NE/SW)
At proposed prod. zone

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 10, T7S-R23E

14. API NO.
43-047-30910

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5192' KB (GR + 12')

12. COUNTY
Uintah

13. STATE
Utah

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

NOTICE OF INTENTION TO:

- TEST WATER SHUT-OFF
- FRACTURE TREAT
- SHOOT OR ACIDIZE
- REPAIR WELL
- (Other)
- PULL OR ALTER CASING
- MULTIPLE COMPLETE
- ABANDON
- CHANGE PLANS

SUBSEQUENT REPORT OF:

- WATER SHUT-OFF
- FRACTURE TREATMENT
- SHOOTING OR ACIDIZING
- (Other) Shut-in Well
- 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.

The subject well is shut-in because it is uneconomical to produce at the current oil price. To plug the well at this time would leave potential future reserves unattainable. For these reasons, BHP is requesting approval to continue to leave the well shut-in.

OIL AND GAS	
<input checked="" type="checkbox"/>	RIF
<input checked="" type="checkbox"/>	GLH
<input type="checkbox"/>	SLS
<input type="checkbox"/>	
<input type="checkbox"/>	
<input checked="" type="checkbox"/>	MICROFILM
<input checked="" type="checkbox"/>	FILE

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

SIGNED Daniel H. Sallee

TITLE Engineer, Northern Rockies

DATE 1-31-90

(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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Serial Number:
U02651-A

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Well Name and Number: NO. 8
U.S.A. PEARL BROADHURST

9. API Well Number:
43-047-30696

10. Field and Pool, or Wildcat:
WALKER HOLLOW FIELD

County: UINTAH
State: UTAH

1. Type of Well: OIL GAS OTHER:

2. Name of Operator:
BHP PETROLEUM (AMERICAS) INC.

3. Address and Telephone Number:
P.O. BOX 977 FARMINGTON NM 87499 (505) 327-1639

4. Location of Well
Footages: 1846' FSL & 1967' FWL
OO. Sec., T., R., M.: NE/SW SEC. 10, T7S, R23E

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT
(Submit in Duplicate)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Multiple Completion
- Other _____
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other ANNUAL STATUS REPORT
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

WELL WAS SHUT IN DUE TO ECONOMICS, AN INCREASE IN OIL PRICES WOULD RETURN THIS WELL TO ACTIVE STATUS.

RECEIVED

MAR 01 1993

DIVISION OF
OIL GAS & MINING

13. Name & Signature: JREN Lowly Title: OPERATIONS SUPT. Date: 2-22-93

(This space for State use only)

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

5. LEASE DESIGNATION & SERIAL NO.

SEE BELOW

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.)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

SEE BELOW

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

BHP Petroleum (Americas) Inc. (PREVIOUS OPERATOR)

3. ADDRESS OF OPERATOR

5847 San Felipe, Suite 3600, Houston, Texas 77057

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

9. WELL NO.

SEE ATTACHED

10. FIELD AND POOL, OR WILDCAT

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

14. API NO.

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

12. COUNTY

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

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON

REPAIR WELL

CHANGE PLANS

(Other)

APPROX. DATE WORK WILL START

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other) CHANGE OF OPERATOR

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

DATE OF COMPLETION

5/01/93

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

USA Pan American

Roosevelt Unit Wasatch

LEASE #: UTU02651A

UTSL065759

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 Koltic

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 T7S R22E	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 T5S 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 T1S 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

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

RECEIVED
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. 8 (see at Pearl Broadhurst exhibit)

9. API Well No. 43-047-30696 (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.

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

DIVISION OF
OIL, GAS & MINING

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 change of operator
	<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. *[Signature]*
GEOL. _____
E.S. _____
PET. _____
A.M. _____

SEP 23 1993

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

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

(This space for Federal or State office use)

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

Conditions of approval, if any:

Routing:

1-VLC/GH-2
2-DTS/57-SJ
3-VLC-8-FILL
4-RJR
5-LEC
6-PL

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 002651A
 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

- See* 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)*
- See* 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)*
- 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) yes If yes, show company file number: U 92898.
- 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. *(9-28-93)*
- See* 6. Cardex file has been updated for each well listed above. *(9-28-93)*
- See* 7. Well file labels have been updated for each well listed above. *(9-28-93)*
- See* 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)*
- 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

- Yes 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)

- Yes 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- Yes 2. A copy of this form has been placed in the new and former operators' bond files.
- Yes 3. The former operator has requested a release of liability from their bond (yes/no) no. Today's date _____ 1993. If yes, division response was made by letter dated _____ 1993.

