Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER SINGLE ZONE [X] 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: 713' FNL & 1747' FEL ~~NW/NE~~ NW NE

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: Pearl Broadhurst

9. WELL NO.: 11

10. FIELD AND POOL, OR WILDCAT: Walker Hollow

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

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approximately 14 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): 713'

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.: 1374'

19. PROPOSED DEPTH: 5550' G. River

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5191' GR (ungraded)

22. APPROX. DATE WORK WILL START*: Dec. 1980

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	550' +	cement to surface
7-7/8"	5-1/2"	14#	5,550' ±	sufficient to protect
				Green River Formation

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

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING
DATE: 12-16-80
BY: M. J. Minder

RECEIVED
DEC 01 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. Yuan TITLE Field Srvices Administrator DATE 11-26-80

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

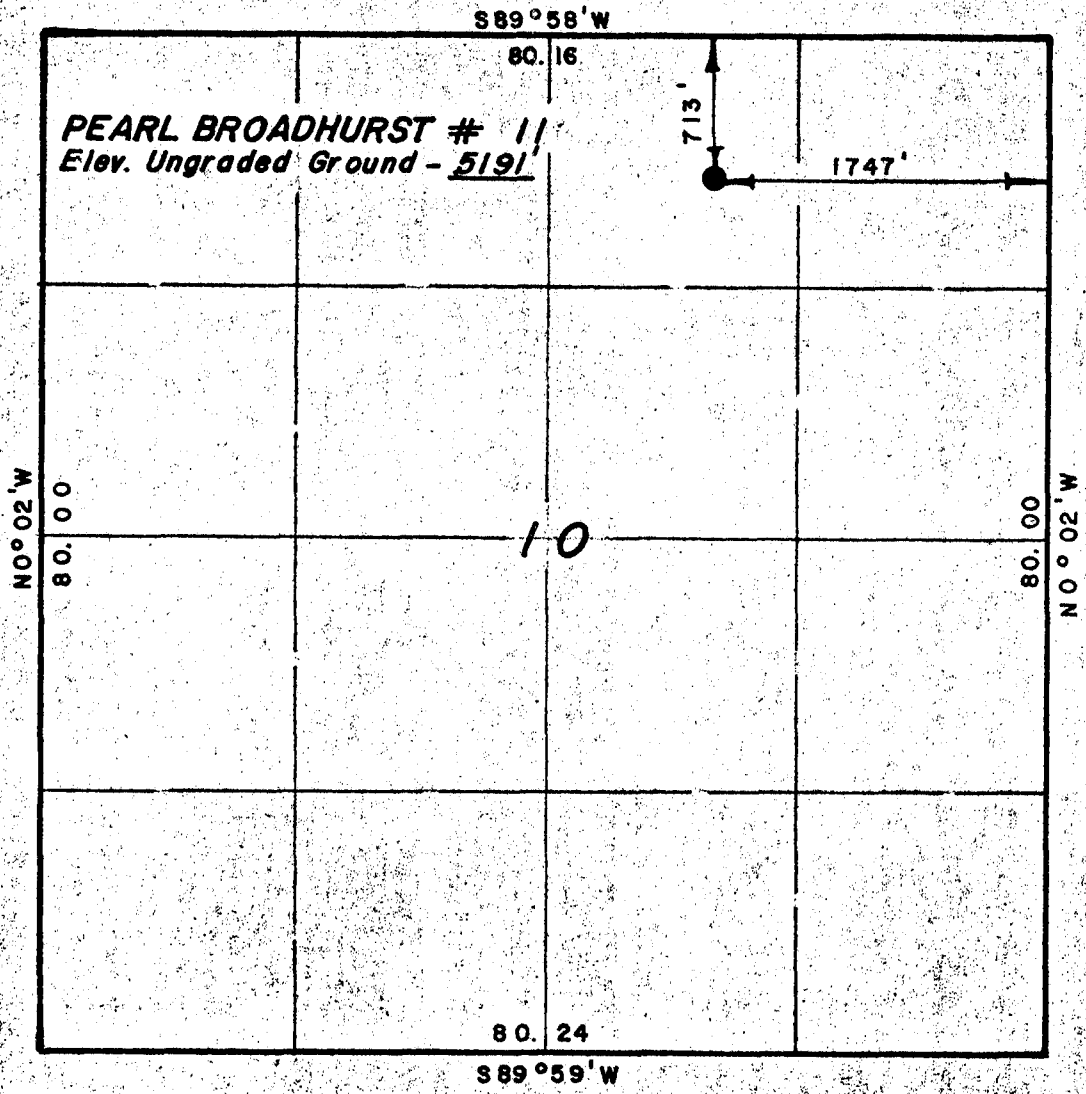
CONDITIONS OF APPROVAL, IF ANY:

PROJECT

ENERGY RESERVE GROUP

Well location, *PEARL BROADHURST* # 11, located as shown in the NW 1/4 NE 1/4 Section 10, T7S, R23E, S.L.B.&M. Uintah County, Utah.

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



X = Section Corners Located

CERTIFICATE

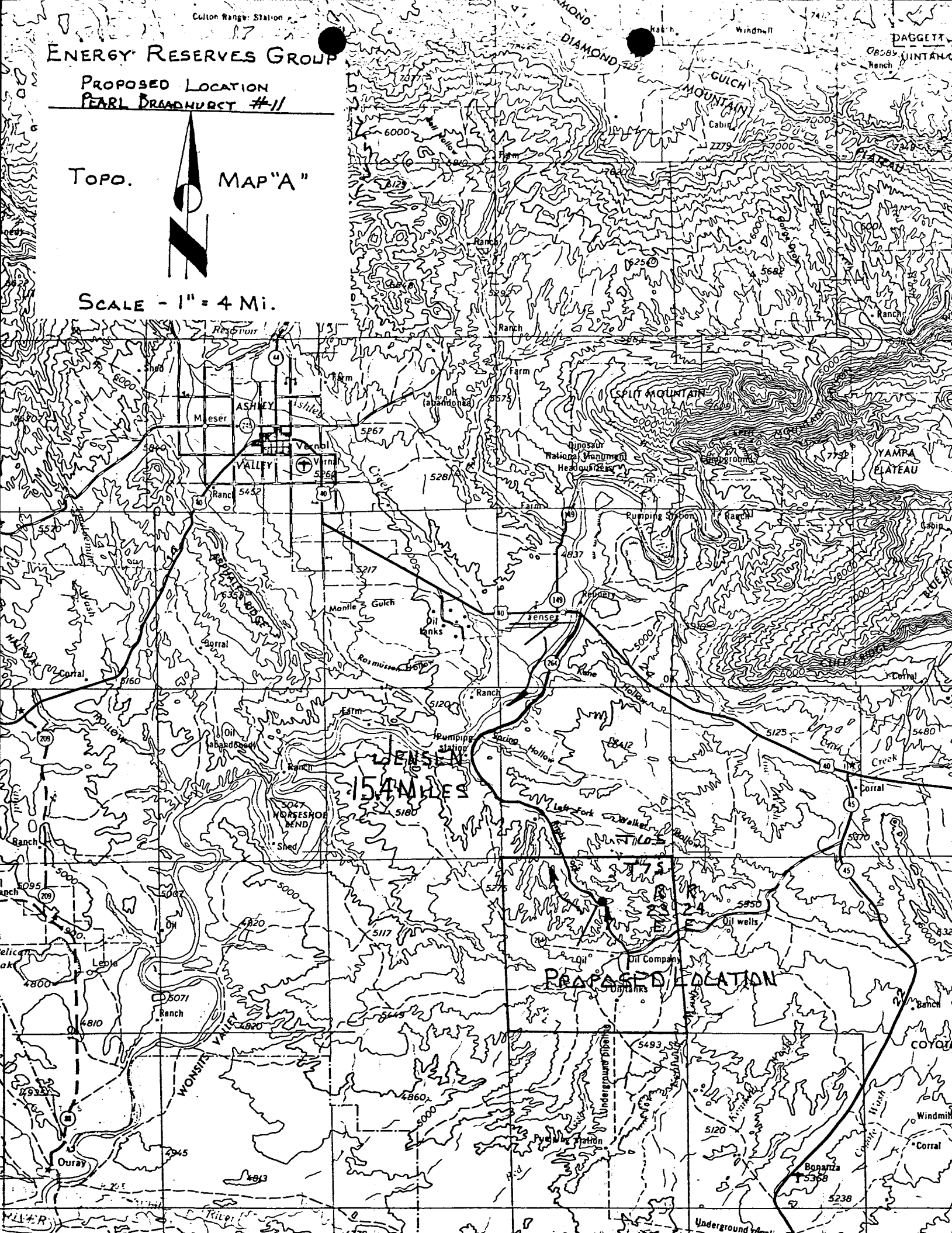
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Gene Stewart

REGISTERED LAND SURVEYOR
REGISTRATION Nº 3154
STATE OF UTAH

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

SCALE 1" = 1000'	DATE 11/20/80
PARTY GS GS SH JS	REFERENCES GLO Plat
WEATHER Cool/Cloudy/Calm	FILE ENERGY RESERVE

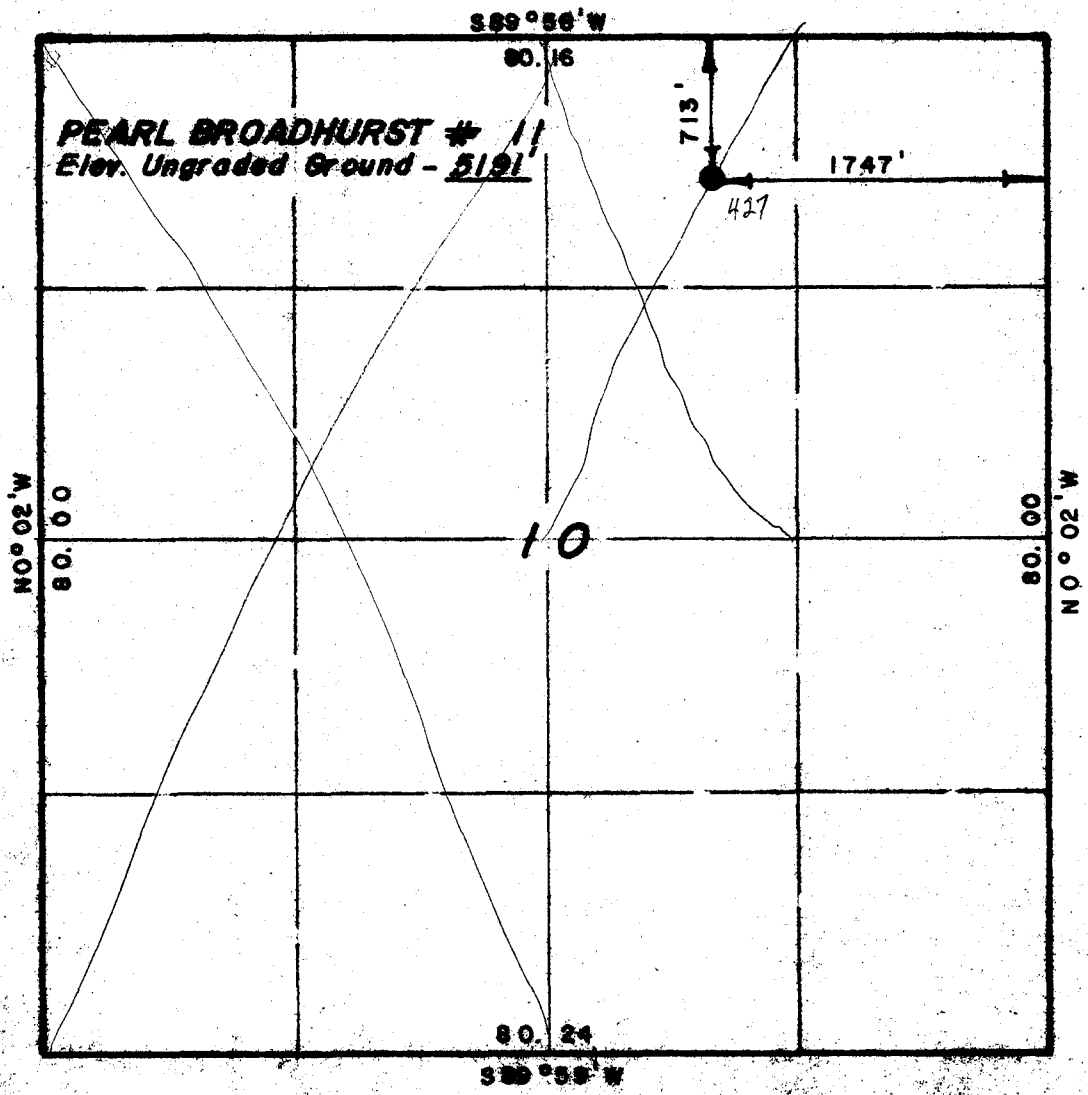

ENERGY RESERVES GROUP
PROPOSED LOCATION
PEARL BROADHURST #11
TOPO. MAP "A"
SCALE - 1" = 4 Mi.
JENSEN
15.4 MILES
PROPOSED LOCATION
ASHLEY
VALLEY
Vernal
Maeser
SPLIT MOUNTAIN
YAMPA PLATEAU
Dinosaur National Monument Headquarters
Pumping Station
Jensen
Refinery
Mantle Gulch
Rasmussen Hollow
Spring Hollow
Left Fork Walker Hollow
HORSESHOE BEND
Oil wells
Oil Company
Oil tanks
Ouray
Bonanza
WONSITS VALLEY
DIAMOND GULCH MOUNTAIN
DAGGETT
Colton Range Station
Underground pipeline

PROJECT

ENERGY RESERVE GROUP

Well location, *PEARL BROADHURST* # 11, located as shown in the NW 1/4 NE 1/4 Section 10, T7S, R23E, S.L.B.&M. Uintah County, Utah.

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



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STATE OF UTAH

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

SCALE 1" = 1000'	DATE 11/20/80
PARTY GS SS SH AS	REFERENCES GLO Plat
WEATHER Cloudy/Cold	FILE ENERGY RESERVE

Identification CER/EA No. 141-81

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

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator Energy Reserves Group, Inc.

Project Type Oil Well Drilling

Project Location 713' FNL 1747' FEL Section 10, T. 7S, R. 23E

Well No. 11 Lease No. U-02651-A

Date Project Submitted December 1, 1980

FIELD INSPECTION Date December 15, 1980

Field Inspection Participants

Greg Darlington - USGS, Vernal

Ron Rogers - BLM, Vernal

Ray Radke - Energy Reserves Group

Durrell Karren - Energy Reserves Group

Leonard Heeney - Ross Construction

Related Environmental Documents: Unit Resource Analysis, Bonanza Planning Unit, BLM, Vernal

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.

December 22, 1980
Date Prepared

Gregory Darlington
Environmental Scientist

I concur

12/29/80
Date

District Supervisor

Typing In 12-23-80 Typing Out 12-23-80

PROPOSED ACTION:

Energy Reserves Group, Inc. proposes to drill the Pearl Broadhurst #11 well, a 5550 foot oil test of the Green River Formation. An 18 foot wide, crowned access road with appropriate drainage ditches will be built to reach the location. This new access road will be about .4 miles long. A pad 155 feet by 315 feet and a reserve pit 265 feet long with one side 30 feet wide and the other 60 feet wide is proposed for the location. This project will involve about 2.3 acrea of new surface disturbance.

RECOMMENDED APPROVAL CONDITIONS:

Drilling should be allowed provided the operator agrees to incorporate the following additional measures into the APD and operating plans and adhere to them:

1. BLM stipulations
2. Lease stipulations
3. Furnish suitable logs for the identification of other potentially valuable minerals as requested in the Mineral Evaluation Report and Mining Report.

FIELD NOTES SHEET

Date of Field Inspection: December 15, 1980

Well No.: 11

Lease No.: U-02651-A

Approve Location: ✓

Approve Access Road: ✓

Modify Location or Access Road: Approved long narrow pit as staked and requested in APD.

Evaluation of Criteria for Categorical Exclusion

1. Public Health and Safety
2. Unique Characteristics
3. Environmentally Controversial Items
4. Uncertain and Unknown Risks
5. Establishes Precedents
6. Cumulatively Significant
7. National Register Historic Places
8. Endangered/Threatened Species
9. Violate Federal, State, Local, or Tribal Laws

If this project is not eligible for Categorical Exclusion circle the numbers of the above criteria requiring the preparation of an EA.

Comments and special conditions of approval discussed at onsite: (include local topography) Good Road. The pit is near a wash. The operator would use his discretion about whether the pit needs a liner, it looked to us as though they might get by OK without one. Road Crosses a production pipeline lookup from Earl Broadhurst #9 well. 24" Culvert has been placed around pipeline at the crossing place.

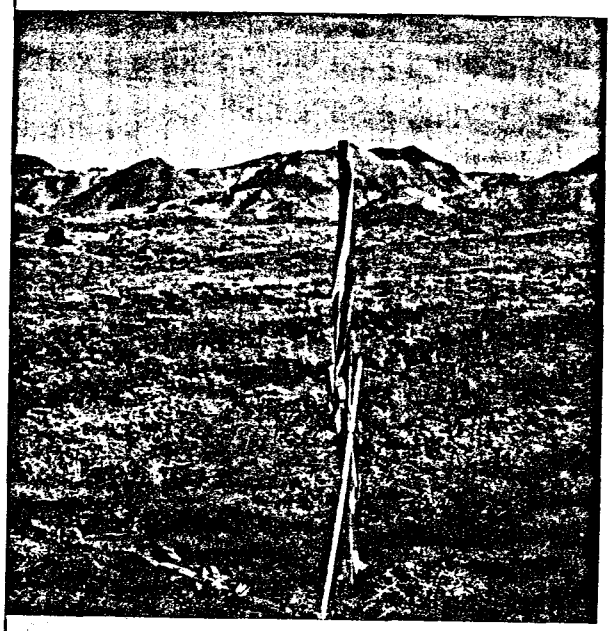
CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria 516 DM 2.3.A	Federal/State Agency: Correspondence (date)	Federal/State Agency: Phone check (date)	Federal/State Agency: Meeting (date)	Local and private correspondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
. Public health and safety							1, 2, 3, 6	12-15-80	
. Unique characteristics							1, 2, 3, 6	12-15	
. Environmentally controversial							1, 2, 3, 6	12-15	
. Uncertain and unknown risks							1, 2, 3, 6	12-15	
5. Establishes precedents							1, 2, 3, 6	12-15	
6. Cumulatively significant							1, 2, 3, 6	12-15	
7. National Register historic places							1, 6	12-15	
8. Endangered/ threatened species							1, 6	12-15	
9. Violate Federal, State, local, tribal law							1, 2, 3, 6	12-15	

CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

1. Surface Management Agency Input
2. Reviews Reports, or information received from Geological Survey (Conservation Division, Geological Division, Water Resource Division, Topographic Division)
3. Lease Stipulations/Terms
4. Application Permit to Drill
5. Operator Correspondence
6. Field Observation
7. Private Rehabilitation Agreement
8. USGS conditions of approval.

Energy Reserve 11
North West View



Energy Reserves #11
Northeast side of Pad

12-15

U. S. GEOLOGICAL SURVEY - CONSERVATION DIVISION

FROM: : DISTRICT GEOLOGIST, 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 WELL NO. #11

LOCATION: SE ¼ NW ¼ NE ¼ sec. 10, T. 7S, R. 23E,

UINTAH County, UTAH

---

1. Stratigraphy: UINTA - SURFACE
   GREEN RIVER 2,885'
   MAHOGANY 3,200'
   GREEN RIVER "G" - 4,325'
   GREEN RIVER "H" - 4,610'
   GREEN RIVER "I" - 4,835'
   GREEN RIVER "J" - 5,140'
   GREEN RIVER "K" - 5,290'
   T.D. - 5,550'

2. Fresh Water: FRESH WATER MAY OCCUR AT DEPTH IN GREEN RIVER FORMATION, BUT PROPOSED CASING IS ADEQUATE.

3. Leasable Minerals: POSSIBLE OIL SHALE AND SALINE MINERALS MAHOGANY ZONE ~ 3,200' (VERY ROUGH ESTIMATE)

4. Additional Logs Needed: NONE. LOGS USED SHOULD BE RUN THROUGH MAHOGANY ZONE BEGINNING AT ~ 3,200'

5. Potential Geologic Hazards: POSSIBLE LOST CIRCULATION IN LEACHED ZONES ABOVE AND BENEATH MAHOGANY OIL SHALE (3,200 ft)

6. References and Remarks:

Signature: Larry Richardson Date: 12-20-80

Supplemental to Form 9-331C

1. The geologic name of the surface formation.

   Uintah

2. The estimated tops of important geologic markers.

Green River	2,885'
Green River "G"	4,325'
Green River "H"	4,610'
Green River "I"	4,835'
Green River "J"	5,140'
Green River "K"	5,290'
T.D.	5,550'

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
5½"	K-55	14#	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.

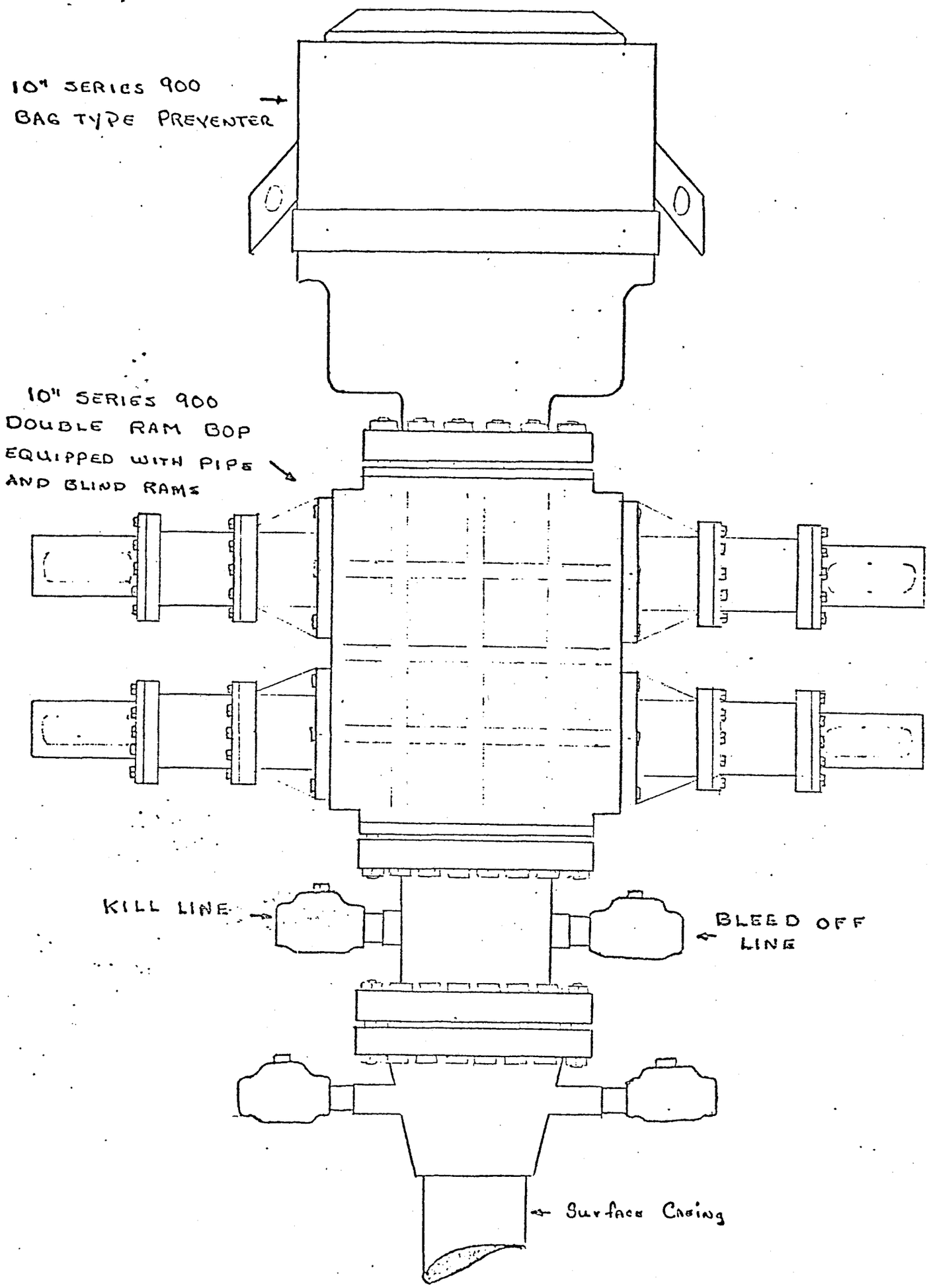
Logging will consist of DIL, SGR, CN-D. No DST's are planned. No cores are planned. Fracing will consist of 60,000 gallons of gelled water with 100,000# sand. All applicable state and federal regulations concerning equipment placement will be adhered to.

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 H_2S is expected in the zones to be encountered.

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

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


10" SERIES 900
BAG TYPE PREVENTER
10" SERIES 900
DOUBLE RAM BOP
EQUIPPED WITH PIPE
AND BLIND RAMS
KILL LINE
BLEED OFF
LINE
Surface Casing

ENERGY RESERVES GROUP

13 Point Surface Use Plan

For

Pearl Broadhurst #11

Located In

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

Uintah County, Utah

ENERGY RESERVES GROUP
Pearl Broadjurst #11
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 #11, located in the NW¼ NE¼ 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 an existing road to the Northeast; proceed Northeasterly along this road 0.2 miles to the beginning of 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 exists to the Southeast; thereafter the roads are constructed with existing materials and gravels.

The highways are maintained by Utah State road crews, all other roads are maintaned by County road crews.

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.

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. This maintenance will consist of some minor grader work for smoothing of road surfaces and for snow removal.

2. PLANNED ACCESS ROAD

See Topographic Map "B".

The proposed access road leaves the existing road described in Item #1 in the SE¼ NE¼ Section 10, T7S, R23E, S.L.B.& M. and proceeds in a Northeasterly direction 0.4 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 meterological conditions that are prevalent to this area.

ENERGY RESERVES GROUP
Pearl Broadhurst #11
Section 10, T7S, R23E, S.L.B.& M.

2. PLANNED ACCESS ROAD - cont...

Back slopes along the cut areas of the road will be 1½ to 1 slopes and terraced.

There will be no culvert required along this road.

There will be no turnouts required along the road.

There are no fences encountered along this road. There will be no cattle-guards required.

Lands involved in this action are under B.L.M. jurisdiction.

The terrain this road traverses is along and near the bottom of a small non-perennial drainage. The terrain is relatively level but will not exceed 8%.

3. LOCATION OF EXISTING WELLS

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. See Topographic Map "B" for the approximate location of these wells relative to the location site.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

There are ENERGY RESERVES GROUP tank batteries, production facilities, oil gathering lines, gas gathering lines, injection lines, or disposal lines, within a one mile radius of the location site. (See Topographic Map "B").

A proposed flowline will be placed which will follow the proposed access road and the existing road to an existing tank battery approximately 2500' Southwest of the proposed location site. This battery contains production from Pearl Broadhurst #9 as well as other ENERGY RESERVES GROUP wells that will be drilled in the area. (See Topographic Map "C") for the approximate location of this facility.

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 from a facility near well No. 3.

5. LOCATION AND TYPE OF WATER SUPPLY - cont...

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 anticipated, however if it is determined that they are required the appropraite actions will be taken to acquire them from private sources.

7. METHODS FOR HANDLING WASTE DISPOSAL

See Location Layout Sheet.

A reserve pit will be constructed.

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 ptis will be covered with a minimum of four feet of soil and all requirements of Item #10 will be followed.

A portable 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 construction begins on the proposed location site.

ENERGY RESERVES GROUP
Pearl Broadhurst # 11
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 basket shall be hauled to the nearest Sanitary Landfill.

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 soul 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 #11
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 small ground squirrels and other types of rodents. The area is used by man for the primary purpose of grazing domestic sheep and cattle.

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

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

Energy Reserves Group - Pearl Broadhurst #11 is located near the bottom of a a non-perennial drainage which runs to the Southwest into the right fork of Walker Hollow.

ENERGY RESERVES GROUP
Pearl Broadhurst #11
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 6% 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.

Date

Bill Fiant

** FILE NOTATIONS **

DATE: Dec. 15 1980

OPERATOR: Energy Reserves Group, Inc.

WELL NO: Pearl Broadhurst #11

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

File Prepared: ☐ Entered on N.I.D: ☐

Card Indexed: ☐ Completion Sheet: ☐

API Number 43-047-30840

CHECKED BY:

Petroleum Engineer: M. J. Minder 12-16-80

Director:

Administrative Aide: Wildcat spacing 427' from East Hot Line
OK on spacing

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 Fed. Plotted on Map ✓

Approval Letter Written ✓

Hot Line ✓ P.I. ✓

December 29, 1980

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

Re: Well No. Pearl Broadhurst 11
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 (acquifers) 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 43-047-30840.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

Michael T. Minder
Petroleum Engineer

/ka
cc: USGS

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42 R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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: Pearl Broadhurst

9. WELL NO.: 11

10. FIELD AND POOL, OR WILDCAT: Walker Hollow

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

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER SINGLE ZONE [X] 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 713' FNL & 1747' FEL (NE/NE)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approximately 14 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): 713'

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.: 1374'

19. PROPOSED DEPTH: 5550'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5191' GR (ungraded)

22. APPROX. DATE WORK WILL START*: Dec. 1980

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	550' ±	cement to surface
7-7/8"	5-1/2"	14#	5,550' ±	sufficient to protect
				Green River Formation

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

RECEIVED
JAN 8 1981
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. Yuan TITLE Field Srvices Administrator DATE 11-26-80

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY W P Martens TITLE FOR E. W. GUYNN ~~DISTRICT ENGINEER~~ DATE JAN 06 1981

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

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

St.OG

IN REPLY REFER TO
T & R
U-802

United States Department of the Interior

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

December 17, 1980

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

RE: Energy Reserves Group, Inc.
Well #10, Lease # U-02651-A,
Sec. 9, T7S, R23E;
Well #11, Lease # U-02651-A,
Sec. 10, T7S, R23E;
Well #12 and tank battery,
Lease # U-02651-A,
Sec. 10, T7S, R23E;
Well #13 and tank battery,
Lease # U-02651-A,
Sec. 9, T7S, R23E;
Uintah County, Utah

Dear Mr. Guynn:

A joint field examination was made on December 15, 1980, of the above referenced well site locations, tank batteries, and proposed access roads, and flowlines. 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 of 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, with the following exceptions. The BLM recommends that the top 12 inches of topsoil materials be stockpiled at wellsites 11, 12, and 13. At well # 11, the

Continued.....

AMERICAN REVOLUTION BICENTENNIAL 1776-1976

topsoil should be stockpiled on the northeast side of the drill pad. Well # 10 should have the first 6 inches of topsoil stockpiled. Well # 13 should have the topsoil stockpiled at the west 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. In the event that oil storage tanks are used, earth dikes will be built around the tanks in order to contain accidental spills. The height of the dikes will be sufficient to contain the entire contents of the tanks.

7. A wire mesh or web type fence will be used around the reserve pits. At least two strands of barbed wire will top this fence.

8. The dry wash on the north side of well # 11 will be rerouted 20' to the north.

9. Well # 12 will be moved 60 feet SSE and have 15 feet removed from the west side of the pad length. The north corner of the pad will be rounded off to accomodate the rerouting of the wash around that corner.

10. At well # 13, existing drainages will be rerouted around the east and west sides of the pad.

11. All pits will have at least 4 feet of their depths below the natural ground level.

12. Wells # 12 and 13 will require 6 foot diameter culverts for their access across the deep wash north of the existing main road. Twelve inch culverts should be used for the minor drainages encountered along the access routes.

13. Production facilities will be painted with a color which blends in with the natural background. Various earth tones can accomplish this.

An archaeological study has been conducted for the BLM in these areas. No cultural resources were located at any of the proposed sites.

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

Continued . . .

The BLM representative will be Ron Rogers, 789-1362.

Sincerely,

Dean L. Evans
Area Manager
Bookcliff Resource Area

cc: USGS, Vernal

10-7S-23E
#11
Gray
Et# 141-81

United States Department of the Interior

GEOLOGICAL SURVEY
Conservation Division
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

RECEIVED
DEC 17 1980
OFFICE OF
AREA OIL SHALE SUPERVISOR
U.S. G.S.

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

Dear Mr. Rutledge,

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

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

U.S. Geological Survey
2000 Adminstration Building
1745 West 1700 South
Salt Lake City, Utah 84104

Energy Reserves #11
Sec. 10, T7S, R23E

December 18, 1980

Proposed program indicates that cement "sufficient to protect the Green River Formation" will be used for setting 5½" casing. Specifics of the cementing program are not provided. Protection should include top and base of the Green River Formation and a cement interval across the Mahogany oil shale zone, if present.

Ray A. Brady
Geologist

ONE HUNDRED YEARS OF EARTH SCIENCE IN THE PUBLIC SERVICE

Oil Shale

Date 12/22/80

Memorandum

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

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

Subject: Application for Permit to Drill (form 9-331c) Federal oil and gas lease No. U-02651-A Well No. 11

1. The location appears potentially valuable for:

   [ ] strip mining*

   [x] underground mining** oil shale

   [ ] has no known potential.

2. The proposed area is

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

   [x] not under a Federal lease under the jurisdiction of this office.

3. [x] 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.

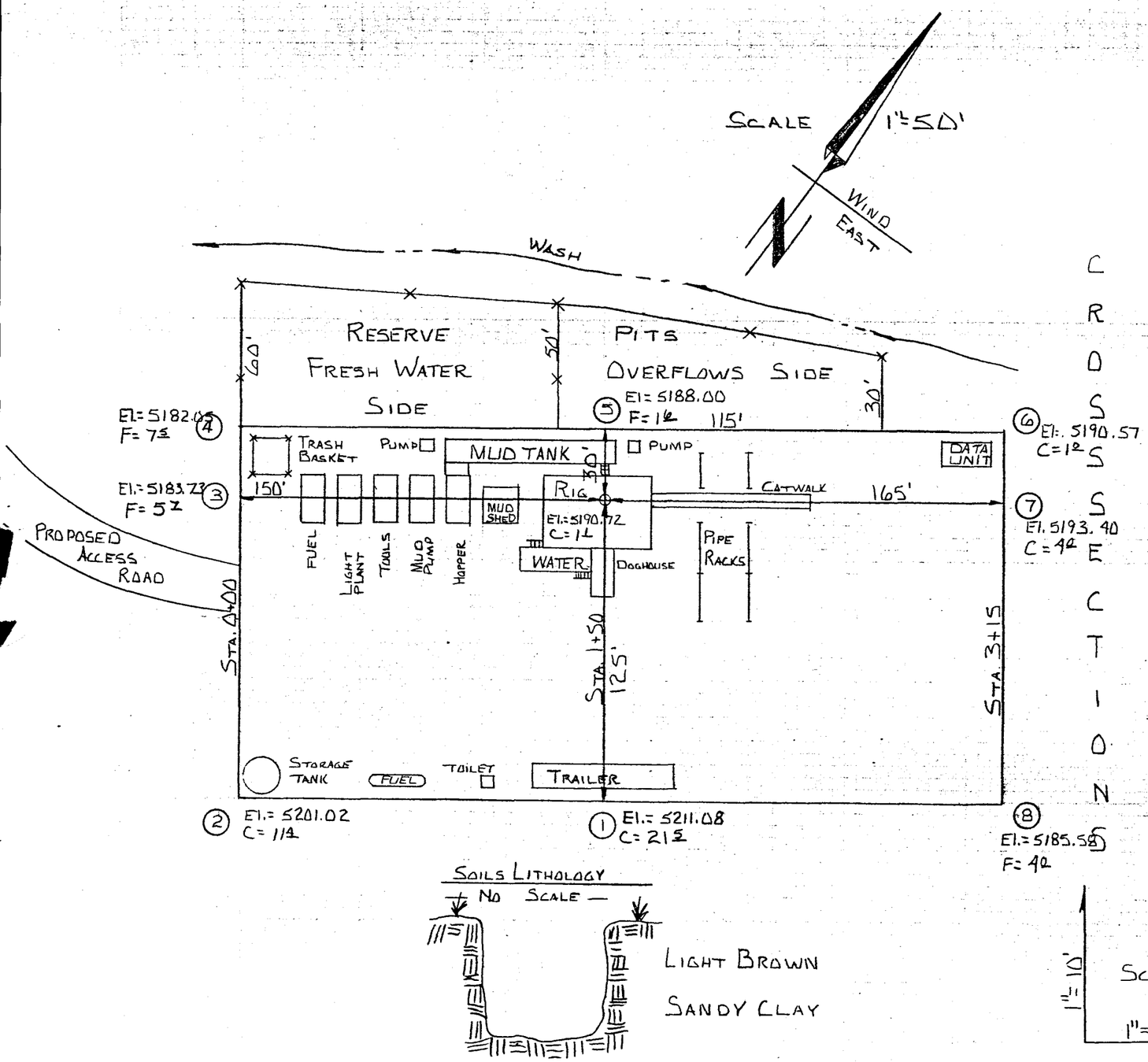
*If location has strip mining potential:

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:

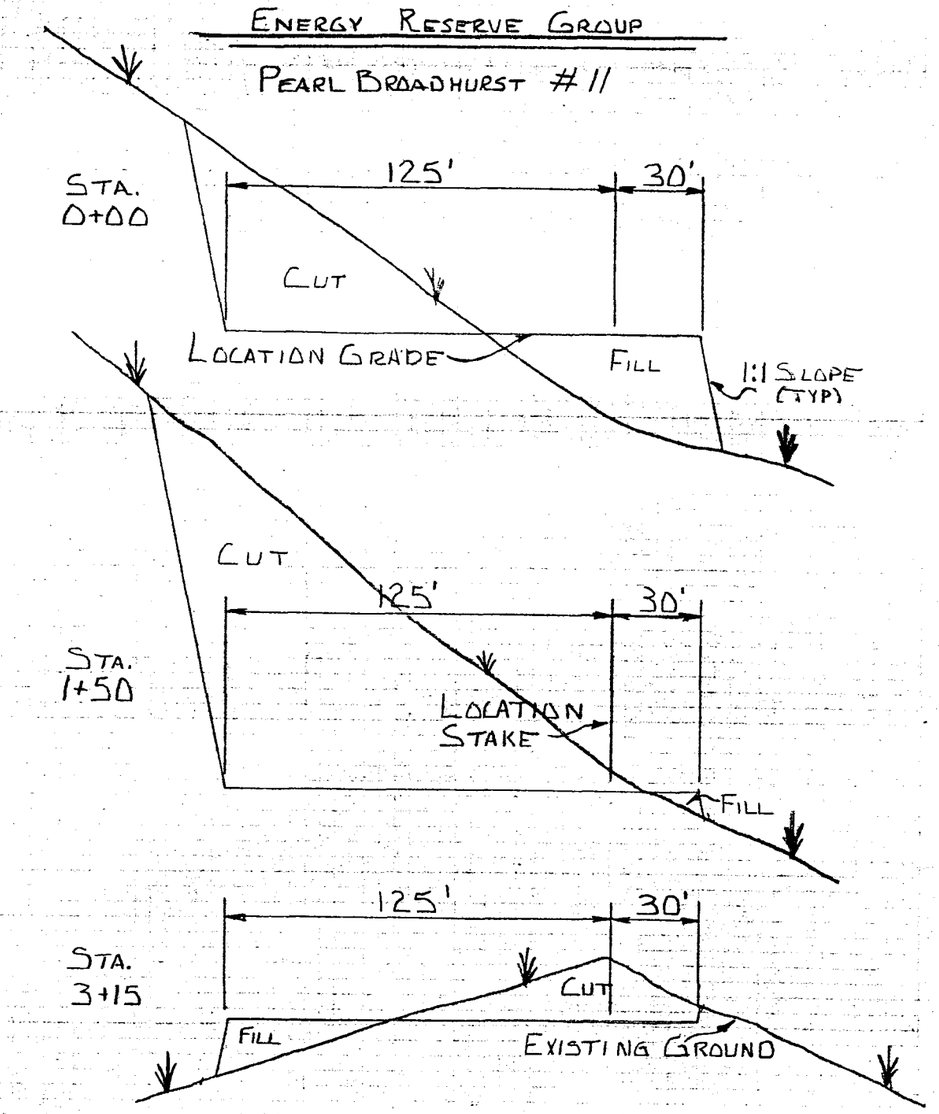
The minable zones should be isolated with cement from a point 100 feet below the formation to 100 feet above the formation. Water-bearing horizons should be cemented in like manner. Except for salines or water-bearing horizons with potential for mixing aquifers, a depth of 4,000 feet has been deemed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

Signed Allen F Vance



ENERGY RESERVE GROUP

PEARL BROADHURST #11

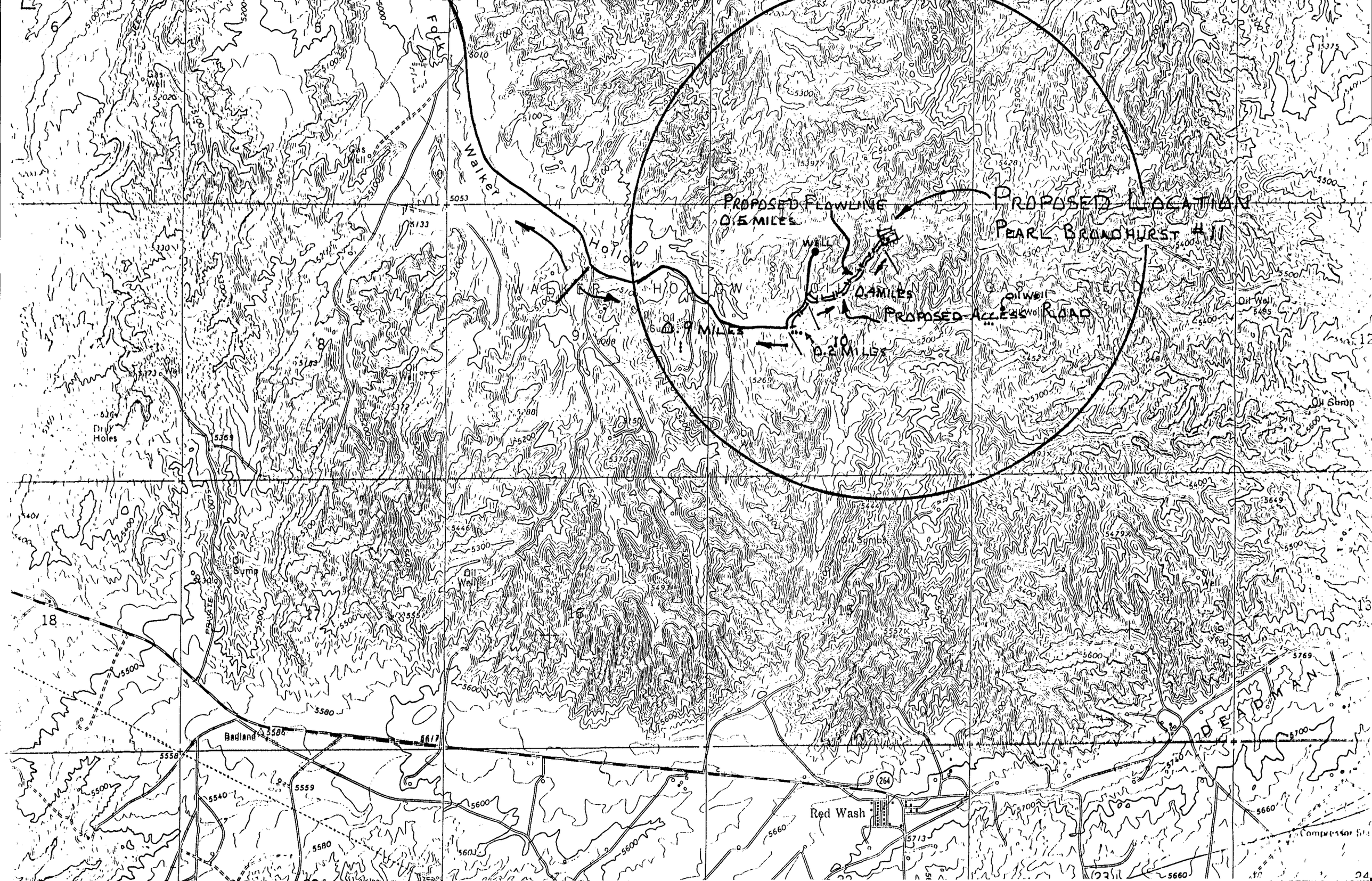


APPROXIMATE YARDAGES

CUBIC YARD OF CUT = 11,986

CUBIC YARDS OF FILL – 1494

ENERGY RESERVES GROUP
PROPOSED LOCATION
PEARL BROADHURST #11
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
UTAH
QUADRANGLE LOCATION
Hollow
Walker
Hollow
Left
Fork
Right
Fork
Right
Clay Basin
JEEP TRAIL
PRIVATE
Oil Well
Gas Well
HIGHWAY 264
5.3 MILES
JENSEN UT. 13.9 MILES
VERNAL UT. 26.9 MILES
T68
T75
R 23 E
R 23 E


PROPOSED FLOWLINE
0.5 MILES
PROPOSED LOCATION
PEARL BROADHURST #11
WELL
0.4 MILES
PROPOSED ACCESS ROAD
0.9 MILES
0.2 MILES
WALKER HOLLOW
Walker
Hollow
Fork
GAS FIELD
Gas Well
Oil Well
Oil Sump
Oil Symbs
Drill Holes
PRIVATE
Badland
Red Wash
DEADMAN
Compressor Sta
264

9-331
1973

Form Approved.
Budget Bureau No. 42-R1424

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: 713' FNL & 1,747' FEL (NW/NE)
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
Pearl Broadhurst

9. WELL NO.
11

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 DF, KDB, AND WD)
G.L. - 5,191'; K.B. - 5,203'

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

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☐	☐
(other) Well History		X

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

RECEIVED
MAR 24 1981
DIVISION OF OIL, GAS & MINING

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.)*

Drld. 7-7/8" hole to 5,610' & ran logs

Ran 128-jts- 5-1/2" O.D., 14#, K-55, R-3, ST&C, New casing set @ 5,597' cemented w/400 sx. of class "G" cement w/3% D-79 & 10# of D-42- Kolite/sx.; followed by 350 - sx modified self-stress cement w/10# of D-42/sx. Plug down @ 7:50 p.m., 3-17-81. Good circulation throughout job - cement did not circulate.