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 _____ 1993, 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.
OTS 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

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

COMMENTS

930920 O/W Manual Approved 9-10-93. (Lease 111102651-A Only.) O/W 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					
✓ 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								
4304730787	00225	07S 23E 10	GRRV					
✓ PEARL BROADHURST 10								
4304730839	00225	07S 23E 9	GRRV					
✓ 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: _____

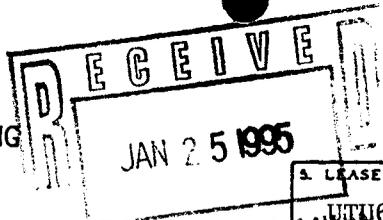
hereby certify that this report is true and complete to the best of my knowledge.

Date: _____

Name and Signature: _____

Telephone Number: _____

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING



3. LEASE DESIGNATION & SERIAL NO.

UTM02651A

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.)

4. MINOR 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.)

18. 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

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:

See Instructions On Reverse Side

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	SENE	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

Edward J. Freel, Secretary of State

AUTHENTICATION:

DATE: 7306080

11-17-94

2257442 8100M

944221473

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:

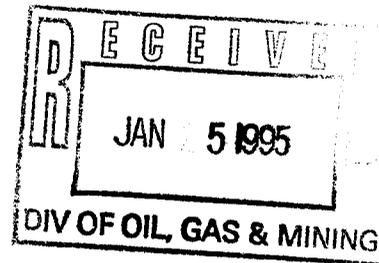

John B. Brock
President and Chief Executive Officer

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

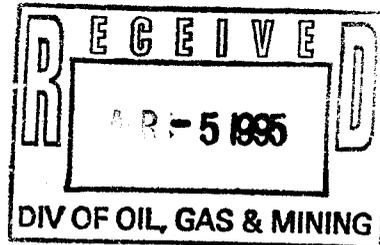
{LETTERS/utah}

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

5. Lease Designation and Serial No.
UTU02651A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

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

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

RECEIVED
MAR 23 1995

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)

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

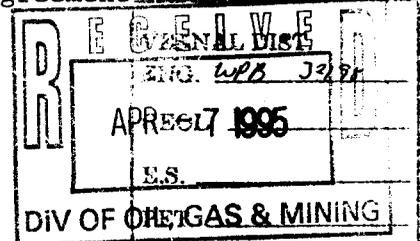
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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.



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

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

NOTED

(This space for Federal or State official use)

Approved by _____ Title _____ Date APR 06 1995

Conditions of approval, if any:

	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	SENW	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- WLF GIL
2-LWP 7-SJ ✓
3-DTS 8-PL ✓
4-VLC 9-FLE ✓
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>
	<u>phone (303) 573-5100</u>		<u>phone (303) 573-5100</u>
	<u>account no. N9215</u>		<u>account no. N0910</u>

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

Name: <u>**SEE ATTACHED**</u>	API: <u>4304730696</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: _____

OPERATOR CHANGE DOCUMENTATION

- Yes 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)*
- Yes 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)*
- Yes 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. *(c.H. 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.
- Yes 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(4-6-95)*
- Rec'd 6. Cardex file has been updated for each well listed above. *7-18-95*
- Rec'd 7. Well file labels have been updated for each well listed above. *7-18-95*
- Yes 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)*
- Yes 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for referenceduring 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).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- 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.
DTJ
4/18/95
- 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: 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. NIC FS (27 wells)