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

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

SIGNED Roger C. Gillespie TITLE Drlg. Supt. RMD DATE 3-20-81

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

9–331
1973

Form Approved.
Budget Bureau No. 42–R1424

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 [X] 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: 713' FNL & 1,747' FEL (NW/NE)
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
U.S.A. Pearl Broadhurst

9. WELL NO.
11

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 DF, KDB, AND WD)
K.B. 5,204 (GRD + 13')

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

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	[ ]	[ ]
FRACTURE TREAT	[ ]	[ ]
SHOOT OR ACIDIZE	[ ]	[ ]
REPAIR WELL	[ ]	[ ]
PULL OR ALTER CASING	[ ]	[ ]
MULTIPLE COMPLETE	[ ]	[ ]
CHANGE ZONES	[ ]	[ ]
ABANDON*	[ ]	[ ]
(other) Top of Cement		X

(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.)*

A cement bond log indicated the Top of Cement to be at ± 2,200' K.B. on the subject well.

RECEIVED
APR 17 1981
DIVISION OF
OIL, GAS & MINING

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

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

SIGNED Bobby Patrick TITLE Prod. Engr- RMD DATE 4-15-81

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Consultants A division of the XCO Corporation

—Providing Geologists for Wellsite and Prospect Evaluation—

ENERGY RESERVES GROUP, INC.

#11 USA - BROADHURST

713' FNL & 1747' FEL

SECTION 10 - T7S - R23E

UINTAH COUNTY, UTAH

ERIC SANDIN, GEOLOGIST

910 16th Street • Suite 521-522 • Denver, Colorado 80202 • Telephone (303) 893-6764

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RESUME

OPERATOR:	Energy Reserves Group, Inc.
WELL NAME & NUMBER:	#11 USA - Broadhurst
LOCATION:	713' FNL & 1747' FEL Section 10, T7S, R23E
COUNTY:	Uintah
STATE:	Utah
SPUD DATE:	February 28, 1981
COMPLETION DATE (TD):	March 16, 1981
ELEVATIONS:	GL: 5,191' KB: 5,204'
TOTAL DEPTH:	LOGGER: 5,606' DRILLER: 5,608'
CONTRACTOR:	MGF Drilling Company
RIG:	#65
TYPE RIG:	National T-45
PUMPS:	#1: National K-500A #2: National C-250
GEOLOGIST:	Eric C. Sandin, GS Consultants
ENGINEER:	Chet Baker
TOOL PUSHER:	Barry Waugh
TYPE DRILLING MUD:	Lightly treated
MUD COMPANY:	Magcobar
MUD ENGINEER:	Rob Helbing
HOLE SIZES:	12-1/2" to 508' 7-7/8" to TD
CASING:	K-55 8-5/8" set at 508'
MUD LOGGING BY:	Melton Enterprises
MUD LOGGERS:	Doug Rolfe, Tom Snyder
TYPE UNIT:	Conventional 2-Man Logging
ELECTRIC LOGS BY:	Dresser Atlas
LOGGING ENGINEER:	Bob Torgerson

RESUME (Cont.)

TYPE LOGS RUN:	DIL-GR-SP; base sfc csg to TD DNC-CNL-GR-Cal; base sfc csg to TD SONIC-GR; base sfc csg to TD
BOTTOM FORMATION:	K-Zone, Green River
WELL STATUS:	Running casing for production

SUMMARY AND CONCLUSIONS

The #11 USA-Broadhurst was spudded on February 28, 1981 and completed to a depth of 5,610' on March 16, 1981.

The Green River formation was penetrated at 2,824' (all depths stated are taken from the electric logs).

A 110 unit total gas kick was recorded at 2,865'. This originated in a thick sandy section just below the top of the Green River formation. Lithology showed fine to medium grained sandstone with heavy asphalt staining. This asphalt sand is common to the section and is generally considered to be non-productive.

A 50 unit total gas kick was encountered at 2,945'. This also is part of a large sandy interval which, at this point, has a porosity of 20% and a resistivity of 100 ohms. No show was found in the drilling samples.

A hydrocarbon-bearing zone was revealed on the Prolog from 3,025' - 3,205'. No gas or visual show was detected while drilling this interval, however, porosities of up to 20% and water saturation values ranging from 40 to 60% were found by field analysis of the electric logs.

Several 'dead oil' sands were encountered between 3,325' and 3,525'. Background gas ranged from 5 to 18 units. No pay zones were indicated on the electric logs.

Possible pay zones were revealed on logs from 3,680' - 3,710', 3,767' - 3,809', and 3,824' - 3,846'. Porosities ranged from 17 to 22% and water saturation from 40 to 50%. These calculations have to be regarded as being overly optimistic as no gas or oil presence was detected while drilling.

The Green River G-zone was penetrated at 4,397', (+807'), four feet low to the #9 USA-Broadhurst. No shows were found in this zone.

The Green River H-zone was penetrated at 4,644' (+560'), 13' high to the #9.

Moderate gas shows were found at 4,672' (20 units) and 4,765' (95 units). Lithology for each of these was very fine sandstone with good porosity and some brown to graybrown oil stain. Electric logs showed these sands to have prohibitive water saturation values.

The Green River I-zone was reached at 4,876', (+328'). This is 16' high to the Broadhurst #9. No productive intervals were found in this zone.

SUMMARY AND CONCLUSIONS (Cont.)

The Green River J-zone was penetrated at 5,163' (+41), 18' high to the #9.

Excellent sample shows were found in sands at 5,244' - 5,252' and 5,270' - 5,274'. Lithology was very fine to fine grained sandstone with light to medium brown oil stain and having fair to very good visible porosity. Gas kicks of 25 units were recorded over these intervals. Electric log analysis is seemingly at odds with the observed show, the logs indicating water saturation in excess of 80%. A porosity of 17% is also indicated.

The Green River K-zone was penetrated at 5,328' (-124'), 16' high to the Broadhurst #9.

A sand from 5,362' - 5,368' produced a 10 unit gas kick and some visible oil in the samples. 15% porosity and 62% water saturation were calculated for this zone.

In summary, prospects for completion of the #11 USA - Broadhurst are unclear. Pay zones indicated on the electric logs are not corroborated by field observations and vice-versa. Further detailed analysis is required to clarify the possibilities for production.

After examination of the electric logs by concerned parties, the decision was made to set production casing. This was accomplished on March 17, 1981.

FORMATION TOPS

No. 11 USA Broadhurst - KB: 5,204'

No. 9 USA Broadhurst - KB: 5,193'

FORMATION	TOP BROADHURST #11 TOP	SUBSEA	TOP BROADHURST #9 TOP	SUBSEA	± RELATIVE TO BROADHURST #9
Uintah	At surface		At surface		--
Green River	2,824	+2,380	2,846	+2,347	+33
G-Zone	4,397	+ 807	4,382	+ 811	- 4
H-Zone	4,644	+ 560	4,646	+ 547	+13
I-Zone	4,876	+ 328	4,881	+ 312	+16
J-Zone	5,163	+ 41	5,170	+ 23	+18
K-Zone	5,328	- 124	5,333	- 140	+16
TOTAL DEPTH	5,606	- 402	5,611	- 418	--

DAILY CHRONOLOGY

1981 DATE	12:01AM DEPTH	FUNCTION	REMARKS
2/28	--	Rig up	Spud @ 1600 hrs.
3/1	177	Drilling	Drill to 508' @ 1230 hrs, trip out & run 511' casing and cement.
3/2	508	Nipple up	Nipple up, drill out from casing @ 1430 hrs.
3/3	955	Drilling	Trip for #3 1015-1345 hrs.
3/4	1,908	Tripping	Trip for #4 0010-0300 hrs.
3/5	2,526	Drilling	Trip for #5 0015-0330 hrs.
3/5	2,904	Drilling	
3/7	3,253	Drilling	
3/8	3,533	Drilling	
3/9	3,941	Drilling	Trip for #6 1230-1700 hrs.
3/10	4,230	Drilling	
3/11	4,527	Drilling	
3/12	4,781	Drilling	
3/13	5,040	Drilling	
3/14	5,222	Drilling	Trip for #7 0330-0830 hrs.
3/15	5,371	Drilling	
3/16	5,535	Drilling	TD 5,610' @ 0845 hrs, circ & condition mud, trip out for logs, run E-logs 1200-

BIT RECORD

BIT #	MAKE	TYPE	DEPTH OUT	FOOTAGE	HOURS
2	STC	DT	1,481	973	19
3	SEC	S3	1,918	437	11-1/2
4	STC	DTJ	2,538	620	20-1/4
5	SEC	S84F	4,106	1,568	99-3/4
6	STC	F-2A	5,246	1,140	102
7RR	STC	F-2	5,610	364	47-3/4

MUD RECORD MUDDED UP AT _____ ON _____

DATE	DEPTH	WT.	F.VIS.	P.VIS.	YIELD	GEL STRNT	PH	FILTR	CK.	ALKA.	SALT	CHLO	CALCIUM	GYP / SAND	SOLID / % WTR.	CUM. COST
3/2/81																
3/3	1324	8.6	28	—	—	—	7.0	n/c	n/c	.2	—	300	0	0/tr	0/100	—
3/4	2038	8.5	27	—	—	—	7.0	n/c	n/c	.3	—	300	—	—	—	609
3/5	2581	9.1	33	7	4	3/7	8.0	n/c	2/32	.5	—	400	0	0/tr	5.6/94.4	609
3/6	3036	9.2	35	10	7	4/12	10.0	n/c	2/32	1.6	—	400	0	0/tr	6.4/93.6	1275.81
3/7	3316	9.1	35	8	5	4/13	10	12	2/32	1.6	—	500	0	0/tr	5.7/94.3	2070.98
3/8	3628	8.9	35	8	5	3/9	10.5	12	2/32	1.6	—	500	0	0/tr	4.2/95.8	3043.03
3/9	4035	9.1	34	10	7	8/15	10	9	2/32	1.7	—	500	0	0/tr	5.6/94.4	3955.77
3/10	4314	9.2	36	10	6	6/13	10	8.4	2/32	1.6	—	400	0	0/tr	6.4/93.6	5152.61
3/11	4615	9.2	36	10	7	4/13	10	8.4	2/32	1.6	—	400	0	0/tr	6.4/93.6	6433.29
3/12	4848	9.1	34	9	5	3/7	10	8.4	2/32	1.3	—	400	0	0/tr	5.7/94.3	7673.24
3/13	5030	9.1	35	10	5	3/11	10	9	3/32	1.4	—	400	0	0/tr	5.6/94.4	9080.64
3/14	5246	9.0	34	11	6	6/13	10.5	8.4	2/32	1.8	—	400	0	0/tr	4.9/95.1	10,447.45
3/15	5424	9.0	34	9	4	3/11	10.4	7.4	2/32	1.3	—	500	0	0/tr	4.9/95.1	11,662.70
3/16	5592	9.1	36	11	8	4/9	10	8	2/32	1.4	—	400	0	0/tr	5.7/94.3	13,047.43

[illegible] interpretations of log our employees will give Customer the benefit of their best judgement, but since all interpretations are opinions based on inferences from electrical or other measurements, we cannot, and we do not guarantee the accuracy or the correctness of any interpretation. We shall not be liable or responsible for any loss, cost, damages, or expenses whatsoever incurred or sustained by the Customer resulting from any interpretation made by any of our employees.

DATE 17 MAR 81 | ENGINEER TORGERSON | SERVICE TABLES K209U, K243V, K228B

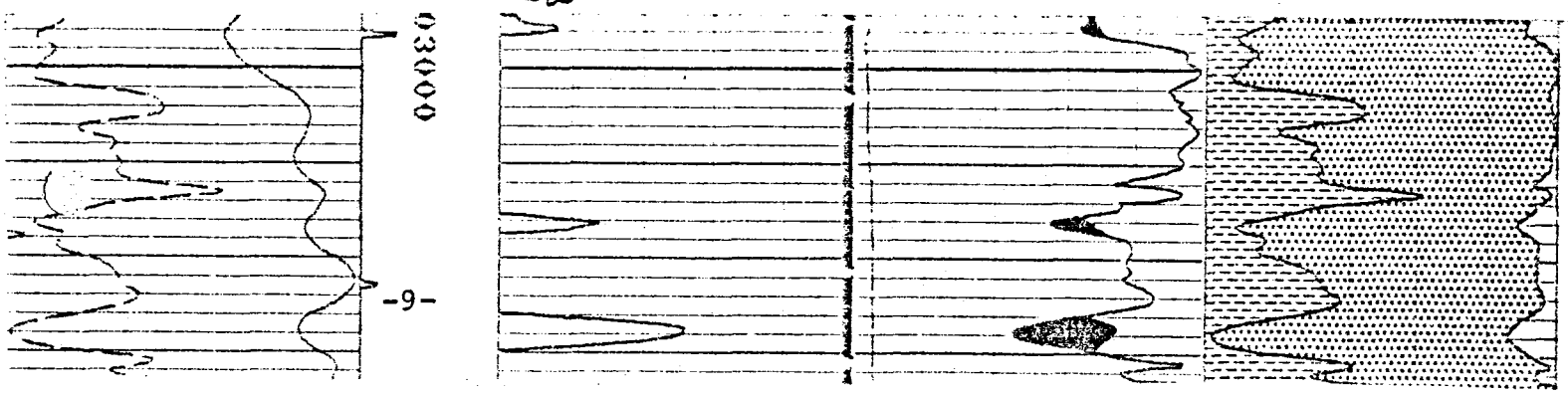
COMPUTATION PARAMETERS

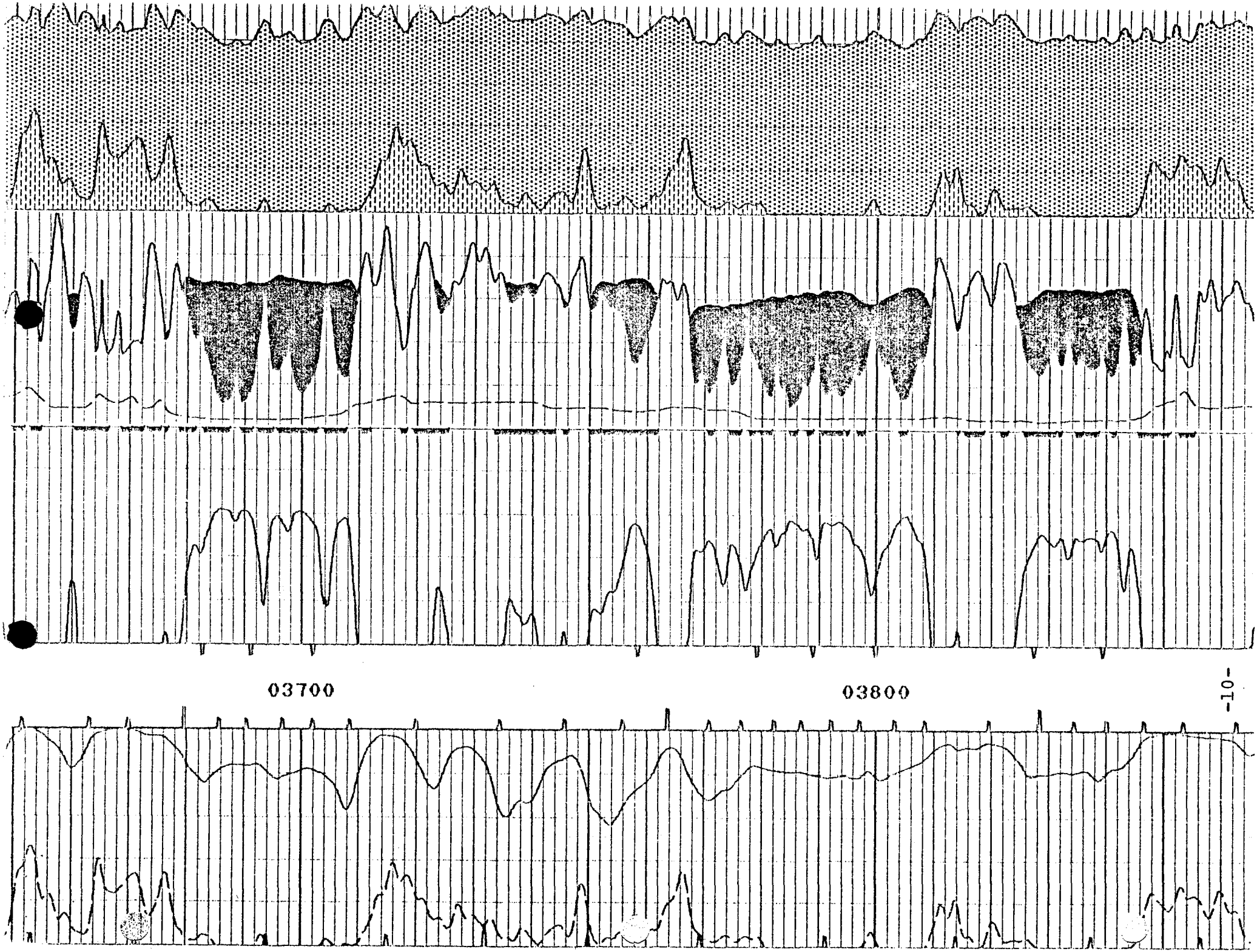
DEPTH INTERVAL FROM	TO	ρ_{SH}	ϕN_{SH}	Δt_{SH}	GR_{CL}	GR_{SH}	RW	a	m	ρ_{MA}	Δt_{ma}
5610	3000	2.57			30	130	.35	.62	2.15	2.68	

REMARKS: PARAMETERS CHOSEN BY CURTIS SPORBERT

LITHOLOGIC CHARACTERISTICS	DEPTH	WATER	POROSITY AND FLUIDS % BULK VOLUME	FORMATION % BULK VOLUME
SHALE % BULK VOLUME 0 — 100		WATER SATURATION 100 % 0	HYDROCARBON RESIDUAL / DISPLACED / WATER	CLAY / QUARTZ / POROSITY
		RWA 0 5	25 % 0	100 % 0
SP − |10| +		caliper (−) bit Size −4 0 12		
BOREHOLE VOLUME 10' 100'		HYDROCARBON FEET 1' 10'		
POROSITY FEET 1' 10'		DATA EDIT		

SW RUN

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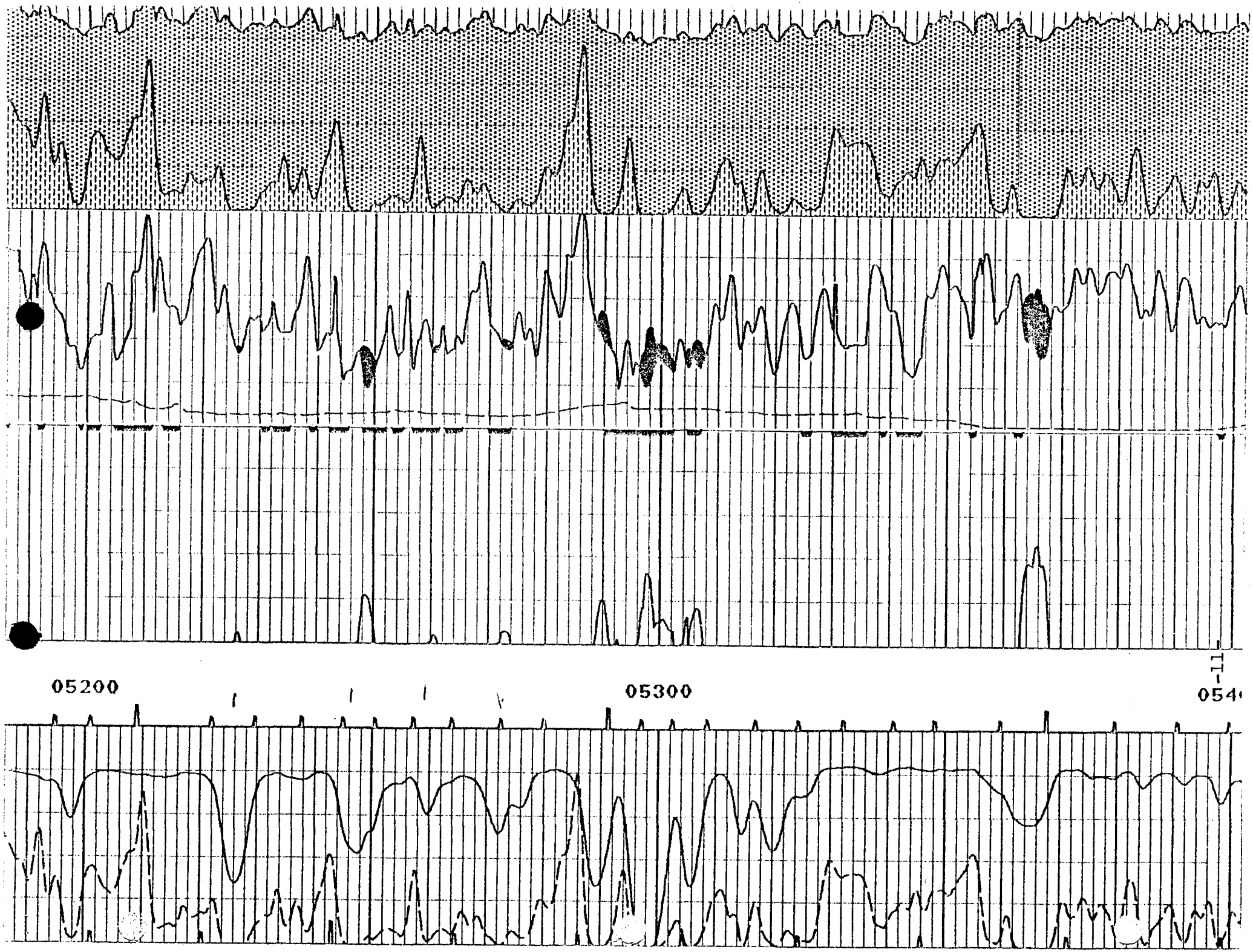
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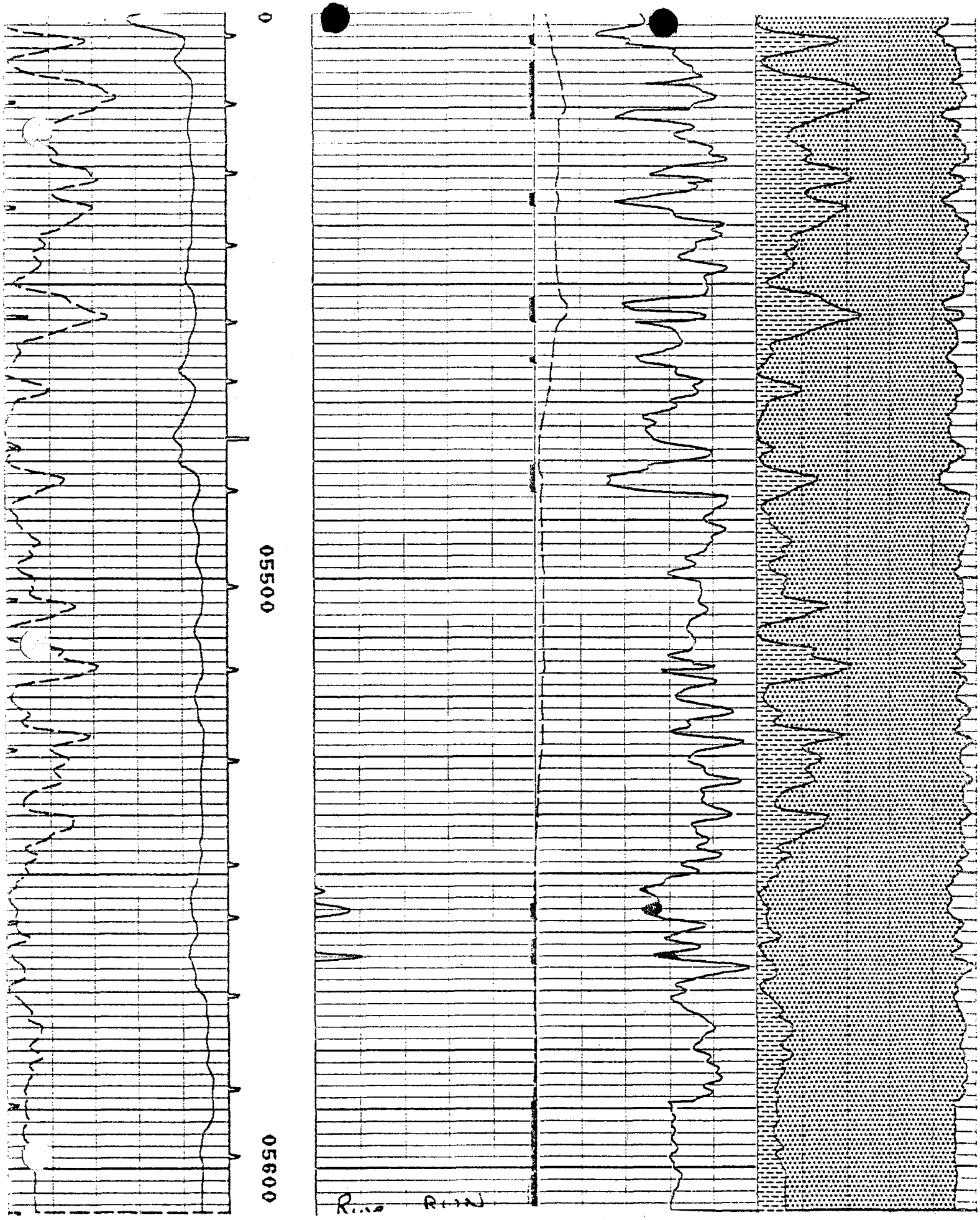
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05500
05600

LITHOLOGY

2,700 - 2,720	SHALE - yelgn, red, gy, mot, frm, blky, wxy, sl calc, n fis, slty in pt.
2,720 - 2,740	SHALE - gen a/a, incr slty. SILTSTONE - wh, lt gy, sl col a/a, frm, qtzs, blky, v arg, calc, tr grdng to vf SS.
2,740 - 2,760	SANDSTONE - wh-cl, vf-f, v slty, abnt wh arg matrix, sbang-sbrd, n vis Ø, NSOFC. SHALE - v col mot, gen a/a, v slty in pt.
2,760 - 2,780	SHALE - brck red, green, gy, yel, mot, frm, blky, sbwxy-wxy, sl calc, slty in pt, tr biotite. SILTSTONE - lt gy, v col, frm, blky, calc, sme grdng to vf SS, p srtd, n Ø.
2,780 - 2,800	SHALE - red, gy, mot, frm, blky, ang-sbwxy, calc.
2,800 - 2,820	SHALE - gen a/a.
2,820 - 2,840	SANDSTONE - wh-gy, s&p, hd, f, ang-sbrd, v tt, n Ø, calc matrix, NSOFC.
2,840 - 2,860	SANDSTONE - gen a/a, poor srtd, f-m, ang-sbrd, com w/ rck or shale frags as inclusions.
2,860 - 2,880	SANDSTONE - dk brn-blk, f-m, sbang-sbrd, v hvy asphalt, g vis Ø, fnt yel o stn, exc cut.
2,880 - 2,900	SANDSTONE - wh-cl, f, ang, v tt, hd, n Ø, sl calc, NSOFC, tr w/asphalt as above. SHALE - v col, gen a/a.
2,900 - 2,920	SILTSTONE - gy, blky, qtzs, arg, calc. SHALE - gy, blgy, hd, blky, n fis, xln texture, v sl calc, n slty.
2,920 - 2,940	SILTSTONE - lt gy, gen a/a. SHALE - rd, gy, blgy, gen a/a.
2,940 - 2,960	SANDSTONE - wh-lt gy, vf, v slty & grdng to Siltstone, frm, calc, p srtd, g Ø, NSOFC.
2,960 - 2,980	SHALE - v col, blky, calc, gen a/a.
2,980 - 3,000	SHALE - a/a. SANDSTONE - wh-lt gy, vf, v slty & grdng to Siltstone, calc, gen a/a.

LITHOLOGY (Cont.)

3,000 - 3,020	SHALE - tan, dk rd, gy, blky-occ sbfis, frm, sbwxy-slty, calc. SANDSTONE - wh, lt gybrn, vf, frm, w srtd, sbang, g Ø, NSOFC.
3,020 - 3,040	SHALE - rd, yelgy, gngy, mot, pred sbwxy, gen a/a.
3,040 - 3,060	SANDSTONE - wh, lt gy, frm, vf, grdng to Siltstone, calc, p-g vis Ø, NSOFC. SHALE - rd, gy, mot, blky-sbfis, n-v slty, calc.
3,060 - 3,080	SANDSTONE - gen a/a, vf-f, f srtng.
3,080 - 3,100	SANDSTONE - wh, lt gy, vf-f, frm, n-v slty, p-vg vis Ø, sbang-sbrd, calc, f srtng, NSOFC.
3,100 - 3,120	SHALE - lt-dk gy, hd, slty & sdy, sl calc, n fis. SANDSTONE (tr) - wh, vf, w srtd, g Ø, sbang-sbrd, NSOFC.
3,120 - 3,140	SANDSTONE - wh-lt gy, vf, slty, wh arg matrix, n-g vis Ø. SHALE - v col, blky, frm, sbwxy, also; gy, hd, a/a.
3,140 - 3,160	SHALE - rd, yel, gn, gy, frm-hd, blky, sbwxy-sme w/xln texture, slty in pt.
3,160 - 3,180	SANDSTONE - wh-lt gy, vf-f, v slty, sbang-rd, p-f srtng, pred n-p vis Ø, occ g Ø, v calc, NSOFC.
3,180 - 3,200	SANDSTONE - wh-lt gy, frm, v slty & arg, gen a/a, NSOFC.
3,200 - 3,220	SANDSTONE - gen a/a. SHALE - m gy, hd, blky, xln texture, sl-mod calc, n slty.
3,220 - 3,240	LIMESTONE - lt gybrn-buff, hd, blky, crpxln micrite, n Ø, arg, NSOFC. SANDSTONE - gen a/a, v limey in pt. SHALE - lt-dk gy, hd, blky, n fis, sl-v calc, n slty.
3,240 - 3,260	SHALE - gen a/a. LIMESTONE - gen a/a, decr abnt.
3,260 - 3,280	SHALE - lt-dk gy, hd, xln texture, sl calc.
3,300 - 3,320	SHALE - m-dk gy, hd, blky-ang, xln texture, sl-mod calc, n fis. LIMESTONE - tan, buff, frm, crpxln micrite, arg, n Ø, NSOFC.

LITHOLOGY (Cont.)

3,320 - 3,340	SHALE - v col, gen a/a.
3,340 - 3,360	SHALE - gen a/a. SANDSTONE (tr) - wh-brn, vf, frm, g srtng, sbang, tr w/brn dd o & asphalt, dull yel flor.
3,360 - 3,380	SHALE - gy, sme gygn, frm-hd, blky-ang, sl-mod calc, occ slty.
3,380 - 3,400	LIMESTONE - lt gybrn, buff, frm, blky, crpxln micrite, arg, n Ø, NSOFC. SHALE - gy, lt gybrn, frm-hd, blky-ang, sl-v calc, gen n slty.
3,400 - 3,420	SHALE - gy, gybrn, gen a/a. LIMESTONE - buff, crpxln, a/a. SANDSTONE (tr) - wh, vf-f, sbang, w/brn dd o stn, dull gold flor, g strmg cut.
3,420 - 3,440	SHALE - gy, a/a. SANDSTONE (tr) - dk brn, vf, mod slty, f srtng, sbang, g Ø, com w/blk asphalt, n flor.
3,440 - 3,460	SANDSTONE (tr) - wh-m brn, vf-f, sbang-rd, occ w/biotite, n-p Ø, gen v tt, w/lt-m brn o stn, dull yel flor, slo-g strmg cut.
3,460 - 3,480	SHALE - gy, rd, gngy, yel, mot, blky, frm-sl hd, sbwxy in pt, calc, n slty, n fis. SANDSTONE (tr) - gen a/a, occ w/dd o stn, n flor.
3,500 - 3,520	SHALE - gy, frm-hd, blky, slty, sme xln texture, sl calc, also red, redbrn, frm, sbwxy, sl calc, n fis.
3,520 - 3,540	SANDSTONE - wh-brn, frm, vf-f, sbang-sbrd, fair srtng, com w/blk dd o stn & asphalt, n flor. SHALE - gy, hd, xln, slty, gen a/a.
3,540 - 3,560	SANDSTONE - wh-brn, vf-f, frm, sbang-sbrd, tight appearance, n-v slty & arg, com w/m brn o stn or blk asphalt, sme w/dull yel o flor, slo strmg cut.
3,560 - 3,580	SILTSTONE - gy, frm, blky, calc grdng to gy SH - a/a.
3,580 - 3,600	SANDSTONE - wh-lt brn, vf, g srtng, sbang, arg, calc, n-f vis Ø, tr w/brn o stn, n flor, gen v tight.
3,600 - 3,620	SHALE - gy, gybrn, brn-rd, frm-hd, blky-ang, sme w/ xln texture, v slty in pt.

LITHOLOGY (Cont.)

3,620 - 3,640	SHALE - gen a/a, incr red-yelbrn mot, frm, blky, sbwxy, n slty, sl calc.
3,640 - 3,660	SHALE - slty, gen a/a.
3,660 - 3,680	SANDSTONE - wh, frm, vf, g srtng, v slty, arg, n vis Ø, calc, NSOFC.
3,680 - 3,700	SHALE - v col, mot, frm, blky-sbwxy, calc, n-v slty.
3,700 - 3,720	SHALE - yelgn, gy, rd mot, frm, blky, gen sbwxy, sl calc.
3,720 - 3,740	SHALE - bright red, gygn, frm, blky, sbwxy-sbfis, sl calc. SANDSTONE - wh, vf grdng to Siltstone, sbang, v tt, n vis Ø, sl calc, NSOFC.
3,740 - 3,760	SHALE - v col, gen a/a.
3,760 - 3,780	SHALE - v col, gen a/a.
3,780 - 3,800	SANDSTONE (tr) - clr-white, f, sbang, frm, g Ø to hard and tight, NSOFC.
3,800 - 3,820	SANDSTONE - wh-lt gy, vf-f, sbang-sbrd, n-f vis Ø, NSOFC. SHALE - v col, frm, slty in pt, calc.
3,820 - 3,840	SHALE - lt gy, gygn, rd, yelbrn, frm, blky-sbfis, sbwxy-v slty, calc.
3,840 - 3,860	SHALE - dk gy, hd, xln texture, sb splintery, calc, n slty,also; v col a/a. SANDSTONE (tr) - wh, vf, frm, g srtng, g Ø, NSOFC.
3,860 - 3,880	SHALE - gen a/a.
3,880 - 3,900	SANDSTONE - wh, vf-f, v slty, sbang-w rd, abnt wh arg calc matrix, f-p srtng, n vis Ø, NSOFC.
3,900 - 3,920	SANDSTONE - wh, frm, vf, g srtng, sbang, wh arg calc matrix, n-f vis Ø, NSOFC.
3,920 - 3,940	SHALE - gy, frm-hd, xln-blky, sl calc, slty in pt, also; dk rd, blky, sbwxy, calc.
3,940 - 3,960	SHALE - gy-v col, gen a/a.
4,000 - 4,010	SANDSTONE - wh, frm, vf, tt, calc, g srtng, sbang, n Ø, NSOFC.

LITHOLOGY (Cont.)

4,010 - 4,020	SHALE - rd, gy, gn, yelbrn, frm, blky, com slty, calc. SANDSTONE - wh gen a/a, decr in sple.
4,020 - 4,030	SHALE - v col, slty, gen a/a.
4,030 - 4,040	SANDSTONE - wh, frm, vf-m, w-p srtng, sbang w/occ m rd grns, wh calc matrix, n vis Ø, NSOFC.
4,040 - 4,050	SHALE - dk rd, frm, blky, calc, slty, also; v col grdng to Siltstone, a/a.
4,050 - 4,060	SHALE - gen a/a.
4,060 - 4,070	SHALE - gen a/a.
4,070 - 4,080	SANDSTONE - wh, vf, frm, slty, sbang, g Ø, g-f srtng, NSOFC, sme vf sd grns in chlky calc matrix, bri yel mnrl flor, n stn, n cut. SHALE - gy, rd, gy, frm, blky, occ fis, slty in pt, calc.
4,080 - 4,090	SANDSTONE - wh, vf-f, tt, n Ø, NSOFC. SHALE - v col, gen a/a.
4,090 - 4,100	SHALE - v col, gen a/a.
4,100 - 4,120	SHALE - rd, gy, gn, mot, blky, occ sbfis, slty, calc, a/a.
4,120 - 4,130	SHALE - gen a/a.
4,130 - 4,140	SANDSTONE - wh, frm, vf-f, sbang-sbrd, f-w srtd, g Ø, NSOFC. SHALE - dk rd, blky, calc.
4,140 - 4,150	SANDSTONE - gen a/a, n-g vis Ø, NSOFC.
4,150 - 4,160	NO SAMPLE.
4,160 - 4,170	SANDSTONE - clr-wh, lse, vf, sbrd-sbang, sme fros, NSOFC.
4,170 - 4,180	SANDSTONE - a/a, lse-p cmtd, p srtd, g Ø, NSOFC.
4,180 - 4,190	SHALE - v col a/a. SANDSTONE - decr a/a.
4,190 - 4,200	SHALE - gngy, rd, gy, frm, blky-sbfis, calc, sme slty.
4,200 - 4,210	SHALE - brick red, frm, blky, n fis, calc, slty in pt.

LITHOLOGY (Cont.)

4,210 - 4,220	SHALE - rd, v col, a/a. SANDSTONE (tr)- vf, unconsolidated.
4,220 - 4,230	SHALE - rd, gy, blky, gen a/a. SANDSTONE - clr-wh, lse, vf, sbrd, sme fros.
4,230 - 4,240	SANDSTONE - clr-wh, lse, gen a/a. SHALE - gngy, frm, sbfis, sl calc, n slty.
4,250 - 4,260	SANDSTONE - wh-clr, vf, lse, occ p cmtd, sbang-w rd, com fros, NSOFC.
4,260 - 4,290	SANDSTONE - gen a/a. SHALE (tr) - gn-gy, red, blky-sbfis, calc, slty in pt.
4,290 - 4,300	SANDSTONE - wh-clr, lse-p cmtd, ang-rd, NSOFC. SHALE - gy, red, gn, frm, blky-sbfis, calc, slty in pt.
4,300 - 4,310	SHALE - dk gy, frm, blky-sbfis, calc, slty in pt.
4,310 - 4,320	SANDSTONE - cl-wh, lse, a/a. SHALE - gy, gygn, v slty in pt, calc.
4,320 - 4,350	SANDSTONE - gen a/a. SHALE - gen a/a.
4,350 - 4,360	SANDSTONE - lse a/a, tr lt-m brn, vf, p cmtd, sbang, sl slty, fri, w/brn o stn, n flor, n cut. SHALE - gngy, gy, rd, frm, sbfis-blky, calc, slty in pt.
4,360 - 4,370	SANDSTONE - gen a/a, com w/brn dd o stn, n flor, n cut. SHALE - v col a/a.
4,370 - 4,420	SANDSTONE - gen a/a, dd o stn decr. SHALE - v col a/a.
4,420 - 4,430	SANDSTONE - wh, vf-f, fri, sbang-sbrd, slty, sl arg, g Ø, NSOFC.
4,430 - 4,440	SHALE - rd-gn, sft-frm, blky-sbfis, calc.
4,440 - 4,450	SHALE - gen a/a.
4,450 - 4,500	SANDSTONE - lse, occ p cmtd, vf-f, sbrd-rd, fros, NSOFC.
4,500 - 4,510	SHALE - brick red, gngy, blky-sbfis, sl-mod calc, gen n slty. SANDSTONE - abnt lse a/a, also; wh, vf, sbang-sbrd, w srtd, g Ø, NSOFC.
4,510 - 4,520	SHALE - v col, gen a/a.

LITHOLOGY (Cont.)

4,520 - 4,540	SHALE - v col, gen a/a. SANDSTONE - wh-cl, lse, gen a/a.
4,540 - 4,600	SANDSTONE - wh-cl, lse, gen a/a. SHALE - lt-dk gy, gygn, rd, frm, blky, slty, sme xln texture, n-mod calc.
4,600 - 4,610	SANDSTONE - wh, vf-f, sbang-sbrd, slty, arg, calc, n vis Ø, NSOFC.
4,610 - 4,620	SHALE - brick red, frm, blky, slty & occ sdy, sl-v calc, limey in pt.
4,620 - 4,630	SANDSTONE - gen a/a. SHALE - rd, gy, gygn, gen a/a, tr dism pyrite.
4,630 - 4,640	SANDSTONE - wh, vf-f, sbang, v frm, v tt, sl wh calc matrix, NSOFC.
4,640 - 4,650	SHALE - red, gygn, yelbrn, blky, slty-sbwxy, sl-mod calc.
4,650 - 4,670	SHALE - v col, gen a/a.
4,670 - 4,680	SANDSTONE - vf-m, lse-v p cmtd, sbang-rd, com fros exc Ø, v fri, tr brn o stn, bri yel pinpoint flor, v p srtd, fair streaming cut.
4,680 - 4,690	SANDSTONE - gen a/a w/tr brn o stn. SHALE - v col, gen a/a.
4,690 - 4,700	SHALE - dk rd, gygn, v frm, sl calc, blky-sbfis, n-com slty.
4,700 - 4,750	SHALE - v col, frm-v frm, xln texture, n fis, n-occ slty.
4,750 - 4,760	SHALE - m gy-gngy, frm, blky-sbfis, calc, slty in pt. SANDSTONE (tr) - lt gybrn, vf, w srtd, sbang-sbrd, slty in pt, calc, f Ø, NSOFC.
4,760 - 4,770	SANDSTONE (tr) - wh-gybrn, frm, vf-f, slty & arg, n-p vis Ø, tr w/gybrn dd o stn, n flor, v slo strmg cut.
4,770 - 4,780	SILTSTONE - lt gy, gybrn, sandy, frm, calc, NSOFC. SHALE - gygn, red, frm, n-v slty, calc, blky-fis. SANDSTONE (tr) - gen a/a; one pce w/ g Ø, lt brn o stn, g strmg cut.
4,780 - 4,800	SHALE - rd, gygn, gen a/a, grdng to Siltstone.
4,800 - 4,810	SANDSTONE - wh, vf, frm, sbang-rd, f-w srtd, n-vg Ø, lt yel brn o stn to dk brn dd o stn, dull yel flor, g strmg cut. SHALE - gy, gygn, red, blky-fis, calc, com slty.

LITHOLOGY (Cont.)

4,810 - 4,820	SANDSTONE - wh, vf, frm, sbang, slty, com w/vg Ø, NSOFC. SHALE - v col, gen a/a.
4,820 - 4,830	SHALE - v col, gen a/a.
4,830 - 4,840	SANDSTONE - wh-brn, vf, sbang, arg, sme w/g Ø, tr w/dk brn dd o stn, n flor, n cut.
4,840 - 4,850	SHALE - mot rd, gygn, blky, sbwxy in pt, n-v slty.
4,850 - 4,860	SHALE - gygn, brn, yel, brick red, blky, sbwxy, n fis, calc, occ slty.
4,860 - 4,890	SHALE - v col, gen a/a.
4,890 - 4,900	SHALE - v col, gen a/a. SANDSTONE - wh, vf, w srtd, sbang, tt, n vis Ø, calc, NSOFC.
4,900 - 4,910	SHALE - red, green, brn, frm, blky, calc, sme v slty.
4,910 - 4,920	SHALE - gen a/a.
4,920 - 4,930	SANDSTONE - wh-lt gybrn, vf-f, frm, sbang-sbrd, g srtng, n-sl wh calc matrix, gen w/exc Ø, sme gybrn-lt brn o stn, dull-bri yel o flor, g strmg cut.
4,930 - 4,940	SANDSTONE - gen a/a w/sme o stn, dull yel flor, g strmg cut.
4,940 - 4,950	SANDSTONE - wh, gen a/a, incr calc matrix, decr Ø, decr o stn.
4,950 - 4,960	SANDSTONE - wh, vf-m, sbang-sbrd, p-f srtng, n-g Ø, tr w/bri yel flor, brn o stn, g strmg cut.
4,960 - 4,970	SANDSTONE - wh, vf-m, p srtng, tr flor, tr o stn w/g cut.
4,970 - 4,980	SHALE - v col, blky-sbfis, calc, v slty in pt. SANDSTONE - not present in this sample.
4,980 - 4,990	SILTSTONE - lt gybrn, frm, calc, qtzs, w srtd, n Ø, NSOFC. SHALE - v col, pred gn-rd, blky-sbfis a/a. SANDSTONE (tr) - wh, gen a/a, NSOFC.
4,990 - 5,000	SHALE - gy, gygn, red, yelbrn, frm, sbfis-blky, calc, slty in pt. SANDSTONE - wh, vf-f, ang-sbang, frm, w srtd, occ p srtd, n-f vis Ø, gen v tt, NSOFC.
5,000 - 5,010	SHALE - v col, slty & sdy, occ sbwxy, gen a/a.

LITHOLOGY (Cont.)