9502 Trust Lands Admin. "accepted merger"

950324 Btm/54 Appr. 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	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			N-02651-A		
4304730939	00225	07S 23E 9						
PEARL BROADHURST 19			GRRV			"		
4304730940	00225	07S 23E 9						
BROADHURST #20			GRRV			"		
4304730941	00225	07S 23E 9						
BROADHURST #21			GRRV			"		
4304730942	00225	07S 23E 9						
PEARL BROADHURST 22			GRRV			"		
4304731025	00225	07S 23E 10						
TOTALS								

COMMENTS: _____

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

Date: _____

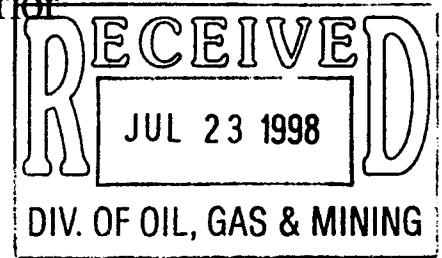
Name and Signature: _____

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~~, #
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.

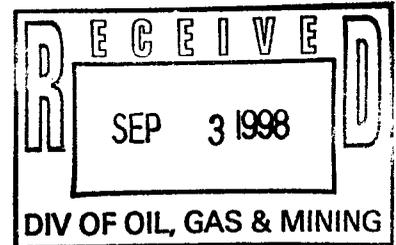
ROBERT LOPEZ
Robert Lopez
Group Leader,
Minerals Adjudication Group

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,

Scott M. Webb
Regulatory Coordinator

UNITED STATES OF AMERICA

State of

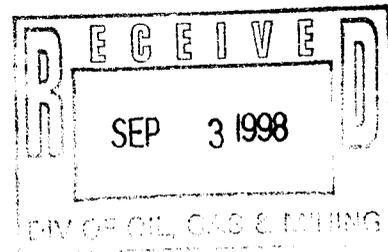


Louisiana

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

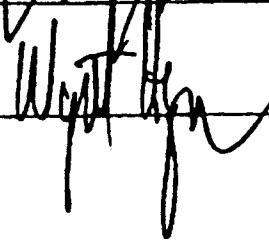
STATE OF TEXAS §
 §
COUNTY OF HARRIS §

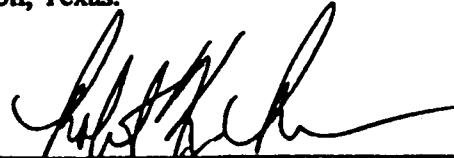
BEFORE ME, the undersigned authority, personally came and appeared Robert K. Reeves, who being duly sworn, declared and acknowledged before me that he is the Executive Vice President, General Counsel and Secretary of Ocean Energy, Inc., a Louisiana corporation, and acknowledged to me that he was authorized 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:

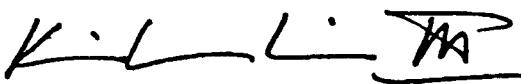






Robert K. Reeves



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.



A handwritten signature in cursive script, appearing to read "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

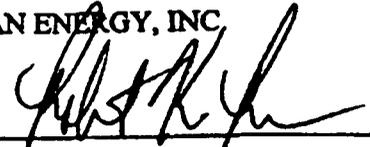
Pursuant to the Provisions of Section 252 of the Delaware General Corporation Law, the undersigned certifies as follows concerning the merger (the "Merger") of UMC Petroleum Corporation, a Delaware corporation, with and into Ocean Energy, Inc., a Louisiana corporation (together with UMC Petroleum Corporation,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

1- [initials]	6- [initials]
2- [initials]	7- KAS ✓
3- [initials]	8- SI ✓
4- [initials] CDW	9- FILE
5- [initials]	

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>43-047-30696</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

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)
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)
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: Co 209299. (eff. 3-23-98)
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.
5. Changes have been entered in the **Oil and Gas Information System (3270)** for each well listed above. (7-31-98) * UIC Quattro E. DBASE
6. **Cardex** file has been updated for each well listed above. (8-3-98)
7. Well **file labels** have been updated for each well listed above. (8-3-98)
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)
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

- VS 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:

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

UTAH ACCOUNT NUMBER: N3220

REPORT PERIOD (MONTH/YEAR): 12 / 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)
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

5. LEASE DESIGNATION & SERIAL NO.
U-025651-A

6. IF INDIAN ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
USA Pearl Broadhurst

9. WELL NO.
8

10. FIELD AND POOL, OR WILDCAT
Walker Hollow Field

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
10-7S-R23E

12. COUNTY
Uintah

13. STATE
UT

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Ocean Energy Resources, Inc.

3. ADDRESS OF OPERATOR
410 17th Street, Suite 1400, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface 1846' FSL & 1967' FWL NE SW
At proposed prod. zone

14. API NO. 43,047,30696

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

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

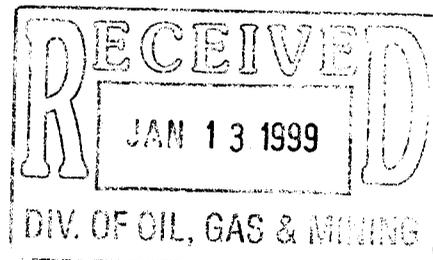
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	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 1846' FSL & 1967' FWL NE SW At proposed prod. zone</p>		<p>9. WELL NO. 8</p>
<p>14. API NO. 43,047,30696</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 10-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

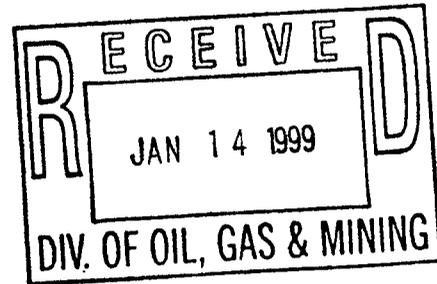
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
<p>TEST WATER SHUT-OFF <input type="checkbox"/></p> <p>FRACTURE TREAT <input type="checkbox"/></p> <p>SHOOT OR ACIDIZE <input type="checkbox"/></p> <p>REPAIR WELL <input type="checkbox"/></p> <p>(Other) <input type="checkbox"/></p>	<p>WATER SHUT-OFF <input type="checkbox"/></p> <p>FRACTURE TREATMENT <input type="checkbox"/></p> <p>SHOOTING OR ACIDIZING <input type="checkbox"/></p> <p>(Other) <u>Change Of Operator</u> <input checked="" type="checkbox"/></p> <p>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</p>
<p>PULL OR ALTER CASING <input type="checkbox"/></p> <p>MULTIPLE COMPLETE <input type="checkbox"/></p> <p>ABANDON <input type="checkbox"/></p> <p>CHANGE PLANS <input type="checkbox"/></p>	<p>REPAIRING WELL <input type="checkbox"/></p> <p>ALTERING CASING <input type="checkbox"/></p> <p>ABANDONMENT* <input type="checkbox"/></p>
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. Kandy 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 Broadhurst 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

1-KDR ✓	6-KAS1 ✓
2-GLH ✓	7-SJ
3-JRB ✓	8-FILE
4-CDW ✓	
5-KDR ✓	

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 Phone: (303) 573-5100
 Account no. N0265 Account no. N3220

WELL(S) attach additional page if needed:

Name: <u>*SEE ATTACHED*</u>	API: <u>43-0A7-30616</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: _____
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.
- CDR 7. Well **file labels** have been updated for each well listed above. *(*new filing system)*
- CDR 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

- UDP 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.
- UDP 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.
- N/A 2. A copy of this form has been placed in the new and former operator's bond files.
- N/A 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.
- N/A 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

- VS 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/ Marjii (BIM) regarding approval? 990601 rec'd e-mail approval from Marjii (BIM)