5,010 - 5,020	SHALE - gen a/a, tr w/brn o lamina. SILTSTONE - wh-lt gy, qtzs, frm, calc, w srtd, n Ø.
5,020 - 5,030	SHALE - gen a/a; (No sand in sample.)
5,030 - 5,050	SHALE - pred brick red, blky, calc, n fis, sl slty, also gy-gygn, yelbrn, blky-sbfis, gen a/a. SANDSTONE (tr) - wh, vf, v slty, w srtd, NSOFC.
5,050 - 5,060	SANDSTONE - wh, vf, ang-sbang, tt, w srtd, calc, n Ø, NSOFC. SHALE - gy, gygn, red, blky-fis, calc, slty.
5,060 - 5,070	SANDSTONE (tr) - vf, w srtd, sbang, g Ø, NSOFC. SHALE - v col, gen a/a.
5,070 - 5,080	SHALE - v col, incr lt-m gy, sbfis, calc.
5,080 - 5,090	SANDSTONE - wh, s&p, v frm, vf-m, sbang-rd, tt, wh calc matrix, com w/rd chert frags, n Ø, NSOFC. SHALE - gen a/a, sme v limey.
5,090 - 5,100	LIMESTONE (tr)- gy, gybrn, frm, xln, n Ø, arg, NSOFC. SHALE - gen a/a, sme v slty.
5,100 - 5,110	SHALE - gygn, rd, blky-sbfis, sbwxy, calc, n-mod slty.
5,110 - 5,120	SANDSTONE - wh, frm, vf, sbang, fri, p-g Ø, NSOFC. SHALE - gen a/a, sme bentonite, lt blgy, sft, platy, w/green min flor.
5,120 - 5,130	SHALE - incr red-gy mot, blky, sbwxy, n fis, n slty, calc. SANDSTONE - wh-lt gy, vf-m, sbang, calc, v tt, n Ø, NSOFC.
5,130 - 5,140	SHALE - v col, red, gngy, blky, gen a/a.
5,140 - 5,150	LIMESTONE - mot gy-brn, frm, crpxln matrix w/abnt whole ostracod shells, n Ø, NSOFC. SHALE - incr gy, xln texture, v frm, n fis.
5,150 - 5,160	SHALE - v col, v frm, xln texture, n fis, n slty.
5,160 - 5,170	SANDSTONE - wh, vf, v fri, ang-sbang, calc, exc Ø, NSOFC.
5,170 - 5,180	SHALE - v col, gen a/a.
5,180 - 5,190	SHALE - v col, gen a/a.
5,190 - 5,200	SHALE - v col, gen a/a. SANDSTONE (tr) - wh-lt gy, vf grdng to Siltstone, tt, arg, NSOFC.

LITHOLOGY (Cont.)

5,200 - 5,210	SHALE - gy, gygn, rd, frm, sbfis-blky, calc, v slty in pt.
5,210 - 5,220	SHALE - gen a/a, sme sbwxy.
5,220 - 5,230	SHALE - v col, gen a/a.
5,230 - 5,240	SANDSTONE - wh-lt gy, vf, v slty in pt, ang-sbang, tt, calc, n Ø, NSOFC. SHALE - gen a/a, incr gy, sbfis, brittle.
5,240 - 5,250	SANDSTONE - wh, frm, vf-f, sbang-sbrd, calc, f-v g Ø, NSOFC.
5,250 - 5,260	SANDSTONE - lt brn-clr, vf-f, frm, fri, sbang-sbrd, calc, f-exc Ø, w/lt brn-m brn o stn, mod bri yel flor, exc immediate bri yel cut.
5,260 - 5,270	SANDSTONE - wh, frm, vf-f, sbang, tt, n Ø, w srtd, NSOFC.
5,270 - 5,280	SANDSTONE - lt-m brn, vf-f, fri, sbang-sbrd, incr slty, f-vg Ø, abnt lt-m brn o stn, bri yel flor, exc bri strmg cut.
5,280 - 5,290	SANDSTONE - wh, vf-m, frm, sbang-sbrd, tt, n Ø, NSOFC. SHALE - gy, orgrd, frm, blky, occ sbfis, slty in pt, calc.
5,290 - 5,300	SANDSTONE - wh-tan, vf-m, frm, sbang, gen v tt, tr w/ dull yel flor, g strmg cut.
5,300 - 5,310	SANDSTONE - gen a/a, tr bri yel flor, tr strmg cut.
5,310 - 5,320	SHALE - v col, blky, frm-v frm, sme w/xln texture, calc.
5,320 - 5,330	SANDSTONE - wh-lt gy, vf-m, p srtd, rd-sbang, tt, abnt wh calc matrix, n vis Ø, NSOFC.
5,330 - 5,340	SHALE - m-dk gy, hd, blky, xln, calc, n fis, n slty.
5,340 - 5,350	SHALE - v col, gen a/a.
5,350 - 5,360	SHALE - v col, gen a/a.
5,360 - 5,370	SANDSTONE (tr) - wh-gy-brn, vf, sbang, tt, tr w/brn o stn and blk asphalt, tr yel flor, tr g strmg cut.
5,370 - 5,380	SHALE - gy, dk rd, blky, n fis, xln texture in pt, calc.
5,380 - 5,390	SHALE - gen a/a, sme bentonitic.
5,390 - 5,400	SHALE - pred gy-gygn, frm, sbfis, sl platy, calc, sme slty.

LITHOLOGY (Cont.)

5,400 - 5,410	SHALE - dk rd, blky, also gy-gygn, sbfis, calc, n-mod slty.
5,410 - 5,420	SHALE - dom gy, a/a. SANDSTONE (tr) - vf-f, wh-brn, fri, sbang-sbrd, g srtng, v g Ø, calc, lt-m brn o stn, bri yel flor, v g strmg cut.
5,420 - 5,430	SANDSTONE - wh-occ col, vf-cse, w-v p srtd, gen vf-f, slty w/g-exc Ø, n-m brn o stn, bri yel flor (5%), exc bri greenyel flash-streaming cut. SHALE - pred gy, also rd-brn, gen a/a.
5,430 - 5,440	SANDSTONE - gen a/a, incr wh calc matrix, decr Ø, dull-bri yel flor, f-exc cut. SHALE - v col, gen a/a, tr v limey.
5,440 - 5,450	SANDSTONE - gen a/a, poorer srtd, decr Ø, decr flor & stn. SHALE - v col, gen a/a.
5,450 - 5,460	SHALE - rd, gy, gngy, blky-sbfis, sl-v slty, calc.
5,460 - 5,470	SHALE - v col, gen a/a.
5,470 - 5,480	SANDSTONE - wh-brn, (tr), vf-m, sbang-rd, fri-tt, tr w/ m brn o stn, bri yel flor, g strmg cut. SHALE - v col, gen a/a.
5,480 - 5,490	SHALE - incr gy, fis, n slty, sl calc.
5,490 - 5,500	SHALE - gy, gngy, blky-fis, sl-mod calc, sl slty, tr bent.
5,500 - 5,510	SHALE - gy, gngy, gen a/a.
5,510 - 5,520	SHALE - gy, gngy, gen a/a.
5,520 - 5,530	SHALE - dk rd, frm, blky, calc, n slty, also gy-gngy gen a/a.
5,530 - 5,540	SHALE - v col, gen a/a.
5,540 - 5,550	SHALE - v col, gen a/a.
5,550 - 5,560	SANDSTONE - wh, vf, fri, sbang, mod-v slty, w srtd, calc, NSOFC. SHALE - gen a/a.
5,560 - 5,570	SHALE - gy, gngy, frm, blky-platy, n-mod slty.

LITHOLOGY (Cont.)

5,570 - 5,580 SANDSTONE - wh, vf-f, w srtd, sbang-sbrd, n stn, n flor.
SHALE - gen a/a.

5,580 - 5,610 SHALE - v col, gen a/a.

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 NO. 11

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

Contractor MGF Drilling Company Address P.O. Box 940, Mills, WY 82644 - 307-234-7389

Location NW ¼ NE ¼ Sec. 10 T. 7 N (S) R. 23 E (W) Uintah County, Utah

Water Sands:

Depth		Volume	Quality
From	To	Flow Rate or Head	Fresh or Salty

1. (During drilling operations no water flows were encountered. The drilling was
2. essentially water from surface to ± 2,042' and chemical/gel mud system from
3. ± 2,042' to T.D., with mud weights ranging from 8.9-9.2 ppg).
4.
5.

(Continue on reverse side if necessary)

Formation Tops:

Uintah at surface
Green River ± 2,825'

RECEIVED
MAR 25 1981
DIVISION OF
OIL, GAS & MINING

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.

Energy Reserves Group, Inc.
P.O. Box 3280
Casper, Wyoming 82602
Phone 307 265 7331

Energy Reserves Group

August 14, 1981

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

Re: Request for approval of Exception Well Location
Pearl Broadhurst Well No. 11
NW/NE Section 10, T7S-R23E
Uintah County, Utah

Gentlemen:

Please consider this letter as a request for an exception location under Rule C-3 of the General Rules and Regulations concerning the above referenced well.

This well was approved by the U.S.G.S. on January 6, 1981, and by the State of Utah on December 16, 1980 for drilling purposes.

The well was spudded on February 2, 1981, and was completed as a producing well June 2, 1981. When the well was originally staked it was necessary to place the well at its present location due to topographical conflicts. The well is located in the bottom of a narrow canyon or ravine with steeply sloping hills to the East and West. To construct a location at the legal location would have necessitated excessive environmental effects on this area.

Energy Reserves Group, Inc.'s lease in Section 10 covers the W-1/2 and the NW-1/4 NE-1/4. This well was drilled 427' from the East boundry of Energy Reserves Group, Inc.'s lease which is 73' short of being a standard location.

We have written certified letters to the offset operators as of this date informing them of the exception request.

If any additional information is required, please advise.

Very truly yours,

ENERGY RESERVES GROUP, INC.

William J. Fiant
Field Services Administrator

WJF/ef

RECEIVED
AUG 17 1981
DIVISION OF
OIL, GAS & MINING

STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

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

January 5, 1982

Energy Reserves, Inc.
Box 3280
Casper, Wyoming 82602

Re: See attached

Gentlemen:

Our records indicate that you have not filed the monthly drilling reports for the months indicated above on the subject wells.

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

Cari Furse

Cari Furse
Clerk Typist

Board/Charles R. Henderson, Chairman • John L. Bell • E. Steele McIntyre • Edward T. Beck
Robert R. Norman • Margaret R. Bird • Herm Olsen

an equal opportunity employer • please recycle paper

Well No. Broadhurst #18
Sec. 9, T. 7S, R. 23E
Uintah County, Utah
(July 1981- November 1981)

Well No. Broadhurst #19
Sec. 9, T. 7S, R. 23E
Uintah County, Utah
(October 1981- November 1981)

Well No. Broadhurst #20
Sec. 9, T. 7S, R. 23E
Uintah County, Utah
(October 1981- November 1981)

Well No. Broadhurst #11
Sec. 10, T. 7S, R. 23E
Uintah County, Utah
(May 1981- November 1981)

Form 9-330
(Rev. 5-63)

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 [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] 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 713' FNL & 1,747' FEL (NW/NE)
At top prod. interval reported below
At total depth

RECEIVED JAN 14 1982 DIVISION OF OIL, GAS & MINING

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.: 11
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.: 43-047-30843 DATE ISSUED: 12-16-80
12. COUNTY OR PARISH: Uintah
13. STATE: Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
2-28-81	3-17-81	5-28-81	5,191' G.L. - 5,204' K.B.	----------

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5,610' K.B.	5,551' K.B.	NA	→	0-TD	----------

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
5,248'-5,306' "J" zone Green River
5,363'-5,367' "K" zone Green River

25. WAS DIRECTIONAL SURVEY MADE: NO

26. TYPE ELECTRIC AND OTHER LOGS RUN: Dual Induction, Compensated Densilog/Neutron & Compensated Acoustilog

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" OD	24#	508'	12-1/4"	380 sx "G" w/2% $CaCl_2$ & 1/4# Flocele/sx	-0-
5-1/2" OD	14#	5,597'	7-7/8"	400 sx "G" + additives & 350 sx "Self-Stress" + additives	-0-

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
		None		

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	5,249' K.B.	No

31. PERFORATION RECORD (Interval, size and number)
5,363'-67'
5,305'-06'
5,297'-00'
5,271'-72'
5,248'
w/1 JSPF (14 perfs)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5,248'-5,367'	BD w/1000 gal 7-1/2% HCl + additives & ball sealers.
	See back of page

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
5-28-81	Pumping - 2-1/2" x 1-3/4" x 14' Rod Pump	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
6-2-81	24	-----	→	140	NA	125	NA

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
----	------	→	140	NA	125	± 29°

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): VENTED DURING TEST

TEST WITNESSED BY: RAY RADKE

35. LIST OF ATTACHMENTS: SAMPLE DESCRIPTION ATTACHED

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

SIGNED R. Wagner TITLE Production Engineer - RMD DATE 6-16-81

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.
Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.
Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.
Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.
Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
No DST's were ran.			See Attached Cont'd from front of page: Fracture - Frac'd perfs 5,248'-5,367' w/ 10,000 gals "Super E" pad, 33,000 gal "Super E" fluid plus additives w/55,000# 20-40 sand & 24,000# 10-20 sand.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
LOG TOPS		
Uintah	Surface	
Green River	2,824'	
"G" zone	4,397'	
"H" zone	4,644'	
"I" zone	4,876'	
"J" zone	5,163'	
"K" zone	5,328'	
T.D. Logger	5,606'	
T.D. Driller	5,610'	

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636

Form 3160-5
(November 1983)
(Formerly 9-331)

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.)

RECEIVED
JUN 03 1985
DIVISION OF OIL GAS & MINING

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

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.:

10. FIELD AND POOL, OR WILDCAT: Walker Hollow Field

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 9 T1S-R1E

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

14. PERMIT NO.:

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	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other) Consolidate Tank Batteries	X						

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

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

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

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

SIGNED Bobby Patrick TITLE Petroleum Engineer DATE 5-31-85

Bobby Patrick

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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

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

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

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

RECEIVED
OCT 24 1985
DIVISION OF OIL
GAS & MINING

BHP Petroleum (Americas) Inc

September 17, 1985

Pearl Broadhurst #11
T5. 23E. 10

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

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

Gentlemen:

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

Affected leases and numbers are as follows:

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

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

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

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

Thank you for your assistance.

BHP Petroleum (Americas) Inc.

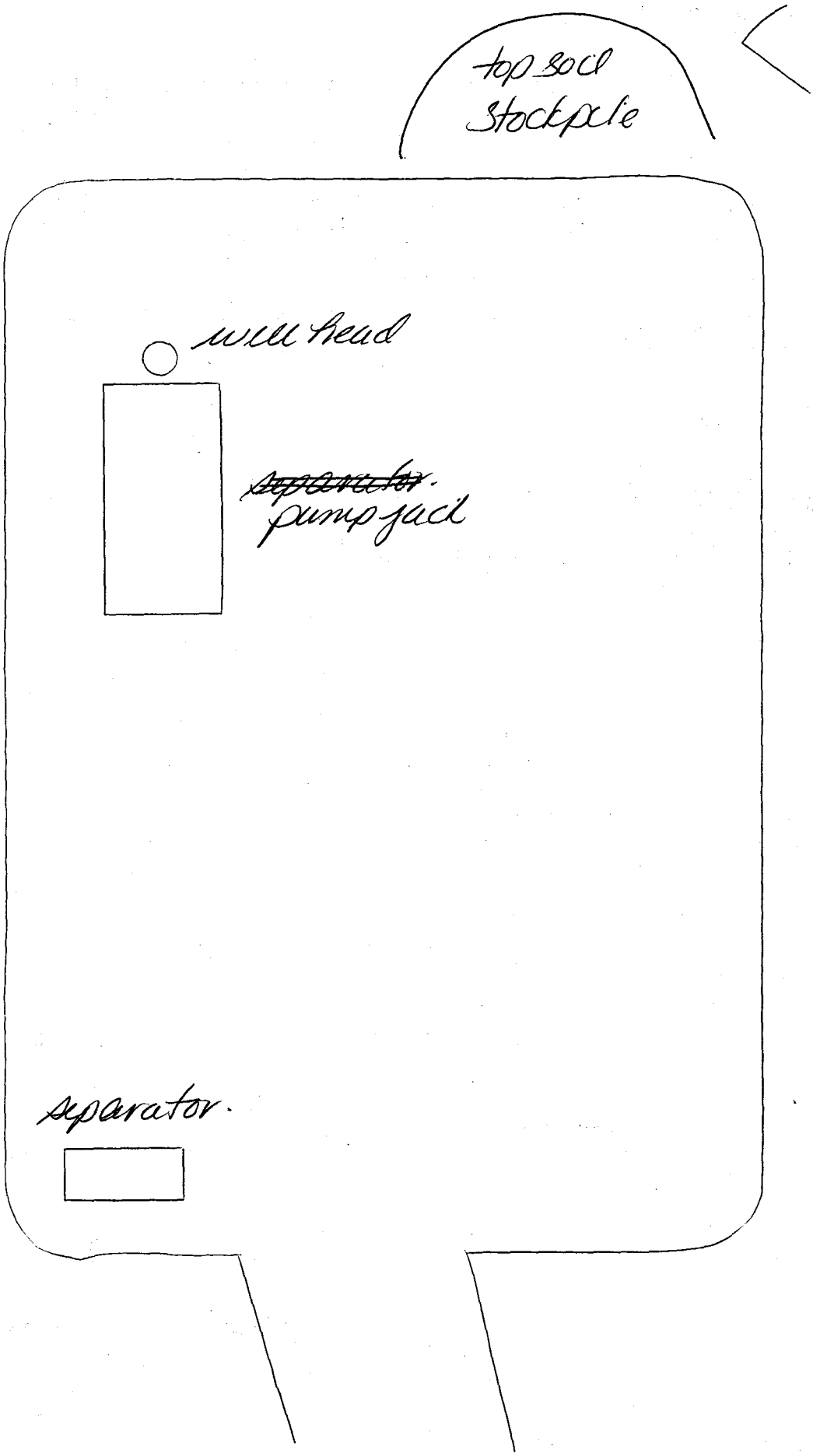
Dale Belden
District Clerk
Rocky Mountain District

DB/mz

Enclosure

OCT 25 1985

Pearl Broad Hurst #[illegible] | Sec 10, 7So, 23E | [illegible] 9/28/88



42-381 50 SHEETS 5 SQUARE
42-382 100 SHEETS 5 SQUARE
42-389 200 SHEETS 5 SQUARE
Made in U.S.A.
NATIONAL

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number: U02651-A

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name:

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.

7. Unit Agreement Name:

1. Type of Well: OIL [X] GAS [ ] OTHER:

8. Well Name and Number: NO. 11 U.S.A. PEARL BROADHURST

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

9. API Well Number: 43-047-30840

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

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

4. Location of Well

Footages: 713' FNL & 1747' FEL

County: UINTAH

QQ, Sec., T., R., M.: NW/NE SEC. 10, T7S, R23E

State: UTAH

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
- [X] 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 0 1 1993
DIVISION OF
OIL GAS & MINING

13.

Name & Signature: Jerry Lowery Title: OPERATIONS SUPT. Date: 2-22-93

(This space for State use only)

(12/92) (See Instructions on Reverse Side)

GENERAL
ATLANTIC

RESOURCES, INC.

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

June 14, 1993

RECEIVED
JUN 17 1993
DIVISION OF
OIL GAS & MINING

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

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

GENERAL ATLANTIC RESOURCES, INC. • 410 BUILDING • 410 17TH STREET, SUITE 1400 • DENVER, CO 80202
TELEPHONE (303) 573-5100

FORM 9

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:

1. OIL WELL ☐ GAS WELL ☐ OTHER

7. UNIT AGREEMENT NAME: SEE BELOW

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

8. FARM OR LEASE NAME:

3. ADDRESS OF OPERATOR: 5847 San Felipe, Suite 3600, Houston, Texas 77057

9. WELL NO.: SEE ATTACHED

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:

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			X

(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

RECEIVED
JUN 17 1993
DIVISION OF OIL GAS & MINING

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

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

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

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

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side

(3/89)

LEASE	WELL#	API NUMBER
USA Pearl Broadhurst	1 — Sec 9 T7S R23E	43-047-15692
" " "	2 — 10	43-047-15693
" " "	4 — 9	43-047-15694
" " "	5 — 10	43-047-15695
" " "	6 — 9	43-047-30705
" " "	7 — 9	43-047-30730
" " "	8 — 10	43-047-30696
" " "	9 — 10	43-047-30787
" " "	10 — 9	43-047-30839
" " "	11 — 11	43-047-30840
" " "	12 — 10	43-047-30841
" " "	13 — 9	43-047-30842
" " "	14 — 9	43-047-30904
" " "	15 — 9	43-047-30901
" " "	16 — 10	43-047-30903
" " "	17 — 10	43-047-30905
" " "	18 — 9	43-047-30939
" " "	19 — 9	43-047-30940
" " "	20 — 9	43-047-30941
" " "	21 — 9	43-047-30942
" " "	22 — 10	43-047-31025
USA Pan American	1 Sec 23 T5S R22E	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

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

RECEIVED
SEP 20 1993
DIVISION OF
OIL, GAS & MINING

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

6. If Indian, Allottee or Tribe Name:

7. If Unit or CA, Agreement Designation:

1. Type of Well: [XX] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.: Pearl Broadhurst (see attached exhibit)

2. Name of Operator: General Atlantic Resources, Inc.

9. API Well No.: 43-047-30840 (see att. exhibit A)

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

10. Field and Pool, or Exploratory Area:

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

11. County or Parish, State: Uintah County, Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[XX] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[XX] Other change of operator	[ ] 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 CO1023. 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. [illegible]
GEOL.
S.S.
PET.
A.M.
AUG 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 by [signature] Title ASSISTANT DISTRICT MANAGER MINERALS Date SEP 10 1993

Conditions of approval, if any:

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

*See Instruction on Reverse Side

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

(PAGE 2 OF 3)

Routing:

1-LEC/GIL
2-DTS/7-SJ
3-VLC 8-FILE
4-RJF
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.

XX 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) GENERAL ATLANTIC RES INC
(address) 410 17TH ST #1400
DENVER, CO 80202
LYNN BECKER, LANDMAN
phone (303) 573-5100
account no. N0910

FROM (former operator) BHP PETROLEUM/AMERICAS INC
(address) 5847 SAN FELIPE #3600
HOUSTON, TX 77057
CARL KOLBE (713)780-5301
phone (713)780-5245
account no. N0390

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

Name: BROADHURST #9/GRRV	API: 43-047-30787	Entity: 225	Sec 10	Twp 7S	Rng 23E	Lease Type: U02651A
Name: PEARL BH #10/GRRV	API: 43-047-30839	Entity: 225	Sec 9	Twp 7S	Rng 23E	Lease Type: "
Name: PEARL BH #11/GRRV	API: 43-047-30840	Entity: 225	Sec 10	Twp 7S	Rng 23E	Lease Type: "
Name: PEARL BH #12/GRRV	API: 43-047-30841	Entity: 225	Sec 10	Twp 7S	Rng 23E	Lease Type: "
Name: PEARL BH #13/GRRV	API: 43-047-30842	Entity: 225	Sec 9	Twp 7S	Rng 23E	Lease Type: "
Name: BROADHURST #14/GRRV	API: 43-047-30904	Entity: 225	Sec 9	Twp 7S	Rng 23E	Lease Type: "
Name: BROADHURST #15/GRRV	API: 43-047-30901	Entity: 225	Sec 9	Twp 7S	Rng 23E	Lease Type: "

Cont.

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 6-17-93)

Yes 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)

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: #92898.

Yes 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. (9-28-93)

Yes 6. Cardex file has been updated for each well listed above. (9-28-93)

Yes 7. Well file labels have been updated for each well listed above. (9-28-93)

Yes 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)

Yes 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.

PERATOR CHANGE WORKSHEET (CONTINUED) In[illegible]al each item when completed. Write N/[illegible]f item is not applicable.

ENTITY REVIEW

Lec 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)

Lec/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.

9/29/93 DTS

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

Lec 1. Copies of all attachments to this form have been filed in each well file.

Lec 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

930920 Bfm / Vernal Approved 9-10-93. (Lease UTU02651-A Only) Other leases/wells will be handled on separate change.

FORM 10

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

COMMENTS:

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

Name and Signature: Telephone Number:

(12/93)

UMC Petroleum Corporation

RECEIVED
JAN 5 1995
DIV OF OIL, GAS & MINING

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}

410 Building 410 17th Street, Suite 1400 Denver, Colorado 80202 (303) 573-5100
A Subsidiary of United Meridian Corporation

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

RECEIVED
JAN 25 1995
OIL, GAS & MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION & SERIAL NO.: UTU02651A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL [X] GAS WELL [ ] OTHER

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: UMC Petroleum Corporation

8. FARM OR LEASE NAME: USA Pearl Broadhurst

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

9. WELL NO.: (see attached exhibit A)

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface: (see attached exhibit A)
At proposed prod. zone: Sections 9 and 10, T7S, R23E

10. FIELD AND POOL, OR WILDCAT: Green River

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 9 & 10, T7S, R23E

14. API NO.: (see att. exhibit A)

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

12. COUNTY: Uintah

13. STATE: UT

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Change of Operator			XXX
(Other)				(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.)

* Must be accompanied by a cement verification report.

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

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

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

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

SIGNED April J.M. Lahnum TITLE 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

(3/89)

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
WALKER HOLLOW Field												
PEARL BROADHURST #1	PEARL1	UT-017-01-001	00225	43-047-15692-00	UTU02651A	GREEN RIVER	NESE	9	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #10	PEARL10	UT-017-01-009	00225	43-047-30839-00	UTU02651A	GREEN RIVER	NWSW	9	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #11	PEARL11	UT-017-01-010	00225	43-047-30840-00	UTU02651A	GREEN RIVER	NWNE	10	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #12	PEARL12	UT-017-01-011	00225	43-047-30841-00	UTU02651A	GREEN RIVER	NWNW	10	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #13	PEARL13	UT-017-01-012	00225	43-047-30842-00	UTU02651A	GREEN RIVER	NENE	9	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #14	PEARL14	UT-017-01-013	00225	43-047-30904-00	UTU02651A	GREEN RIVER	SENE	9	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #15	PEARL15	UT-017-01-014	00225	43-047-30901-00	UTU02651A	GREEN RIVER	SESE	9	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #16	PEARL16	UT-017-01-015	00225	43-047-30903-00	UTU02651A	GREEN RIVER	NWSW	10	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #17	PEARL17	UT-017-01-016	00225	43-047-30905-00	UTU02651A	GREEN RIVER	SENW	10	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #18	PEARL18	UT-017-01-017	00225	43-047-30939-00	UTU02651A	GREEN RIVER	NWNE	9	7S	23E	UINTAH	GARI-BHP
PEARL BROADHURST #19	PEARL19	UT-017-01-018	00225	43-047-30940-00	UTU02651A	GREEN RIVER	NWNE	9	7S	23E	UINTAH	GARI-BHP
✓ PEARL BROADHURST #2 (W/W)	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 (W/W)	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

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

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

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

Edward J. Freel, Secretary of State

AUTHENTICATION: 7306080

DATE: 11-17-94

2257442 8100M

944221473

STATE OF DELAWARE
SECRETARY OF STATE
DIVISION OF CORPORATIONS
FILED 11:10 AM 11/15/1994
944219417 - 2257442

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: John B. Brock
Title: President and Chief Executive Officer

Attest:

By: _____
Name: Marya Ingram
Title: Corporate Secretary

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)

RECEIVED
APR - 5 1995
DIV OF OIL, GAS & MINING

MAR 2 4 1995

NOTICE

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

Merger Recognized

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

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

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

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

/s/ ROBERT LOPEZ

Chief, Branch of Mineral
Leasing Adjudication

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

DOGMT

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

RECEIVED
MAR 29 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)

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation
UTU02651A

8. Well Name and No.
Pearl Broadhurst

9. API Well No.
(see attachment)

10. Field and Pool, or Exploratory Area
Walker Hollow

11. County or Parish, State
Uintah, UT

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

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
	☐ Recompletion	☐ New Construction
☒ Subsequent Report	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
☐ Final Abandonment Notice	☐ Altering Casing	☐ Conversion to Injection
	☒ Other Change of Operator	☐ 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 Corporatior (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 reponsible for compliance under the lease terms and conditions for that portion of the lease associated with this notice.

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

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

14. I hereby certify that the foregoing is true and correct
Signed April J.M. Lahnum Title Production Technician Date March 15, 1995

(This space for Federal or State office use)
NOTED
Approved by _____ Title _____ Date APR 06 1995
Conditions of approval, if any:

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

Utah Production

	State I.D.#	API Number	Lease Name/Number	Formation	Qtr/Qtr	Sec.	Twp.	Rge	County
WALKER HOLLOW Field									
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-~~LEC~~	GIL
2-~~LWP~~	7-SJ
3-~~DTS~~	8-PL
4-VLC	9-FILE
5-RJF	
6-LWP	

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

XX 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) UMC PETROLEUM CORPORATION
(address) 410 17TH ST STE 1400
DENVER CO 80202
APRIL LAHNUM (915)683-3003
phone (303) 573-5100
account no. N9215

FROM (former operator) GENERAL ATLANTIC RES INC
(address) 410 17TH ST STE 1400
DENVER CO 80202
APRIL LAHNUM
phone (303) 573-5100
account no. N0910

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

Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
SEE ATTACHED	43-047-30840					

OPERATOR CHANGE DOCUMENTATION

Lec 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)

Lec 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)

Lec 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) ____ If yes, show company file number: #152682. (eff. 6/91)

Lec 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.

Lec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (4-6-95)

LWP 6. Cardex file has been updated for each well listed above. 4-18-95

LWP 7. Well file labels have been updated for each well listed above. 4-18-95

Lec 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)

Lec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

OVER

OPERATOR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A if item is not applicable.

ENTITY REVIEW

Yes 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/Yes 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.

DTS 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. UIC F5 (2) wells.

9502 Trust Lands Admin. "accepted merger".

950324 B&m/SL Aprv. eff. 11-15-94.

WE71/34-35

FORM 10

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

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

UTAH ACCOUNT NUMBER: N9215

REPORT PERIOD (MONTH/YEAR): 6 / 98

AMENDED REPORT ☐ **(Highlight Changes)**

Well Name API Number Entity Location	Producing Zone	Well Status	Days Oper	Production Volumes OIL(BBL)	GAS(MCF)	WATER(BBL)
USA PEARL BROADHURST #1 4304715692 00225 07S 23E 9	GRRV			U-02651-A		
USA PEARL BROADHURST #4 4304715694 00225 07S 23E 9	GRRV			U-02651-A		
BROADHURST #8 4304730696 00225 07S 23E 10	GRRV			"		
BROADHURST #6 4304730705 00225 07S 23E 9	GRRV			"		
BROADHURST #7 4304730730 00225 07S 23E 9	GRRV			"		
BROADHURST #9 4304730787 00225 07S 23E 10	GRRV			U-02651		
ARL 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			

OMMENTS:

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

ame and Signature: Telephone Number:

12/93)

FORM=NR0001.FRM 05/09/96

FORM 10

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

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

UTAH ACCOUNT NUMBER: N9215

REPORT PERIOD (MONTH/YEAR): 6 / 98

AMENDED REPORT ☐ **(Highlight Changes)**

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

OMMENTS:

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

ame and Signature: Telephone Number:

12/93)

FORM=NB0001.FRM 05/09/96

United States Department of the Interior

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

RECEIVED
JUL 23 1998
DIV. OF OIL, GAS & MINING

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

JUL 21 1998

NOTICE

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

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

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

Routing:	
1-LEC	6-LEC KR
2-GLH	7-KAS
3-DTS	8-SI
4-VLD CDW	9-FILE
5-JRB	

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

XXX Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator XXX Operator Name Change Only

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

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

WELL(S) attach additional page if needed:

Name:	API:	Entity:	S	T	R	Lease:
SEE ATTACHED	43-047-30840					

OPERATOR CHANGE DOCUMENTATION

Lec 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form). (Rec'd 9-3-98)

Lec 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). (Rec'd 9-3-98)

Lec 3. The **Department of Commerce** has been contacted if the new operator above is not currently operating any wells in Utah. Is the company **registered with the state?** (yes/no) ____ If yes, show company file number: Co209299. (eff. 3-23-98)

Lec 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of **Federal** and **Indian** well operator changes should ordinarily take place prior to the division's approval, and before the completion of **steps 5 through 9** below.

Lec 5. Changes have been entered in the **Oil and Gas Information System** (3270) for each well listed above. (7-31-98) * UIC Quattro & DBASE

Chl 6. **Cardex** file has been updated for each well listed above. (8-3-98)

Chl 7. Well **file labels** have been updated for each well listed above. (8-3-98)

Lec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" **memo** for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. (7-31-98)

Lec 9. A folder has been set up for the **Operator Change file**, and a copy of this page has been placed there for reference during routing and processing of the original documents.

\dons\wpdocs\forms\operchng

- OVER -

OPERATOR CHANGE WORKSHEET (continued) - Initial each item when completed. Write N/A if item is not applicable.

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

VB 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

_____

_____

_____

_____

_____

_____

_____

Ocean Energy

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

RECEIVED
SEP 3 1998
DIV OF OIL, GAS & MINING

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

Fox 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.

RECEIVED
SEP 3 1998
DIV OF OIL, GAS & MINING

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

Fox McKeithen

CGR

Secretary of State

STATE OF LOUISIANA
UNION JUSTICE CONFIDENCE
SECRETARY OF STATE

CERTIFICATE SS 102 S (R-3/88)

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

KINLOCH GILL III
NOTARY PUBLIC
State of Texas
Comm. Exp. 09-19-2000

Notary Public in and for
the State of Texas

State of Delaware

Office of the Secretary of State

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

"UMC PETROLEUM CORPORATION", A DELAWARE CORPORATION,

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

Edward J. Freel, Secretary of State

2257442 8100M

981130659

AUTHENTICATION: 9012828

DATE: 04-06-98

STATE OF DELAWARE
SECRETARY OF STATE
DIVISION OF CORPORATIONS
FILED 12:22 PM 03/27/1998
981119273 - 2257442

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

Form 3160-5
(November 1994)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996

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

5. Lease Serial No.
U02651A

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other **Field fuel line tie-in**

8. Well Name and No.
USA Pearl Broadhurst - Various

2. Name of Operator
CITATION OIL & GAS CORP.

9. API Well No.
43-047-30840

3a. Address
8223 Willow Pl. S., #250, Houston, TX 77070-5623

3b. Phone No. *(include area code)*
(281) 469-9664

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

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
NE Sec. 10, T7S, R23E

11. County or Parish, State
Uintah County, Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other **Lay line for field fuel to Walker Hollow #62 tie-in point**
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ 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 Oil & Gas Corp. requests approval to lay approximately 1100' of 2" Schedule 40 welded steel pipe from the Walker Hollow Unit well #62 to a point approximately 1200' SW of the Broadhurst #11 well. This line will be utilized to provide a reliable source of field fuel for the Broadhurst lease. Gas sold from the Walker Hollow Unit to the Broadhurst lease will be metered at a tie-in point on the Walker Hollow Unit #62 location at 2193' FNL & 1911' FEL, Sec. 10, T7S, R23E. A 2" meter run will be installed, charts will be i ntegrated monthly and the meter will be calibrated quarterly. The fuel gas line will be laid on the surface.

RECEIVED
JAN 28 1999
DIV. OF OIL, GAS & MINING

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

Name *(Printed/Typed)*
Debra Harris

Title
Regulatory Analyst

Signature
Debra Harris

Date
1/25/99

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

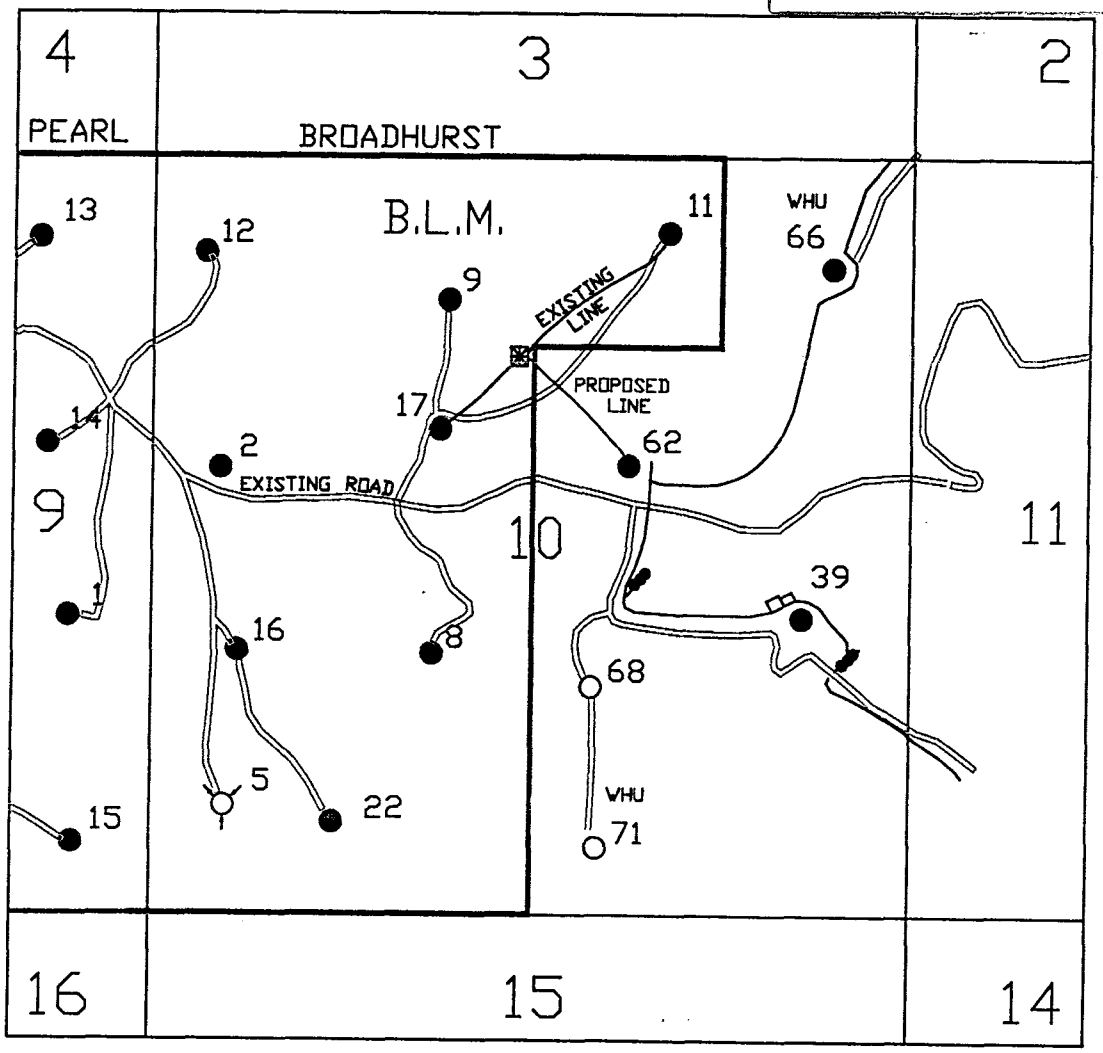
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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

(Instructions on reverse)

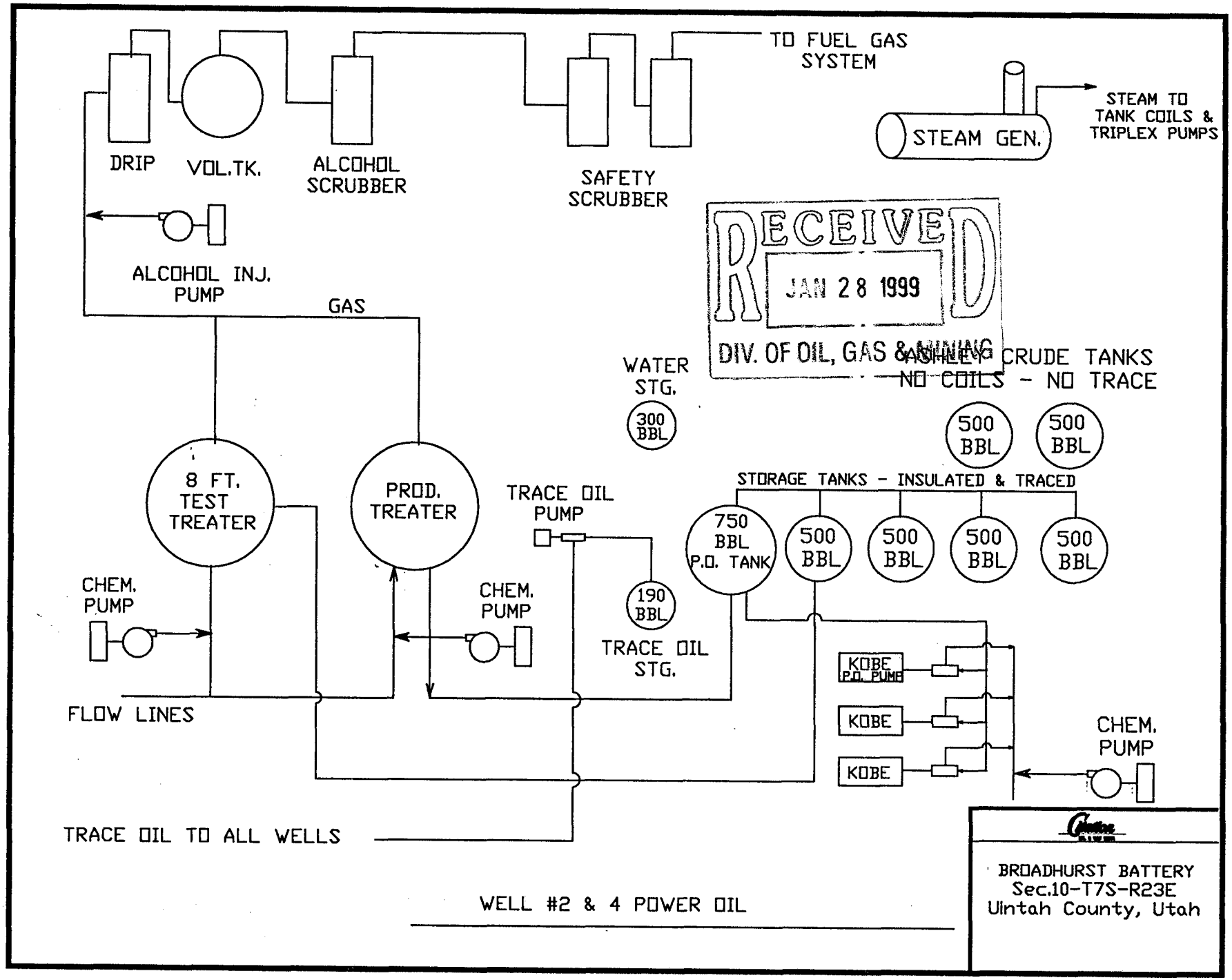
RECEIVED
JAN 28 1999
DIV. OF OIL, GAS & MINING



Plan: Lay ±1100' 2" Schedule 40 welded steel pipe from WHU 62 to a point ±1200' SW of Broadhurst 11. Line will be utilized to provide reliable source of field fuel for Broadhurst lease. Gas sold from WHU to Broadhurst will be metered at tie-in point on location of WHU 62. A 2" meter run will be installed, charts integrated monthly and the meter calibrated quarterly. The gas line will be laid on the surface.

Chaparral OIL & GAS CORP.

Sec.10-T7S-R23E
Uintah County, Utah



RECEIVED
JAN 28 1999
DIV. OF OIL, GAS & MINING

FORM 10

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

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 API Number Entity Location	Producing Zone	Well Status	Days Oper	Production Volumes OIL(BBL)	GAS(MCF)	WATER(BBL)
USA PEARL BROADHURST 1 4304715692 00225 07S 23E 9	GRRV			U-02651-A		
USA PEARL BROADHURST 4 4304715694 00225 07S 23E 9	GRRV			U-02651-A	* per Sundry, WIW	
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			

COMMENTS:

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

Name and Signature: Telephone Number:

(12/93)

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

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

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

1. OIL WELL [XX] GAS WELL [ ] OTHER

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR
Ocean Energy Resources, Inc.

8. FARM OR LEASE NAME
USA Pearl Broadhurst

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

9. WELL NO.
11

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface 713' FNL & 1747' FEL NW NE
At proposed prod. zone

10. FIELD AND POOL, OR WILDCAT
Walker Hollow Field

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

14. API NO. 43-047-30840

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

12. COUNTY Uintah

13. STATE UT

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			[XX]

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

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

RECEIVED
JAN 13 1999
DIV. OF OIL, GAS & MINING

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

SIGNED [signature] TITLE Regulatory Coordintor DATE 1/6/99

(This space for Federal or State office use)

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

See Instructions On Reverse Side

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

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

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

1. OIL WELL [X] GAS WELL [ ] OTHER

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR
Citation Oil & Gas Corp.

8. FARM OR LEASE NAME
USA Pearl Broadhurst

3. ADDRESS OF OPERATOR
8223 Willow Place South, Suite 250, Houston, TX 77070-5623

9. WELL NO.
11

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
713' FNL & 1747' FEL NW NE
At proposed prod. zone

10. FIELD AND POOL, OR WILDCAT
Walker Hollow Field

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

14. API NO.
43-047-30840

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

12. COUNTY
Uintah

13. STATE
UT

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			[XX]

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

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

RECEIVED
JAN 14 1999
DIV. OF OIL, GAS & MINING

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

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

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Vernal Field Office

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

IN REPLY REFER TO:

3160
UT08300

February 17, 1999

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

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

Dear Ms. Ward:

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

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

Sincerely,

Howard B. Cleavinger II
Assistant Field Manager for

Minerals Resources

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

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

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

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

Routing:	
1-KDR ✓	6-KAS ✓
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
(address) 8223 WILLOW PL. SOUTH STE 250
HOUSTON, TX 77070-5623

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

FROM: (old operator) OCEAN ENERGY RESOURCES INC
(address) 410 17TH STREET STE 1400
DENVER, CO 80202

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

WELL(S) attach additional page if needed:

Name:	API:	Entity:	S	T	R	Lease:
SEE ATTACHED	43-047-30840					

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: _____.

KDR 4. **FOR INDIAN AND FEDERAL WELLS ONLY**. The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of **Federal** and **Indian** well operator changes should ordinarily take place prior to the division's approval, and before the completion of **steps 5 through 9** below. (Rec'd 6-1-99)

KDR 5. Changes have been entered in the **Oil and Gas Information System** (3270) for each well listed above. (6-10-99)

KDR 6. **Cardex** file has been updated for each well listed above.

KDR 7. Well **file labels** have been updated for each well listed above. (*new filing system)

KDR 8. Changes have been included on the monthly "Operator, Address, and Account Changes" **memo** for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. 6-10-99

KDR 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.

\dons\wpdocs\forms\operchng

- OVER -

OPERATOR CHANGE WORKSHEET (continued) - Initial each item when completed. Write N/A if item is not applicable.

ENTITY REVIEW

LDR 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.

LDR 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been **notified** through normal procedures of entity changes.