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to re-enter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER: <input type="checkbox"/>	5. Lease Designation and Serial Number:
2. Name of Operator: Citation Oil & Gas Corp.	6. If Indian, Allottee or Tribe Name:
3. Address and Telephone Number: P.O. Box 690688, Houston, Texas 77269-0688 (281) 517-7194	7. Unit Agreement Name: UTU 02651A
4. Location of Well Footages: 1846' FSL & 1967' FWL QQ, Sec., T., R., M.: NE SW; Sec. 10, T7S, R23E	8. Well Name and Number: USA Pearl Broadhurst #8
	9. API Well Number: 43-047-30696
	10. Field and Pool, or Wildcat: Walker Hollow Field
	County: Uintah State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other _____	<input type="checkbox"/> Abandonment* <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input checked="" type="checkbox"/> Other <u>Extension of TA Status</u>
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off
Approximate date work will start _____	Date of work completion _____
	Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form * Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The USA Pearl Broadhurst #8 is currently Temporarily Abandoned. Citation Oil & Gas Corp. requests approval for the well to remain in a TA'd status to allow for further testing and development of the Walker Hollow field and to aid in the evaluation of this well for potential reactivation and/or conversion to injection. Drilling of three wells in the offsetting Walker Hollow Unit was deferred until 2003 due to capital constraints and soft oil prices in early 2002. Citation plans to gather pressure data on individual zones in order to help determine which zones may be under pressured due to lack of injection support and/or water drive. For this reason, we are reluctant to P&A any TA'd wellbores that may be useful in supplementing injection or may have recompletion / reactivation potential once the new information is incorporated into our knowledge base.

10-15-02
C#D

13. Name & Signature: Debra Harris Title: Prod./Regulatory Coord. Date: 8/30/2002

(This space for State use only)

The well has been nonactive or nonproductive for 15 years 7 months. In accordance with RC 19-3-26 good cause has been shown for an extension of shut-in time until October 1, 2003. (See Instructions on Reverse Side)

Federal Approval of This Action is Necessary

ACCEPTED BY: [Signature] SEP 04 2002
Utah Division of Oil, Gas and Mining

DIVISION OF OIL, GAS AND MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE Other instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
CITATION OIL & GAS CORP.

3a. Address
P.O. Box 690688, Houston, Texas 77269-0688

3b. Phone No. (include area code)
(281) 517-7800

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1846 FSL & 1967 FWL NE SW Sec. 10, 7S, 23E

5. Lease Serial No.
U02651A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
USA Pearl Broadhurst #8

9. API Well No.
43-047-30940-30696

10. Field and Pool, or Exploratory Area
Walker Hollow Green River

11. County or Parish, State
Uintah County, UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input checked="" type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal
			<input type="checkbox"/> Water Shut-Off
			<input type="checkbox"/> Well Integrity
			<input type="checkbox"/> Other _____

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The USA Pearl Broadhurst #8 well is currently temporarily abandoned. Citation Oil & Gas Corp. requests approval for the well to remain in a TA'd status to allow for further testing and development of the Walker Hollow field in order to aid in the evaluation of this well for potential reactivation and/or conversion to injection. Three wells were drilled in the WHU field during 2003 with RFT's having been run on numerous zones. Testing is ongoing, with one well likely to be tested in additional uphole zones in the near future. It is anticipated that one TA'd well will be converted to injection, and injection redistributed in one active injector, pending management approval. It is anticipated further zone testing will occur on either SI or TA'd wells next year. For these reasons, we are reluctant to P&A any TA'd wellbores that may be useful in supplementing injection or may have recompletion / reactivation potential once the anticipated new information is incorporated into our knowledge base. As information becomes available that indicates a particular TA'd well no longer has a reasonable chance of future utilization, Citation will budget and implement plugging operations on same. Fluid level is 409' from surface, 2 psi tubing pressure, 2 psi casing pressure.

THIS SUNDRY IS BEING RETURNED; INSUFFICIENT DATA WAS SUBMITTED TO APPROVE THE REQUESTED ACTION (see attached sheet).