BOND VERIFICATION - (FEE WELLS ONLY)

N/A 1. (r649-3-1) The **NEW** operator of any fee lease well listed above has furnished a proper bond.

__ 2. A **copy of this form** has been placed in the new and former operator's bond files.

__ 3. The **FORMER** operator has requested a release of liability from their bond (yes/no) ____, as of today's date _____. If yes, division response was made to this request by letter dated _____.

LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

N/A 1. Copies of documents have been sent on _____ to _____ at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.

__ 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated _____ 19 __, of their responsibility to notify all interest owners of this change.

FILMING

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

990519 left message w/ Marjie (BLM) regarding approval? 990601 Rec'd e-mail ~~approval~~ approval from Marjie (BLM)

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number: **U-02651-A**

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name:

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.

7. Unit Agreement Name:

1. Type of Well: OIL ☒ GAS ☐ OTHER:

8. Well Name and Number: **USA Pearl Broadhurst # 11**

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

9. API Well Number: **43-047-30840**

3. Address and Telephone Number: **8223 Willow Place South, Suite 250, Houston, Texas 77070-5623 (281) 469-9664**

10. Field and Pool, or Wildcat: **Walker Hollow**

4. Location of Well

Footages: **713 FNL & 1747 FEL** County: **Uintah**

QQ, Sec., T., R., M.: **NW NE Sec. 10-7S-23E** State: **UT**

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)	
☐ Abandonment	☐ New Construction	☐ Abandonment*	☐ New Construction
☐ Casing Repair	☐ Pull or Alter Casing	☐ Casing Repair	☐ Pull or Alter Casing
☐ Change of Plans	☐ Recompletion	☐ Change of Plans	☐ Shoot or Acidize
☐ Conversion to Injection	☐ Shoot or Acidize	☐ Conversion to Injection	☐ Vent or Flare
☐ Fracture Treat	☐ Vent or Flare	☐ Fracture Treat	☐ Water Shut-Off
☐ Multiple Completion	☐ Water Shut-Off	☐ Other	
☒ Other **TA well**			
Approximate date work will start **10-4-00**		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. proposes to temporarily abandon the above well with the attached procedure.

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13. Name & Signature: Sharon Ward **Sharon Ward** Title: **Regulatory Administrator** Date: **10/4/00**

(This space for State use only)

The well has been nonactive or nonproductive for 8.25 years. In accordance with R649-3-36, either the well shall be plugged or good cause shall be demonstrated to the Division as to why the well should not be plugged.

NOT APPROVED BY: RJK **October 11, 2000**

COPY SENT TO OPERATOR
Date: 10-19-00
Initials: CHD

PROPOSED TA PROCEDURE
PEARL BROADHURST #11
UINTAH COUNTY, UTAH
(October 4, 2000)

OBJECTIVE:

Temporarily abandon wellbore for regulatory compliance.

Perforated intervals:
Green River "J": 5248'-5306'.
Green River "K": 5363'-5367'.
Last recorded fluid level 9/13/00: 1250' from surface.

PROPOSED PROCEDURE:

1. MIRU Workover rig and pump.
2. Bleed well down. ND tree, NU BOPE.
3. TOH w/ 2-$^{7}/_{8}$" tubing. PU 5-$^{1}/_{2}$" Baker "EA" Retrievamatic packer and RIH to 5225'. Set and pressure test casing to 1000 psi. TOH.
4. Rig up fishing assembly and RIH on 2-$^{7}/_{8}$" tubing. Attempt to spear into 3-$^{1}/_{2}$" 12.95# FL4S liner and jar liner free. TOH with tubing and liner. Lay down liner.
5. Pick up 5-$^{1}/_{2}$" CICR and RIH on 2-$^{7}/_{8}$" tubing. Set CICR at ± 5200'. Sting out of liner and lay down 1 jnt tubing.
6. ND BOP. NU tree.
7. RDMO Workover unit. Clean up location.

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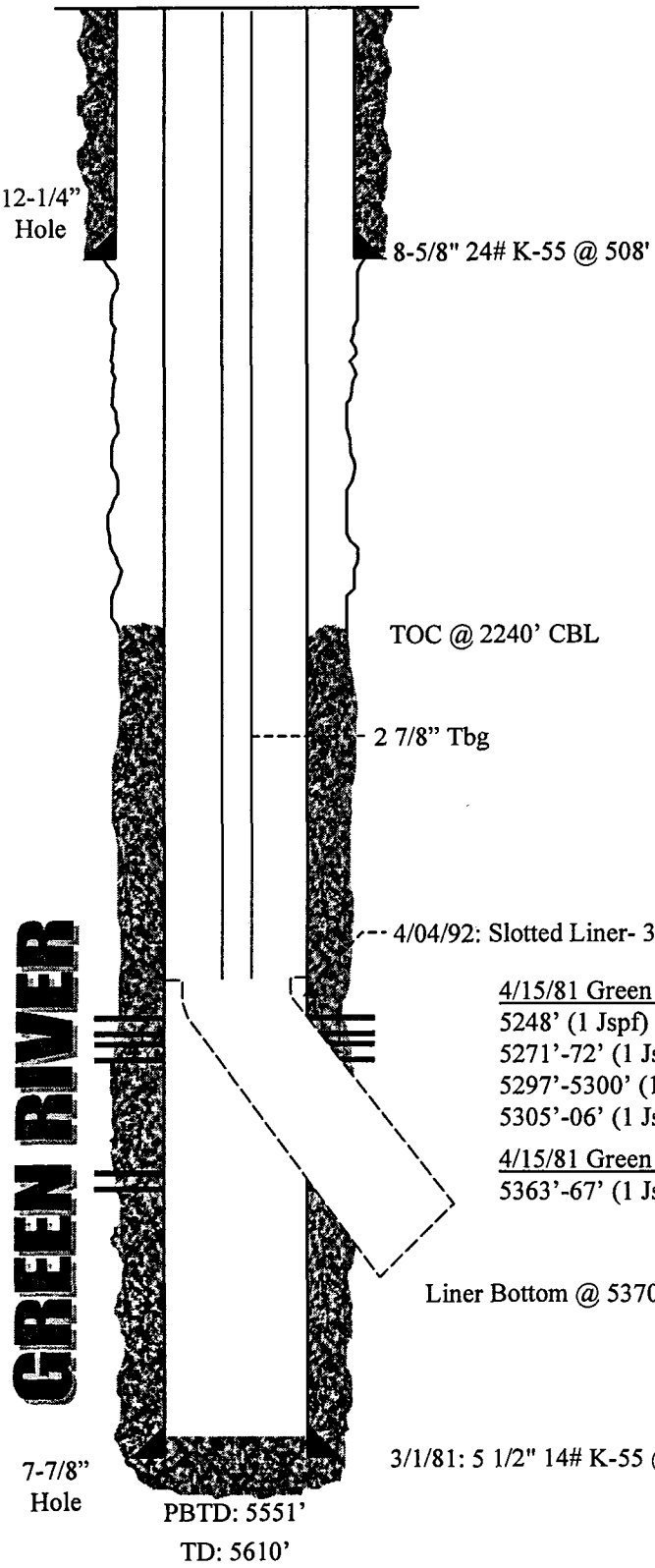
CITATION OIL & GAS CORP.
WALKER HOLLOW PEARL BROADHURST #11
(NW/NE) Sec. 10-T7S-R23E
UINTAH CO., UTAH

API:

KB: 13 FT
GL: 5191 FT
Status: Shut in-TA



TUBING DETAIL			
Qty	Description	Length	Depth
-----	KB	13	13
1	2 7/8", 6/5ppf, J-55, 8rd, EUE ctd	31.18	44.18
1	2 7/8", 6/5ppf, J-55, 8rd, EUE ctd pup	6.18	50.36
1	2 7/8", 6/5ppf, J-55, 8rd, EUE ctd pup	10.01	60.37
166	2 7/8", 6/5ppf, J-55, 8rd, EUE ctd	5135.48	5195.85
1	2 7/8" X 5 1/2" TAC	2.75	5198.6
1	2 7/8" SN	1.08	5199.68
1	2 7/8", 6/5ppf, J-55, 8rd, EUE ctd	31.11	5230.79
1	2 7/8" notched collar	0.4	5231.19

CASING DETAIL			
Size	Weight	Grade	Depth
8-5/8"	24	K-55	0-508
5-1/2"	14	K-55	0-5597
3-1/2"	12.95	FL4S	5234-5370

<u>4/15/81 Green River "J"</u>
5248' (1 Jspf)
5271'-72' (1 Jspf)
5297'-5300' (1 Jspf)
5305'-06' (1 Jspf)

<u>4/15/81 Green River "K"</u>
5363'-67' (1 Jspf)

<u>4/17/81 Stimulation</u>:
Broke perfs w/ 1000 gal 7.5% HCL
<u>4/19/81 Frac(both zones)</u>:
10,000 gal Super-E pad
30,000 gal Super-E fluid
55,000 # 20-40 sand
24,000 # 10-20 sand

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All depths KB unless noted.
Updated: 9-12-00 MW

OIL & GAS PRODUCTION DATA

API	ZONE	ACCOUNT	ENTITY	MONTH	YEAR	DAYS	OIL PROD	GAS PROD	WATER PROD	RECD DATE
4304730840	GRRV	N0390	225	1	1984	31	1,902	1,888	1,360	
4304730840	GRRV	N0390	225	2	1984	28	1,556	1,736	1,457	
4304730840	GRRV	N0390	225	3	1984	31	1,301	1,487	1,792	
4304730840	GRRV	N0390	225	4	1984	30	1,189	1,134	1,648	
4304730840	GRRV	N0390	225	5	1984	31	1,152	1,186	1,698	
4304730840	GRRV	N0390	225	6	1984	27	1,266	1,186	1,527	
4304730840	GRRV	N0390	225	7	1984	31	1,361	1,250	1,708	
4304730840	GRRV	N0390	225	8	1984	31	1,108	1,017	1,965	
4304730840	GRRV	N0390	225	9	1984	30	1,012	980	1,590	
4304730840	GRRV	N0390	225	10	1984	31	945	1,025	1,594	
4304730840	GRRV	N0390	225	11	1984	30	956	977	1,683	
4304730840	GRRV	N0390	225	12	1984	31	950	1,048	1,662	
4304730840	GRRV	N0390	225	1	1985	23	585	774	962	
4304730840	GRRV	N0390	225	2	1985	28	784	1,116	1,299	
4304730840	GRRV	N0390	225	3	1985	31	882	1,648	1,413	
4304730840	GRRV	N0390	225	4	1985	30	963	891	2,083	
4304730840	GRRV	N0390	225	5	1985	31	864	827	1,357	
4304730840	GRRV	N0390	225	6	1985	30	795	733	1,192	
4304730840	GRRV	N0390	225	7	1985	31	821	761	1,256	
4304730840	GRRV	N0390	225	8	1985	31	758	732	1,218	
4304730840	GRRV	N0390	225	9	1985	30	798	732	995	
4304730840	GRRV	N0390	225	10	1985	31	904	835	1,185	
4304730840	GRRV	N0390	225	11	1985	30	757	755	743	
4304730840	GRRV	N0390	225	12	1985	31	911	1,159	80	
4304730840	GRRV	N0390	225	1	1986	31	632	729	126	
4304730840	GRRV	N0390	225	2	1986	28	654	617	326	
4304730840	GRRV	N0390	225	3	1986	31	789	1,171	280	
4304730840	GRRV	N0390	225	4	1986	29	798	735	294	
4304730840	GRRV	N0390	225	5	1986	28	481	476	146	
4304730840	GRRV	N0390	225	6	1986	28	521	479	76	
4304730840	GRRV	N0390	225	7	1986	30	905	831	1,522	
4304730840	GRRV	N0390	225	8	1986	31	753	700	111	
4304730840	GRRV	N0390	225	9	1986	30	793	728	144	
4304730840	GRRV	N0390	225	10	1986	31	803	737	101	
4304730840	GRRV	N0390	225	11	1986	30	803	723	86	
4304730840	GRRV	N0390	225	12	1986	31	772	695	117	
4304730840	GRRV	N0390	225	1	1987	31	714	643	311	
4304730840	GRRV	N0390	225	2	1987	28	731	657	86	
4304730840	GRRV	N0390	225	3	1987	31	834	751	60	
4304730840	GRRV	N0390	225	4	1987	24	551	496	68	
4304730840	GRRV	N0390	225	5	1987	29	444	754	1,428	
4304730840	GRRV	N0390	225	6	1987	30	733	780	1,142	
4304730840	GRRV	N0390	225	7	1987	31	797	468	972	
4304730840	GRRV	N0390	225	8	1987	31	661	468	1,001	

OIL & GAS PRODUCTION DATA

API	ZONE	ACCOUNT	ENTITY	MONTH	YEAR	DAYS	OIL PROD	GAS PROD	WATER PROD	RECD DATE
4304730840	GRRV	N0390	225	9	1987	30	1,078	453	918	
4304730840	GRRV	N0390	225	10	1987	31	850	468	64	
4304730840	GRRV	N0390	225	11	1987	30	722	453	57	
4304730840	GRRV	N0390	225	12	1987	31	930	468	986	
4304730840	GRRV	N0390	225	1	1988	31	686	468	1,092	
4304730840	GRRV	N0390	225	2	1988	29	641	438	1,012	
4304730840	GRRV	N0390	225	3	1988	31	723	468	1,088	
4304730840	GRRV	N0390	225	4	1988	30	679	453	715	
4304730840	GRRV	N0390	225	5	1988	31	483	468	355	
4304730840	GRRV	N0390	225	6	1988	30	729	453	612	
4304730840	GRRV	N0390	225	7	1988	31	664	468	62	
4304730840	GRRV	N0390	225	8	1988	31	666	468	54	
4304730840	GRRV	N0390	225	9	1988	28	368	423	1,197	
4304730840	GRRV	N0390	225	10	1988	31	916	468	1,226	
4304730840	GRRV	N0390	225	11	1988	30	774	453	1,069	
4304730840	GRRV	N0390	225	12	1988	31	832	468	1,334	
4304730840	GRRV	N0390	225	1	1989	31	701	468	894	
4304730840	GRRV	N0390	225	2	1989	15	337	227	440	
4304730840	GRRV	N0390	225	3	1989	31	534	468	1,037	
4304730840	GRRV	N0390	225	4	1989	30	556	453	905	
4304730840	GRRV	N0390	225	5	1989	31	653	468	807	
4304730840	GRRV	N0390	225	6	1989	30	579	453	823	
4304730840	GRRV	N0390	225	7	1989	31	642	468	951	
4304730840	GRRV	N0390	225	8	1989	31	717	468	767	
4304730840	GRRV	N0390	225	9	1989	30	787	453	803	
4304730840	GRRV	N0390	225	10	1989	31	534	468	449	
4304730840	GRRV	N0390	225	11	1989	30	513	453	576	
4304730840	GRRV	N0390	225	12	1989	31	568	465	641	
4304730840	GRRV	N0390	225	1	1990	28	203	420	1,277	
4304730840	GRRV	N0390	225	2	1990	25	189	375	1,435	
4304730840	GRRV	N0390	225	3	1990	31	831	465	1,645	
4304730840	GRRV	N0390	225	4	1990	30	853	450	1,565	
4304730840	GRRV	N0390	225	5	1990	31	917	465	2,196	
4304730840	GRRV	N0390	225	6	1990	30	894	450	1,546	
4304730840	GRRV	N0390	225	7	1990	31	974	465	977	
4304730840	GRRV	N0390	225	8	1990	11	302	165	323	
4304730840	GRRV	N0390	225	9	1990	0	0	0	0	
4304730840	GRRV	N0390	225	10	1990	0	0	0	0	
4304730840	GRRV	N0390	225	11	1990	0	0	0	0	
4304730840	GRRV	N0390	225	12	1990	0	0	0	0	
4304730840	GRRV	N0390	225	1	1991	0	0	0	0	
4304730840	GRRV	N0390	225	2	1991	0	0	0	0	
4304730840	GRRV	N0390	225	3	1991	0	0	0	0	
4304730840	GRRV	N0390	225	4	1991	0	0	0	0	

OIL & GAS PRODUCTION DATA

API	ZONE	ACCOUNT	ENTITY	MONTH	YEAR	DAYS	OIL PROD	GAS PROD	WATER PROD	RECD DATE
4304730840	GRRV	N0390	225	5	1991	0	0	0	0	
4304730840	GRRV	N0390	225	6	1991	0	0	0	0	
4304730840	GRRV	N0390	225	7	1991	0	0	0	0	
4304730840	GRRV	N0390	225	8	1991	0	0	0	0	
4304730840	GRRV	N0390	225	9	1991	0	0	0	0	
4304730840	GRRV	N0390	225	10	1991	0	0	0	0	
4304730840	GRRV	N0390	225	11	1991	0	0	0	0	
4304730840	GRRV	N0390	225	12	1991	0	0	0	0	
4304730840	GRRV	N0390	225	1	1992	0	0	0	0	
4304730840	GRRV	N0390	225	2	1992	0	0	0	0	
4304730840	GRRV	N0390	225	3	1992	0	0	0	0	
4304730840	GRRV	N0390	225	4	1992	0	0	0	0	
4304730840	GRRV	N0390	225	5	1992	0	0	0	0	
4304730840	GRRV	N0390	225	6	1992	18	0	0	2,384	
4304730840	GRRV	N0390	225	7	1992	0	0	0	0	
4304730840	GRRV	N0390	225	8	1992	0	0	0	0	
4304730840	GRRV	N0390	225	9	1992	0	0	0	0	
4304730840	GRRV	N0390	225	10	1992	0	0	0	0	
4304730840	GRRV	N0390	225	11	1992	0	0	0	0	
4304730840	GRRV	N0390	225	12	1992	0	0	0	0	
4304730840	GRRV	N0390	225	1	1993	0	0	0	0	
4304730840	GRRV	N0390	225	2	1993	0	0	0	0	
4304730840	GRRV	N0390	225	3	1993	0	0	0	0	
4304730840	GRRV	N0910	225	4	1993	0	0	0	0	
4304730840	GRRV	N0910	225	5	1993	0	0	0	0	
4304730840	GRRV	N0910	225	6	1993	0	0	0	0	
4304730840	GRRV	N0910	225	7	1993	0	0	0	0	
4304730840	GRRV	N0910	225	8	1993	0	0	0	0	
4304730840	GRRV	N0910	225	9	1993	0	0	0	0	
4304730840	GRRV	N0910	225	10	1993	0	0	0	0	
4304730840	GRRV	N0910	225	11	1993	0	0	0	0	
4304730840	GRRV	N0910	225	12	1993	0	0	0	0	
4304730840	GRRV	N0910	225	1	1994	0	0	0	0	
4304730840	GRRV	N0910	225	2	1994	0	0	0	0	
4304730840	GRRV	N0910	225	3	1994	0	0	0	0	
4304730840	GRRV	N0910	225	4	1994	0	0	0	0	
4304730840	GRRV	N0910	225	5	1994	0	0	0	0	
4304730840	GRRV	N0910	225	6	1994	0	0	0	0	
4304730840	GRRV	N0910	225	7	1994	0	0	0	0	
4304730840	GRRV	N0910	225	8	1994	0	0	0	0	
4304730840	GRRV	N0910	225	9	1994	0	0	0	0	
4304730840	GRRV	N0910	225	10	1994	0	0	0	0	
4304730840	GRRV	N0910	225	11	1994	0	0	0	0	
4304730840	GRRV	N0910	225	12	1994	0	0	0	0	

OIL & GAS PRODUCTION DATA

API	ZONE	ACCOUNT	ENTITY	MONTH	YEAR	DAYS	OIL PROD	GAS PROD	WATER PROD	RECD DATE
4304730840	GRRV	N9215	225	1	1995	0	0	0	0	
4304730840	GRRV	N9215	225	2	1995	0	0	0	0	
4304730840	GRRV	N9215	225	3	1995	0	0	0	0	
4304730840	GRRV	N9215	225	4	1995	0	0	0	0	
4304730840	GRRV	N9215	225	5	1995	0	0	0	0	
4304730840	GRRV	N9215	225	6	1995	0	0	0	0	
4304730840	GRRV	N9215	225	7	1995	0	0	0	0	
4304730840	GRRV	N9215	225	8	1995	0	0	0	0	
4304730840	GRRV	N9215	225	9	1995	0	0	0	0	
4304730840	GRRV	N9215	225	10	1995	0	0	0	0	
4304730840	GRRV	N9215	225	11	1995	0	0	0	0	
4304730840	GRRV	N9215	225	12	1995	0	0	0	0	
4304730840	GRRV	N9215	225	1	1996	0	0	0	0	
4304730840	GRRV	N9215	225	2	1996	0	0	0	0	
4304730840	GRRV	N9215	225	3	1996	0	0	0	0	
4304730840	GRRV	N9215	225	4	1996	0	0	0	0	
4304730840	GRRV	N9215	225	5	1996	0	0	0	0	
4304730840	GRRV	N9215	225	6	1996	0	0	0	0	
4304730840	GRRV	N9215	225	7	1996	0	0	0	0	
4304730840	GRRV	N9215	225	8	1996	0	0	0	0	
4304730840	GRRV	N9215	225	9	1996	0	0	0	0	
4304730840	GRRV	N9215	225	10	1996	0	0	0	0	
4304730840	GRRV	N9215	225	11	1996	0	0	0	0	
4304730840	GRRV	N9215	225	12	1996	0	0	0	0	
4304730840	GRRV	N9215	225	1	1997	0	0	0	0	
4304730840	GRRV	N9215	225	2	1997	0	0	0	0	
4304730840	GRRV	N9215	225	3	1997	0	0	0	0	
4304730840	GRRV	N9215	225	4	1997	0	0	0	0	
4304730840	GRRV	N9215	225	5	1997	0	0	0	0	
4304730840	GRRV	N9215	225	6	1997	0	0	0	0	
4304730840	GRRV	N9215	225	7	1997	0	0	0	0	
4304730840	GRRV	N9215	225	8	1997	0	0	0	0	
4304730840	GRRV	N9215	225	9	1997	0	0	0	0	
4304730840	GRRV	N9215	225	10	1997	0	0	0	0	
4304730840	GRRV	N9215	225	11	1997	0	0	0	0	
4304730840	GRRV	N9215	225	12	1997	0	0	0	0	
4304730840	GRRV	N9215	225	1	1998	0	0	0	0	
4304730840	GRRV	N9215	225	2	1998	0	0	0	0	
4304730840	GRRV	N9215	225	3	1998	0	0	0	0	
4304730840	GRRV	N9215	225	4	1998	0	0	0	0	
4304730840	GRRV	N9215	225	5	1998	0	0	0	0	
4304730840	GRRV	N3220	225	6	1998	0	0	0	0	
4304730840	GRRV	N3220	225	7	1998	0	0	0	0	
4304730840	GRRV	N3220	225	8	1998	0	0	0	0	

OIL & GAS PRODUCTION DATA

API	ZONE	ACCOUNT	ENTITY	MONTH	YEAR	DAYS	OIL PROD	GAS PROD	WATER PROD	RECD DATE
4304730840	GRRV	N3220	225	9	1998	0	0	0	0	
4304730840	GRRV	N3220	225	10	1998	0	0	0	0	
4304730840	GRRV	N3220	225	11	1998	0	0	0	0	
4304730840	GRRV	N3220	225	12	1998	0	0	0	0	
4304730840	GRRV	N0265	225	1	1999	0	0	0	0	03/01/1999
4304730840	GRRV	N0265	225	2	1999	0	0	0	0	04/01/1999
4304730840	GRRV	N0265	225	3	1999	0	0	0	0	04/30/1999
4304730840	GRRV	N0265	225	4	1999	0	0	0	0	05/28/1999
4304730840	GRRV	N0265	225	5	1999	0	0	0	0	06/29/1999
4304730840	GRRV	N0265	225	6	1999	0	0	0	0	08/02/1999
4304730840	GRRV	N0265	225	7	1999	0	0	0	0	08/25/1999
4304730840	GRRV	N0265	225	8	1999	0	0	0	0	09/24/1999
4304730840	GRRV	N0265	225	9	1999	0	0	0	0	10/28/1999
4304730840	GRRV	N0265	225	10	1999	0	0	0	0	11/26/1999
4304730840	GRRV	N0265	225	11	1999	0	0	0	0	12/30/1999
4304730840	GRRV	N0265	225	12	1999	0	0	0	0	01/26/2000
4304730840	GRRV	N0265	225	1	2000	0	0	0	0	03/01/2000
4304730840	GRRV	N0265	225	2	2000	0	0	0	0	04/03/2000
4304730840	GRRV	N0265	225	3	2000	0	0	0	0	05/01/2000
4304730840	GRRV	N0265	225	4	2000	0	0	0	0	06/02/2000
4304730840	GRRV	N0265	225	5	2000	0	0	0	0	07/06/2000
4304730840	GRRV	N0265	225	6	2000	0	0	0	0	08/01/2000
4304730840	GRRV	N0265	225	7	2000	0	0	0	0	09/01/2000
					PRODUCTION SUMMARY:	2,385	62,714	55,420	76,146	

DATABASE QUERY:

```
SELECT API,PROD_ZONE,ACCT_NUM,ENTITY,   RPT_MONTH = DATEPART(MONTH,REPORT_PERIOD), RPT_YEAR =
DATEPART(YEAR,REPORT_PERIOD),   DAYS_PROD,OIL_PROD,GAS_PROD,WATER_PROD,WELL_TYPE,WELL_STATUS,P
ROD_DATE_RECD From PubProduction
 WHERE API = '4304730840'
 ORDER BY REPORT_PERIOD ASC, API ASC, ENTITY ASC, ACCT_NUM ASC
```

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number: U02615A

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name:

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.

7. Unit Agreement Name:

1. Type of Well: OIL ☒ GAS ☐ OTHER: ☐

8. Well Name and Number: USA Pearl Broadhurst #11

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

9. API Well Number: 43-047-30840

3. Address and Telephone Number: P.O. Box 690688, Houston, Texas 77269-0688 (281) 517-7194

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

4. Location of Well
Footages: 713' FNL & 1747' FEL
QQ, Sec., T., R., M.: NW NE; Sec. 10, T7S, R23E
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)	
☐ Abandonment	☐ New Construction	☐ Abandonment*	☐ New Construction
☐ Casing Repair	☐ Pull or Alter Casing	☐ Casing Repair	☐ Pull or Alter Casing
☐ Change of Plans	☐ Recompletion	☐ Change of Plans	☐ Shoot or Acidize
☐ Conversion to Injection	☐ Shoot or Acidize	☐ Conversion to Injection	☐ Vent or Flare
☐ Fracture Treat	☐ Vent or Flare	☐ Fracture Treat	☐ Water Shut-Off
☐ Multiple Completion	☐ Water Shut-Off	☐ Other	
☒ Other Temporarily Abandon			
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.)

Citation Oil & Gas Corp. requests approval to Temporarily Abandon this well while reviewing for reactivation as either a producer or injection support well. Our operations group recently worked on this well and was successful in recovering a liner that was installed across the producing interval. Following removal of the liner, a retrievable bridge plug was installed in the casing above the perforations and the casing was tested to 1000 psi. Approval is requested to leave this well in a TA'd status to allow our reservoir group to evaluate the well's production potential (see attached wellbore diagram). Before deciding whether to reactivate the well as a producer or an injector, the reservoir group has asked the operations group to run injection profiles on the offset wells and this work has been scheduled for the first quarter of 2001.

RECEIVED
DEC 18 2000
DIVISION OF
OIL, GAS AND MINING

Federal Approval Of This
Action Is Necessary

13. Name & Signature: Debra Harris — Debra Harris Title: Prod./Regulatory Coord. Date: 12/13/2000

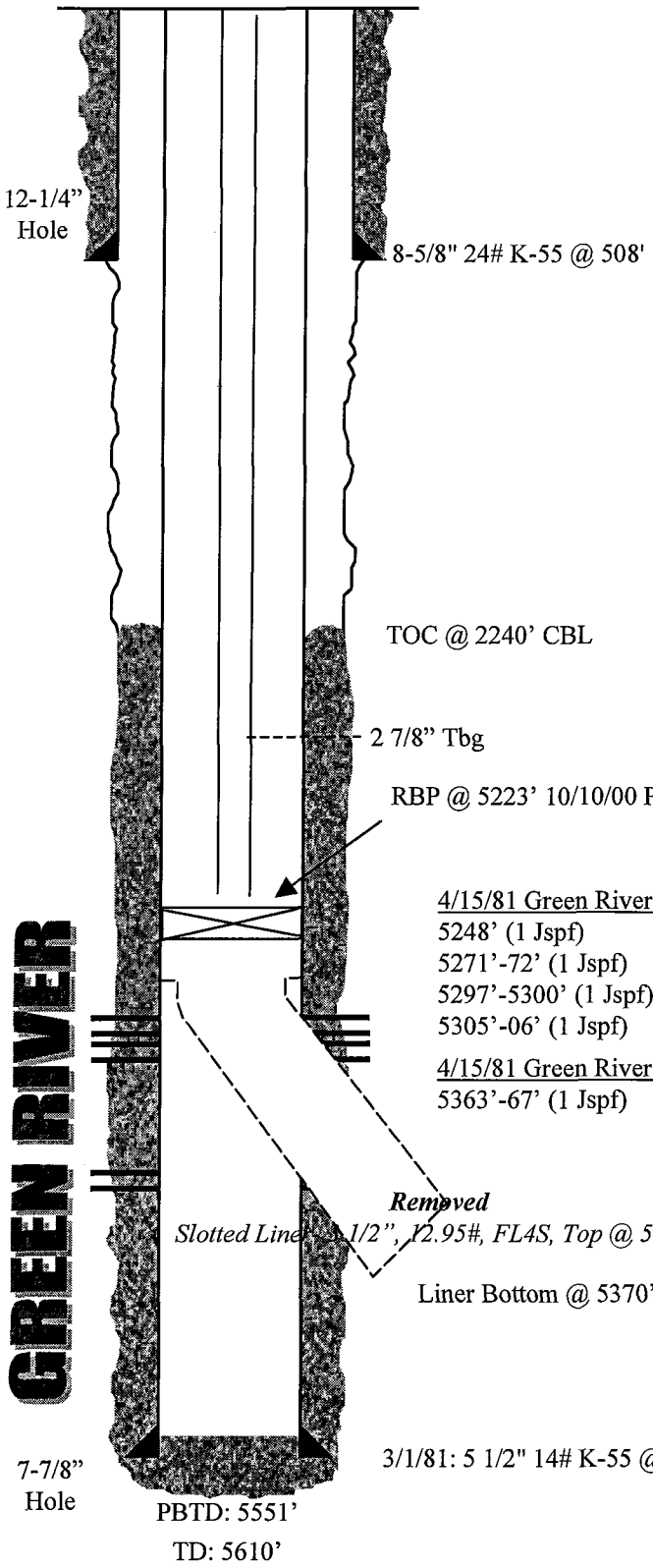
(This space for State use only)

(12\92) (See Instructions on Reverse Side)

CITATION OIL & GAS CORP.
WALKER HOLLOW PEARL BROADHURST #11
(NW/NE) Sec. 10-T7S-R23E
UINTAH CO., UTAH

API:

KB: 13 FT
GL: 5191 FT
Status: Shut in-TA



TUBING DETAIL			
Qty	Description	Length	Depth
-----	KB	13	13
1	2 7/8", 6/5ppf, J-55, 8rd, EUE ctd	31.18	44.18
1	2 7/8", 6/5ppf, J-55, 8rd, EUE ctd pup	6.18	50.36
1	2 7/8", 6/5ppf, J-55, 8rd, EUE ctd pup	10.01	60.37
166	2 7/8", 6/5ppf, J-55, 8rd, EUE ctd	5135.48	5195.85
1	2 7/8" X 5 1/2" TAC	2.75	5198.6
1	2 7/8" SN	1.08	5199.68
1	2 7/8", 6/5ppf, J-55, 8rd, EUE ctd	31.11	5230.79
1	2 7/8" notched collar	0.4	5231.19

CASING DETAIL			
Size	Weight	Grade	Depth
8-5/8"	24	K-55	0-508
5-1/2"	14	K-55	0-5597
3-1/2"	12.95	FL4S	5234-5370

4/15/81 Green River "J"
5248' (1 Jspf)
5271'-72' (1 Jspf)
5297'-5300' (1 Jspf)
5305'-06' (1 Jspf)

4/15/81 Green River "K"
5363'-67' (1 Jspf)

4/17/81 Stimulation:
Broke perfs w/ 1000 gal 7.5% HCL
4/19/81 Frac(both zones):
10,000 gal Super-E pad
30,000 gal Super-E fluid
55,000 # 20-40 sand
24,000 # 10-20 sand

3/1/81: 5 1/2" 14# K-55 @ 5597' w/ 750 sx

RECEIVED
DEC 18 2000
DIVISION OF
OIL, GAS AND MINING

All depths KB unless noted.
Updated: 9-12-00 MW

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number: **U02615A**

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

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 ☒ GAS ☐ OTHER:

8. Well Name and Number: **USA Pearl Broadhurst #11**

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

9. API Well Number: **43-047-30840**

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

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

4. Location of Well

Footages: **713 FNL & 1747 FEL** County: **Uintah**

QQ, Sec., T., R., M.: **NW NE Sec. 10, 7S, 23E** 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)	
☐ Abandonment	☐ New Construction	☐ Abandonment*	☐ New Construction
☐ Casing Repair	☐ Pull or Alter Casing	☐ Casing Repair	☐ Pull or Alter Casing
☐ Change of Plans	☐ Recompletion	☐ Change of Plans	☐ Shoot or Acidize
☐ Conversion to Injection	☐ Shoot or Acidize	☐ Conversion to Injection	☐ Vent or Flare
☐ Fracture Treat	☐ Vent or Flare	☐ Fracture Treat	☐ Water Shut-Off
☐ Multiple Completion	☐ Water Shut-Off	☒ Other **Temporary Abandoned Status Renewal**	
☐ Other			
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.)

Citation requests permission to retain this wellbore in a temporarily abandoned status. Citation has budget approval to drill three development wells in the Walker Hollow Field. Part of this work will include gathering the usual petrophysical information but will also include using repeat formation testers to obtain individual zone pressure information. This information will help in determining which zones may be under pressured due to lack of injection or waterdrive. Utilizing this data, we expect to be able to optimize offset injection to maximize hydrocarbon recovery. We anticipate drilling these wells in the first or second quarter of 2002. For this reason, we are reluctant to P&A any TA'd wellbores at this point that may be useful in supplementing injection or may have recompletion potential once the new information is incorporated into our knowledge base.

13. Name & Signature: Sharon Ward **Sharon Ward** Title: **Regulatory Administrator** Date: **1/21/02**

(This space for State use only)

The well has been nonactive or nonproductive for *9 years 8 months*. In accordance with R649-3-36, good cause has been shown for an extension of shut-in time until *December 18, 2002*, at which time either the well shall be plugged or good cause shall be demonstrated to the Division as to why the well should not be plugged.

(See Instructions on Reverse Side)

(12/92)

RECEIVED

FEB 20 2002

DIVISION OF OIL, GAS AND MINING

ACCEPTED BY: February 22, 2002

Utah Division of Oil, Gas and Mining

Federal Approval of This Action Is Necessary

Form 3160-5
(August 1999)

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

5. Lease Serial No.
U02615A

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
USA Pearl Broadhurst #11

2. Name of Operator
CITATION OIL & GAS CORP.

9. API Well No.
43-047-30840

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

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

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

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
713 FNL & 1747 FEL NW NE Sec. 10, 7S, 23E

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			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☒ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other _____
	☐ Change Plans	☐ Plug and Abandon	☒ Temporarily Abandon	_____
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ 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 has budget approval to drill three development wells in the Walker Hollow Field. Part of this work will include gathering the usual petrophysical information but will also include using repeat formation testers to obtain individual zone pressure information. This information will help in determining which zones may be under pressured due to lack of injection or waterdrive. Utilizing this data, we expect to be able to optimize offset injection to maximize hydrocarbon recovery. We anticipate drilling these wells in the first or second quarter of 2002. For this reason, we are reluctant to P&A any TA'd wellbores at this point that may be useful in supplementing injection or may have recompletion potential once the new information is incorporated into our knowledge base.

RECEIVED
FEB 20 2002
DIVISION OF
OIL, GAS AND MINING

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

Name *(Printed/Typed)*
Sharon Ward

Title
Regulatory Administrator

Signature
Sharon Ward

Date
1/21/02

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

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.

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number: U02615A

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name:

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.

7. Unit Agreement Name:

1. Type of Well: OIL ☒ GAS ☐ OTHER:

8. Well Name and Number: USA Pearl Broadhurst #11

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

9. API Well Number: 43-047-30840

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

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

4. Location of Well

Footages: 713 FNL & 1747 FEL

County: Uintah

QQ, Sec., T., R., M.: NW NE Sec. 10, 7S, 23E

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

Citation requests permission to retain this wellbore in a temporarily abandoned status. Citation has budget approval to drill three development wells in the Walker Hollow Field. Part of this work will include gathering the usual petrophysical information but will also include using repeat formation testers to obtain individual zone pressure information. This information will help in determining which zones may be under pressured due to lack of injection or waterdrive. Utilizing this data, we expect to be able to optimize offset injection to maximize hydrocarbon recovery. We anticipate drilling these wells in the first or second quarter of 2002. For this reason, we are reluctant to P&A any TA'd wellbores at this point that may be useful in supplementing injection or may have recompletion potential once the new information is incorporated into our knowledge base.

13. Name & Signature: Sharon Ward — Sharon Ward Title: Regulatory Administrator Date: 1/21/02

This space for State use only)

(12\92) (See Instructions on Reverse Side)

Form 3160-5
(August 1999)

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.

5. Lease Serial No.
UTU0566

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
UTU63010O

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other: UNKNOWN

8. Well Name and No.
FAC FAC X CENTRAL BATTERY

2. Name of Operator
SHENANDOAH ENERGY INC.
Contact: ANN PETRIK
E-Mail: apetrik@shenandoahenergy.com

9. API Well No.

3a. Address
11002 EAST 17500 SOUTH
VERNAL, UT 84078

3b. Phone No. (include area code)
Ph: 435.781.4306
Fx: 435.781.4329

10. Field and Pool, or Exploratory
RED WASH GREEN RIVER P.A.

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 27 T7S R23E SWSE

11. County or Parish, and State
UINTAH COUNTY, UT

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

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

13. Describe Proposed or Completed Operation (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.)

SHENANDOAH ENERGY'S GATHERING AND PROCESSING COMPANY IS INTERESTED IN UPGRADING THE TRUCK LEASE AUTOMATIC CUSTODY TRANSFER (LACT) UNIT AT SEI'S CENTRAL BATTERY.

PLEASE SEE ATTACHED.

RECEIVED
FEB 21 2002
DIVISION OF
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #10268 verified by the BLM Well Information System For SHENANDOAH ENERGY INC., sent to the Vernal

Name *(Printed/Typed)* ANN PETRIK — Title ADMINISTRATIVE CONTACT

Signature (Electronic Submission) — Date 02/08/2002

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ Title _____ Date _____

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

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.

** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 2/22/02
BY: [signature]

~~CONFIDENTIAL~~

COPY SENT TO OPERATOR
Date: 02-22-02
Initials: CHD

Bureau of Land Management **1-14-02**
Vernal District

Dear Mr. Sparger,

Shenandoah Energy's Gathering and Processing Company is interested in upgrading the Truck Lease Automatic Custody Transfer (LACT) unit at SEI's Central Battery that provides metered sales of Crude Oil from SEI's production sales tanks to their customer, Chevron, This LACT unit must be accepted by the Bureau of Land Management, Shenandoah Energy and Chevron for the sales and custody transfer of Crude Oil.

SEI has consulted with James Moody of Moody Equipment and has designed a LACT unit to accomplish this goal. The design is in compliance with API standards and should be sufficient for all parties involved, however it is a SEI's desire to gain approval of this design and instrumentation and meters before beginning construction.

Please find enclosed a drawing of our design submitted to all parties for their approval.

The LACT design provides for the ability to prove the meter. It includes a strainer/air eliminator, BS&W Monitor with bypass valve, sampler with sample pot and mix/recycle pump, Positive Displacement meter with temperature averaging device (LINCO TA 1000), check valves, and a programmable logic controller. A back-pressure regulator shall be installed on the sample pot to maintain a minimum of 5 PSI in the pot in an effort to keep all light ends from escaping the sample. The sample pot shall also be equipped with a sight glass in order to aid the operator in knowing when to do a grind out on the sample. Seals shall be placed on all valves, meters, the sample container, prover loop valves, and any other components that are subject to tampering or adjustment or permits access to the sales line or to the samples. Maintenance of this LACT shall be the responsibility of SEI, however care and proper operation of the LACT shall be required of Chevron's truck drivers and their contracted truck drivers.

Flow Description:

Crude Oil shall be pumped from sales tanks located at Central Battery passing through this LACT unit into Chevron's transport trucks. First the crude will enter the suction side of the pump and continue out the discharge side at approximately 642 BBLS/hr. Then through the strainer in an effort to remove particles of garbage, after which it pass through the air eliminator which shall remove air or other gases, that may cause meter errors. Next it will pass through the Bottom Sediment and Water monitor which shall test for high BS and water content. If too much BS and water exists in the Crude Oil an alarm relay shall close and the Programmable Logic Controller will open the divert valve diverting the "contaminated" Crude from the sales meter. Assuring that we have good Crude it will then pass through a sampler, which shall take samples using the Rate Proportional Method and at a rate sufficient to fill the sample pot with enough Crude for accurate BS&W factor determination. The sample rate will be adjustable in order to be able to ensure that the sample will be large enough to determine the BS&W %, however it will always remain proportional to the rate, such that the sample will be taken proportionally from the full load . A small pump will be used to mix the sample. This pump can also pump the Crude back into the line ahead of the LACT to empty the sample pot. Crude will proceed through the Positive Displacement meter for metering and then into the buyer's truck. A back-pressure control valve shall maintain a minimum of 40 PSI on the meter to meet meter measurement standards. The PLC shall monitor the flow pulses from the meter, if for any reason the pulses fail the LACT pump will be shut down and the PLC shall indicate a meter pulse failure. This will prevent inaccurate flow measurements and sampling.

Please review the drawings and submittals and advise SEI of any discrepancies or corrections that may be needed.

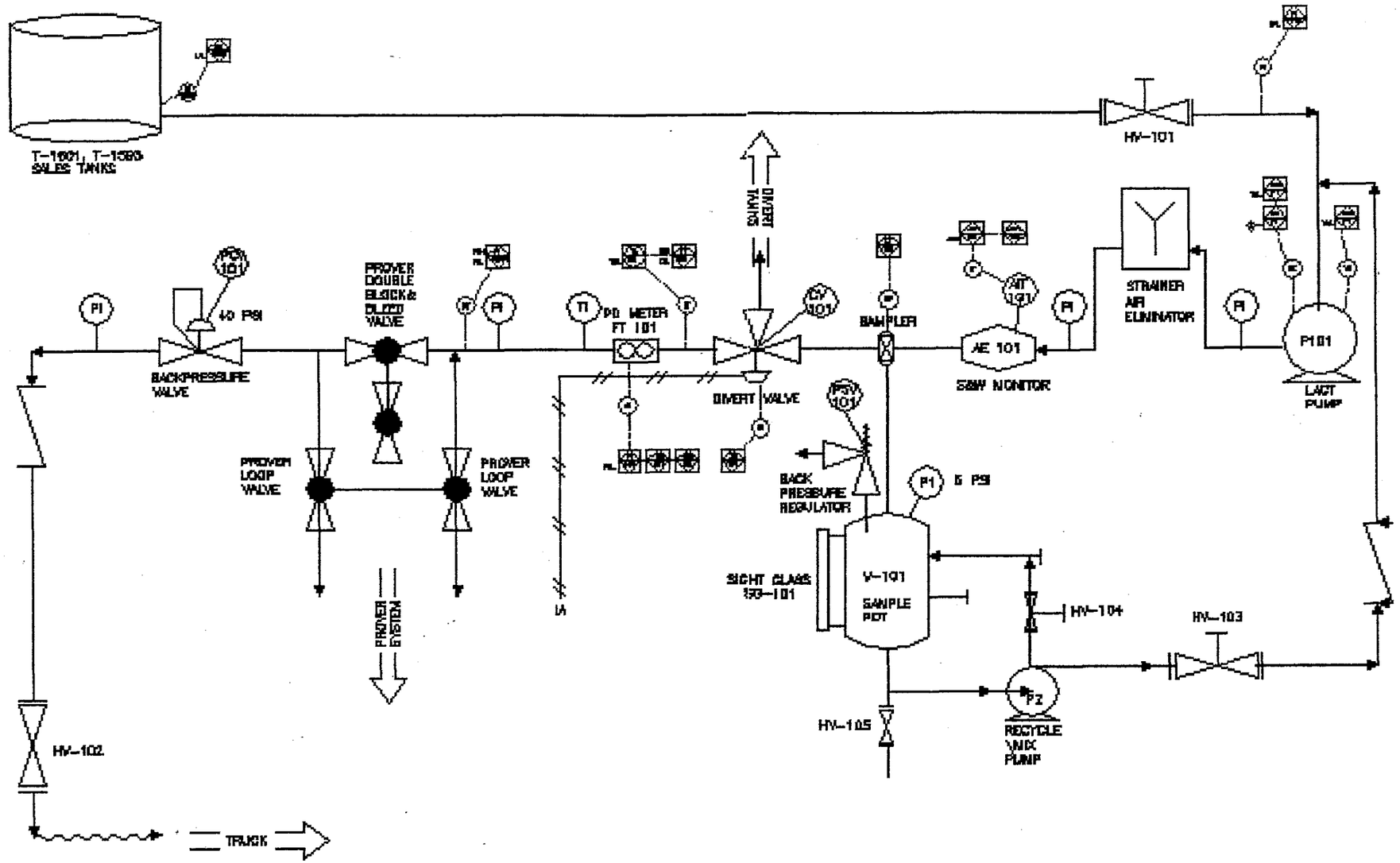
Sincerely,
Tracy Gardner

Instrumentation and Electrical Team Leader
Shenandoah Energy Inc.

Brant Trogstad

Measurement Specialist
Shenandoah Energy Inc.

CONFIDENTIAL



~~CONFIDENTIAL~~

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name:

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.

7. Unit Agreement Name: **UTU 02651A**

1. Type of Well: OIL ☒ GAS ☐ OTHER: ☐

8. Well Name and Number: **USA Pearl Broadhurst #11**

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

9. API Well Number: **43-047-30840**

3. Address and Telephone Number: **P.O. Box 690688, Houston, Texas 77269-0688 (281) 517-7194**

10. Field and Pool, or Wildcat: **Walker Hollow Field**

4. Location of Well
Footages: **713' FNL & 1747' FEL** County: **Uintah**
QQ, Sec., T., R., M.: **NW NE; Sec. 10, T7S, R23E** 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)	
☐ Abandonment	☐ New Construction	☐ Abandonment*	☐ New Construction
☐ Casing Repair	☐ Pull or Alter Casing	☐ Casing Repair	☐ Pull or Alter Casing
☐ Change of Plans	☐ Recompletion	☐ Change of Plans	☐ Shoot or Acidize
☐ Conversion to Injection	☐ Shoot or Acidize	☐ Conversion to Injection	☐ Vent or Flare
☐ Fracture Treat	☐ Vent or Flare	☐ Fracture Treat	☐ Water Shut-Off
☐ Multiple Completion	☐ Water Shut-Off	☒ Other **Extension of TA Status**	
☐ Other			
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 #11 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 defered 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.

RECEIVED
SEP 03 2002
DIVISION OF
OIL, GAS AND MINING

10-15-02
CHD

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

(This space for State use only)

The well has been nonactive or nonproductive for 12 years 0 months. In accordance with R649-3-36, good cause has been shown for an extension of shut-in time until October 1, 2003.
(See Instructions on Reverse Side)

(12/92)

Federal Approval of This Action is Necessary

ACCEPTED BY: D. R. Dut October 11, 2002
Utah Division of Oil, Gas and Mining

Form 3160-5
(August 1999)

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

5. Lease Serial No.
U02651A

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
~~USA~~ Pearl Broadhurst #11

2. Name of Operator
CITATION OIL & GAS CORP.

9. API Well No.
43-047-30840

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

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

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

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
713 FNL & 1747 FEL NW NE Sec. 10, 7S, 23E

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			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☒ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other _____
	☐ Change Plans	☐ Plug and Abandon	☒ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ 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.)

The USA Pearl Broadhurst #11 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 this 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 from surface is 248' , 0 tubing pressure, 9 psi casing pressure.

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

November 18, 2003
Utah Division of Oil, Gas and Mining

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*
Sharon Ward

Title
Regulatory Administrator

Signature Sharon Ward

Date
10/2/03

COPY SENT TO OPERATOR
Date: 11-19-03
Initials: CHD

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

RECEIVED
OCT 06 2003
DIV. OF OIL, GAS & MINING

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.

INFORMATION REQUIRED TO EXTEND SI/TA OF WELL

Well Name and Number:	USA Pearl Broadhurst #11
API Number:	43-047-30840
Operator:	Citation Oil & Gas Corp.
Reference Document:	Original Sundry dated October 2, 2003, received by DOGM 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

CITATION OIL & GAS CORPORATION
PEARL BROADHURST FIELD, PEARL BROADHUEST #11
CONVERSION TO INJECTION PROCEDURE

DATE: 11-26-03 **WELL NO.** Pearl Broadhurst #11

1. MIRU rig. ND WH. NU BOP. PU 1 jt 2 7/8" tbg from stock, RIH, latch onto RBP @ 5223', and POOH W/165 jts of 2 7/8" tbg & RBP.

2. PU & RIH W/SN & PKR for 5 ½" 14# csg & set @ +/-5223'. Test tbg-csg ann to 300 psi. Drop SV & pressure test tbg to 3000 psi. Fish SV.

3. RU acid company & acidize Green River perfs & open hole section using 6000 gals 7 ½% HCl in 6 equal stages using 500# of rock salt in salt saturated gelled brine preceding the first acid stage & 500# of rock salt in salt saturated gelled brine between each acid stage (3000# of rock salt total) not exceeding 1500 psi max surf inj press. RD acid company.

4. RU swab & swab well back until neutral (7) in pH. POOH & LD tbg & tools.

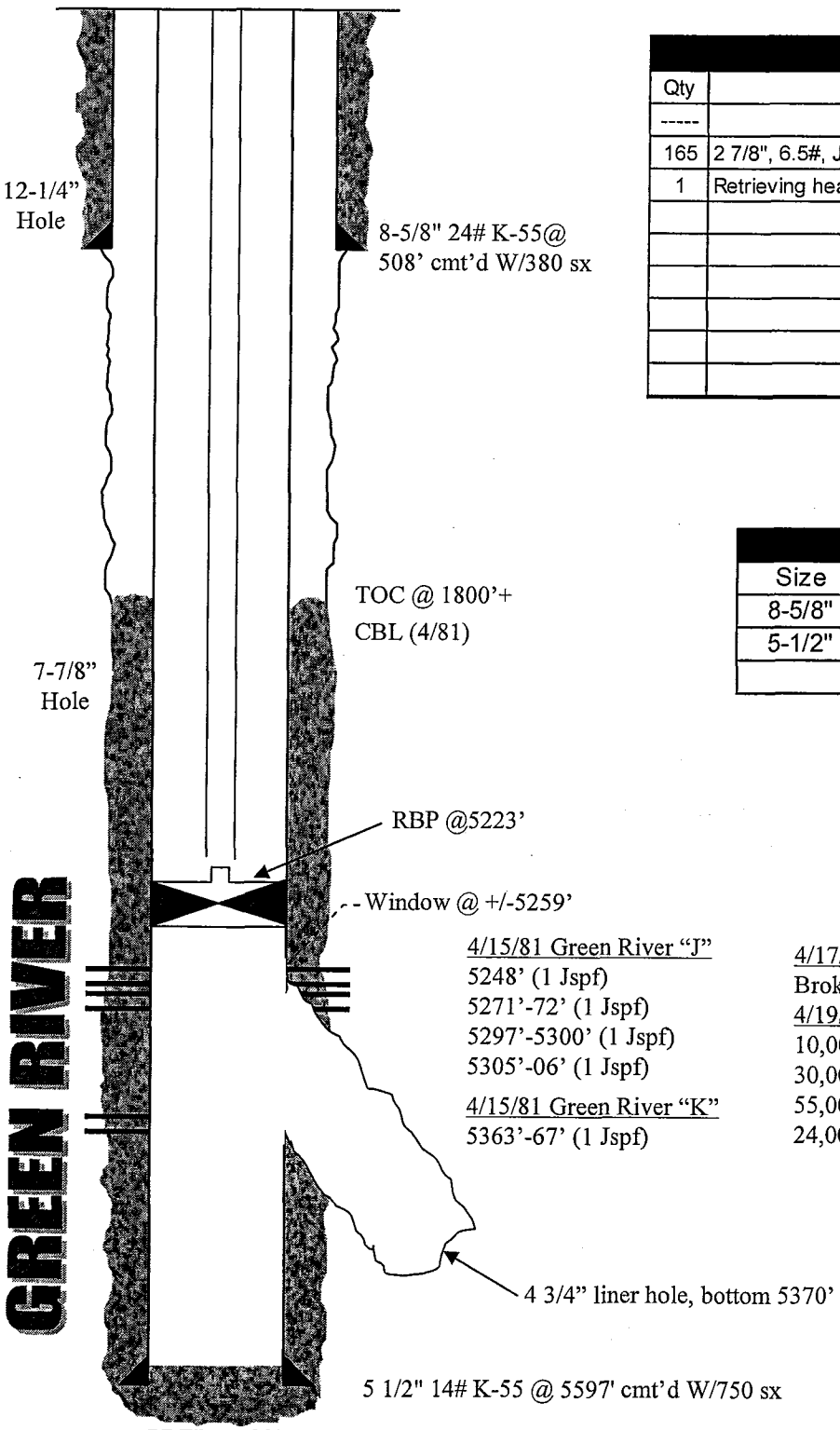
5. PU & RIH W/Baker IPC Model AL-2 Inj PKR or equivalent W/nickel plated on-off tool & +/-166 jts of 2 3/8" J-55 8rd EUE IPC tbg & set @ +/-5223' in 10K compression. Load tbg-csg ann W/PKR fluid. SI well. RDMO.

6. Construct inj WH tree & meter run. Lay 2" steel inj line. Tie into disposal system @ WHU #26. Hang well on inj.

7. After 30 days of continuous inj, run injection profile survey & send three copies of results to Gillette Office.

CITATION OIL & GAS CORP.
WALKER HOLLOW PEARL BROADHURST #11
(NW/NE) Sec. 10-T7S-R23E
UINTAH CO., UTAH

KB: 13 FT
GL: 5191 FT
Status: Shut in-TA

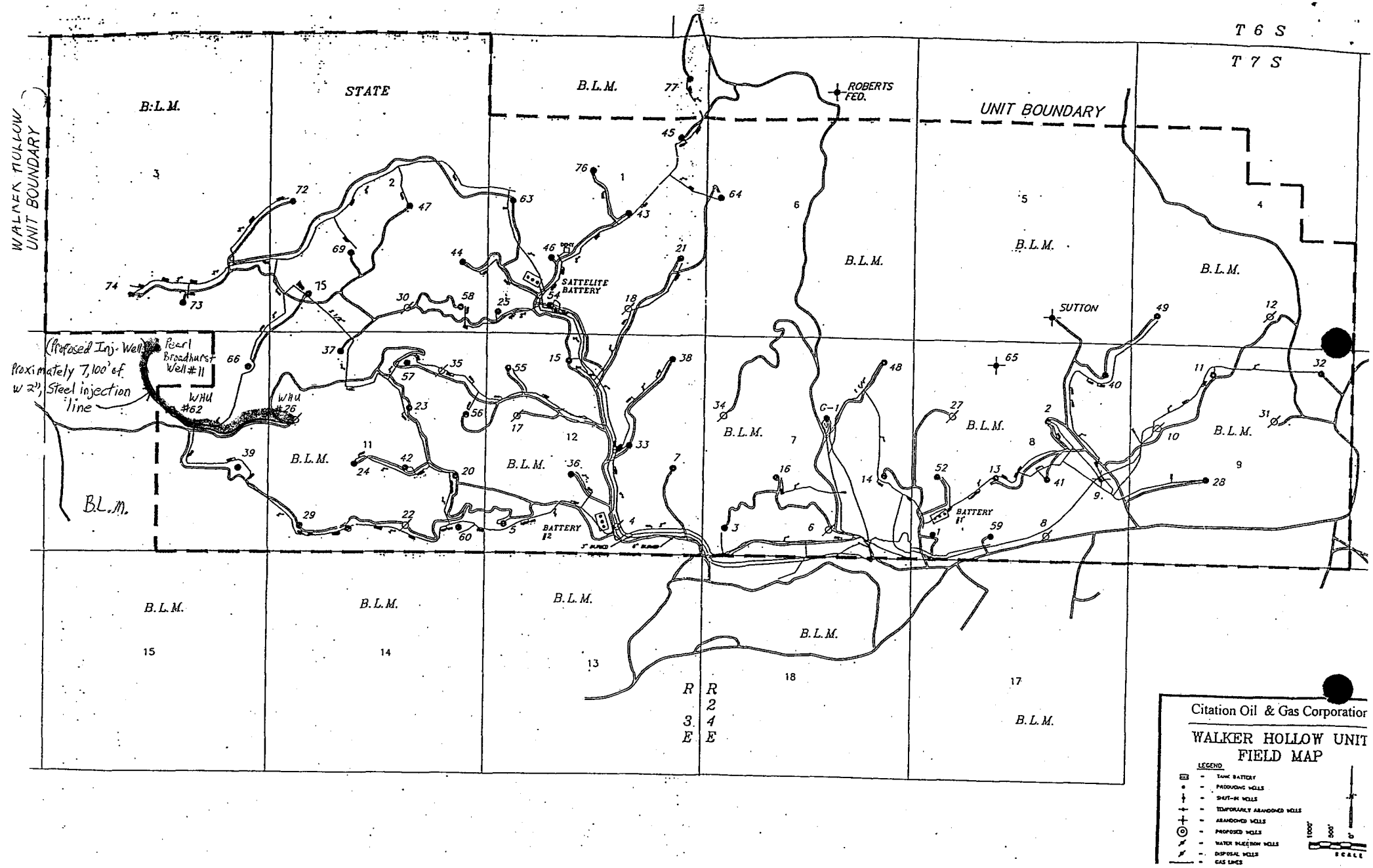


PBTD: 5223'
TD: 5610'

TUBING DETAIL			
Qty	Description	Length	Depth
-----	KB	13	13
165	2 7/8", 6.5#, J-55, 8rd, EUE tbg	5200	5213
1	Retrieving head for RBP		

CASING DETAIL			
Size	Weight	Grade	Depth
8-5/8"	24	K-55	0-508
5-1/2"	14	K-55	0-5597

All depths KB unless noted.
Updated: 11-25-03



Citation Oil & Gas Corporation

WALKER HOLLOW UNIT FIELD MAP

LEGEND

- TANK BATTERY
- PRODUCING WELLS
- SHUT-IN WELLS
- TEMPORARILY ABANDONED WELLS
- ABANDONED WELLS
- PROPOSED WELLS
- WATER INJECTION WELLS
- DISPOSAL WELLS
- GAS LINES

1000' 500' 0 SCALE

Form 3160-5
(August 1999)

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

5. Lease Serial No.
U02651A

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
USA Pearl Broadhurst #11

2. Name of Operator
CITATION OIL & GAS CORP.

9. API Well No.
43-047-30840

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

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

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

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
713 FNL & 1747 FEL NW NE Sec. 10, 7S, 23E

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			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other **Convert to injection & lay line**
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ 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 Oil & Gas Corp. proposes to lay approximately 7100' of 2", schedule 40, steel injection line that will be trenched and buried approximately 4' deep to supply field produced injection water to the newly converted Pearl Broadhurst (PB) #11 injection well. The line will tie into an existing steel injection line near the Walker Hollow Unit (WHU) #26 injection well. From the WHU #26 well, the line will run northwest, across the WHU boundary into the PB lease to the PB #11 well. See attached map for reference. The conversion of the PB #11 is contingent upon submittal and approval of the injection application.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED
DEC 1 2 2003
DIV. OF OIL, GAS & MINING

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

Name *(Printed/Typed)*
Sharon Ward

Title
Regulatory Administrator

Signature
Sharon Ward

Date
12/9/03

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

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.

Form 3160-5
(August 1999)

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

5. Lease Serial No.
U02651A

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
USA Pearl Broadhurst #11

2. Name of Operator
CITATION OIL & GAS CORP.

9. API Well No.
43-047-30840

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

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

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

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
713 FNL & 1747 FEL NW NE Sec. 10, 7S, 23E

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			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☒ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other **Additional information to TA request**
	☐ Change Plans	☐ Plug and Abandon	☒ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ 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 is currently budgeting this well for conversion to injection in 2004. This is subject to final approval by Citation's upper management. The workover is designed to provide injection support in the D8C – DL1A intervals. This is one of three currently inactive wells on the combined WHU and Pearl Broadhurst leases budgeted for workovers. In addition, two inactive wells are budgeted for P&A on the WHU, and one inactive well is budgeted for P&A on the Pearl Broadhurst Lease. 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)*	Title
Sharon Ward	**Regulatory Administrator**
Signature Sharon Ward	Date **December 8, 2003**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
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	

Accepted by the Utah Division of Oil, Gas and Mining
Date: 4/7/04
By: [illegible]
Federal Approval Of This Action Is Necessary

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

RECEIVED
FEB 2 3 2004
DIV. OF OIL, GAS & MINING

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

UIC FORM 1

APPLICATION FOR INJECTION WELL

Name of Operator: Citation Oil & Gas Corp.	Utah Account Number: N 0265	Well Name and Number: USA Pearl Broadhurst 11
Address of Operator: P O Box 690688 CITY Houston STATE TX ZIP 77269	Phone Number: (281) 517-7800	API Number: 4304730840
Location of Well: Footage: 713' FNL & 1747' FEL County: Uintah; QQ, Section, Township, Range: NWNE 10 7S 23E State: UTAH		Field or Unit Name: Walker Hollow Green River; Lease Designation and Number: U 02651A

Is this application for expansion of an existing project? Yes ☑ No ☐

Will the proposed well be used for:

	Yes	No
Enhanced Recovery?	☑	☐
Disposal?	☐	☑
Storage?	☐	☑

Is this application for a new well to be drilled? Yes ☐ No ☑

If this application is for an existing well, has a casing test been performed? Yes ☐ No ☑

Date of test: _____

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY

Proposed injection interval: from 5,248 to 5,367

Proposed maximum injection: rate 1,200 bpd pressure 1,694 psig

Proposed injection zone contains oil ☑, gas ☑, and / or fresh water ☐ within ½ mile of the well.

List of attachments: See attached application to EPA. Logs on file at the USGS in Utah.

ATTACH ADDITIONAL INFORMATION AS REQUIRED BY CURRENT UTAH OIL AND GAS CONSERVATION GENERAL RULES

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

Name (Please Print) Sharon Ward Title Regulatory Administrator

Signature Sharon Ward Date 2/20/2004

(5/2002)

INSTRUCTIONS

This form shall be submitted by the well operator prior to the commencement of operations for injecting any fluid into a well for the purpose of enhanced recovery, disposal, or storage within the state of Utah, in accordance to the Utah Oil and Gas Conservation General Rules. Approvals or orders authorizing injection wells shall be valid for the life of the well, unless revoked by the board for just cause, after notice and hearing.

Send to:

Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

Citation
OIL & GAS CORP.

February 20, 2004

Dan Jackson
U. S. Environmental Protection Agency
Region VIII
999 18th Street, Suite 300
Denver, Colorado 80202-2466

RE: Permit Application for Water Injection Well
USA Pearl Broadhurst #11
Walker Hollow Field, Lease UTU 02651A
Section 11-Township 7S-Range 23E
Uintah County, Utah

Dear Mr. Jackson:

Citation Oil & Gas Corp. requests a permit to convert the USA Pearl Broadhurst #11 from a shut-in oil well to a water injection well.

Enclosed please find Citation Oil & Gas Corp.'s application for conversion.

If you require additional information, please contact the undersigned, at 281-517-7309.
Thank you.

Sincerely,

Sharon Ward

Sharon Ward
Regulatory Administrator
Citation Oil & Gas Corp.

P.O. Box 690688 • Houston, TX 77269-0688 • 281/517-7800

CITATION OIL & GAS CORP.

APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL

U.S.A. PEARL BROADHURST #11

WALKER HOLLOW (GREEN RIVER) FIELD

LEASE # UTU-02651A

FEBUARY 20, 2004

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COVER PAGE
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ATTACHMENT A-3	LISTING OF SURFACE OWNERS
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ATTACHMENT C	CORRECTIVE ACTION PLAN AND WELL DATA
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ATTACHMENT C-3	COMPLETION/SUNDRIES -WELLBORE DIAGRAM – WALKER HOLLOW UNIT 66
ATTACHMENT C-4	COMPLETION/SUNDRIES -WELLBORE DIAGRAM – WALKER HOLLOW UNIT 73
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ATTACHMENT H	CONSTRUCTION DETAILS
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ATTACHMENT J-1	SURETY LETTER
ATTACHMENT K	STATE APPLICATION UIC FORM 1

Form Approved. OMB No. 2040-0042.

United States Environmental Protection Agency

Underground Injection Control Permit Application

(Collected under the authority of the Safe Drinking Water Act. Sections 1421, 1422, 40 CFR 144)

I. EPA ID Number		T/A	C
U			

Read Attached Instructions Before Starting

For Official Use Only

Application approved mo	day	year	Date received mo	day	year	Permit Number	Well ID	FINDS Number

II. Owner Name and Address

Owner Name: USA Pearl Broadhurst 11

Street Address: Section 11- Township 7S- Range 23E

Phone Number:

City: Uintah County | State: Utah | ZIP CODE:

III. Operator Name and Address

Operator Name: Citation Oil & Gas Corp.

Street Address: 8223 Willow Place South

Phone Number: 281-517-7800

City: Houston, | State: Texas | ZIP CODE: 77070

IV. Commercial Facility

[ ] Yes
[x] No

V. Ownership

[ ] Private
[x] Federal
[ ] Other

VI. Legal Contact

[ ] Owner
[x] Operator

VII. SIC Codes

VIII. Well Status *(Mark "x")*

[ ] A. Operating — Date Started mo / day / year:

[x] B. Modification/Conversion

[x] C. Proposed

IX. Type of Permit Requested *(Mark "x" and specify if required)*

[x] A. Individual [ ] B. Area

Number of Existing Wells	Number of Proposed Wells	Name(s) of field(s) or project(s)
	1	Walker Hollow Field

X. Class and Type of Well *(see reverse)*

A. Classes(es) (enter codes(s))	B. Type(s) (enter codes(s))	C. If class is "other" or type is code 'x,' explain	D. Number of wells per type (if area permit)
II	R		

XI. Location of Well(s) or Approximate Center of Field or Project

Latitude Deg	Min	Sec	Longitude Deg	Min	Sec	Township and Range Sec	Twp	Range	1/4 Sec	Feet From	Line	Feet From	Line
						11	7S	23E	NWNE	713	N	1747	E

XII. Indian Lands (Mark 'x')

[ ] Yes
[x] No

XIII. Attachments

(Complete the following questions on a separate sheet(s) and number accordingly; see instructions)
For Classes I, II, III, (and other classes) complete and submit on a separate sheet(s) Attachments A--U (pp 2-6) as appropriate. Attach maps where required. List attachments by letter which are applicable and are included with your application.

XIV. Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

A. Name and Title *(Type or Print)*	B. Phone No. *(Area Code and No.)*
Sharon Ward Regulatory Administrator	281-517-7309
C. Signature	D. Date Signed

Well Class and Type Codes

Class I	Wells used to inject waste below the deepest underground source of inking water.
Type "I"	Nonhazardous industrial disposal well
"M"	Nonhazardous municipal disposal well
"W"	Hazardous waste disposal well injecting below USDWs
"X"	Other Class I wells (not included in Type "I," "M," or "W")
Class II	Oil and gas production and storage related injection wells.
Type "D"	Produced fluid disposal well
"R"	Enhanced recovery well
"H"	Hydrocarbon storage well (excluding natural gas)
"X"	Other Class II wells (not included in Type "D," "R," or "H")
Class III	Special process injection wells.
Type "G"	Solution mining well
"S"	Sulfur mining well by Frasch process
"U"	Uranium mining well (excluding solution mining of conventional mines)
"X"	Other Class III wells (not included in Type "G," "S," or "U")
Other Classes	Wells not included in classes above.
	Class V wells which may be permitted under §144.12
	Wells not currently classified as Class I, II, III, or V.

Attachments to Permit Application

Class	Attachments
I new well	A, B, C, D, F, H — S, U
existing	A, B, C, D, F, H — U
II new well	A, B, C, E, G, H, M, Q, R; optional — I, J, K, O, P, U
existing	A, E, G, H, M, Q, R — U; optional — J, K, O, P, Q
III new well	A, B, C, D, F, H, I, J, K, M — S, U
existing	A, B, C, D, F, H, J, K, M — U
Other Classes	To be specified by the permitting authority

Form 3160-5
(August 1999)

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

5. Lease Serial No.
U02651A

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
USA Pearl Broadhurst #11

2. Name of Operator
CITATION OIL & GAS CORP.

9. API Well No.
43-047-30840

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

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

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

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
713 FNL & 1747 FEL NW NE Sec. 10, 7S, 23E

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			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other **Convert to injection & lay line**
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ 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 Oil & Gas Corp. proposes to lay approximately 7100' of 2", schedule 40, steel injection line that will be trenched and buried approximately 4' deep to supply field produced injection water to the newly converted Pearl Broadhurst (PB) #11 injection well. The line will tie into an existing steel injection line near the Walker Hollow Unit (WHU) #26 injection well. From the WHU #26 well, the line will run northwest, across the WHU boundary into the PB lease to the PB #11 well. See attached map for reference. The conversion of the PB #11 is contingent upon submittal and approval of the injection application.

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

Name *(Printed/Typed)*
Sharon Ward

Title
Regulatory Administrator

Signature
Sharon Ward

Date
12/9/03

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

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.

CITATION OIL & GAS CORPORATION
PEARL BROADHURST FIELD, PEARL BROADHUEST #11
CONVERSION TO INJECTION PROCEDURE

DATE: 11-26-03 **WELL NO.** Pearl Broadhurst #11

1. MIRU rig. ND WH. NU BOP. PU 1 jt 2 7/8" tbg from stock, RIH, latch onto RBP @ 5223', and POOH W/165 jts of 2 7/8" tbg & RBP.

2. PU & RIH W/SN & PKR for 5 ½" 14# csg & set @ +/-5223'. Test tbg-csg ann to 300 psi. Drop SV & pressure test tbg to 3000 psi. Fish SV.

3. RU acid company & acidize Green River perfs & open hole section using 6000 gals 7 ½% HCl in 6 equal stages using 500# of rock salt in salt saturated gelled brine preceding the first acid stage & 500# of rock salt in salt saturated gelled brine between each acid stage (3000# of rock salt total) not exceeding 1500 psi max surf inj press. RD acid company.

4. RU swab & swab well back until neutral (7) in pH. POOH & LD tbg & tools.

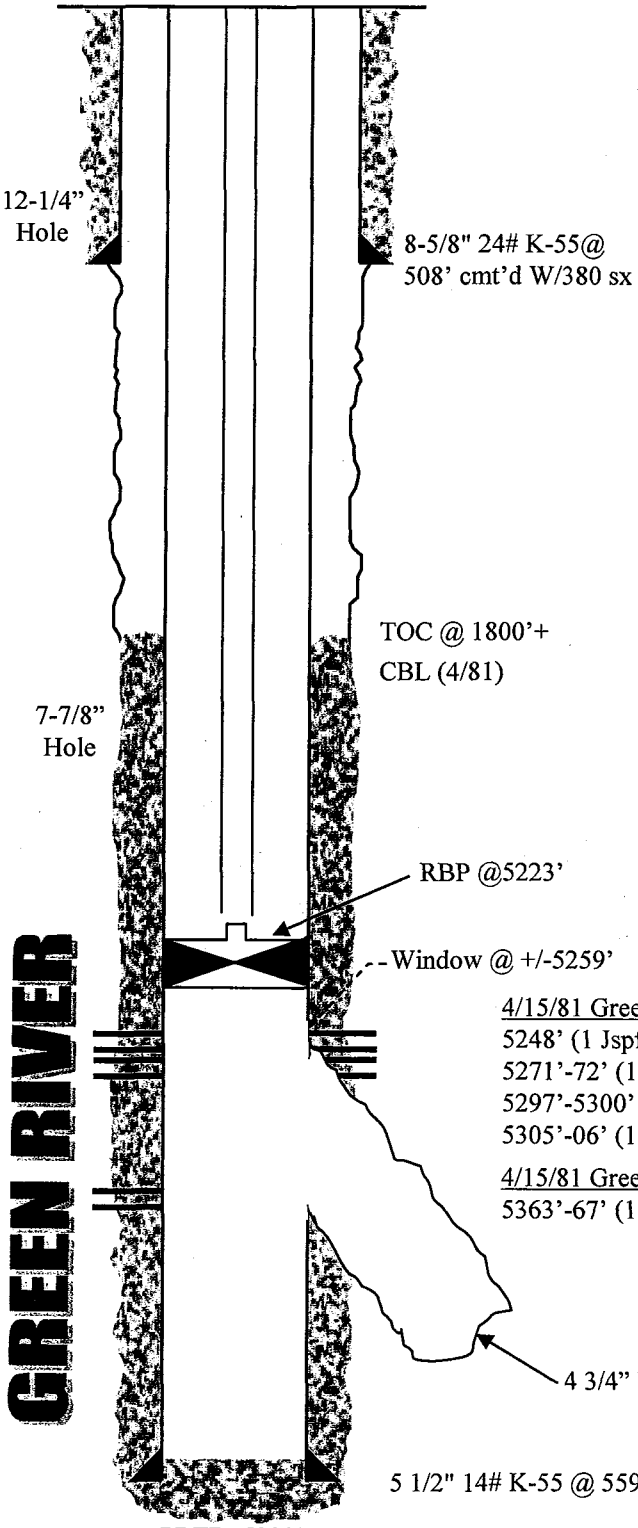
5. PU & RIH W/Baker IPC Model AL-2 Inj PKR or equivalent W/nickel plated on-off tool & +/-166 jts of 2 3/8" J-55 8rd EUE IPC tbg & set @ +/-5223' in 10K compression. Load tbg-csg ann W/PKR fluid. SI well. RDMO.

6. Construct inj WH tree & meter run. Lay 2" steel inj line. Tie into disposal system @ WHU #26. Hang well on inj.

7. After 30 days of continuous inj, run injection profile survey & send three copies of results to Gillette Office.

CITATION OIL & GAS CORP.
WALKER HOLLOW PEARL BROADHURST #11
(NW/NE) Sec. 10-T7S-R23E
UINTAH CO., UTAH

KB: 13 FT
GL: 5191 FT
Status: Shut in-TA



PBTD: 5223'
TD: 5610'

TUBING DETAIL			
Qty	Description	Length	Depth
-----	KB	13	13
165	2 7/8", 6.5#, J-55, 8rd, EUE tbg	5200	5213
1	Retrieving head for RBP		

CASING DETAIL			
Size	Weight	Grade	Depth
8-5/8"	24	K-55	0-508
5-1/2"	14	K-55	0-5597

4/15/81 Green River "J"
5248' (1 Jspf)
5271'-72' (1 Jspf)
5297'-5300' (1 Jspf)
5305'-06' (1 Jspf)

4/15/81 Green River "K"
5363'-67' (1 Jspf)

4/17/81 Stimulation:
Broke perfs w/ 1000 gal 7.5% HCL
4/19/81 Frac(both zones):
10,000 gal Super-E pad
30,000 gal Super-E fluid
55,000 # 20-40 sand
24,000 # 10-20 sand

All depths KB unless noted.
Updated: 11-25-03

CITATION OIL & GAS CORP.
APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL
U.S.A. PEARL BROADHURST #11
WALKER HOLLOW (GREEN RIVER) FIELD
LEASE # UTU-02651A

ATTACHMENT A

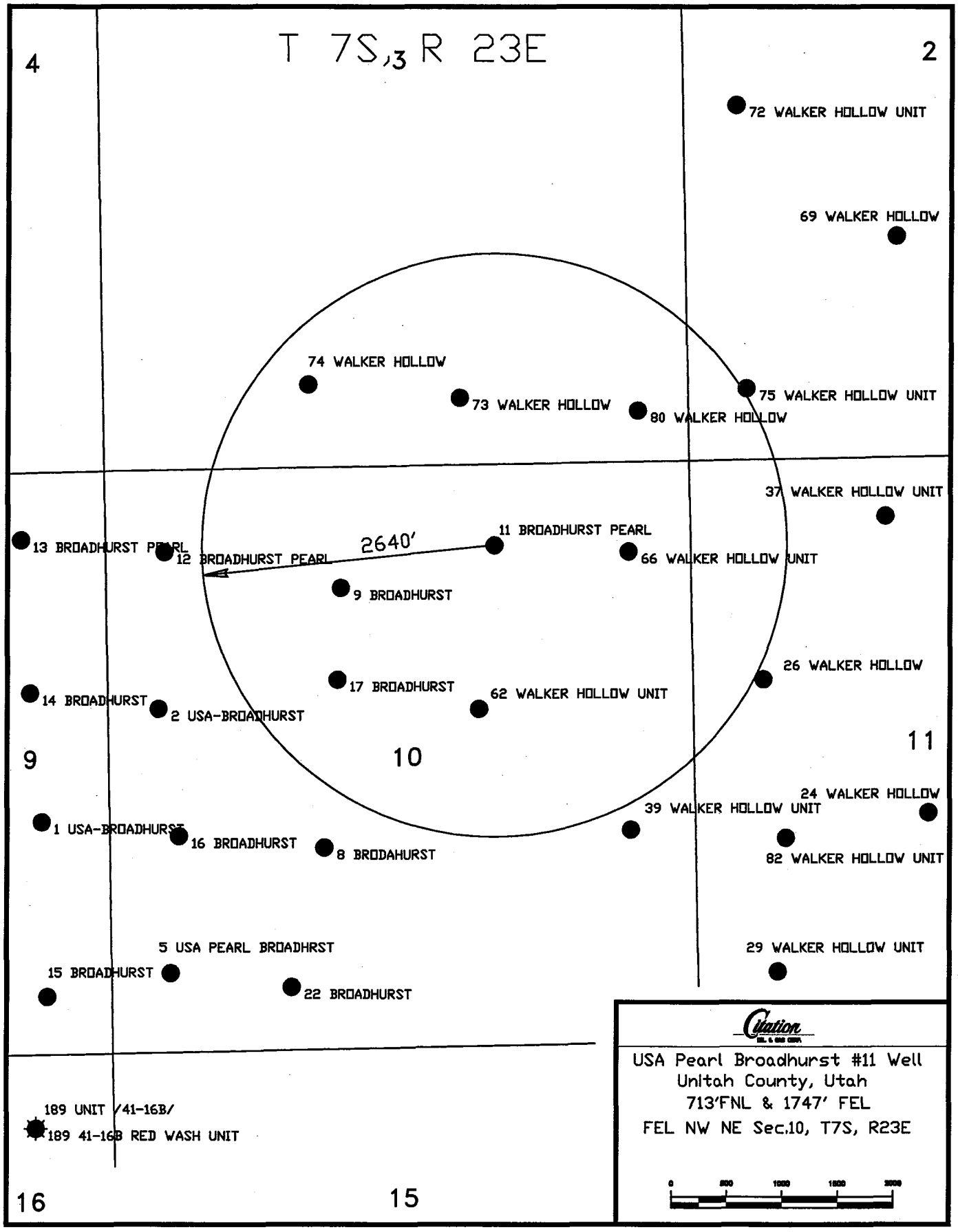
AREA OF REVIEW METHODS

Give the methods and, if appropriate, the calculations used to determine the size of the area of review (fixed radius or equation). The area of review shall be a fixed radius of ¼ mile from the well bore unless the use of an equation is approved in advance by the Director.

The area of review shall be a fixed radius of ½ mile from the USA Pearl Broadhurst #11. Citation Oil & Gas Corp. has chosen to use a fixed radius of ½ mile to satisfy the requirements of both the EPA and the State of Utah.

Attachment A-1	One-half Mile Radius Map
Attachment A-2	Area of Review List of Wells
Attachment A-3	Listing of Surface Owners
Attachment A-4	Certification for Surface Owner Notification
Attachment A-5	Well Location Plat
Attachment A-6	Name(s) and Address(s) of Surface Owners

ATTACHMENT A-1



ATTACHMENT A-2

USA PEARL BROADHURST #11
1/2 MILE AREA OF REVIEW
WALKER HOLLOW FIELD
UINTAH COUNTY, UTAH

API	OPERATOR	WELL NAME	TYPE	STATUS	LEASE NO.	BOND NO.	FIELD	County	TWP/RNG	Section	Qtr/Qtr	FOOTAGES		ELEVATION	PERFORATIONS	TD
43-047-15548	CITATION OIL & GAS CORP	WALKER HOLLOW 26	Injector	Active	SLC-066357	MT0630	WALKER HOLLOW	UINTAH	7S-23E	11	SWNW	2110 FNL	660 FWL	5208 GR	4327-5734	5735
43-047-30914	CITATION OIL & GAS CORP	WALKER HOLLOW 62	Oil	Producing	U-02651	MT0630	WALKER HOLLOW	UINTAH	7S-23E	10	SWNE	2193 FNL	1911 FEL	5233 KB	4611-5396	5555
43-047-31131	CITATION OIL & GAS CORP	WALKER HOLLOW 66	Oil	Producing	U-02651	MT0630	WALKER HOLLOW	UINTAH	7S-23E	10	NENE	792 FNL	541 FEL	5346 GR	4814-5468	5762
43-047-31032	CITATION OIL & GAS CORP	WALKER HOLLOW 73	Oil	Producing	SL 066312	MT0630	WALKER HOLLOW	UINTAH	7S-23E	3	SWSE	630 FSL	2037 FEL	5380 KB	4873-5598	6000
43-047-31031	CITATION OIL & GAS CORP	WALKER HOLLOW 74	Oil	Shut-in	SLC-066357	MT0630	WALKER HOLLOW	UINTAH	7S-23E	3	SESW	772 FSL	1890 FWL	5374 GR	4902-5660	5810
43-04-731182	CITATION OIL & GAS CORP	WALKER HOLLOW 75	Oil	Producing	ML 3175	MT0630	WALKER HOLLOW	UINTAH	7S-23E	2	SWSW	665 FSL	552 FWL	5432 KB	4868-5566	5815
43-047-34757	CITATION OIL & GAS CORP	WALKER HOLLOW 80	Oil	Producing	SL 066312	MT0630	WALKER HOLLOW	UINTAH	7S-23E	3	SESE	460 FSL	460 FEL	5335 GR	5423-5545	5548
43-047-30787	CITATION OIL & GAS CORP	USA PEARL BROADHURT 9	Oil	Producing	U-02651-A	MT0630	WALKER HOLLOW	UINTAH	7S-23E	10	NENW	1072 FNL	2159 FWL	5193 KB	5307-5409	5616
43-047-30840	CITATION OIL & GAS CORP	USA PEARL BROADHURT 11	Oil	Shut-in	U-02651-A	MT0630	WALKER HOLLOW	UINTAH	7S-23E	10	NWNE	713 FNL	1747 FEL	5191 GL	5248-5367	5610
43-047-30905	CITATION OIL & GAS CORP	USA PEARL BROADHURT 17	Oil	Producing	U-02651-A	MT0630	WALKER HOLLOW	UINTAH	7S-23E	10	SENW	2104 FNL	2212 FWL	5162 KB	4597-5322	5402

USA PEARL BROADHURST #11 WELL
UINTAH COUNTY, UTAH
TOWNSHIP 7 NORTH, RANGE 23 EAST

Legal Description	**Surface and Mineral Ownership**	**Working Interest**
Section 2: SW	State of Utah - 100%	CILP IV – 100%
Section 3: S2	Federal – 100%	CILP IV – 100%
Section 10: W2, NWNE	Federal – 100%	COGC – 100%
Section 10: SE, E2NE, SWNE	Federal – 100%	CILP IV – 100%
Section 11: W2	Federal – 100%	CILP IV – 100%

Contacts: State of Utah, (801) 538-5100, Karen
BLM, (801) 539-4001, Ed

ATTACHMENT A-3
(2-3)

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
CASE RECORDATION
(MASS) Serial Register Page

RunDate/Time: 02/10/04 09:32 AM

01 02-25-1920;041STAT0437;30USC185 SEC.
Case Type 288100: ROW-O&G PIPELINES
Commodity 969: OIL & GAS FACILITIES
Case Disposition: AUTHORIZED

Total Acres 0.380

Serial Number UTU--- - 076949

Serial Number: UTU--- - 076949

Name & Address			Int Rel	% Interest
CITATION O&G CORP	PO BOX 690688	HOUSTON TX 772690688	HOLDER/BILLEE	100.000000000

Serial Number: UTU--- - 076949

Mer Twp Rng Sec	STyp SNr Suff	Subdivision	District/Resource Area	County	Mgmt Agency
26 0070S 0230E 010	ALIQ	SWNE;	VERNAL FIELD OFFICE	UINTAH	BUREAU OF LAND MGMT

Serial Number: UTU--- - 076949

Act Date	Code	Action	Action Remarks	Pending Office
04/26/1999	124	APLN RECD	VIA SN	
05/12/1999	104	ADDTL INFO RQSTD		
06/30/1999	103	ADDTL INFO RECD		
07/12/1999	841	CATEGORY 2 COST RECOVERY		
07/14/1999	065	COST RECOV (MON) RECD	$50;	
07/14/1999	971	COST RECOV (PROC) RECD	$265;	
07/26/1999	111	RENTAL RECEIVED	$14.62;THRU 12-31-04	
08/10/1999	307	ROW GRANTED-ISSUED	/A/	
08/10/1999	502	LENGTH IN FEET	1100;	
08/10/1999	504	WIDTH IN FEET (TOTAL)	15;	
08/10/1999	505	DIAMETER OF PIPE	VAR;2-3"	
08/10/2020	853	COMPL/REVIEW DUE DATE	20 YR REVIEW	
12/31/2030	763	EXPIRES		

Serial Number: UTU--- - 076949

Line Nr	Remarks
0001	/A/ SURFACE, STEEL, FUEL GAS AND OIL PIPELINE TO
0002	SERVICE THE BROADHURST LEASE U-02651A

NO WARRANTY IS MADE BY BLM
FOR USE OF THE DATA FOR
PURPOSES NOT INTENDED BY BLM

ATTACHMENT A-3
(3-3)

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
CASE RECORDATION
(MASS) Serial Register Page

RunDate/Time: 02/10/04 09:25 AM

01 03-04-1911;036STAT1253;43USC961
Case Type 286202: ROW-TELEPHONE-TELEGRAPH
Commodity 971: NON-ENERGY FACILITIES
Case Disposition: AUTHORIZED

Total Acres 38.840

Serial Number UTU--- 0 005351

Serial Number: UTU--- 0 005351

Name & Address			Int Rel	% Interest
QWEST COMMUNICATIONS	6912 S QUENTIN # 100	ENGLEWOOD CO 80112	BILLEE	100.000000000
QWEST COMMUNICATIONS	700 W MINERAL AVE	LITTLETON CO 80120	HOLDER	100.000000000

Serial Number: UTU--- 0 005351

Mer Twp Rng Sec	STyp SNr Suff	Subdivision	District/Resource Area	County	Mgmt Agency
26 0060S 0230E 001	ALIQ	E2SE;	VERNAL FIELD OFFICE	UINTAH	BUREAU OF LAND MGMT
26 0060S 0230E 012	ALIQ	E2NE,NESE,W2SE;	VERNAL FIELD OFFICE	UINTAH	BUREAU OF LAND MGMT
26 0060S 0230E 013	ALIQ	W2NE,E2SW,NWSE;	VERNAL FIELD OFFICE	UINTAH	BUREAU OF LAND MGMT
26 0060S 0230E 024	ALIQ	E2W2,SWSW;	VERNAL FIELD OFFICE	UINTAH	BUREAU OF LAND MGMT
26 0060S 0230E 025	ALIQ	SWNW,N2SW;	VERNAL FIELD OFFICE	UINTAH	BUREAU OF LAND MGMT
26 0060S 0230E 025	LOTS	4;	VERNAL FIELD OFFICE	UINTAH	BUREAU OF LAND MGMT
26 0060S 0230E 026	ALIQ	SESE;	VERNAL FIELD OFFICE	UINTAH	BUREAU OF LAND MGMT
26 0060S 0230E 035	ALIQ	E2E2,SWSE;	VERNAL FIELD OFFICE	UINTAH	BUREAU OF LAND MGMT
26 0070S 0230E 010	ALIQ	SENE,NESE,S2SE;	VERNAL FIELD OFFICE	UINTAH	BUREAU OF LAND MGMT
26 0070S 0230E 011	ALIQ	W2NW;	VERNAL FIELD OFFICE	UINTAH	BUREAU OF LAND MGMT
26 0070S 0230E 015	ALIQ	W2NE,E2SW;	VERNAL FIELD OFFICE	UINTAH	BUREAU OF LAND MGMT
26 0070S 0230E 022	ALIQ	NWNE,NENW;	VERNAL FIELD OFFICE	UINTAH	BUREAU OF LAND MGMT

Serial Number: UTU--- 0 005351

Act Date	Code	Action	Action Remarks	Pending Office
10/14/1951	124	APLN RECD		
12/04/1951	132	APPRAISAL/REAPPR APPV	$45;YR	
12/04/1951	307	ROW GRANTED-ISSUED	/A/	
12/04/1951	502	LENGTH IN FEET	42293;	
12/04/1951	504	WIDTH IN FEET (TOTAL)	40;	
05/25/1961	287	PROOF CONST/USE ACPT		
11/29/1963	132	APPRAISAL/REAPPR APPV	$5;YR	
12/08/1966	111	RENTAL RECEIVED	$175;THRU TERM	
12/31/1987	950	COMPLIANCE APPROVED		
12/13/1990	974	AUTOMATED RECORD VERIF		
08/28/1996	940	NAME CHANGE RECOGNIZED	/B/	
02/02/2001	940	NAME CHANGE RECOGNIZED	/C/	
12/31/2001	763	EXPIRES		

Serial Number: UTU--- 0 005351

Line Nr	Remarks
0001	/A/ TELEPHONE LINE TO SERVICE RED WASH OIL FIELD
0002	/B/ FROM MOUNTAIN STATES TEL & TEL TO US WEST
0003	COMMUNICATIONS, INC - 08/28/1996
0004	/C/ FROM US WEST COMMUNICATIONS, INC TO QUEST CORP

NO WARRANTY IS MADE BY BLM
FOR USE OF THE DATA FOR
PURPOSES NOT INTENDED BY BLM

CITATION OIL & GAS CORP.
APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL
U.S.A. PEARL BROADHURST #11
WALKER HOLLOW (GREEN RIVER) FIELD
LEASE # UTU-02651A

ATTACHMENT A – 4

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well
USA Pearl Broadhurst #11

I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

Signed: Sharon Ward
Citation Oil & Gas Corp.
Sharon Ward
Regulatory Administrator

Sworn to and subscribed before me this 20th **day of** February, **2004.**

Notary Public in and for the State of Texas: Renee Harrell

My Commission expires: 3-2-07

RENEE HARRELL
NOTARY PUBLIC
STATE OF TEXAS
EXPIRES
3-2-2007

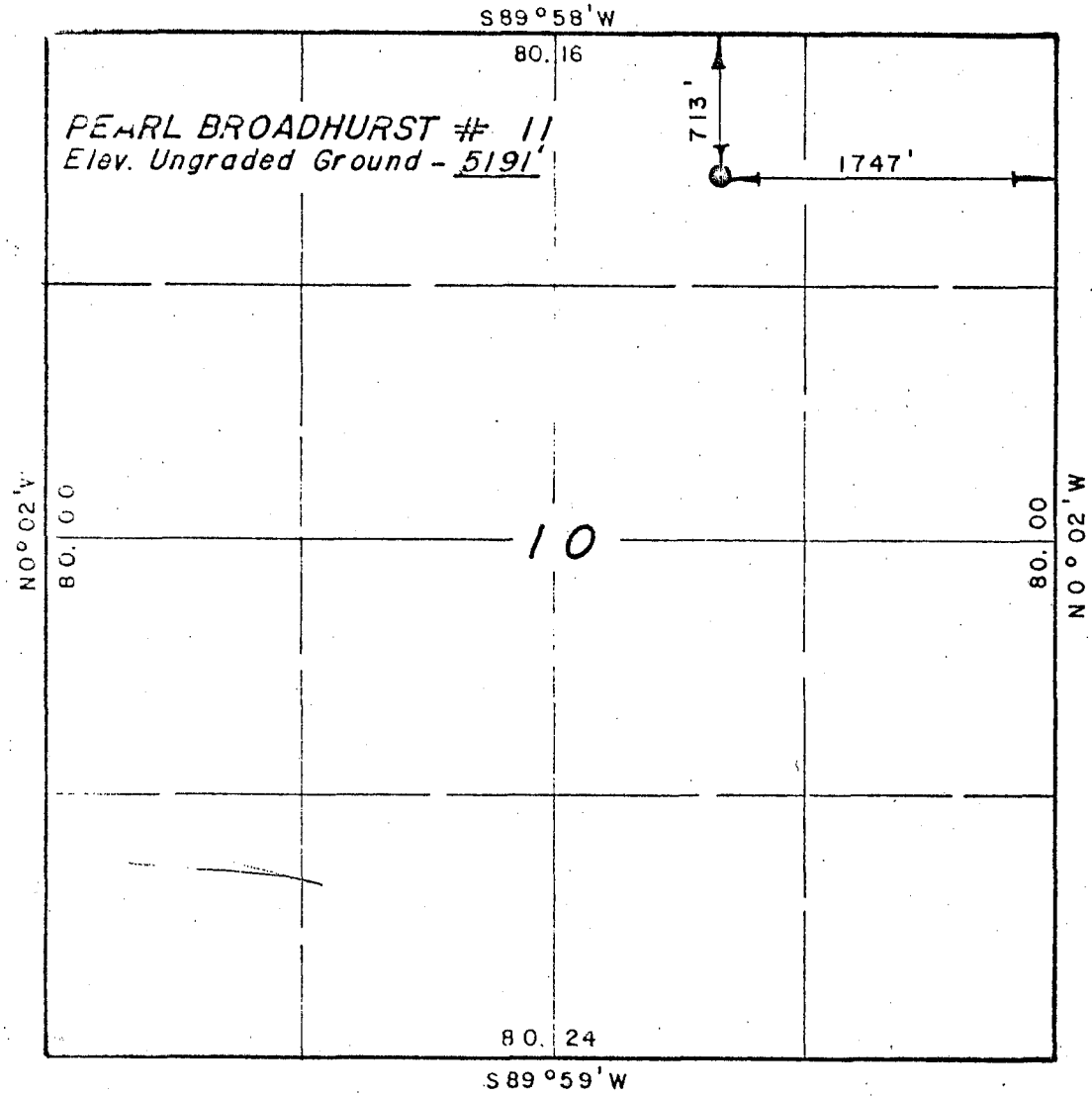
ATTACHMENT A-5

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

PROJECT

ENERGY RESERVE GROUP

Well location, *PEARL BROADHURST # 11*, located as shown in the NW 1/4 NE 1/4 Section 10, T7S, R23E, S.L.B.&M. Uintah County, Utah.