[Signature]

November 18, 2003

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

Name (Printed/Typed)
Sharon Ward

Signature
[Signature]

Title
Regulatory Administrator

Date
10/2/03

Utah Division of Oil, Gas and Mining

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title
COPIES SENT TO OPERATOR

Date

Office
DATE: 11-19-03
INITIALS: CHO

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

OCT 06 2003

INFORMATION REQUIRED TO EXTEND SI/TA OF WELL

Well Name and Number: Broadhurst #8
API Number: 43-047-30696
Operator: Citation Oil & Gas Corp.
Reference Document: Original Sundry dated October 2, 2003, received by
DOGGM on October 6, 2003

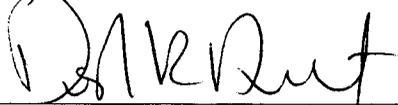
The well has been Shut-in/Temporarily Abandoned for 10 years 6 month. Insufficient information was submitted to the Division to approve the referenced well for continued Shut-in or Temporary Abandonment (SI/TA). The following requirements of R649-3-36 have not been met with this request for SI/TA approval.

1. The length of time the well is expected to be SI/TA (R649-3-36-1.2), and
2. An explanation and supporting data if necessary, for showing the well has integrity, meaning that the casing, cement, equipment condition, static fluid level, pressure, existence or absence of Underground Sources of Drinking Water and other factors do not make the well a risk to public health and safety or the environment. (R649-3-36-1.3)

Submitting the information suggested below may help show well integrity and may help qualify your well for extended SI/TA. **Note: As of July 1, 2003, wells in violation of the SI/TA rule R649-3-36 may be subject to full cost bonding (R649-3-1-4.2, 4.3).**

1. Wellbore diagram and;
2. Copy of recent casing pressure test and/or;
3. Current pressures on the wellbore (tubing pressure, casing pressure, and casing/casing annuli pressure) showing wellbore has integrity and;
4. An explanation of how the submitted information proves integrity.

If the required information is not received within 30 days of the date of this notice, further actions may be initiated. If you have any questions concerning this matter, please contact me at (801) 538-5281.



Dustin K. Doucet
Petroleum Engineer

November 18, 2003

Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
CITATION OIL & GAS CORP.

3a. Address
P.O. Box 690688, Houston, Texas 77269-0688

3b. Phone No. (include area code)
(281) 517-7800

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1846 FSL & 1967 FWL NE SW Sec. 10, 7S, 23E

5. Lease Serial No.
U02651A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
USA Pearl Broadhurst #8

9. API Well No.
43-047-30940

10. Field and Pool, or Exploratory Area
Walker Hollow Green River

11. County or Parish, State
Uintah County, UT

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Additional information to TA request</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input checked="" type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Citation requests permission to retain this wellbore in a temporarily abandoned status. Citation plans to recomplete and/or reactivate, or P&A this wellbore by the end of 2007. Citation has budgeted recompletion / reactivation of three wells on the combined WHU and Pearl Broadhurst properties for 2004, as well as three P&A's. This is subject to final approval by Citation's upper management. Citation plans to drill additional wells on the WHU in 2004, and also plans to reduce our inactive well count on the two properties by two to four wells in 2005..

RECEIVED
DEC 12 2003
DIV. OF OIL, GAS & MINING

COPY SENT TO OPERATOR
Date: 4-8-04
Initials: CHD

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

Name (Printed/Typed)

Sharon Ward

Signature

Sharon Ward

Title

Regulatory Administrator

Date

December 8, 2003

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Accepted by the Utah Division of Oil, Gas and Mining

Date

Federal Approval Of This Action is Necessary

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Date: 4/7/04

By: *[Signature]*

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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 attached letter dated 4/7/04



State of Utah

Department of
Natural Resources

Division of
Oil, Gas & Mining

ROBERT L. MORGAN
Executive Director

LOWELL P. BRAXTON
Division Director

MICHAEL O. LEAVITT
Governor

OLENE S. WALKER
Lieutenant Governor

April 7, 2004

CERTIFIED MAIL NO. 7002 0510 0003 8602 6396

Ms. Sharon Ward
Citation Oil & Gas Corporation
P.O. Box 690688
Houston, Texas 77269-0688

Re: Extended Shut-in and Temporary Abandoned Well Requirements for
Federal Leases.