X = Section Corners Located

CERTIFICATE

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

REGISTERED LAND SURVEYOR
REGISTRATION № 3154
STATE OF UTAH

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

SCALE 1" = 1000'	DATE 11/20/80
PARTY GS GS SH JS	REFERENCES GLO Plat
WEATHER Cool/Cloudy/Calm	FILE ENERGY RESERVE

CITATION OIL & GAS CORP.
APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL
U.S.A. PEARL BROADHURST #11
WALKER HOLLOW (GREEN RIVER) FIELD
LEASE # UTU-02651A

ATTACHMENT A – 6

NAMES AND ADDRESSES OF SURFACE OWNERS

TOWNSHIP 7 NORTH, RANGE 23 EAST
SECTION 3: S/2
SECTION 10: W/2, NW NE SE, E/2 NE, SW NE
SECTION 11: W/2

1. USA

TOWNSHIP 7 NORTH, RANGE 23 EAST
SECTION 2: SW

2. STATE OF UTAH
   DIVISION OF OIL, GAS AND MINING
   1594 WEST NORTH TEMPLE, SUITE 1210
   P.O. BOX 145801
   SALT LAKE CITY, UTAH 84114-5801

CITATION OIL & GAS CORP.
APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL
U.S.A. PEARL BROADHURST #11
WALKER HOLLOW (GREEN RIVER) FIELD
LEASE # UTU-02651A

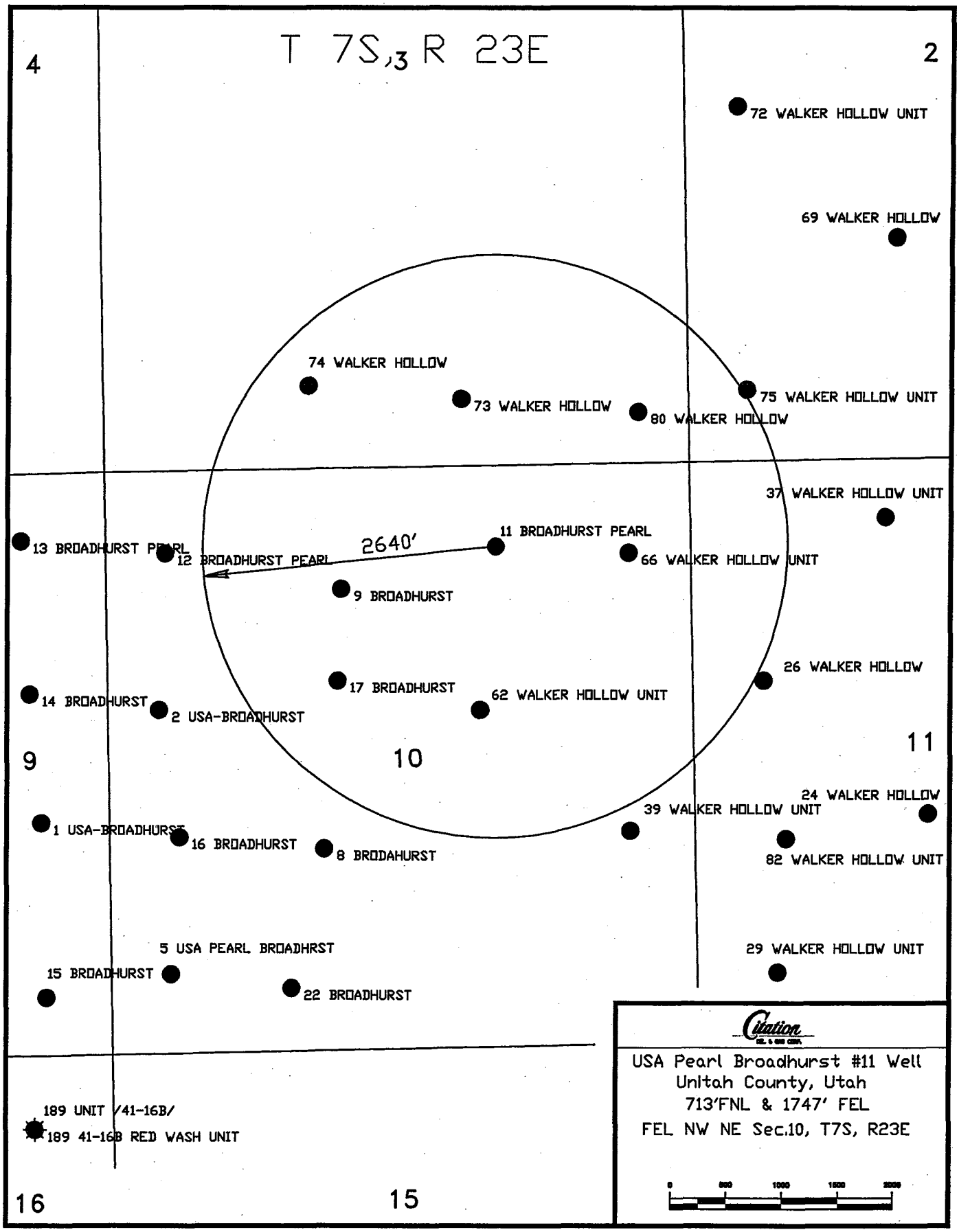
ATTACHMENT B

Submit a topographic map, extending one mile beyond the property boundaries, showing the injection well(s) or project area for which a permit is sought and the applicable area of review.

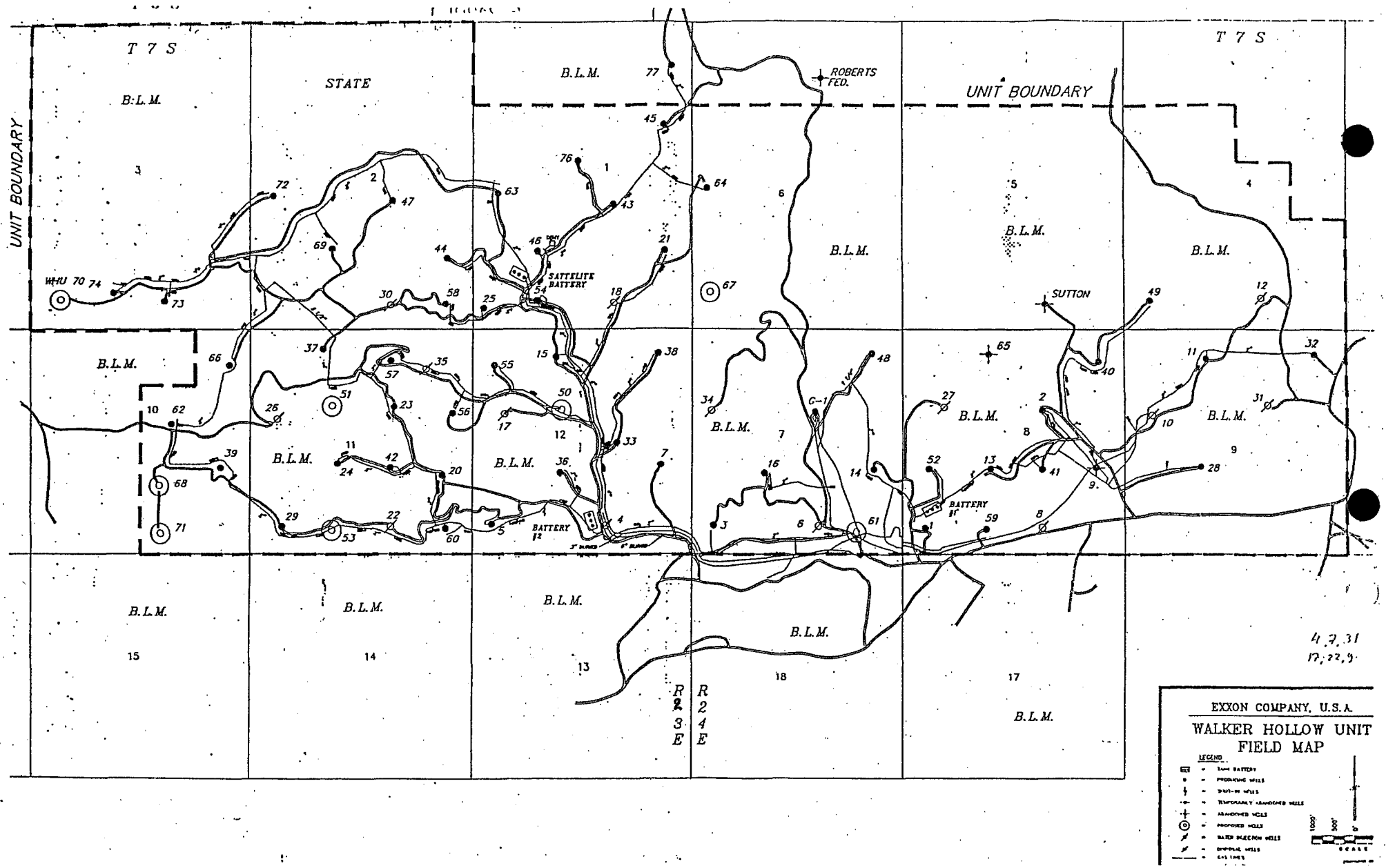
There are no hazardous waste, treatment, storage or disposal facilities within a one-mile radius of the property boundaries.

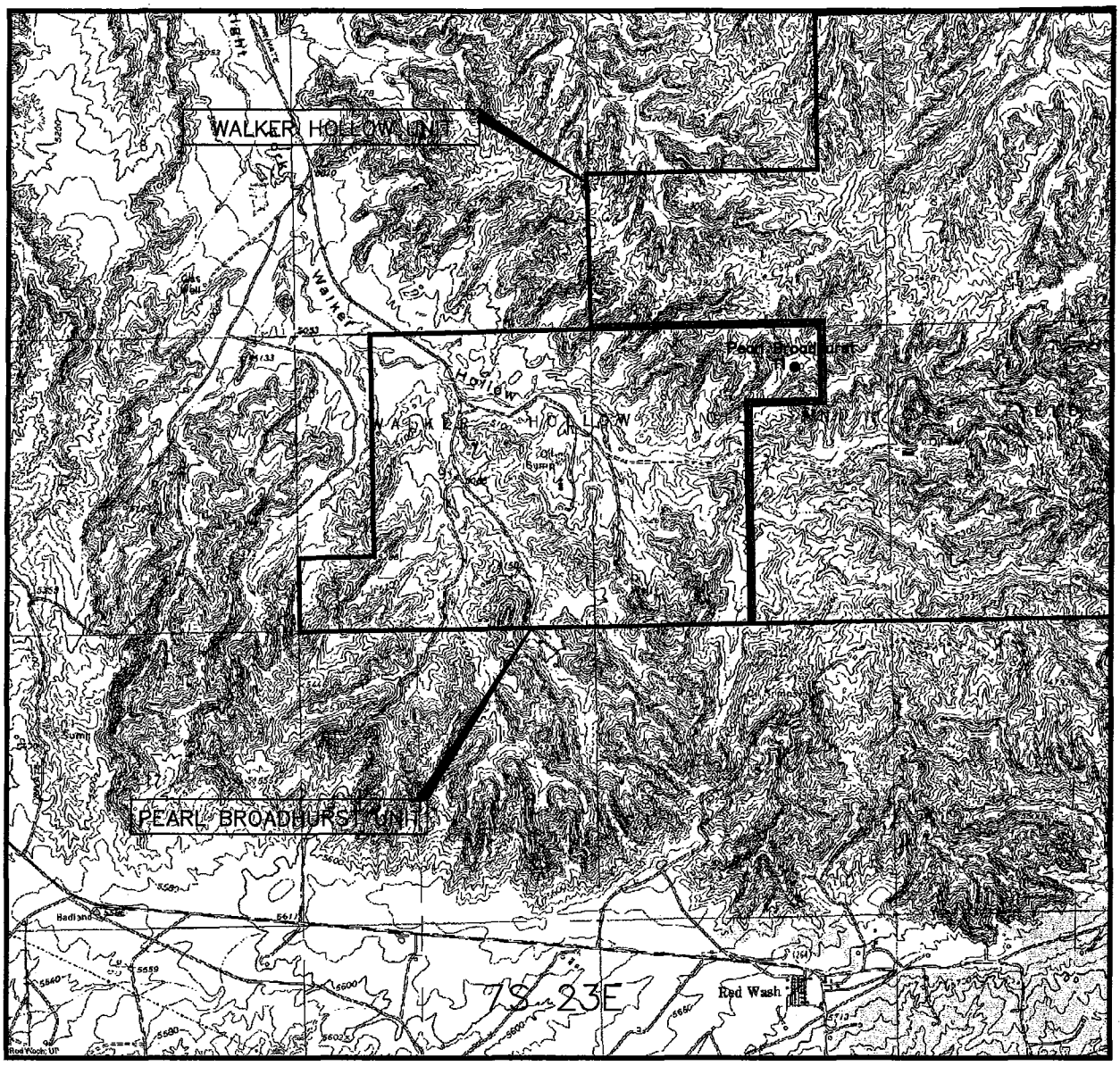
Attachment B-1	Area of Review
Attachment B-2	Proposed and Existing Water Lines
Attachment B-3	Topo map

ATTACHMENT B-1



ATTACHMENT B-2





ATTACHMENT B-3

Citation

PEARL BROADHURST
N 40 13.40 W -111 19.47
Unitah County, Utah

ONE MILE BEYOND PROPERTY BOUNDRY

CITATION OIL & GAS CORP.
APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL
U.S.A. PEARL BROADHURST #11
WALKER HOLLOW (GREEN RIVER) FIELD
LEASE # UTU-02651A

ATTACHMENT C

CORRECTIVE ACTION PLAN AND WELL DATA

Submit a tabulation of data reasonably available form public records or otherwise known to the applicant on all wells within the area of review, including those on the map required in Attachment B, which penetrate the proposed injection zone.

Attachment C-1	Completion Form - Wellbore Diagram – Walker Hollow Unit 26
Attachment C-2	Completion Form - Wellbore Diagram – Walker Hollow Unit 62
Attachment C-3	Completion Form - Wellbore Diagram – Walker Hollow Unit 66
Attachment C-4	Completion Form - Wellbore Diagram – Walker Hollow Unit 73
Attachment C-5	Completion Form - Wellbore Diagram – Walker Hollow Unit 74
Attachment C-6	Completion Form - Wellbore Diagram – Walker Hollow Unit 75
Attachment C-7	Completion Form - Wellbore Diagram – Walker Hollow Unit 80
Attachment C-8	Completion Form - Wellbore Diagram – USA Pearl Broadhurst 9
Attachment C-9	Completion Form - Wellbore Diagram – USA Pearl Broadhurst 11
Attachment C-10	Completion Form - Wellbore Diagram – USA Pearl Broadhusrt 17

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ATTACHMENT C-1
(1-4)

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

5. Lease Serial No.
SLC 066357

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
UTU66837A Walker Hollow Unit

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other **Injection**

8. Well Name and No.
Walker Hollow Unit 26

2. Name of Operator
CITATION OIL & GAS CORP.

9. API Well No.
43-047-15548

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

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

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

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
2110' FNL & 660' FWL; Sec. 11, T7S, R23E; SW NW

11. County or Parish, State
Uintah County, Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☒ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other **Run liner in open hole**
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ 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.)

MIRU. NU BOPE & TOH with tubing. MU 5-1/2" liner & RIH. Ran 2-7/8" tbg inside liner & stung into pack-off bushing. Latched into liner - RIH, tagged @5391' (csg shoe) and drilled out to 5408' - circ'd clean. Drilled to 5449'; dropped thru to 5474'; drilled to 5494' & dropped thru to 5501'. Washed down to 5563' & circ'd hole with polymer fluid. Washed down to 5690' & circulated clean. Circulated 200 bbls polymer fluid. Washed down to 5735' & liner stacked out. Circulated casing & liner clean with 200 bbls water. RU & ran GR tool - tagged btm with WL @5735' - top of liner @5352'. Perforated 5395' - 5724' (4 spf) and RIH with 7" Model "R" pkr, SN 33 jts 2-7/8" tbg, 7" snap pkr & tubing. Pumped packer fluid, set packers and pressure tested annulus to 1000 psi - OK. RDMO and turned well to injection on 1/16/2002. Injecting 1355 BWPD @1160 psi as of 1/21/2002.

RECEIVED
JAN 28 2002

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

Name *(Printed/Typed)*
Debra Harris

Title
Production/Regulatory Coordinator

Signature
Debra Harris

Date
1/23/2002

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by
NOTED

Title

Date SEP 23 2002

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

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.

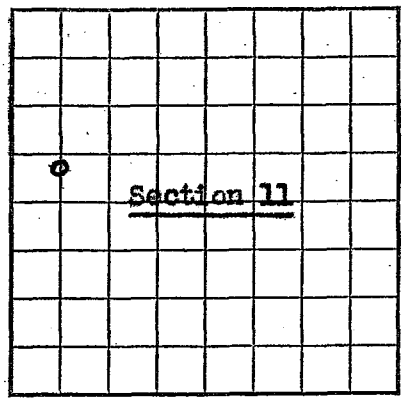
OPERATOR
MBr KV. DH SEW

ATTACHMENT C-1
(2-4)

Form 9-330

Budget Bureau No. 42-R355.2.
Approval expires 12-31-52.

U. S. LAND OFFICE Salt Lake
SERIAL NUMBER
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company The Carter Oil Company Address P. O. Box 591, Vernal, Utah
Lessor or Tract Bamberger Unit Field Walker Hollow State Utah
Well No. 1 Sec. 11 T. 7S R. 23E Meridian County Uintah
Location 2110 ft. {N. / S.} of N Line and 660 ft. {E. / W.} of W Line of Sec. 11 Elevation 5208 GL.
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed COPY ORIGINAL SIGNED H. W. McCORMICK

Date November 5, 1953 Title Dist. Supt.

The summary on this page is for the condition of the well at above date.

Commenced drilling August 3, 1953 Finished drilling October 22, 1953

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 4327 to 4330 No. 4, from 5281 to 5282
No. 2, from 4735 to 4743 No. 5, from to
No. 3, from 5271 to 5277 No. 6, from to

IMPORTANT WATER SANDS

No. 1, from to No. 3, from to
No. 2, from to No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	40.5	8	S-80	524	-	-	-	-	-
7"	23	8	J-55	5391			4327	4330	
							4735	4743	
							5271	5277	
							5281	5282	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4	534	275	Halliburton	-	-
7	5391	425	Halliburton	-	-

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

SHOOTING RECORD

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4	534	275	Hallibuston	-	-
7	3391	425	Halliburton	-	-

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....

Adapters—Material ..... Size .....

SHOOTING RECORD

Size shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from Surface feet to 5754 feet, and from - feet to - feet

Cable tools were used from None feet to ..... feet, and from ..... feet to ..... feet

DATES

November 5, 19 53 Put to producing See Note, 19....

The production for the first 24 hours was 130 barrels of fluid of which 84 % was oil; - % emulsion; 4 % water; and 12 % sediment.

Gravity, °Bé. 29.8° API

If gas well, cu. ft. per 24 hours - Gallons gasoline per 1,000 cu. ft. of gas -

Rock pressure, lbs. per sq. in. -

EMPLOYEES

....., Driller ....., Driller

....., Driller ....., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Surface	2790	2790	UINTA FORMATION: Variegated shales & mudstones, some sandstone beds.
2790	5730	2940	GREEN RIVER FORMATION: Lacustrine shales & sandstones, some ostracodal limestones & siltstones. A few extremely cherty sandstones in the middle portion of the formation.
5730	5754	24	WASATCH FORMATION: Dark maroon shales.

NOTE: Production shown above is from swab test prior to completion. Pumping equipment is being installed at the present and well will be put on production when installation is completed.

ATTACHMENT C-1
(3-4)

Mechanical Integrity Test
Casing or Annulus Pressure Test

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Implementation Section, 8WM-DW
999 18th Street, Suite 500, Denver, CO 80202-2466

EPA Witness: _____ Date 8/16/2001 Time 3:00 am/pm
Test conducted by: MIKE JOHNSON / BIG RED HOT OIL
Others present: N/A

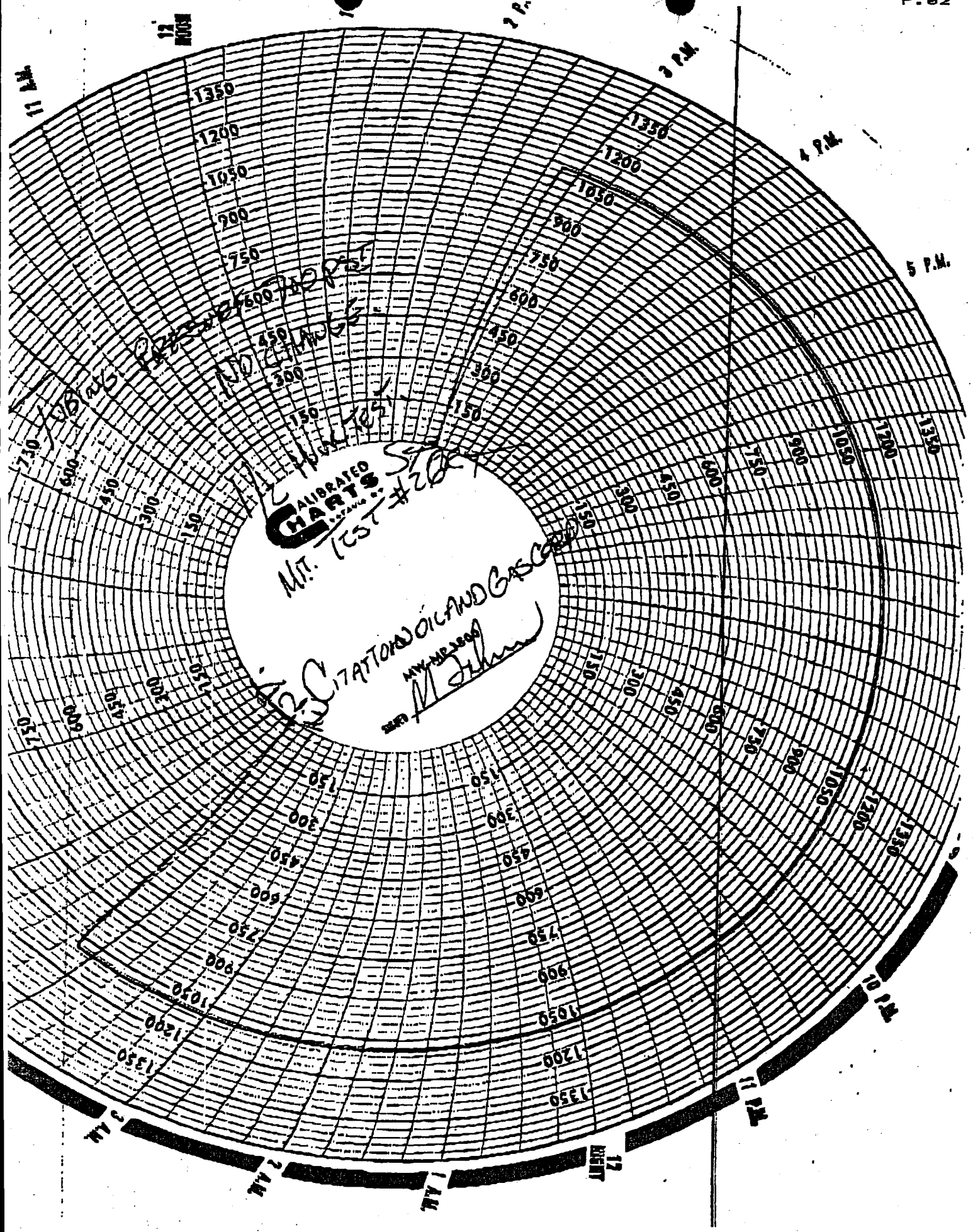
Well: WALKER HOLLOW #26 Well ID:
Field: WALKER HOLLOW Company: CITATION OIL AND GAS
Well Location: Sec. 11, T7S, R23E Uintah County Utah Address:

Time	Test #1	Test #2	Test #3
3:00 min	1100 psig	psig	psig
3:05	1100		
3:10	1100		
3:15	1100		
3:20	1100		
3:25	1100		
3:30 min	1100		
35			
40			
45			
50			
55			
60 min			
Tubing press START	700 psig	psig	psig
NO CHANGE END	700		
Result (circle)	Pass Fail	Pass Fail	Pass Fail

Signature of EPA Witness: Mike Johnson

See back of page for any additional comments & compliance followup.

This is the front side of two sides


12 NOON
11 A.M.
3 P.M.
4 P.M.
5 P.M.
10 P.M.
11 P.M.
12 NIGHT
1 A.M.
2 A.M.
3 A.M.
1350
1200
1050
900
750
600
450
300
150
CALIBRATED CHARTS
MIT. TEST #2
CITATION OIL AND GAS CORP.

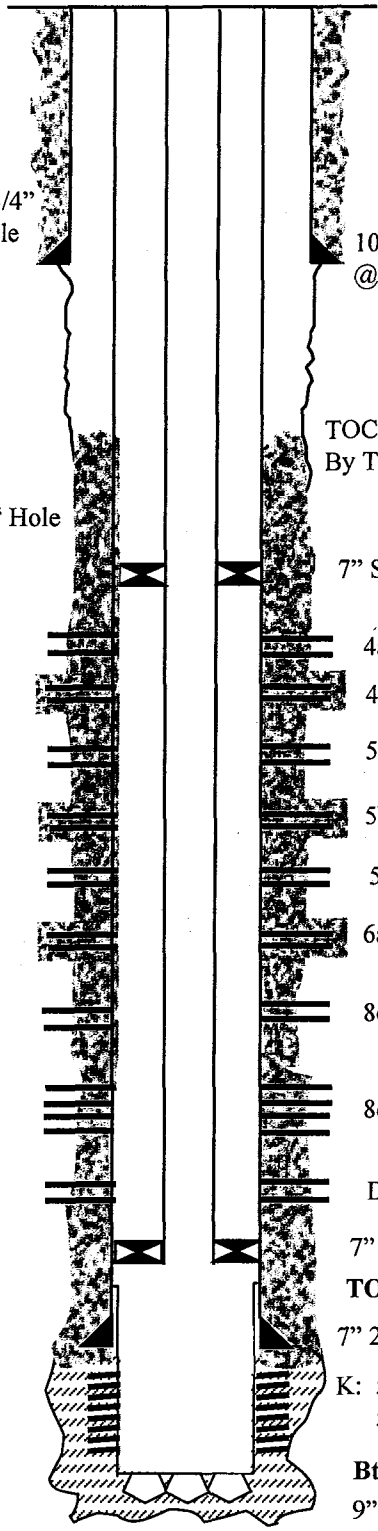
10/16/03

CITATION OIL & GAS CORP.
WALKER HOLLOW UNIT #26 WIW
2110' FNL, 660 FWL, SW NW, Section 11, T-7-S, R-23-E
UINTAH CO., UTAH

ATTACHMENT C-1
(4-4)

KB: 10 FT

Status: Active Water Injection



13-3/4" Hole

10 3/4" 40.5-lb S-80 @ 534 cmt'd W/275 sx

TOC @ 3158' By Temp Survey

9" Hole

7" Snapset PKR @ 4294.70'

4a: 4327 - 30' (6 SPF) **(9/53)**

4c: 4425 - 42' (4 SPF) **(Shot – 4/60) (SQZ'd – 10/71)**

5a: 4685 - 94' (2 SPF) **(8/72)**

5b: 4729 - 31' (6 SPF) **(Shot & SQZ'd – 9/53)**

5c: 4735 - 43' (4 SPF) **(9/53)**

6a: 4812 - 30' (4 SPF) **(Shot & SQZ'd – 4/60)**

8c: 5219-24, & 39 – 43' (2 SPF) **(10/71)**

8d: 5261.5 – 62 (8 SPF), 71 – 77 (6 SPF), 81 – 85 (6 SPF), & 94.5 – 95' (8 SPF) **(9/53)**

DLa1: 5305 – 10 (6 SPF) **(9/53)**

7" R-3 PKR @ 5322.65'

TOL @ 5343'.

7" 23# J-55 @ 5391' cmt'd W/425 sx

K: 5395 - 5406, 10 - 23, 44 - 52, 58 - 78, 5501 - 08, 12 - 19, 69 - 79, 5589 - 06, 24 - 34, 61 – 80, & 5710 - 24' (4 JSPF) **(1/02)**

Btm of Liner @ 5734'.

9" Diameter Open Hole

TD: 5754' : PBTD: 5738'

TUBING DETAIL

Qty	Description	Length	Depth
—	KB (used)	10.00	10.00
137	2 7/8" J-55 6.5#, 8rd EUE IPC tbg	4,278.60	4,288.60
1	7" Snapset PKR	6.10	4,294.70
33	2 7/8" J-55 6.5#, 8rd EUE IPC tbg	1,018.85	5,313.55
1	SN	1.10	5,314.65
1	7" R-3 PKR	8.00	5,322.65

LINER DETAIL

Qty	Description	Length	Depth
—	Liner Top	5343.00	5,343.00
1	7" X 5 1/2" "J" rlsg slv W/entry gd	1.22	5,344.22
1	5 1/2" STCX 5 1/2" Hydril 511 XO	1.55	5,345.77
9	5 1/2" 17# Hydril 511 csg liner	383.74	5,729.51
1	5 1/2" X 4 1/2" XO W/packoff bshg	0.67	5,730.18
1	4 1/2" X 4' csg pup jt	3.88	5,734.06
1	6 1/8" Smith Rock Bit	0.45	5,734.51

Form 1-330
(Rev. 5-63)

ATTACHMENT C-2
(1-2)

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*

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Walker Hollow Unit

8. FARM OR LEASE NAME: Walker Hollow Unit

9. WELL NO.: 62

10. FIELD AND POOL, OR WILDCAT: Walker Hollow Field

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

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

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

2. NAME OF OPERATOR: Exxon Corporation

3. ADDRESS OF OPERATOR: P. O. Box 1600, Midland, Texas 79702

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 2193' FNL & 1911' FEL of Section
At top prod. interval reported below
At total depth

14. PERMIT NO.: -
DATE ISSUED: 4/3/81

12. COUNTY OR PARISH: Uintah
13. STATE: Utah

15. DATE SPUDDED: 7/9/81
16. DATE T.D. REACHED: 7/21/81
17. DATE COMPL. (*Ready to prod.*): 11/17/81
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*: 5233' KB
19. ELEV. CASINGHEAD:

20. TOTAL DEPTH, MD & TVD: 5555'
21. PLUG, BACK T.D., MD & TVD:
22. IF MULTIPLE COMPL., HOW MANY*:
23. INTERVALS DRILLED BY: ROTARY TOOLS 0-5555' CABLE TOOLS:

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
4611'-4621' Green River 5AA 5292'-5306' Green River 8d
4691'-4702' " " 5b
5224'-5243' " " 8c

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: FDC/CNL, RFT DIL, Cyberlook

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
9 5/4"	36#	386'	12 1/4"	250 sx Class G	
7"	20#, 23#	5541'	8 3/4"	1000 sx Class G	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"	5323'	
1 1/4"	3468'	

31. PERFORATION RECORD (*Interval, size and number*)
4611'-4621' 2" gun, 4 spf 5400'-5405'
4691'-4702' " " 4" gun, 4 spf
5224'-5243' 4" gun, 4 spf 5533'-5548'
5292'-5306' " " 4" gun, 4 spf
5390'-5396' " "

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5390'-5405'	Sqz w/100 sx Class HC cmt
5533'-5545'	Sqz w/100 sx Class H cmt
4611'-4702'	3600 gals 15% HCl
5224'-5306'	6600 gals 15% HCl

33.* PRODUCTION

CIBP @ 5454'

DATE FIRST PRODUCTION: 11/16/81
PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*): Pumping
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
11/17/81	24		→	104		18	

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

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

RECEIVED
DEC 15 1981
ACCOUNTING
CENTRAL FILE ROOM

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

SIGNED Darrell L. Call TITLE Accountant DATE 12-11-81

*(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.)

RECEIVED 1987

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Green River 4A	4304'	
4B	4369'	
5B	4689'	
6C	4868'	
7B	4986'	
8C	5221'	

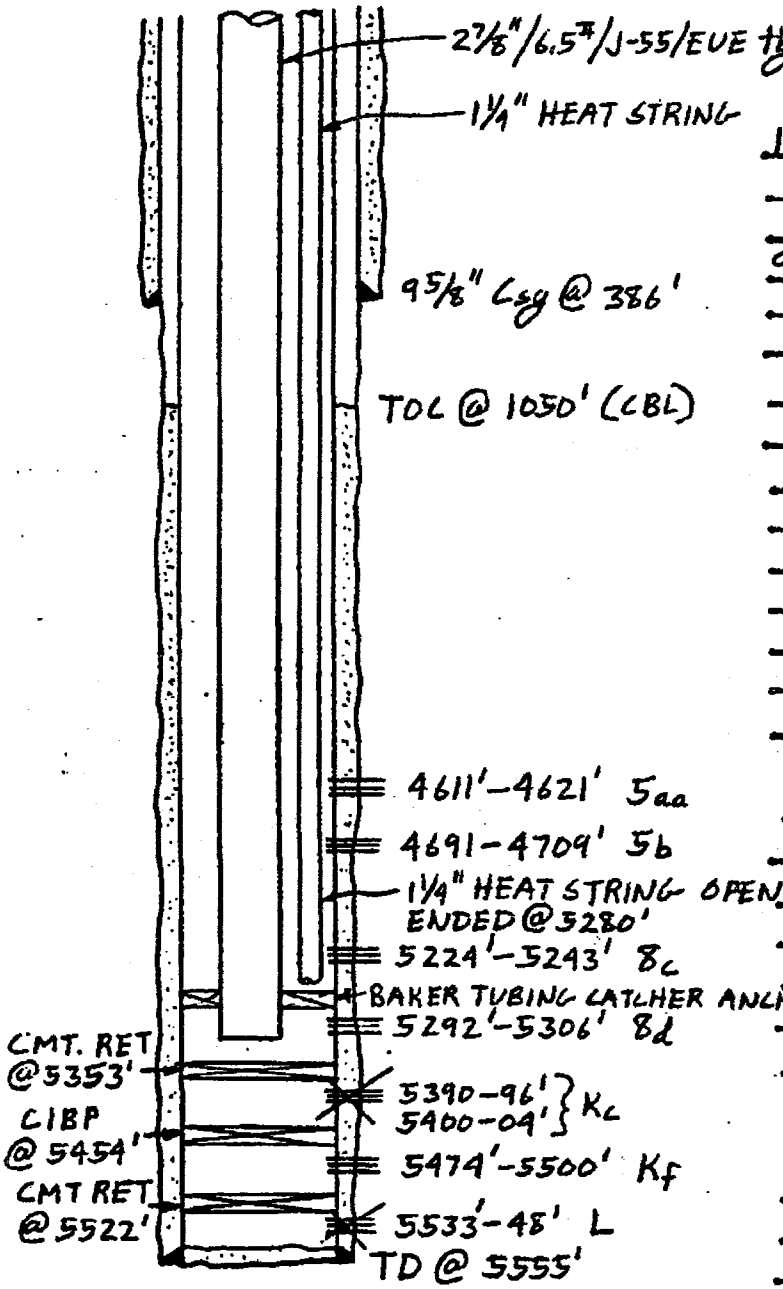
U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636
837-497

ATTACHMENT C-2
(2-2)

#62

WELL: Walker Hollow Walker Hollow Unit 62
LOCATION: NE Sec. 10, T7S, R23 UINTAH CO, UTAH
ELEVATIONS: GL - 5220' DF - KB - 5233'
WORKOVER OBJECTIVE: Clean out $CaCO_3$ in wellbore and squeeze inhibitor into the formation.

CASING RECORD	SXS. CMT.
9 5/8"/36#/K-55/STC 0-386'	200
7"/20#/K-55/STC 0-4300'	1000
7"/23#/K-55/STC 4300'-5541'	



WORKOVER RECORD

11/81 - Initial Completion: 5aa, 5b, 8c, & 8d are open & acidized. Zone 8c was only zone frac'd.

9/82 - WorkOver - Clean $CaCO_3$ out of the wellbore & inhibitor squeeze the formation

ADDITIONAL INFORMATION

DATE: 1-25-83

BY: JEA

ATTACHMENT C-3
(1-3)

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: U-2651
6. If Indian, Allottee or Tribe Name:
7. If Unit or CA, Agreement Designation: Walker Hollow
8. Well Name and No.: Walker Hollow Unit #66
9. API Well No.: 47-047-31131
10. Field and Pool, or Exploratory Area: Green River Walker Hollow
11. County or Parish, State: Uintah County, UT

1. Type of Well: [x] Oil Well [ ] Gas Well [ ] Other
2. Name of Operator: Citation Oil & Gas Corp.
3. Address and Telephone No.: 8223 Willow Place South Ste 250 Houston, Texas 77070 713-469-9664
4. Location of Well (Footage, Sec., T., R., M., or Survey Description): 792' FNL & 541' FEL of Section 10, T7S, R23E SLB & M NE NE

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

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[x] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[x] Other add perforation & stimulate	[ ] 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.)*

Citation Oil & Gas Corp. Tagged PBTD @ 5469'. Pumped 50 bbls NGL dn tbg. Swabbed back. RU WL. Perforated 4868'-72, 4830'-40, 4814'-20' w/4" gun, 4 spf 90° phasing. TIH w/PPI w/12' spacing, hydro tested to 6000 psi. Set PPI above perfs and tested to 1000 psi, OK. Treated all perfs w/50 gal/ft 15% KCI w/10 gal/1000 gal Oasis 28 + additives. After last set displaced to pkr w/2% KCI. Swabbed. TIH w/production string. Landed w/SN @ 5388', TAC @ 4728'. TIH w/1 3/4" pump and rods. Placed well on production.

TEST: 17 BOPD, 4 MCFPD, 20 BWPD, FTP 170 psi, CP 170 psi.

RECEIVED
MAY 14 1996

RECEIVED
MAY 02 1996

MDB, KK, WF

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

Signed Sharon Ward Title Regulatory Supv. Date 4-29-96

(This space for Federal or State office use)

Approved by NOTED Title Date MAY 09 1996
Conditions of approval, if any:

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

*See Instruction on Reverse Side

0

Form 9-330
(Rev. 5-63)

ATTACHMENT C-3
(2-3)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE (See 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 [X] GAS WELL [ ] DRY [ ] Other

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

2. NAME OF OPERATOR: Exxon Corporation

3. ADDRESS OF OPERATOR: P. O. Box 1600, Midland, Texas 79702

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface 792' FNL & 541' FEL of Section
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: U-02651
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME: Walker Hollow
8. FARM OR LEASE NAME: Walker Hollow Unit
9. WELL NO.: 66
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. | DATE ISSUED
12. COUNTY OR PARISH: Uintah
13. STATE: Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
7-30-82	8-15-82	12-23-82	5361' KB, 5346' GR	

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5762'			→		0-5762'

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Green River 5aa, $5a_2$, 8c, 8d, La_1, Kb 4794'-5554'

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL, FCL, FDC/CNL, RFT

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
20"		40'			
9 5/8"	36# K-55 STC	407'	12 1/4"	200 sx 50-50; 50 sx Class H	
7"	20,23# K-55 STC	5748'	7"	675 sx Lite; 425 sx Class H	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"	5690'	

31. PERFORATION RECORD (*Interval, size and number*)
5477'-5486' 4" csg gun 2 spf
5507'-5527' " " " " "
5542'-5554' " " " " "
5408'-5441' " " " " "
4794'-4887' " " " 4 spf

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5477'-5554'	6200 gals K-1 pad & 400 gal 2% KCl
5408'-5441'	8000 gal K-1 polymulsion frac
4794'-4887'	3000 gal HCl acd

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
12-17-82	Pumping	producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
12-23-82	24		→	47		0	

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

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)
Used for fuel

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

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

SIGNED Shari H. Armstrong TITLE Accountant DATE January 10, 1983

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

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

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

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

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

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

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

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Green River 4a	4490'	
4b	4550'	
4c	4604'	
5b	4898'	
6a	4990'	
6b	5007'	
7a	5105'	
7c	5222'	
8a	5310'	
8b	5330'	
La_1	5497'	

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636
837-497

ATTACHMENT C-3
(3-3)

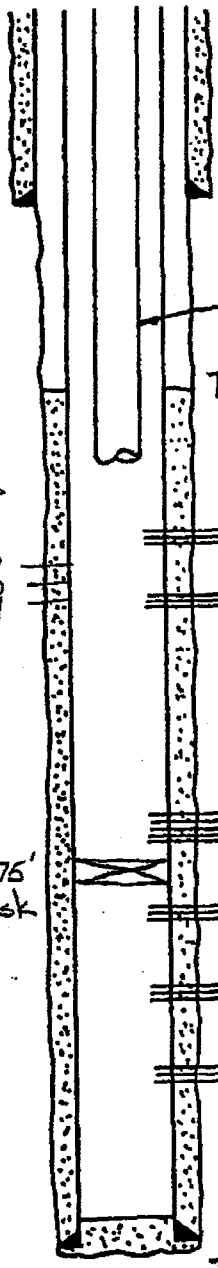
WALKER HOLLOW NO. 66

AFE No. 62627
Sec. 10, T 7S, R 23 E

KB = 5361
GL = 5346
DF =

DEPTH	TBG CSG	SIZE/WT./GRADE	CLPSE*	BURST*	TEN**
0-407'	CSG	9 5/8"/36#/K-55	1800	3230	—
0-4300'	CSG	7"/20#/K-55	2020	3440	—
4300'-5748'	CSG	7"/23#/K-55	2900	4030	—
	TBG	2 7/8"/6.5#/J-55	6830	6880	74,80

* Safety Factor = 1.125 (PSI)
** Safety Factor = 1.333 (lbs.)



9 5/8" Csg @ 407'

2 7/8" tbg

TOC = 3200' (Temp. Survey)

Green River D

(Du5) Interval		feet	# perfs
5AA	old	11	44
5AB	new	7	28
5A1	new	11	44
5B	new	7	28
5B	old	11	44
		Σ 47'	Σ 188 perfs

New perfs

5AB 4814-20
5A1 4830-40
5B 4858-64

4 spf
4794-4804' 5aa acid
4 spf
4877-4887' 5b acid
} 50 bopd post acid

ISIP 1200

(Du 8) Interval	feet	# perfs
24 A	10	20
48 perfs	8	16
	6	12

2 spf
5408-5417'
5419-5426'
5436-5441'
} 8c frac'd 64% H_2O post frac

Frac w/ 800 gal 15% N
8M gal gel, 8M sand
ISIP 1080; 930; 810, 690 psi

CIBP 5475' 9-82 w/1 sk

5477-5486' 8d frac'd 98% H_2O post frac

5507-5513'
5523-5527'
} La, frac'd 98% H_2O post frac

5542-5554' K_b frac'd 95% H_2O post frac

PBTD = 5680' ±

7"/23# Csg @ 5748' w/ 1100 sx cmt

TD = 5763' 8-82

JEA
8-27-82

ATTACHMENT C-4

Form 3160-5
November 1983)
Formerly 9-331)

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 XX GAS WELL ☐ OTHER

2. NAME OF OPERATOR: Exxon Corporation Attn: Permits Supervisor

3. ADDRESS OF OPERATOR: P.O. Box 1600, Midland TX 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 630' FSL and 2037' FEL of Sec.3

5. LEASE DESIGNATION AND SERIAL NO.: SL-066312

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Kienitz Federal

9. WELL NO.: 3

10. FIELD AND POOL, OR WILDCAT: Walker Hollow

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 3, T7S, R23E

14. PERMIT NO.: 43-047-30897

15. ELEVATIONS (Show whether DF, RT, GR, etc.): KB - 5380'

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	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			☐
(Other) Name Change			X	(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.)*

To remain consistent with production reporting Exxon would like to change the name of this well from the Walker Hollow #73 back to the Kienitz Federal #3.

RECEIVED
JUN 15 1988
ACCOUNTING
CENTRAL FILE ROOM

MAY 1988

GEK 6/1/88

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

SIGNED S. Johnson Stephen Johnson TITLE Administrative Specialist DATE 05-12-88

(This space for Federal or State office use)

APPROVED BY [signature] TITLE ASSISTANT DISTRICT MANAGER MINERALS DATE JUN 3 1988

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

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

Form 9-330
(Rev. 5-63)

ATTACHMENT C-4
(2-3)

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 [X] GAS WELL [ ] DRY [ ] Other

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

2. NAME OF OPERATOR: Exxon Corporation

3. ADDRESS OF OPERATOR: P. O. Box 1600, Midland, Texas 79702

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 630' FSL & 2037' FEL of Section
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: SLC-066312
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME: Kienitz Federal
9. WELL NO.: 3
10. FIELD AND POOL, OR WILDCAT: Walker Hollow
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 3, T7S, R23E

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
-	7-27-81	Uintah	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
8-28-81	9-11-81	4-25-82	5380' KB	

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
6000'			→	0-6000'	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Green River 5a through LA_1 4873'-5627'

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: FDC/CNL, RFT, Cyberlook

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
9 5/8"	36	362'	12 1/4"	250 sx Class G	
7"	20 & 23	5998'	8 3/4"	970 sx Class G	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"	5645'	
1 1/4"	3574'	

31. PERFORATION RECORD (*Interval, size and number*)
4873'-5060' 2" gun 4 spf
5510'-5516' 5605'-5609
5518'-5526' 5613'-5617' 4" gun 4 spf
5568'-5588' 5621'-5627'
5593'-5598'

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5510'-5627'	4000 gal 15% HCl
4873'-5060'	4000 gal 15% HCl

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
4-21-82	Pumping 1 3/4" Pump	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
4-25-82			→	120		25	

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

RECEIVED
MAY 17 1982

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

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

SIGNED Darrell L. Call TITLE Sr. Accountant DATE May 13, 1982

*(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 agenc 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 l 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 Feder 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.), form tion and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachmen 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 Sta 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 producir 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 identifie for each additional interval to be separately produced, showing the additional data pertinent to such interval.

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

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

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38. GEOLOGIC MARKERS

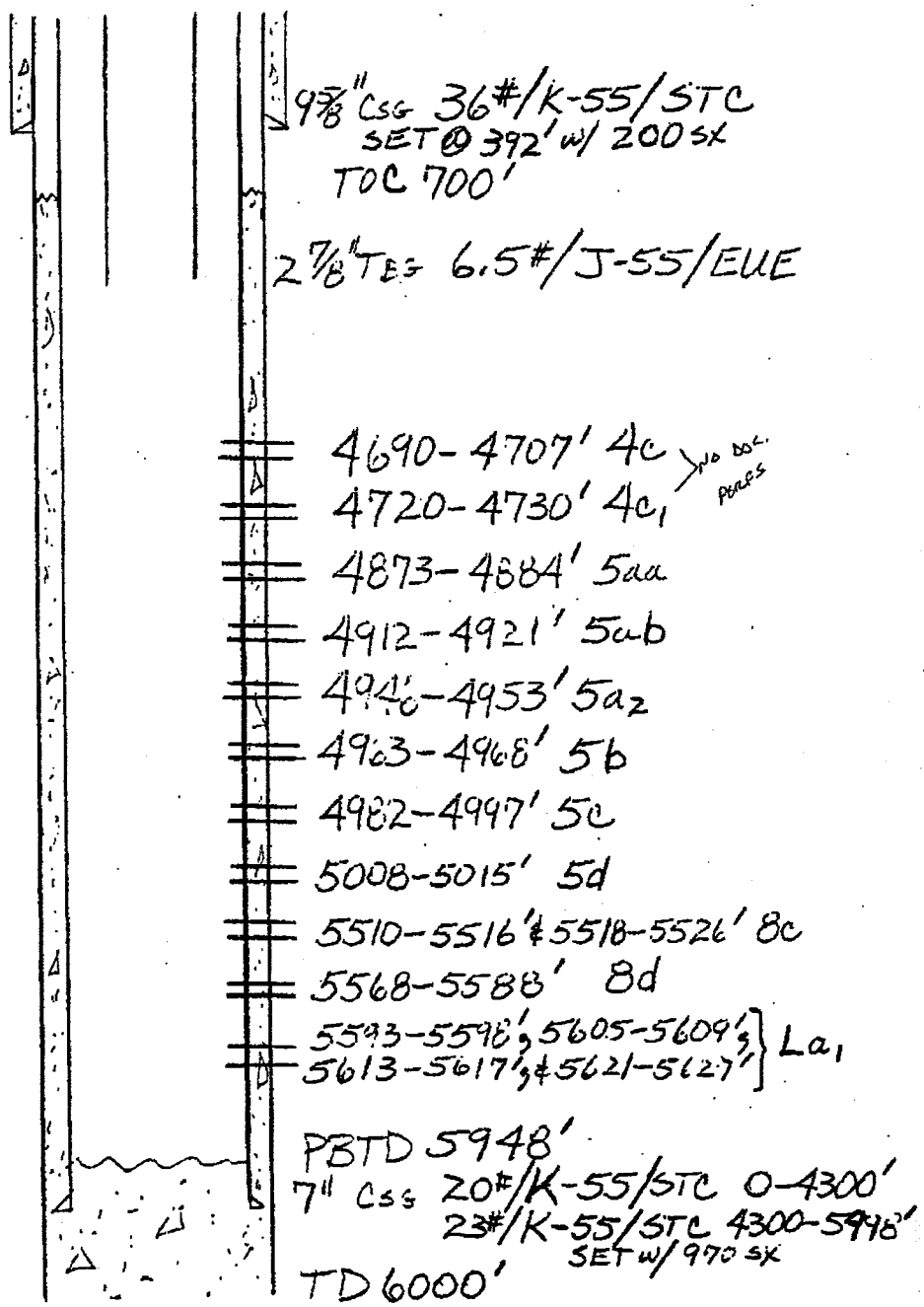
NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPT
Green River 4a	4558'	
4b	4612'	
5b	4956'	
6a	5078'	
7c	5314'	
8d	5566'	

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636
837-497

ATTACHMENT C-4
(3-3)

WALKER HOLLOW UNIT 73

KIENITZ FEDERAL #3



JPB
9-25-81

Form 3160-5
(August 1999)

ATTACHMENT C-5
(1-3)

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

5. Lease Serial No.
SL 066357

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

RECEIVED
JUL 03 2000

8. Well Name and No.
Walker Hollow Unit #74

2. Name of Operator
CITATION OIL & GAS CORP.

9. API Well No.
43-047-31031

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

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

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

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
772' FSL & ~~1980'~~ 1890' FWL; Sec. 3, T7S, R23E; SE SW

11. County or Parish, State
Uintah County, Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☒ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☒ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other _____
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	_____
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ 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.)

MIRU. Pumped 120 bbls hot wtr down annulus & 30 bbls NGL down tbg. Pumped 40 bbls hot wtr down tbg & POOH with 97 rods - waxed off. Backed off rods & POOH with 51 rods. ND WH/NU BOP. Stripped out of hole with rods & tbg. RIH with 5-7/8" bit, 7" scraper, SN & 2-7/8" tbg. Tagged PBTD @5728'. Flushed tbg with hot wtr & NGL. POOH, tbg parted @top of pin. Left 29 jts tbg & BHA in hole w/collar looking up - TOF @4738.13'. RIH with O-S & bumper sub to TOF. caught fish & POOH to O-S - tbg waxy; pumped 40 bbls hot wtr down tbg. Att'd to RIH with 7" Model "R" pkr - couldn't get past 2' below csg top. ND BOP; csg had tight spot 20" down from top csg thread. NU BOP - hydro-tested in hole to 6000 psi with 7" inflatable pkr, on-off tool, SN & 2-7/8" tbg - no leaks. Set pkr @5496' & loaded annulus with 70 bbls 2% KCl - tested to 1000 psi; ok. RU Halco, stimulated perfs 5547' - 5660' with 2900 gals 7.5% FE acid + adds. Displ'd to top perf with 2% KCL ITR; 5 bpm @1100 psi. Attempted to release PIP - unsuccesful. RU WLS and perf single hole in PIP mandrel. POOH with 2-7/8" tbg & pkr. RIH with 2-7/8" production tubing, landed SN @5674'; TAC @5675'; EOT @5710'. ND BOP; NU WH & RIH with 1-3/4" RHAC. Seated pump & hung well on. Well returned to production 6/16/00. As of 6/20/00 well producing 8 BO, 268 BW & 0 Mcf in 24 hrs.

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

Name *(Printed/Typed)*
Debra Harris

Title
Regulatory Analyst

Signature
Debra Harris

Date
6/28/2000

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title
NOTED

Date JUL 19 2000

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

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.

OPERATOR

(Rev. 5-63)

ATTACHMENT C-5
(2-3)

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 [X] GAS WELL [ ] DRY [ ] Other

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

2. NAME OF OPERATOR: Exxon Corporation

3. ADDRESS OF OPERATOR: P. O. Box 1600, Midland, Texas 79702

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface 772' FSL & 1890' FWL of Section
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: SLC-066357

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Walker Hollow

8. FARM OR LEASE NAME: *Walker Hollow

9. WELL NO.: 74

10. FIELD AND POOL, OR WILDCAT: Walker Hollow

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 3, T7S, R23E

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

14. PERMIT NO.: -

DATE ISSUED: 8-19-81

15. DATE SPUDDED: 9-15-81

16. DATE T.D. REACHED: 9-26-81

17. DATE COMPL. (*Ready to prod.*): 8-31-82

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*: 5388' KB; 5374' GL

19. ELEV. CASINGHEAD:

20. TOTAL DEPTH, MD & TVD: 5810'

21. PLUG, BACK T.D., MD & TVD:

22. IF MULTIPLE COMPL., HOW MANY*:

23. INTERVALS DRILLED BY: → ROTARY TOOLS: 0-5810' CABLE TOOLS:

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Green River 5aa, 5b, 5c, 6b, 8c, 8d, La_1, 4902'-5660'

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: FDC-GR, CNL, Cyberlook, DIL

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
9 5/8"	36#	360'	8 3/4"	200 sx Class G	
7"	20, 23#	5702'	8 3/4"	450 sx Class G	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"	5751'	

31. PERFORATION RECORD (*Interval, size and number*)
4902'-4926'
4996'-5000'
5026'-5032'
5132'-5142'
5144'-5150'
5547'-5582'
5616'-5636'
5645'-5660'
4" casing gun
4 SPF

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5645'-5660'	2600 gal 15% HCl ac
4996'-5000'	3200 gal 15% HCl ac
perfs 4902' thru 5150'	Sqz w/40 sx cmt.

33.* PRODUCTION

DATE FIRST PRODUCTION: 8-8-82

PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*): Pumping

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
8-31-82	24		→	55	TSTM	15	

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

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Used for fuel

TEST WITNESSED BY:

35. LIST OF ATTACHMENTS:

RECEIVED
SEP 22 1982
ACCOUNTING

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

SIGNED Shari L. Armstrong TITLE Accountant DATE Sept. 16, 1982

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

*Previously Bamberger Federal #1

INSTRUCTIONS

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

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

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

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

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

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

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Green River Kd	5733'	
" " La	5636'	
" " 8b[1]	5476'	
" " 7a	5236'	
" " 6b	5137'	
" " 5b	4995'	
" " 4d	4790'	
" " 4a	4594'	

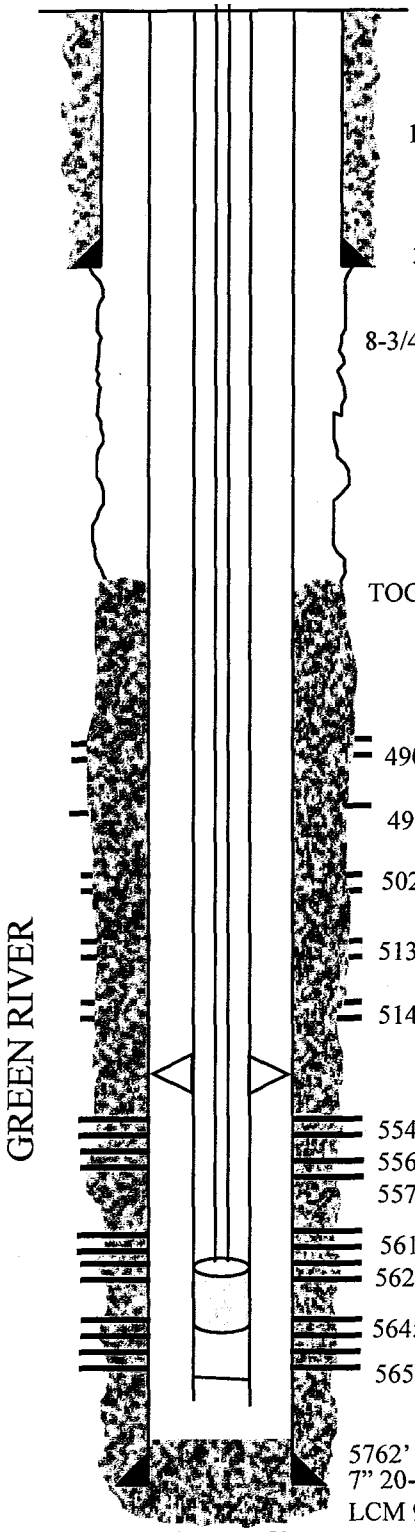
U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636
837-497

ATTACHMENT C-5
(3-3)

CITATION OIL & GAS CORP.
WALKER HOLLOW UNIT #74
772' FSL, 1890' FWL, (SE/SW) Sec. 3-T7S-R23E
UINTAH CO., UTAH

KB: 14 FT
GL: 5374 FT
Present Status: SI 12-99

API NO.:



12-1/4" bit

360' 9-5/8" 36-lb with 200 sx, circulated, 9-81

8-3/4" bit

Tbg as of 3-97: 177 jts 2-7/8" J-55
TAC with 40K pins at 5488'
6 jts 2-7/8" J-55, 185'
SN landed at 5676'
1 jt 2-7/8" J-55
Barred collar at 5709'

TOC @ 2750' (CBL)

Rods as of 10-97: 77- 1" D
74 - 7/8" D
65 - 3/4" D
10 - 1" D
2-1/2" x 1-3/4" x 20' x 22-1/2' RHAC

4902-26' D5aa, 4 spf & acid 3-82, sqz'd 7-82

4996-5000' D5b, 4 spf & acid 3-82, sqz'd 7-82

5026-32' D5b, 4 spf & acid 3-82, sqz'd 7-82

5132-42' D6a, 4 spf & acid 3-82, sqz'd 7-82

5144-50' D6a, 4 spf & acid 3-82, sqz'd 7-82

5547-58'
5560-66' } D8c, 4 spf & acid, 3-82
5570-82'

D8c through Dla frac stimulated commingled with sand/oil frac 5-84.

5616-24'
5627-36' } D8d 4, spf & acid, communicated to D8c, 3-82

5645-50'
5652-60' } DLa1, 4 spf & acid, communicated to D8d, 3-82

5762'
7" 20-lb (0-4300'), 23-lb (4300-5762'), K-55, with total 886 sx with light additives and LCM 9-81

PBTD: 5758'
TD: 5810'

Form 9-330
(Rev. 5-63)

ATTACHMENT C-6
(1-2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE (See 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 [X] GAS WELL [ ] DRY [ ] Other

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

2. NAME OF OPERATOR: Exxon Corporation

3. ADDRESS OF OPERATOR: P. O. Box 1600, Midland, Texas 79702

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface 552' FWL & 665' FSL of Section
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: ML-3175
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME: Walker Hollow
8. FARM OR LEASE NAME: Walker Hollow
9. WELL NO.: 75
10. FIELD AND POOL, OR WILDCAT: Walker Hollow
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 2, T7S, R23E
12. COUNTY OR PARISH: Uintah
13. STATE: Utah
14. PERMIT NO. / DATE ISSUED:

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
9-9-82	9-20-82	11-18-82	5432' KB	

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5815'		-	→	0-5815'	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Green River 8a, 8c, 5ab, 5aa 4868'-5566'

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL, FDC-CNL, RFT, Caliper

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
20"		40'			
9 5/8"	36# K55 ST&C	412'	12 1/4"	200 sx 50-50 poz A	
				50 sx Class H	
7"	20,23# k55 ST&C	5802'		1175 sx Class H	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"	5516'	

31. PERFORATION RECORD (*Interval, size and number*)
5556'-5566' 4" csg gun 2 spf
5488'-5514' " " " " "
4906'-4912' " " " 4 spf
4868'-4877' " " " " "

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5556'-5566'	6200 gal polymulsion frac
5488'-5514'	8000 gal polymulsion frac
4906'-4912'; 4868'-4877'	1500 gal Ne acid & 300 gal 2% KCl wtr, 200# NC-80 & 200# rock salt

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
11-16-82	Pumping	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
11-18-82	24	8/64	→	193	Trace	22	

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
	600#	→				

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)
Used on lease for fuel

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

RECEIVED
DEC 30 1982
ACCOUNTING
CENTRAL FILE COPY

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

SIGNED Shari H. Armstrong TITLE Accountant DATE December 16, 1982

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.
Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.
Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.
Item 29: "*Sacks Cement*": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.
Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Green River 4a	4571'	
4b	4641'	
4c	4683'	
5b	4970'	
6a	5075'	
6b	5104'	
7a	5180'	
7c	5309'	
8a	5392'	
8b	5413'	
La_1	5998'	

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636
837-497

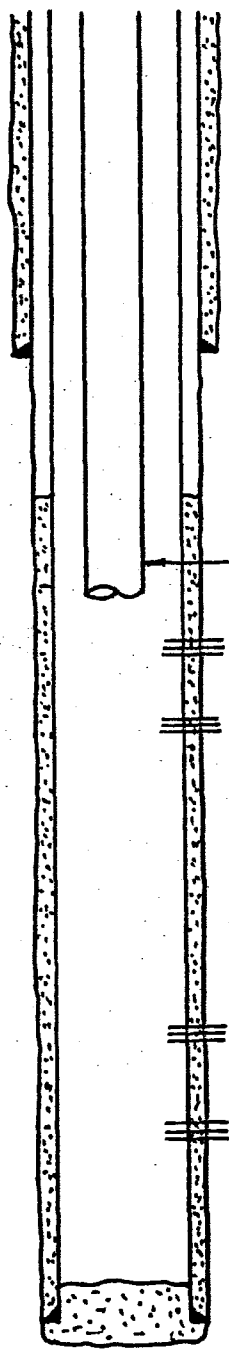
ATTACHMENT C-6
(2-2)

GL = 5417'
KB = 5432'
DF = 5431'

WALKER HOLLOW NO. 75
AFE NO. 62787
SEC. 2, T7S, R23E

DEPTH	TBG CSG	SIZE / WT. / GRADE / CLPSE* / BURST* / TEN**
0-400'	CSG	9 5/8" / 36# / K-55 / 1800 / 3230 / —
0-4300'	CSG	7" / 20# / K-55 / 2020 / 3440 / —
4300-5802'	CSG	7" / 23# / K-55 / 2900 / 4030 / —
0-5600' ±	TBG	2 7/8" / 6.5# / J-55 / 6830 / 6880 / 74,800
	TBG	1 1/4" / 2.3# / J-55 / 7550 / 7740 / 16,000

* Safety Factor = 1.125 (psi)
** Safety Factor = 1.333 (lbs)



JEA
10-11-82

Form 3160-4
(July 1992)

ATTACHMENT C-7
(1-2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE (See other instructions on reverse side)

FORM APPROVED
OMB No. 1004-0137
Expires February 28, 1995

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Citation Oil & Gas Corp.

3. ADDRESS AND TELEPHONE NO.: P.O. Box 690688, Houston, Texas 77269-0688 (281) 517-7194

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 460' FSL & 460' FEL; SE SE
At top prod. interval reported below Same
At total depth Same

5. LEASE DESIGNATION AND SERIAL NO.: UTSL066312

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: UTU66837A Walker Hollow Unit

8. FARM OR LEASE NAME, WELL NO.: Walker Hollow Unit #80

9. API WELL NO.: 43-047-34757

10. FIELD AND POOL, OR WILDCAT: Walker Hollow (Green River)

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 3, T7S, R23E

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-047-34757	3/4/2003	Uintah	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
3/25/2003	4/6/2003	5/2/2003	5335' GR	--

20. TOTAL DEPTH, MD & TVD	21. PLUG BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5,548'	5,547'		→→→	X	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 5423' - 5545' Green River

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: Platform Express/CNL/Triple Litho Density; CBL/GR

27. WAS WELL CORED: No

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

CASING SIZE/GRADE	WEIGHT LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8"	23#	435'	12-1/4"	Surface	None
5-1/2"	15.5#	5548'	7-7/8"	Surface	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
None				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	5425'	TAC @5261'
		SN @5295'

31. PERFORATION RECORD (Interval, size and number)
5423' - 5545'

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5529' - 5545'	1600 gals 7.5% HCl; 3 BS/bbl
5498' - 5520'	40,535# 20/40 sd in 371 bbls 30# x-l gel
5423' - 5456'	40,100# 20/40 sd in 369 bbls 30# x-l gel

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas, lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
5/3/2003	2-1/2" x 1-3/4" RHAC pump	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
5/4/2003	24	N/A	→→→	111	20	140	180

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
200	--	→→→	111	20	140	26.5 deg.

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): Sold

TEST WITNESSED BY: Citation Oil & Gas Corp.

35. LIST OF ATTACHMENTS: Log

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

SIGNED Debra Harris Debra Harris TITLE Production/Regulatory Coordinator DATE 5/7/2003

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

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

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Green River	2972'	5545'	Oil / Water

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Green River	2972'	Same

©U.S. GOVERNMENT PRINTING OFFICE: 1992—774-672

ATTACHMENT C-7
(2-2)

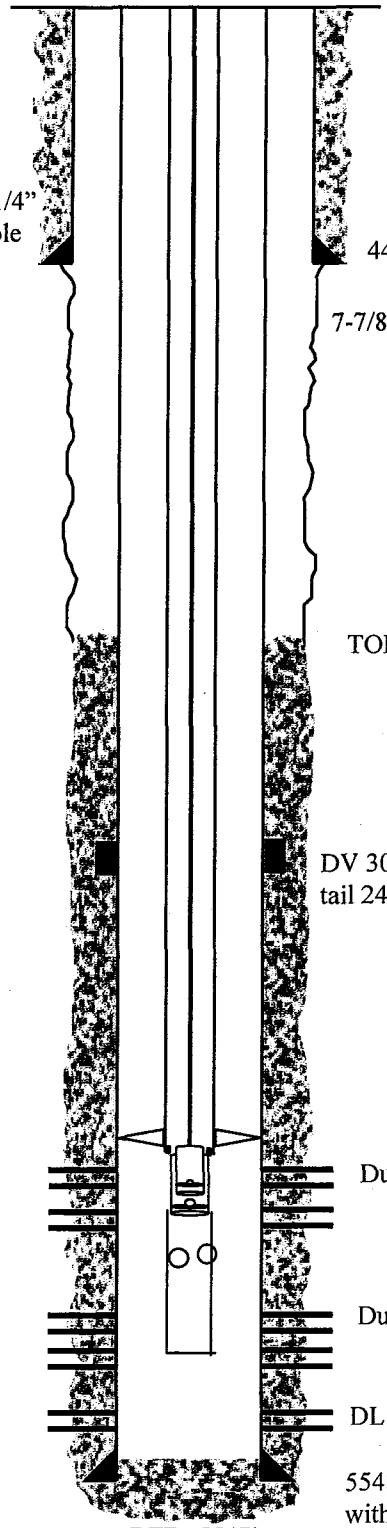
CITATION OIL & GAS CORP.
WALKER HOLLOW UNIT #80
460' FSL, 460' FEL (SE/SE) Sec 3-T7S-R23E
UINTAH CO., UTAH

Lufkin M-456-305-144
with Ajax

KB: 14 FT
GL: 5324 FT

API:

Status: Active Pumping Oil Producer
Wellhead 7-1/16" 5M



12-1/4" Hole

445' 8-5/8" 24-lb J-55 8rd with 225 sx 3-03

7-7/8" bit

		Length	Depth
Tbg (5-03):	172 jts 2-7/8" 6.5-lb J-55 8rd	5346'	5356' KB
	TAC with 10K tension	2.5'	5358' KB
	1 jt 2-7/8"	31'	
	SN	1.1'	5391' KB
	1 jt 2-7/8"	31'	
	D2703 desander	4'	5423' KB
	3 jts 2-7/8", orange-peel bottom	61'	5488' KB

TOL 1030' CBL

Rods (5-03): 1-1/2" x 30' polished rod
? x 1" D ponies
? – 1" D rods
? – 7/8" D rods
? – ¾" D rods
10 – 1" D rods
2-1/2"x1-3/4"x20'x21' RHAC PA plunger with solution valve

DV 3003' with 95 sx Lite II, tail 240 sx Poz G 4-03

Du8c 5423' – 44', 4 spf
5446' – 48', 4 spf
5450' – 56', 4 spf
Frac with gelled water, 25M lbs 20/40 sand 4-03

Du8d 5498' – 5504', 4spf
5508' – 5520', 4 spf
Frac with gelled water, 40M lbs 20/40 sand 4-03

DL1A 5529' – 45', 4 spf, acid and balls 4-03

5548' 5-1/2" 15.5-lb J-55 8rd LT&C with 145 sx Premium Lite II lead, tail 345 sx 50/50 Poz G 4-03

PBTD: 5547'
TD: 5548'

Updated: 5-13-03 BC

Form 9-330
(Rev. 5-63)

ATTACHMENT C-8
(1-2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICA
(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 [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] 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 1,072' FNL & 2,159' FWL (NE/NW)
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.: 9

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. / DATE ISSUED:

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
10-12-80	11-1-80	2-4-81	KB 5,193' (GRD + 13')	----------

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5,616' K.B.	5,590' K.B.	NA	→	Surface to T.D.	-------

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Green River "J" and "K" Sands (5,308' - 5,409')

25. WAS DIRECTIONAL SURVEY MADE: NO

26. TYPE ELECTRIC AND OTHER LOGS RUN
Compensated Neutron-Formation Density, Dual Induction, Compensated Sonic Repeat Formation Tester

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#/ft	507' KB	12-1/4"	360 sx Class "B" w/2% $CaCl_2$ & 1/4#/sk Flocele.	-0-
5-1/2"	14# & 15.5#/ft	5,616' KB	7-7/8"	1250 sx HOWCO "Light" w/ (See Back)	-0-

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
		None		

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	5,444' K.B.	None

31. PERFORATION RECORD (*Interval, size and number*)
5,403'-09', 5,391'-92' & 5,371'-75' w/1 JSPF (Green River "K" Sand) 5,328'-29' & 5,307'-08' w/1 JSPF (Green River "J" Sand)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5,307' - 5,409'	Breakdown: See Back
5,307' - 5,409'	Fracture: See Back

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
2-1-81	Pumping 2-1/2" X 1-3/4" X 14' Rod Pump	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
2-4-81	24	-----	→	150	NA	5	NA

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
-------	---------	→	150	NA	5	25.8°

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)
VENTED DURING TEST

TEST WITNESSED BY: DURRELL KARREN

35. LIST OF ATTACHMENTS
DST Summary & Mud Loggers Report (Sample Descriptions)

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

SIGNED Bobby Patrick TITLE Production Engineer - RMD DATE 2-10-81

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

INSTRUCTIONS

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

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			SEE ATTACHED Continued from other side - Cementing 5-1/2" - 6% Gel + 7% Salt + 10#/sk Gilsonite & 1/4#/sk Flocele, followed by 300 sx 50-50 Pozmix + 2% Gel + 0.6% Halad-9 + 5% KCl & 1/4#/sk Flocele. Breakdown- BD perfs 5,307'-5,409' w/1000 gal 7½% HCl acid + additives. Fracture -Frac'd perfs 5,307'-5,409' w/ 43,000 gal Halliburton "Super E" (2/3 Ashley Creek crude & 1/3 2% KCl water + additives) w/ 55,000# 20-40 Sand & 24,000# 10-20 Sand using limited entry technique.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
LOG TOPS		
Uintah	Surface	
Green River	2,842'	
"G" Zone	4,395'	
"H" Zone	4,645'	
"I" Zone	4,875'	
"J" Zone	5,151'	
"K" Zone	5,335'	
T.D. Logger	5,611'	
Driller	5,616'	

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636

ATTACHMENT C-8
(2-2)

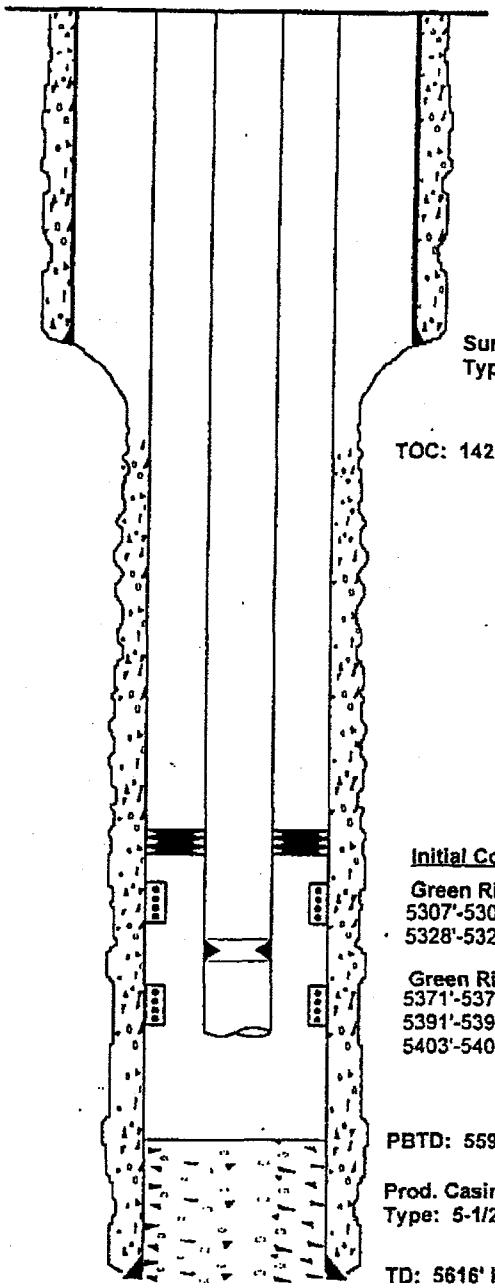
Pearl Broadhurst #9
Walker Hollow Field
NE NW Sec10-T7S-R23E
1072' FNL, 2159' FWL
Elevation: 5180' GL, 5193' KB
Uintah County, Utah

Spud Date: 10/12/80
TD Date: 11/1/80
Completion Date: 2/4/81
IPP: 150 BO, 5 BW

Tubing Record
162 jts 2-7/8", J-55, EUE, 8rd, 6.5# coated tbg.....5143.66'
1 - 5.5" x 2.5" TAC.....2.80'
7 jts 2-7/8", J-55, EUE, 8rd, 6.5# coated tbg.....224.13'
1 - 2-7/8" SN.....1.10'
1 jt 2-7/8", J-55, EUE, 8rd, 6.5# coated tbg.....31.42'
1 - notched collar.....0.60'

End of tubing.....5403.71'

Rod Record
1.5" x 22' polished rod
1 - 7/8" x 4' pony
1 - 7/8" x 6' pony
88 - 7/8" scrapered rods
125 - 3/4" plain rods
2.5" x 1.75" x 12' x 13' x 16' RHBC pump



Surface Casing @ 507'
Type: 8-5/8", 24#

TOC: 1425' KB

Initial Completion

Green River "J"
5307'-5308' (1 spf)
5328'-5329' (1 spf)

Green River "K"
5371'-5375' (1 spf)
5391'-5392' (1 spf)
5403'-5409' (1 spf)

PBTD: 5590' KB

Prod. Casing @ 5616'
Type: 5-1/2", 14#, 15.5#

TD: 5616' KB

12/19/94: CMJ

Form 9-330
(Rev. 5-63)

ATTACHMENT C-9
(1-2)

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 [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] 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 713' FNL & 1,747' FEL (NW/NE)
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: USA Pearl Broadhurst

9. WELL NO.: 11

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. / DATE ISSUED:

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
2-28-81	3-17-81	5-28-81	5,191' G.L. - 5,204' K.B.	----------

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5,610' K.B.	5,551' K.B.	NA	→	0-TD	----------

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
5,248'-5,306' "J" zone Green River
5,363'-5,367' "K" zone Green River

25. WAS DIRECTIONAL SURVEY MADE: NO

26. TYPE ELECTRIC AND OTHER LOGS RUN: Dual Induction, Compensated Densilog/Neutron & Compensated Acoustilog

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" OD	24#	508'	12-1/4"	380 sx "G" w/2% $CaCl_2$ & 1/4# Flocele/sx	-0-
5-1/2" OD	14#	5,597'	7-7/8"	400 sx "G" + additives & 350 sx "Self-Stress" + additives	-0-

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
		None		

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	5,249' K.B.	No

31. PERFORATION RECORD (*Interval, size and number*)
5,363'-67'
5,305'-06'
5,297'-00'
5,271'-72'
5,248'
w/1 JSPF (14 perfs)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5,248'-5,367'	BD w/1000 gal 7-1/2% HCl + additives & ball sealers.
	See back of page

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
5-28-81	Pumping - 2-1/2" x 1-3/4" x 14' Rod Pump	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
6-2-81	24	-----	→	140	NA	125	NA

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
----	------	→	140	NA	125	± 29°

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): VENTED DURING TEST

TEST WITNESSED BY: RAY RADKE

35. LIST OF ATTACHMENTS: SAMPLE DESCRIPTION ATTACHED

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

SIGNED R. Wagner TITLE Production Engineer - RMD DATE 6-16-81

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

INSTRUCTIONS

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
No DST's were ran.			See Attached Cont'd from front of page: Fracture - Frac'd perfs 5,248'-5,367' w/ 10,000 gals "Super E" pad, 33,000 gal "Super E" fluid plus additives w/55,000# 20-40 sand & 24,000# 10-20 sand.

38. GEOLOGIC MARKERS

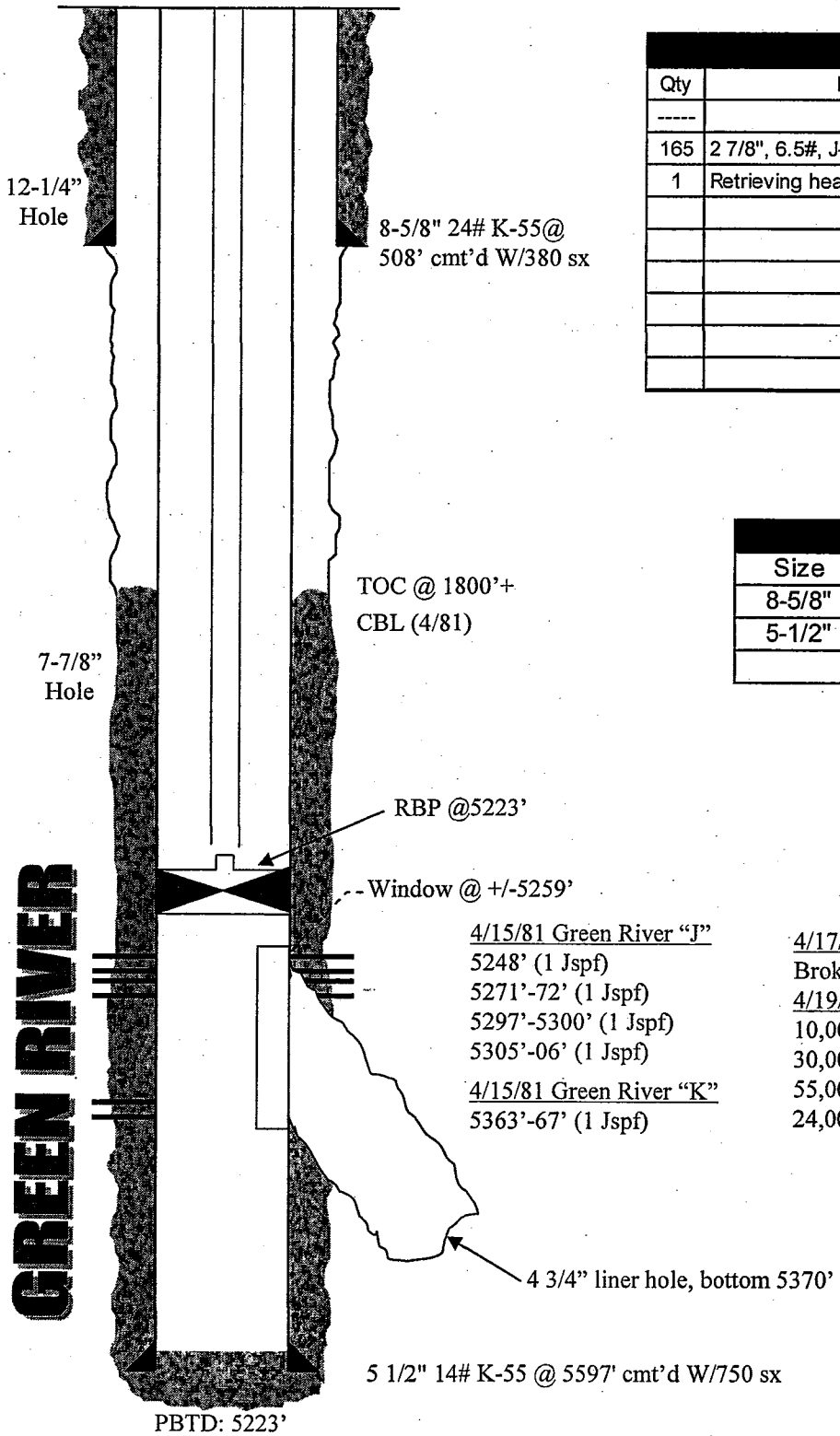
NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
LOG TOPS		
Uintah	Surface	
Green River	2,824'	
"G" zone	4,397'	
"H" zone	4,644'	
"I" zone	4,876'	
"J" zone	5,163'	
"K" zone	5,328'	
T.D. Logger	5,606'	
T.D. Driller	5,610'	

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636

CITATION OIL & GAS CORP.
WALKER HOLLOW PEARL BROADHURST #11
(NW/NE) Sec. 10-T7S-R23E
UINTAH CO., UTAH

ATTACHMENT C-9
(2-2)

KB: 13 FT
GL: 5191 FT
Status: Shut in-TA



TUBING DETAIL			
Qty	Description	Length	Depth
-----	KB	13	13
165	2 7/8", 6.5#, J-55, 8rd, EUE tbg	5200	5213
1	Retrieving head for RBP		

CASING DETAIL			
Size	Weight	Grade	Depth
8-5/8"	24	K-55	0-508
5-1/2"	14	K-55	0-5597

4/15/81 Green River "J"
5248' (1 Jspf)
5271'-72' (1 Jspf)
5297'-5300' (1 Jspf)
5305'-06' (1 Jspf)

4/15/81 Green River "K"
5363'-67' (1 Jspf)

4/17/81 Stimulation:
Broke perfs w/ 1000 gal 7.5% HCL
4/19/81 Frac(both zones):
10,000 gal Super-E pad
30,000 gal Super-E fluid
55,000 # 20-40 sand
24,000 # 10-20 sand

PBTD: 5223'
TD: 5610'

All depths KB unless noted.
Updated: 11-25-03

Form 9-330
Rev. 5-63)

ATTACHMENT C-10
(1-3)

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 [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] 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, WY 82602

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface 2,104' FNL & 2,112' FWL (SE/NW)
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: USA Pearl Broadhurst

9. WELL NO.: 17

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. / DATE ISSUED:

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
6-7-81	6-21-81	9-14-81	5,149' (GRD + 13')	----------

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5,402' K.B.	5,360' K.B.	NA	→	0-TD	----------

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Green River "J" Zone - 5,213'-5,224'
Green River "K" Zone - 5,283'-5,325'

25. WAS DIRECTIONAL SURVEY MADE: NO

26. TYPE ELECTRIC AND OTHER LOGS RUN: Compensated Neutron/Formation Density; Dual Induction & Acoustilog

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#	507' KB	12-1/4"	360 sx "G" w/2% $CaCl_2$ & 1/4# Flocele/sx.	-0-
5-1/2"	14#	5,402' KB	7-7/8"	435 sx "G" w/3% D-79 & 10# D-42 (Kolite) OVER	-0-

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
		None		

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	5,277' KB	

31. PERFORATION RECORD (*Interval, size and number*)
Green River "J" 5,213'-5,224'
Green River "K" 5,283'-5,325' (14 holes)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5,213'-5,325'	BD w/750 gal Western 7½% "Spearhead Acid" plus additives & ball sealers.

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
9-14-81	Pumping 2-1/2" x 1-3/4" x 14' Rod Pump	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9-24-81	24	-----	→	54	NA	1	NA

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
--	-----	→	54	NA	1	±29.0°

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): VENTED DURING TEST

TEST WITNESSED BY: RIP DOUGLAS

35. LIST OF ATTACHMENTS: SAMPLE DESCRIPTION ATTACHED.

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

SIGNED Rosie Lopez TITLE Production Tech - RMD DATE 10-1-81

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

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
No DST's			Sample Description Attached Cementing 5-1/2" - 400 sx 50-50 Pozmix w/ 2% Gel; 0.75% D-60 & 1/4# Flocele/sx.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
LOG TOPS		
Uintah	Surface	
Green River	2,766'	
"G"	4,294'	
"H"	4,565'	
"I"	4,789'	
"J"	5,082'	
"K"	5,252'	
Driller T.D.	5,402'	
Logger T.D.	5,394'	

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636

ATTACHMENT C-10
(2-3)

COMPANY REMARKS

2110' FNL
5,149' (GRD + 13')

WRS COMPLETION REPORT

PI# 43-T-0002 12/10/81 SEC 10 TWP 7S RGE 23E PAGE 1

UTAH UINTAH 1904 FNL 2112 FWL NE SE NW D DO
STATE COUNTY FOOTAGE WELL CLASS INIT. FIN.

ENERGY RESERVES GROUP 17 BROADHURST
OPERATOR WELL NO. LEASE NAME

5149 KB 5136 GR WALKER HOLLOW
OPER. ELEV. FIELD/POOL/AREA

API 43-047-30905
PERMIT OR WELL I.D. NO.

06/07/1981 09/14/1981 ROTARY OIL
SPUD DATE COMP. DATE TYPE TOOL STATUS

5700 GREEN RV NOT RPTD
PROJ. DEPTH PROJ. FORM. CONTRACTOR

DTD 5402 PB 5360 FM/TD GREEN RV
DRILLER'S T.D. LOG T.D. PLUG BACK T.D. OLD T.D. FORM./T.D.