Dear Ms. Ward,

The Division of Oil, Gas and Mining (DOGM) is in receipt of sundries for the fourteen (14) Federal shut-in wells operated by Citation Oil & Gas Corporation (Citation). DOGM accepts Citation's plan of action to plug and abandon three (3) of the wells, re-complete two (2) of the wells, and convert one well to an injector during calendar year 2004. DOGM does have concerns regarding no future plans for the remaining eight (8) wells until years 2007 and 2008. Based upon the plan of action and other information provided at this time, DOGM approves all fourteen (14) wells for extended shut-in until January 1, 2005. Please submit recompletion and plugging procedures with notice of intent sundries upon finalization.

For reference, Attachment A lists the wells subject to the request. If you have any questions or need additional assistance in regards to the above matters please contact me at (801) 538-5281.

Sincerely,

Dustin Doucet
Petroleum Engineer

jc

FIELD	API	PLAN	SUNDRY	COMMENTS
Walker Hollow GR	43-047-15563	2004 P/A	12/08/2003	Return to Production or P/A 2004
Walker Hollow GR	43-047-30690	2004 P/A	12/08/2003	Return to Production or P/A 2004
Walker Hollow GR	43-047-30417	2004 Prod	12/08/2003	Return to Production 2004
Walker Hollow GR	43-047-30895	2004 Prod	12/08/2003	Return to Production 2004
Walker Hollow GR	43-047-30282	2007	12/08/2003	Return to Production or P/A 2007
Walker Hollow GR	43-047-30891	2007	01/23/2004	Return to Production or P/A 2007
Walker Hollow GR	43-047-30913	2007	12/08/2003	Return to Production or P/A 2007
Walker Hollow GR	43-047-16504		04/30/2003	Recompletion or injection potential
Walker Hollow GR	43-047-30940	2004 P/A	12/08/2003	Return to Production or P/A 2004
Walker Hollow GR	43-047-30840	2004 Inj	12/08/2003	Conversion to injection 2004
Walker Hollow GR	43-047-31025	2007	12/08/2003	Return to Production or P/A 2007
Walker Hollow GR	43-047-30696	2007	12/08/2003	Return to Production or P/A 2007
Upper Valley Kaibab	43-017-16026		01/23/2004	Horizontal Potential
Upper Valley Kaibab	43-017-16025		01/23/2004	Future Deepening

Attachment A

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to re-enter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Serial Number:
UTU02651A

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Well Name and Number:
USA Pearl Broadhurst 8

9. API Well Number:
43-047-30696

10. Field and Pool, or Wildcat:
Walker Hollow Green River

1. Type of Well:
 OIL GAS OTHER:

2. Name of Operator:
Citation Oil & Gas Corp.

3. Address and Telephone Number:
P O Box 690688, Houston, Texas 77269 (281) 517-7800

4. Location of Well:
 Footages: **1846 FSL & 1967 FWL**
 QQ, Sec., T., R., M.: **NE SW Sec. 10, 7S, 23E**

County: **Uintah**
State: **Utah**

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT
(Submit in Duplicate)

Abandonment New Construction
 Casing Repair Pull or Alter Casing
 Change of Plans Recompletion
 Conversion to Injection Shoot or Acidize
 Fracture Treat Vent or Flare
 Multiple Completion Water Shut-Off
 Other _____

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

Abandonment* New Construction
 Casing Repair Pull or Alter Casing
 Change of Plans Shoot or Acidize
 Conversion to Injection Vent or Flare
 Fracture Treat Water Shut-Off
 Other Temporary Abandoned Status Renewal

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form
 * Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Citation Oil & Gas Corp. requests approval to retain this wellbore in a Temporarily Abandoned status pending evaluation for reactivation due to higher oil prices.

THIS SUNDRY IS BEING RETURNED; INSUFFICIENT DATA WAS SUBMITTED TO APPROVE THE REQUESTED ACTION (see R649-3-36).

Federal Approval of This Action is Necessary

[Signature]
December 5, 2005
Utah Division of Oil, Gas and Mining

13. Name & Signature: *[Signature]* **Debra Harris** Title: **Prod/Reg Coordinator** Date: **7/27/2005**

(This space for State use only)

(12192)

PRODUCER OPERATOR
12-7-05
CWD

(See Instructions on Reverse Side)

RECEIVED
AUG 02 2005
DIV. OF OIL, GAS & MINING

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU02651A
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____	8. WELL NAME and NUMBER: USA Pearl Broadhurst 8	
2. NAME OF OPERATOR: Citation Oil & Gas Corp.	9. API NUMBER: 430473006 30696	
3. ADDRESS OF OPERATOR: PO Box 690688 CITY Houston STATE TX ZIP 77269	PHONE NUMBER: (281) 517-7505	10. FIELD AND POOL, OR WLDCAT: Walker Hollow Green River
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1846 FSL & 1967 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 10 7S 23E		COUNTY: Uintah STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

1. MIRUSU
2. ND Tree. NU 3M BOP's. TOOH w/2-7/8" tubing, standing back. Perform visual inspection of tubing.
3. RIH w/4-3/4" bit 5-1/2" scraper to PBTD at 5366'.
4. POOH w/bit and scraper.
5. RIH w/Composite CIBP and packer set Composite CIBP @4770'. PUH and set packer @4760'. Test Composite Plug to 500psi. Release pkr and PUH to 4700' and set packer.
6. Cement squeeze perms 4730'-4733' (25 sxs low water loss followed by 25 sxs neat) WOC 1 hour. release pkr and PUH to 4580' and set packer.
7. Cement squeeze perms 4618'-4622' (25 sxs low water loss followed by 25 sxs neat) RD pump. WOC. Release pkr and POOH.
8. PU 4-3/4" Drill bit w/3 3-1/2" drill collars.
9. RIH & drill out cement f/4580'-4750'. test casing to 1000 psi. If good test drill out CIBP @4770'.
10. POOH w/4-3/4" bit & 3-1/2" drill collars.
11. PU and RIH w/BHA, set EOT @5300', SN @5250' TAC @5100' ND BOP's. NU tree.
12. TIH w/rods and pump and hang well on. RDMOSU.
13. Place well on production allowing 2 days for stabilization prior to starting a one week test.

RECEIVED
7-19-06
CHD

NAME (PLEASE PRINT) <u>Nathania Naftaly</u>	TITLE <u>Permitting Analyst II</u>
SIGNATURE <u>Nathania Naftaly</u>	DATE <u>6/20/2006</u>

(This space for State use only)

**Accepted by the
Utah Division of
Oil, Gas and Mining**

Federal Approval Of This
Action Is Necessary

**RECEIVED
JUN 22 2006
DIV. OF OIL, GAS & MINING**

(5/2000) Date: 7/5/06 (See Instructions on Reverse Side)
By: [Signature]

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTU02651A

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

8. WELL NAME and NUMBER:

USA Pearl Broadhurst 8

9. API NUMBER:

4304730696

10. FIELD AND POOL, OR WLD CAT:

Walker Hollow Green River

1. TYPE OF WELL

OIL WELL

GAS WELL

OTHER _____

2. NAME OF OPERATOR:

Citation Oil & Gas Corp.

3. ADDRESS OF OPERATOR:

P.O. Box 690688

CITY

Houston

STATE

TX

ZIP

77269

PHONE NUMBER:

(281) 517-7194

4. LOCATION OF WELL

FOOTAGES AT SURFACE: **1846' FSL & 1967' FWL**

COUNTY: **Uintah**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **NESW 10 7S 23E**

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 8/18/2006	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Squeeze perfs and return to production</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU and TIH, circulating with hot water. MIRU hot oiler and circulated hot oil down to 5366' - tagged @5384'. TIH with CIBP - set @4770'. TIH with packer and squeezed perfs 4618' - 4733' with 100 sx cement. TIH - tagged cement @4430' and drilled out through CIBP @4770', pressure testing to 1000 psi. TIH to 5382' and CHC. TIH with production tubing to 5316.35'. Ran pump and rods and RDMO. Well was returned to production 8/18/2006. Production rate as of 8/25/2006 was 10 BOPD with 129 BWPD.

NAME (PLEASE PRINT) **Debra Harris**

TITLE **Production Analyst III**

SIGNATURE *Debra Harris*

DATE **8/30/2006**

(This space for State use only)

RECEIVED

SEP 01 2006