CASING/LINER DATA

CSG 8 5/8 @ 507 W/ 360 5 1/2 @ 5402 W/ 435 01 02

WELL IDENTIFICATION/CHANGES

WHCS CODE # 43S007E02310430381

INITIAL POTENTIAL

IPP 54 BOPD 1BW
GREEN RV PERF W/ 1/FT 5213- 5325 GROSS 004
PERF 5213- 5215 5221- 5224 5283- 5284 5290- 5290
PERF 5317- 5318 5324- 5325
ACID 5213- 5325
ACID 5283- 5325

TYPE	FORMATION	DEPTH	FORMATION	DEPTH	FORMATION	DEPTH
LOG	UINTA	0	GREEN RV	2766		

PRODUCTION TEST DATA

PTP 7380 1BW
GREEN RV PERF W/ 1/FT 5213- 5325 GROSS 003
PERF 5213- 5215 5221- 5224 5283- 5284 5290- 5290
PERF 5317- 5318 5324- 5325
ACID 5213- 5224 750GALS SPEARHEAD ACID
ACID 5283- 5325 750GALS

LOGS AND SURVEYS /INTERVAL,TYPE/

FDC CNL
BHC GRL

CONTINUED IC# 430477005481

PI-WRS Form No. 388
Petroleum Information
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ENERGY RESERVES GROUP 17 BROADHURST

LOGS AND SURVEYS /INTERVAL,TYPE/

NEUT DENL
DILL ACSL

DRILLING PROGRESS DETAILS

03/13	LOC/1981/
06/15	DRLG 3985
06/22	5402 TD, WOCT
07/20	BHT @ 113F
	5402 TD, WOCT
09/02	5402 TD, SWBG
09/08	5402 TD, POP
09/21	5402 TD, PMP TSTG
	DRLG STOP 06/21/81
09/29	5402 TD, PB 5360
	COMP 9/14/81, IPP 54 BO, 1 BWPD
	PROD ZONE - GREEN RIVER 5213-5325/GROSS/
	HOLDING FOR DATA
12/04	NO CORES OR DSTS

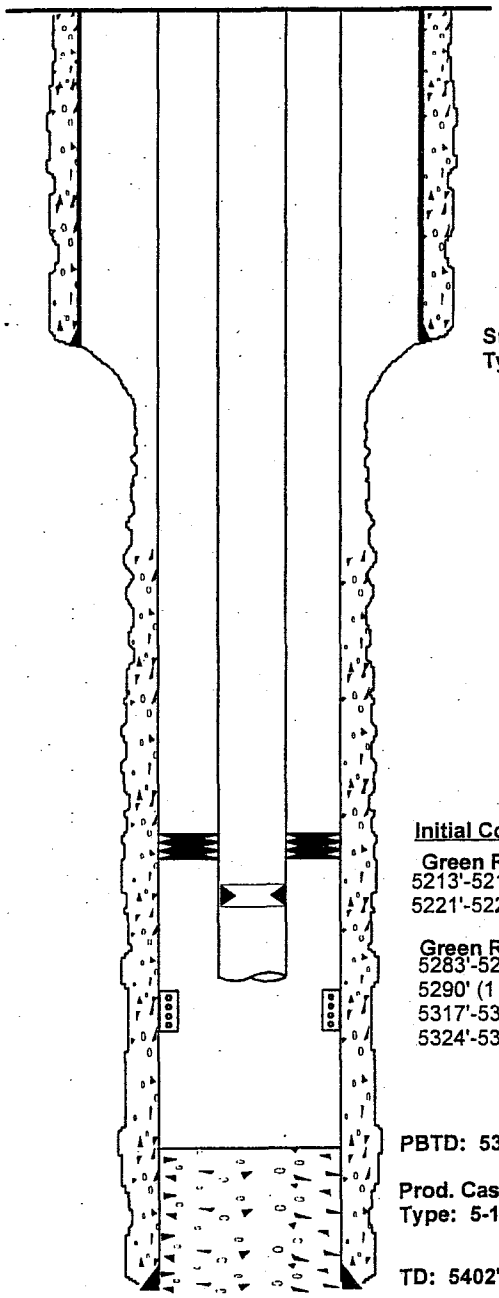
ATTACHMENT C-10
(3-3)

Pearl Broadhurst #17
Walker Hollow Field
SE NW Sec10-T7S-R23E
2112' FWL, 2104' FNL
Elevation: 5130' GL, 5142' KB
Uintah County, Utah

Spud Date: 6/7/81
TD Date: 6/21/81
Completion Date: 9/14/81
IPP: 54 BO, 1 BW

Tubing Record
168 jts 2-7/8", EUE, J-55, 8rd tbg.....no length

Rod Record
1.5" x 22' polished rod
2 - 7/8" x 4' ponies
1 - 7/8" x 8' pony
87 - 7/8" scraper rods
123 - 3/4" plain rods
2.5" x 1.5" x 11' x 13' x 16' RHAC



Surface Casing @ 507'
Type: 8-5/8", 24#, K-55

Initial Completion

Green River "J"
5213'-5215' (1 spf)
5221'-5224' (1 spf)

Green River "K"
5283'-5284' (1 spf)
5290' (1 spf)
5317'-5318' (1 spf)
5324'-5325' (1 spf)

Stimulation
Broke Formation
750 gal. Spearhead acid
7 BPM @ 2350#

PBTD: 5360' KB

Prod. Casing @ 5402' KB
Type: 5-1/2", 14#

TD: 5402' KB

12/19/94: CMJ

CITATION OIL & GAS CORP.
APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL
U.S.A. PEARL BROADHURST #11
WALKER HOLLOW (GREEN RIVER) FIELD
LEASE # UTU-02651A

ATTACHMENT D

NAME AND DEPTH OF USDWs

For Class II wells, submit geologic name and depth to bottom of all underground sources of drinking water, which may be affected by the injection.

Due to the location and depth of the well, it will not affect any source of drinking water. See attachments D-1 through D-3 showing pertinent water analysis.

Attachment D-1	Water Analysis of the Primary Fluid to be Injected
Attachment D-2	Water Analysis of the Formation Fluid to be Injected
Attachment D-3	Water Analysis of the Compatibility of the Injected and Formation Fluids

ONDEO Nalco

ATTACHMENT D-1

Water Analysis Report

Field : Walker Hollow	Sample Date : 12/10/2003
County : Uintah	Formation :
Location : Battery #2	Rock Type :
Lab ID : Citation Oil and Gas	Depth :
Comments : @ Triplex	

CATIONS	mg/l	meq/l
Potassium	0.0	0.00
Sodium	1,103.0	47.98
Calcium	50.0	2.50
Magnesium	12.2	1.00
Iron	0.9	0.03
Barium	5.0	0.07
Strontium	0.0	0.00
SUM +	1,171.1	51.58

ANIONS	mg/l	meq/l
Sulfate	15.0	0.31
Chloride	635.0	17.91
Carbonate	120.0	4.00
Bicarbonate	1,792.0	29.38
Bromide	0.0	0.00
Organic Acids	0.0	0.00
Hydroxide	0.0	0.00
SUM -	2,562.0	51.60

Solids

Total Dissolved Solids @180°C	2,579	mg/l
Total Solids, Calc less CO_2	2,586	mg/l
Total Solids, Calculated	3,733	mg/l
Total Solids, NaCl equivalents	2,551	mg/l
Chloride as NaCl	1,047	mg/l
NaCl% of Total Dissolved Solids	40.48	%
Accuracy	0.02	Sigma

Sample Conditions

pH, s.u. (Field)	8.45	s.u.
Sample Pressure	6.00	psia
Mole% CO_2, Gas	1.25	%
pH, s.u. (from CO_2)	8.41	s.u.
Surface Temp	60	°F
Downhole Temp	130	°F
Ionic Strength	0.056	μ

Dissolved Gases

Bisulfide ion, HS^-	2.9	mg/l
Hydrogen Sulfide, H_2S	0.1	mg/l
Total Sulfide	3.0	mg/l
Dissolved O_2, aq	0.0	ppb
Measured CO_2, aq	0.0	mg/l
Calculated CO_2, aq	8.3	mg/l

Other Properties

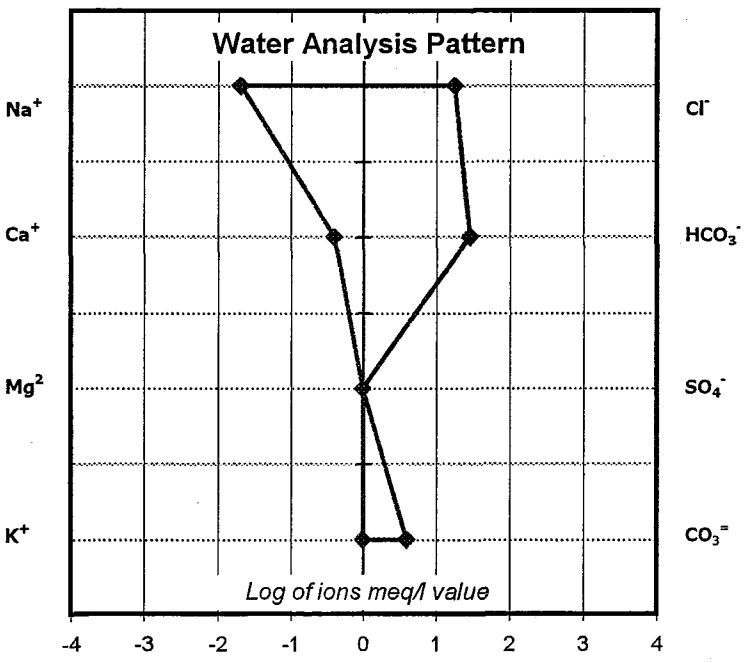
Calcium Hardness as $CaCO_3$	124.8	mg/l
Magnesium Hardness as $CaCO_3$	50.2	mg/l
Total Hardness as $CaCO_3$	175.0	mg/l
Hardness, grains	10.19	grains/gallon
Specific Gravity	1.003	measured
Specific Gravity	1.003	calculated
Resistivity, 68°F	1.479	ohm-cm
Conductivity 25°C	6,760	μmhos/cm

Microbiological

Sulfate Reducing	nd
Aerobic Bacteria	nd

Scaling Conditions

Calcium Carbonate	$CaCO_3$	+
Calcium Sulfate	$CaSO_4$	- - -
Barium Sulfate	$BaSO_4$	+
Strontium Sulfate	$SrSO_4$	-



Probable Mineral Residue, Dry

Calculation error = 0 %

COMPOUND	mg/l
NaHCO3	2,133.1
NaCl	1,046.8
Ca(HCO3)2	202.2
Mg(HCO3)2	73.4
Na2SO4	17.0
BaSO4	8.5

Note: nd denotes 'Not Determined'
Analyzed by: Creg Wilkins
Approved:
04/10/00 v940MDCarney

ATTACHMENT D-2

Injection Water Report and Scaling Tendencies

4/10/2000 Version : 940

Analysis by :	Creg Wilkins
Field :	Pearl Broadhurst
County :	Uintah
Lab ID# :	Citation Oil and Gas
Sample Date :	10-Dec-03
Location :	Battery
Formation :	
Depth :	
Rock Type:	
Porosity:	
Permeability:	

INPUT Sample Temp °F :	60.0	INPUT TDS @180 °C, mg/L	3,592
INPUT Downhole Temp °F :	130.0	Calc TDS (less CO2), mg/L	3,596
INPUT Sample Press :	6.0	INPUT Resistivity @ 68°F	0.170
INPUT sample pH, su	8.45	Calculated Resistivity @ 68°F	0.170
Input mole % CO_2	1.30	Input Conductivity, µmhos/cm	58,824
pH resulting from CO_2	8.46	Calc Cond@25 °C, µmhos/cm	58,824
Calc Carbon Dioxide (Aq), mg/L	8.6	INPUT Density @ STP, g/mL	1.003
Carbon Dioxide, CO_2 mg/L	0.0	Calc Density @STP, g/mL	1.003
Total Sulfide, mg/L	0.0	MicroBiological - # of bottles turned	
Dissolved Oxygen, ppm		SRBs :	(1)
Dissolved Oxygen, ppb	0.0	Aerobic Bacteria :	(1)

K^+	0.0
Na^+	1,538.0
Na^+ by Diff	+ 0.46
Ca^{++}	48.0
Mg^{++}	7.6
Fe^{++}	0.6
Ba^{++}	4.0
Sr^{++}	0.0
Br^-	0.0
$SO_4^=$	15.0
Cl^-	1,065.0
$CO_3^=$	120.0
HCO_3^-	2,174.0
OH^-	0.[illegible]
Organic Acid	0.0

Note: Organic Acids as Acetate

Titrations - if values are placed in mls or digits - results will transfer to Water Report

Parameter	mls	Digits	Sample Size	Normality	Results
CO_2	0	0.0	50	3.636	
H_2S	0	0.0	10	0.3998	
T reading	0	0.0	10	1.6	
P reading	0	0.0	10	1.6	
Ca^{++}	0	0.0	50	0.8	
THardness	0	0.0	50	0.8	
Cl^-	0	0.0	1	2.256	

Comments:

ATTACHMENT D-3

Injection Water Report and Scaling Tendencies

4/10/2000 Version : 940

Analysis by :	Creg Wilkins
Field :	Walker Hollow
County :	Uintah
Lab ID# :	Citation Oil and Gas
Sample Date :	10-Dec-03
Location :	Battery #1
Formation :	
Depth :	
Rock Type:	
Porosity:	
Permeability:	

INPUT Sample Temp °F :	60.0	INPUT TDS @180 °C, mg/L	2,639
INPUT Downhole Temp °F :	130.0	Calc TDS (less CO2), mg/L	2,635
INPUT Sample Press :	6.0	INPUT Resistivity @ 68°F	0.170
INPUT sample pH, su	8.35	Calculated Resistivity @ 68°F	0.170
Input mole % CO_2	1.40	Input Conductivity, µmhos/cm	58,824
pH resulting from CO_2	8.35	Calc Cond@25 °C, µmhos/cm	58,824
Calc Carbon Dioxide (Aq), mg/L	9.3	INPUT Density @ STP, g/mL	1.003
Carbon Dioxide, CO_2 mg/L	0.0	Calc Density @STP, g/mL	1.003
Total Sulfide, mg/L	2.0	MicroBiological - # of bottles turned	
Dissolved Oxygen, ppm		SRBs :	(1)
Dissolved Oxygen, ppb	0.0	Aerobic Bacteria :	(1)

K^+	0.0
Na^+	1,115.0
Na^+ by Diff	+ 0.92
Ca^{++}	45.0
Mg^{++}	11.1
Fe^{++}	0.4
Ba^{++}	5.0
Sr^{++}	0.0
Br^-	0.0
$SO^=$	10.0
Cl^-	695.0
$CO^=$	60.0
HCO^-	1,823.0
OH^-	0.0
Organic Acid	0.0

Note: Organic Acids as Acetate

Titrations - if values are placed in mls or digits - results will transfer to Water Report

Parameter	mls	Digits	Sample Size	Normality	Results
CO_2	0	0.0	50	3.636	
H_2S	0	0.0	10	0.3998	
T reading	0	0.0	10	1.6	
P reading	0	0.0	10	1.6	
Ca^{++}	0	0.0	50	0.8	
THardness	0	0.0	50	0.8	
Cl^-	0	0.0	1	2.256	

Comments:

CITATION OIL & GAS CORP.
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U.S.A. PEARL BROADHURST #11
WALKER HOLLOW (GREEN RIVER) FIELD
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ATTACHMENT E

GEOLOGICAL DATA ON INJECTION AND CONFINING ZONES

For class II wells, submit appropriate geological data on the injection zone and confining zones, including lithologic description, geological name, thickness, and depth and fracture pressure.

The proposed injection well produced from and will inject into three (3) sandstone sequences found in the Green River Formation.

In an Exxon study dated December, 1986, thirty-six (36) sandstone sequences were identified in the Green River Formation in the productive depths at the Walker Hollow Unit. Nomenclature from this study has been adopted by Citation Oil and Gas. The Green River sandstone sequences were deposited in a lacustrine environment. The sandstone is predominately very fine to fine grained and is characterized as forming coarsening upward sequences. Low energy shale deposits mark the bottom portion of the Green River sequences. These low energy intervals provide an impermeable barrier to flow between sandstone intervals. Shale barriers are also found interbedded with porous sandstone in the sandstone sequences. Likewise, these shale intervals also provide barriers to flow. Core evaluation indicates that reservoir quality porosity in the sandstone ranges from 10% to 20% and averages approximately 15%. Likewise the permeability ranges from 1md to 750md and averages approximately 25md. Overall, sequence thicknesses are very consistent across the Walker Hollow Unit area.

The proposed injection is targeted for the basal part of the Garden Gulch Member of the Green River Formation, in the subject well. Specifically, the Du 8b, Du 8c and Du 8d sandstone sequences are proposed for injection. Maximum neutron/density porosity ranges from 15% to 20% in these sandstone sequences.

Table I summarizes the characteristics of the injection zone sequences and the barrier that form the confining strata:

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ATTACHMENT E

Pg (2)

GEOLOGICAL DATA ON INJECTION AND CONFINING ZONES

Table I: Injection Zone and Confining Strata Characteristics

Sequence	Lithology	Zone Type	Top	Base	Thickness
Du 8b	Shale	Confining Strata	5238'	5244'	6'
Du 8b	Sandstone	Injection Zone	5244'	5278'	34'
Du 8b	Shale	Confining Strata	5278'	5286'	8'
Du 8c	Sandstone	Injection Zone	5286'	5328'	42'
Du 8c	Shale	Confining Strata	5328'	5356'	28'
Du 8d	Sandstone	Injection Zone	5356'	5368'	12'
Du 8d	Shale	Confining Strata	5368'	5384'	16'

It is believed that all of the confining strata are impermeable shale sequences that will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

Attachment E	Geological Data on Injection and Confining Zones
Attachment E-1	Formation Tops
Attachment E-2	Proposed Maximum Injection Pressure (Fracture Calc.)

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ATTACHMENT E-1

FORMATION TOPS

Well: Pearl Broadhurst #11

Location: 713' FNL & 1747' FEL of Section 10, Twp. 7S, Rng. 23E
Uintah County, Utah

KB: 5204'

Formation	Depth (ft)	Subsea Depth (ft)
Uinta	0'	5204'
Green River	2825'	2379'
Du 4	4353'	851'
Du 5	4653'	551'
Du 6	4877'	327'
Du 7	4976'	228'
Du 8	5176'	28'
Du 8b	5222'	-18'
Du 8c	5286'	-82'
Du 8d	5356'	-152'
DL 1a	5384'	-180'
K	5422'	-218'
Total Depth	5610'	-406'

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ATTACHMENT E-2

PROPOSED MAXIMUM INJECTION PRESSURE
FRACTURE CALCULATED

Frac Interval (feet) Top	Bottom	Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
5248	5367	5308	1700	0.757	1694

Calculation of Maximum Surface Injection Pressure
Pmax = (Frac Grad –(0.433*1.003)) x Depth of Top Perf
where pressure gradient for fresh water is .433 psi/ft and
Specific gravity of the injected water is 1.003.

Frac Gradient = (ISIP + (0.433*Top Perf.)) / Top Perf.

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ATTACHMENT F

DRILLING AND COMPLETION DATA

Attachment F-1	Drilling and Completion Reports Dated 2/28/81-6/2/81
Attachment F-2	Well History Summary

ATTACHMENT F-1
(1-7)

**** FINAL REPORT ****
ERG-USA CARL BROADHURST #11, (D)
NW NE Sec. 10-T7S-R23E; Uintah, UT; Walker Hollow - AFE #81-01-0024
(PTD 5,550' Green River Test); ERG WI 100%; Spud Date 2-28-81
DL 42-0919; DHC: $319,100; CC: $759,400

6-02-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - 140 BOPD/125 BWPD 53% oil in 24 hrs - CD: 52 - TAC: $438,024

T.D.: 5,610' K.B.
Completion Date: 6-2-81
Initial Potential: IPP - 140 BOPD/125 BWPD
Final AAPG Classification: DW

This well was spudded on 2-28-81 and drilled a 12-1/4" hole to 508' K.B. Ran 12 jts 8-5/8" 24#, K-55 new casing set @ 508' K.B. and cmt'd w/380 sx Class "G" w/2% $CaCl_2$ & 1/4# Flocele, sk. Drilled 7-7/8" hole to 5,610' K.B. Ran 128 jts 5-1/2", 14#, K-55 new casing set @ 5,59 K.B. and cmt'd w/400 sx Class "G" cmt plus additives followed by 350 sx Dowell "Self-Stress' cmt plus additives. P.B.T.D. 5,551' K.B. Perforated the Green River "K" zone @ 5,363'-67' & the "J" zone @ 5,305'-06', 5,297'-00', 5,271'-72' & 5,248' w/1 JSPF (14 holes). BD "J" & "K" perfs w/1000 gals 7-1/2% HCl acid plus additives & ball sealers. Frac'd "J" & "K" perfs down casing w/10,000 gals "Super E" pad, 33,000 gals "Super E" fluid plus additives w,55,00 20-40 sand & 24,000# 10-20 sand. Installed surface equipment. IPP 140 BOPD/125 BWPD.

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

5-16-to-18-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 6,363'-367' - Laying flow lines & setting production equipment; CD: 37 - TAC: $438,024

ATTACHMENT F-1
(2-7)

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

5-19-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - Laying flow lines & setting production equipment; CD: 38; TAC: $438,024

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

5-20-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - Laying flow lines & setting production equipment; CD: 39 - TAC: $438,024

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

5-21-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - Laying flow lines & setting production equipment; CD: 40 - TAC: $438,024

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

5-22-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - Laying flow lines & setting production equipment; CD: 41 - TAC: $438,024

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

5-23-to-26-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,263'-367' - Laying flow lines & setting production equipment; CD: 45 - TAC: $438,024

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

5-27-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - Laying flow lines & setting production equipment; CD: 46 - TAC: $438,024

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

5-28-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - 70 BOPD/135 BWPD & 66% water in 20 hrs. CD: 47 - TAC: $438,024

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

5-29-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - 151 BOPD/116 BWPD 57% in 24 hrs. CD: 48 - TAC: $438,024

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

5-30-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - 123 BOPD/116 BWPD 51% oil ; CD: 49 - TAC: $438,024

5-31-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - 176 BOPD/137 BWPD 56% oil ; CD: 50 - TAC: $438,024

6-01-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306'- "K" 5,363'-367' - 158 BOPD/142 BWPD 53% oil ; CD: 51 - TAC: $438,024

ATTACHMENT F-1
(3-7)

ERG-USA PEARL BROADHURST #11,) (ERG WI 100%) Wal Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550

4-30-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - 14 hrs SITP 275 psi; FL 450'; Swab 4 hrs, rec 120 BF Est. 58% oil; FFL 1,400'; Release pkr & circ oil out of hole w/2% KCl; Pick up RBP & TOH; TIH w/production tbg; Set tbg anchor w/2400# tension; ND BOP; NU WH & SI; Bottom of tbg landed at 5,249' K.B.; BF Recovered Today 70 BO/50 BW; TBLR 683 BO + 39 BO + 539 BW; BLTR 0 BO/0 BW; CD: 19 - TAC: $412,104

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

5-01-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs" "J" 5,248'-306' "K" 5,363'-367' - Pump 40 B hot ashley crude & 15 B 2% KCl down tbg; Ran pump & rods; Space out, hang off; SI; Rig down WCT; CD: 20 - TAC: $438,024

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

5-02-to-04-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367 - Laying flow lines & setting production equipment; CD: 23 - TAC: $438,024

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

5-05-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363' [illegible] Laying flow lines & setting production equipment: CD: 24 - TAC: [illegible]

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

5-06-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - Laying flow lines & setting production equipment; CD: 25 - TAC: $438,024

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

5-07-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - Laying flow lines & setting production equipment; CD: 26 - TAC: $438,024

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

5-08-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306 "K" 5,363'-367' - Laying flow lines & setting production equipment; CD: 27 - TAC: $438,024

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

5-09-to-11-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - Laying flow lines & setting production equipment; CD: 30 - TAC: $438,024

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

5-12-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - Laying flow lines & setting production equipment; CD: 31 - TAC: $438,024

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

5-13-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - Laying flow lines & setting production equipment; CD: 32 - TAC: $438,024

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

5-14-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 6,363'-367' - Laying flow lines & setting production equipment; CD: 33 - TAC: $438,024

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

5-15-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 6,363'-367' - Laying flow lines & setting production equipment; CD: 34 - TAC: $438,024

ATTACHMENT F-1
(4-7)

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

4-21-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - 39 hrs SI, csg on slight vac; Pick up notched cplg. TIH & tag sand fill at 5,475' (76' fill); Rev circ with 2% KCl & clean out to 5,551'; Lost 40 bbls of KCl while cleaning out sand; Land tbg at 5,212'; Swab 220 BF in 5 hrs; Est. last 80 BF 30% frac oil; FFL 700'; CD: 10 - TAC: $385,819

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

4-22-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'306' "K" 5,363'-367' - 14 hrs SITP 300 psi; SICP 0 psi; Open well, flowed 12 BO & died; Swab 360 BF Est. 20% oil in 8-1/2 hrs. FFL 800'-1,000'; BF Recovered Today 84 BO/288 BW; TBLR 108 BO/444 BW; BLTR 575 BO/25 BW; CD: 11 - TAC: $388,369

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

4-23-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - 14 hrs SITP 275 psi; SICP 25 psi; Flowed 8 BO & died; Pump 15 bbls KCL down tbg; Lower tbg & tag fill at 5549 (2' fill); TOH; Pick up Baker ret pkr; TIH & set pkr at 5,210'; press test csg to 2500 psi for 20 min; No leak off; Reset pkr at 5340' KB; Swab 172 BF est 85% oil in 6 hrs; FL swabbed down to 1000' pretty fast, then slowly down to a FFL of 1500'; BF recovered today 26 B; TBLR 469 B; BLTR 0 B; CD: 12 - TAC: $392,129

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

4-24-81 - T.D. 5,610'; PBTD 5,551' - Green River "J" 5,248'-306' "K" 5,363'-367' - 14 hrs SITP 400 psi; SICP 0 psi; FL 400'; Swab 3-1/4 hrs.--rec 98 BF Est. 85% oil, with some good gas; FFL 1,100'; Release pkr & pump 10 B 2% KCl down tbg; Reset pkr at 5,283'; Swab 5-1/2 hrs--rec 150 BF Est. 70% oil; FFL 2,200'; BF Recovered Today 188 BO/60 BW; TBLR 450 BO/469 BW + 61 BW; BLTR 233 BO/0 BW; CD: 13 - TAC: $395,064

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

4-25-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - 14 hrs SITP 350 psi; Pump 10 B KCl down tbg; TOH; Pick up Baker Lok-Set RBP w/ 3000 psi/7 day BHP recorder attached to bottom of RBP; Pick up Ret. pkr & TIH to 5,348'; Tried for 1-1/2 hrs to set RBP, but it would not set; TOH; Changed out RBP; TIH to 2,800', well trying to flow; Set RBP at 2,800' & circ all oil out of hole; TIH & set RBP at 5,348'; Set pkr at 5,340'; Pressure test RBP to 2250 psi for 20 minutes; No leak off; Reset pkr at 5,283'; Rig up to swab; CD: 14 - TAC: $398,884

4-26-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - 14 hrs SI, tbg on vac; Testing Lower "J" Perfs: 5,297'-306'; FL 650'; Swab 8 hrs, rec 137 BF Est. avg. 36% oil, FFL 4,700'; Not making much gas; BF Recovered Today 49 BO/88 BW; TBLR 499 BO/469 BW + 149 BF; BLTR 184 BO/0 BW; CD: 15 - TAC: TAC: $401,734

4-27-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - No Report; Rig shut down for Sunday; BLTR 184 BO/0 BW; CD: 16 - TAC: $401 734

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

4-28-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - 39 hrs SITP 175 psi; SICP 100 psi; FL 1,000'; Swab 2-3/4 hrs; Rec 50 BF Est. 40% oil; FFL 4,000'; Reset RBP at 5,292'; Set pkr at 5,286' & pressure test RBP to 2300 psi for 20 min; No leak off; Reset pkr at 5,257'; Test "J" Perfs. 5,271'-72' (2 holes); Swab 5 hrs, Rec 193 BF Est. 15% oil, with very little gas; FFL 2,400'; BF Recovered Today 49 BO/194 BW; TBLR 548 BO/469 BW + 343 BW BLTR 135 BO/0 BW; CD: 17 - TAC: $404,584

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

4-29-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - 14 hrs SITP 100 psi; SICP 40 psi; FL 1,000'; Swab 3 hrs rec 90 BF Est. 12% oil; FFL 2,000'; Reset RBP at 5,265'; Set pkr at 5,257'; Pressure test RBP to 2500 psi; No leak off; Reset pkr at 5,241'; Test "J" Perf. 5,248'; Swab 5 hrs rec 160 BF Est. 58% oi; FFL 1,500'; Making a fair amount of gas; BF Recovered Today 104 BO/146 BW; TBLR 652 BO/469 BW + 489 BW; BLTR 31 BO/0 BW; CD: 18-TAC:$407,984

ATTACHMENT F-1
(5-7)

ERG-USA PEARL BROADHURST #11 (D) (ERG WI 100%) Walker Hollow Jintah, UT (FR 3-02-81)
(PTD 5,55[illegible])

4-07-81 - T.D. 5,610'; PBTD 5,551' - W.O.C.T.

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

4-08-81 - T.D. 5,610'; PBTD 5,551' - W.O.C.T.

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

4-09-81 - T.D. 5,610'; PBTD 5,551' - W.O.C.T.

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

4-10-81 - T.D. 5,610'; PBTD 5,551' - W.O.C.T.

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT
(FR 3-02-81) (PTD 5,550')

4-11-31 - T.D. 5,610'; PBTD 5,551' - W.O.C.T.

4-12-81 - T.D. 5,610'; PBTD 5,551' - MIRUCT; CD: 1 - TAC: $321,124

4-13-31 - T.D. 5,610'; PBTD 5,551' - SD for Sunday; CD: 2 - TAC: $321,124

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

4-14-81 - T.D. 5,610'; PBTD 5,551' - Finish RUCT. Installed tbg head & BOP's. PU bit, scraper, & 5,562' 2-7/8" tbg. TIH. Tag cmt @ 5,556'. Wash 2'. Rev circ hole clean. Spotted 60 B 2% KCl water w/clay stabilizer on btm. TOH 18 stds. CD: 3 - TAC: $334,684

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

4-15-81 - T.D. 5,610'; PBTD 5,551' - Tested BOP, csg, & wellhead to 3500 psi for 15 min--held o.k. Swabbed FL to ± 4,000'. TOH. RU McCullough & perf'd the Green River "K" @ 5,363'-67' & the "J" @ 5,305'-06', 5,297'-5,300', 5,271'-72', & 5,248' w/1 JSPF w/4" csg gun. TIH w/Retrievamatic pkr & set @ 5,212'. Swabbed--IFL 3,200'. Rec 23 BF in 1-1/2 hr, mostly wtr w/± 25% oil next to last run & ± 50% oil on final run; CD: 4 - TAC: $345,704 - (NOTE: CBL/VDL log was run on 4-8-81 and indicated good cmt bond through pay zones & cmt top @ ± 2,240').

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

4-16-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,353'-367' - 14 hrs SITP 275 psi; FL 1,000'; Swabbed 4-1/2 hrs, Rec 35 BF (Black & very thick) Est avg 63% oil; FFL 5,000'; Release pkr & TOH; Remove BOP & tbg head; Install bit guide; Install tbg head & BOP; Pressure test flange & pack off to 2000 psi; No leak off; TIH & set pkr at 5,211'; Pump 12 B hot Ashley crude down tbg; CD: 5 - TAC: $337,644

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

4-17-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - 14 hrs SITP 0 psi; FL @ 350'; Swab 35 BF (25 BO/10 BW) in 1-3/4 hrs; Rig up HOWCO & acidize Green River Perfs. w/1000 gals 7-1/2% HCl acid w/additives, dropped 18 ball sealers; Displ w/2% KCl w/additives; BD 3800 psi, broke to 3000 psi; Treated 7-1/4 BPM at 2800-3000 psi, good ball action to 4000 psi; Balled off to 5500 psi; Surged off balls; Finish disl. 4 BPM at 2500 psi; ISIP 1500 psi; 5 min 600 psi; 10 min 300 psi; 15 min 100 psi; BLTR 56 B; Swab 6 hrs Rec 102 BF; Last 25 BF Est 60% oil; FFL 4,700'. CD: 6 - TAC: $344,974

4-18-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - 14 hrs SITP 275 psi; F.L. 500'; Swab 4-1/2 hrs, Rec 72 BF Est 70% oil; FFL 4,800'; Rel pkr; Swab 50 BF; TOH; CD: 7 - TAC: $347,444

4-19-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - 14 hrs SICP 125 psi; Rig up HOWCO & frac down 5-1/2" csg w/10,000 gal of "Super-E" pad, 33,000 gals "Super-E" fluid w/55,000# 20-40 sand & 24,000# 10-20 sand; Flush to top perf w/2% KCl; Avg rate 38 BPM at 3400-3500 psi; ISIP 1700 psi; 5-min 1530 psi; 10-min 1420 psi; 15-mjn 1280 psi; 1-1/2 hrs 800 psi; SI; BLTR 1152 B; CD: 8 - TAC: $382,969

4-20-81 - T.D. 5,610'; PBTD 5,551' - Green River Perfs: "J" 5,248'-306' "K" 5,363'-367' - No Report; Rig shut down for Sunday; CD: 9 - TAC: $382,969

ERG-USA PEARL BROADHURST #11 (D) (ERG WI 100%) Walker Hollow Uintah, UT (FR 3-2-81)
(PTD 5,5[illegible])

3-17-81 - T.D. 5,610' (17') Circ & W.O.O. - Drld from 5,593' to 5,610' in 1-3/4 hrs. Circ & cond hole. TOOH. SLM--no correction. Ran logs. TIH. Survey: 5,600' @ 1°; MW 9.1; Vis 60; WL 9.4; PH 10.8; Solids 5.7 - DFS: 17 - TMC: $14,235 - TAC: $236,061

ATTACHMENT F-1
(6-7)

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-2-81)
(PTD 5,550')

3-18-81 - T.D. 5,610'; PBTD 5,551' - RDRT - W.O.O. LD.D.P. & D.C.'s. RU & ran 128 jts 5-1/2" O.D., 14#, K-55, R-3, ST&C new casing set @ 5,597'. Cmt'd w/400 sx Class "G" w/3% D-79 & 10# D-42 Kolite/sx; followed by 350 sx of Modified "Self Stress" cmt w/10# D-42 Kolite/sx. Plug down @ 7:50 PM 3-17-81. Good circulation throughout. Set slips and cut off. W.O.C. DFS: 18 - TMC: $14,235 TAC: $319,874

ERG-USA PEARL BROADHURST #11, (D) (ERG W[illegible] Walker Hollow, Uintah UT (FR 3-02-81)
(PTD 5,550')

3-19-81 - T.D. 5,610'; PBTD 5,551' - W.O.C.T. - TAC: $319,874

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah UT (FR 3-02-81)
(PTD 5,550')

3-20-81 - T.D. 5,610'; PBTD 5,551' - W.O.C.T. - TAC: $319,874

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah UT (FR 3-02-81)
(PTD 5,550')

3-21-to-23-81 - T.D. 5,610'; PBTD 5,551' - W.O.C.T. - TAC: $319,874

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

3-24-81 - T.D. 5,610'; PBTD 5,551' - W.O.C.T.

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

3-25-81 - T.D. 5,610'; PBTD 5,551' - W.O.C.T.

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

3-26-81 - T.D. 5,610'; PBTD 5,551' - W.O.C.T.

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

3-27-81 - T.D. 5,610'; PBTD 5,551' - W.O.C.T.

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah UT (FR 3-02-81)
(PTD 5,550')

3-28-81 - T.D. 5,610'; PBTD 5,551' - W.O.C.T.

3-29-81 - T.D. 5,610'; PBTD 5,551' - W.O.C.T.

3-30-81 - T.D. 5,610'; PBTD 5,551' - W.O.C.T.

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah UT (FR 3-02-81)
(PTD 5,550')

3-31-81 - T.D. 5,610'; PBTD 5,551' - W.O.C.T.

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah UT (FR 3-02-81)
(PTD 5,550')

4-01-81 - T.D. 5,610'; PBTD 5,551' - W.O.C.T.

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

4-02-81 - T.D. 5,610'; PBTD 5,551' - W.O.C.T.

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

4-03-81 - T.D. 5,610'; PBTD 5,551' - W.O.C.T.

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-02-81)
(PTD 5,550')

4-04-to-06-81 - T.D. 5,610'; PBTD 5,551' - W.O.C.T.

ATTACHMENT F-1
(7-7)

**** FIRST REPORT ****
ERG-USA PEARL BROADHURST #11, (D)
NW NE Sec. 10-17S-R23E; Uintah, UT; Walker Hollow - AFE #81-01-0024
(PTD 5,550' Green River Test); ERG WI 100%; Spud Date 2-28-81
DL 42-0919; DHC: $319,100; CC: $759,400

3-01-81 - Depth 324' (269') Drlg - Finish RU & spud @ 4:00 PM 2-28-81. Drld 12-1/4" hole to 324'. G.L. Elev. 5,191'; K.B. 5,204' - Survey: 130' 3/4°: MW 9.0; Vis 38 - DFS: 1 - TAC:$37,26

3-02-81 - Depth 508' (184') NU BOPE - Drld from 324' to 508' in 5-1/4 hrs. Circ & cond hole. Ran 8-5/8" OD, 24#, K-55, R-3, ST&C new casing set @ 508'. Cmt'd w/380 sx Class "G" cmt w/2% $CaCl_2$ & 1/4# Flocele/sx. Plug down @ 5:45 PM 3-1-81. Good cmt returns. W.O.C. Survey: 500' 1/2°; DFS: 2 - TMC: $610 - TAC: $57,233

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-2-81) (PTD 5,550')

3-03-81 - Depth 1,330' (822') Drlg - Pressure tested BOPE to 1200 psi--held ok. Drld from 508' to 1,330' in 17 hrs. Survey: 980' 1/2°; DFS: 3 - TAC: $610 - TAC: $70,782

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-2-81) (PTD 5,550')

3-04-81 - Depth 2,042' (712') Drlg - Drld from 1,330' to 2,042' in 17-1/2 hrs w/trips f/bits @ 1,481' & 1,918' - Survey: 1,910' 1°;DFS: 4 - TMC: $610 - TAC: $80,689

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-2-81) (PTD 5,550')

3-05-81 - Depth 2,590' (548') Drlg - Drld from 2,042' to 2,590' in 19-1/2 hrs w/trip f/new bit @ 2,590' - Survey: 2,530' 3/4°; MW 9.1; Vis 33; WL 23; PH 8; Solids 5.6 - DFS: 5 - TMC: $610 - TAC: $91,904

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-2-81) (PTD 5,550')

3-06-81 - Depth 3,038' (448') Drlg - Drld from 2,590' to 3,038' in 23-3/4 hrs. MW 9.2; Vis 35; WL 15; PH 10; Solids 6.4 - DFS: 6 - TMC: $1,276 - TAC: $101,804

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-2-81) (PTD 5,550')

3-07-81 - Depth 3,330' (292') Drlg - Drld from 3,038' to 3,330' in 22-1/2 hrs. Survey: 3,060' 1/2° MW 9.1; Vis 35; WL 12.0; PH 10.0; Solids 5.7 - DFS: 7 - TMC: $2,071 - TAC: $111,192

3-08-81 - Depth 3,645' (315') Drlg - Drld from 3,330' to 3,645' in 23 hrs. Survey: 3,500' 1°: MW 8.9; Vis 35; WL 12.0; PH 10.5; Solids 4.2 - DFS: 8 - TMC: $3,043 - TAC: $120,394

3-09-81 - Depth 4,045' (400') Drlg - Drld from 3,645' to 4,045' in 23-3/4 hrs. MW 9.2; Vis 34; WL 9.0; PH 12.0; Solids 5.6 - DFS: 9 - TMC: $3,956 - TAC: $129,477

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-2-81) (PTD 5,550')

3-10-81 - Depth 4,325' (280') Drlg - Drld from 4,045' to 4,325' in 18-1/2 hrs w/trip f/new bit @ 4,106' - Survey: 4,100' 3/4°; MW 9.2; Vis 36; WL 8.4; PH 10.0; Solids 6.4 - DFS: 10 - TMC: $5,153 - TAC: $142,789

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-2-81) (PTD 5,550'

3-11-81 - Depth 4,620' (295') Drlg - Drld from 4,325' to 4,620' in 22-3/4 hrs; Survey: 4,560' 1/2°; MW 9.2; Vis 36; WL 8.4; PH 10; Solids 6.4; DFS: 11 - TMC: $6,434 - TAC: $157,702

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-2-81) (PTD 5,550'

3-12-81 - Depth 4,850' (230') Drlg - Drld from 4,620' to 4,850' in 23-1/2 hrs. MW 9.1; Vis 34; WL 8.4; PH 10.0; Solids 5.7 - DFS: 12 - TMC: $7,673 - TAC: $167,094

ERG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-2-81) (PTD 5,550'

3-13-81 - Depth 5,092' (242') Drlg - Drld from 4,850' to 5,092' in 22-1/4 hrs - Repaired torque convertor on 1 engine; Survey: 5,050' 1-3/4°; MW 9.1; Vis 35; WL 9.0; PH 10; Solids 5.0 DFS: 13 - TMC: $9,080 - TAC: $176,671

RG-USA PEARL BROADHURST #11, (D) (ERG WI 100%) Walker Hollow, Uintah, UT (FR 3-2-81) (PTD 5,550')

-14-81 - Depth 5,246' (154') TIH w/new bit - Drld from 5,092' to 5,246' in 19-3/4 hrs. Survey: 5,240' 1-1/4° ; MW 9.0; Vis 34; WL 8.4; PH 10.5; Solids 4.9 - DFS: 14 - TMC: $ 10,448 - TAC: $186,317

-15-81 - Depth 5,425' (179') Drlg - Finished TIH - Drld from 5,240' to 5,246' in 22-1/4 hrs. MW 9.0; Vis 34; WL 7.4; PH 10.5; Solids 4.9 - DFS: 15- TMC: $11,653 - TAC: $195,684

-16-81 - Depth 5,593' (168') Drlg - Drld from 5,425' to 5,593' in 23-3/4 hrs. MW 9.1; Vis 36; WL 8; PH 10; Solids 5.7 - DFS: 16 - TMC: $13,048 - TAC: $207,696

Well History Summary

ATTACHMENT F-2
(1-2)

Well: Pearl Broadhurst #11

API: 43-047-30840

Location: 713' FNL 1747' FEL, NW NE, Section 10, T-7-S, R-23-E, Uintah Co., Utah

Elevations: 5204' GL 5191' KB

TD: 5610' KB

PBTD: 5551' KB

Casing: 8 5/8" 24# K-55 @ 508' cmt'd W/380 sx (12 1/4" Hole)
5 1/2" 14# K-55 @ 5597' cmt'd W/750 sx (7 7/8" Hole)

Tubing: 165 jts 2 7/8" 6.5# J-55 8rd EUE tbg

Initial Completion: 4 – 5/81 Perf Green River "K" 5363-67' & "J" 5305-06, 5297-5300, 5271-72, & 5248' (1JSPF). Set packer at 5212'. CBL showed TOC @ 1800'+. Acidize Green River perforations W/1000 gal 7.5% HCl & ball sealers. Treated at 7.25 BPM. Broke at 3800 psi. ISIP 1500#, 5 min 600#, 10 min 300#, 15 min 100 #. Sd frac "J" 5248-306' & "K" 5363-67' together down casing W/10,000 gal Super-E pad & 33,000 gal Super-E fluid W/55,000# 20-40 sd & 24,000# 10-20 sand. Avg. rate 38 BPM at 3450 psi. ISIP 1700#, 5 min 1530#, 10 min 1420#, 15 min 1280#. Run pump and rods. Turn to production.

Initial Potential: 140 BOPD + 125 BWPD - Oil Gravity 29 degrees API

Logs: BHC Acoustiliog-GR-Caliper, CDL/CNL-GR-Caliper, DIL-SP-GR, Composite Log, & CBL/VDL-GR-CCL

Well Status: TA'd Greenriver Producer

Updated: 11/25/03

Perforations: Green River "J": 5248, 71 – 72, 97 – 5300, & 05 – 06' (1 JSPF) **(4/81)**
Green River "K": 5363 – 67' (1 JSPF) **(4/81)**

History Summary:

4/82 Pump change.

5/83 Hot oil. Pump change.

9/83 Hot oil. Pump change.

12/83 Hot oil. Pump change.

6/84 Strip out. Hot oil. Pump change.

1/85 Circulate sand out of hole. Hot oil. Pump change.

4/86	TOOH W/tbg. Replace SN. Hot oil. Pump change.
5/86	Hot oil. Pump change.
7/86	Tag fill at 5520'. Pump change.
10/88	Hot oil. Pump change.
2/89	Tag fill @ 5412'. Hot oil. Pump change.
1/90	Hot oil. RIH W/bit and scraper. Tag at 5246' (bad casing), TOOH. RIH W/tbg. Clean out fill to 5531'. Pump change.
2/70	Pull pump. Tag fill at 5402'. Pump change.
3/90	Hot oil. Pump change.
8/90	Strip out of hole with rods and tubing (parted rods). RIH W/4 $^{7}/_{8}$" swage to 5250' K.B. stopped moving, TOOH. RIH W/4 ¼" swage to 5255'. Circulate hole clean. Cement in returns. TOOH, 1 ½" X 6" piece of casing in swage. RIH W/2 $^{7}/_{8}$" notched collar. Circulate hole clean at 5246.5'. Rotated, unable to go lower. Pieces of cement in returns. TOOH. RIH W/prd tbg & new pump. Psi test to 1000#, OK. RDMO
9/90	S.I. due to parted or collapsed casing at 5248' (top perf).
3 – 4/92	TOOH W/tbg. RIH W/mule shoe & tbg, tag fill at 5248' KB. Spend next 20 working days using various bits, reamers, & mills to CO well from 5248' to TD @ 5370'. Lose 100 BBLS mud during CO operations. Recovered cmt, sd, shale, & metal pieces & shavings in returns during CO operations. Tight spot noted at 5256 - 59'. Had to mill & ream to dress up tight spot. PU 4 jts (133.74') of 3-$^{1}/_{2}$" flush jt slotted liner, 12.95 # W/FL4S threads. Btm of liner fitted W/guide shoe and top of liner fitted with Lindsey Model "J" setting adapter. TIH and set liner F/5234 – 5368'. Displace mud W/120 BBLS lease water. Swab test well. RU Western and load hole W/118 BBLS lse wtr. Spot 200 gal acid mud flush (15% HCl containing corrosion inhibitors, surfactants & iron sequestering agents). Rev circ acid out. Spot 550 gal of same acid across liner and pump into the formation W/10 BBLS lse wtr at 3/4 BPM W/a max press of 700 psi. ISIP 140 psi, 1-1/2 hr on a vacuum. Swab well. Put well on production. Prod before = SI. Prod after = 0 BOPD + 114 BWPD. ($108,101)
7/92	SI well as uneconomic to produce.
10/00	POOH & LD rods. Sting into & POOH W/3 ½" slotted liner. RIH & set Baker 5 ½" model "C" cup-type RBP W/"H" style retrieving head @ 5223'. LD 16' of tbg subs. Circ hole W/PKR fluid. TA well. ($16,385)

CITATION OIL & GAS CORP.
APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL
U.S.A. PEARL BROADHURST #11
WALKER HOLLOW (GREEN RIVER) FIELD
LEASE # UTU-02651A

ATTACHMENT G

OPERATING DATA

Submit the following proposed operating data for each well, (including all those to be covered by area permits):

(1) Average and maximum daily rate and volume of the fluids to be injected.
(2) Average and maximum injection pressure.
(3) Nature of annulus fluid.

(And for class II wells)

(4) Source and analysis of the physical and chemical characteristics of the injection fluid.

(1) Estimated average daily rate is **600** BPD, estimated maximum daily rate is **1200** BPD.

(2) The average and maximum surface pressure will be determined upon testing not to exceed 1694 psi.

(3) The nature of the annular fluid is packer fluid (chemically enhanced water) to protect against casing and tubing corrosion.

(4) The injected fluid is produced water from the USA Pearl Broadhurst lease and the Walker Hollow Unit. (See attachments D-1 through D-3 for analysis)

CITATION OIL & GAS CORP.
APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL
U.S.A. PEARL BROADHURST #11
WALKER HOLLOW (GREEN RIVER) FIELD
LEASE # UTU-02651A

ATTACHMENT H

CONSTRUCTION DETAILS

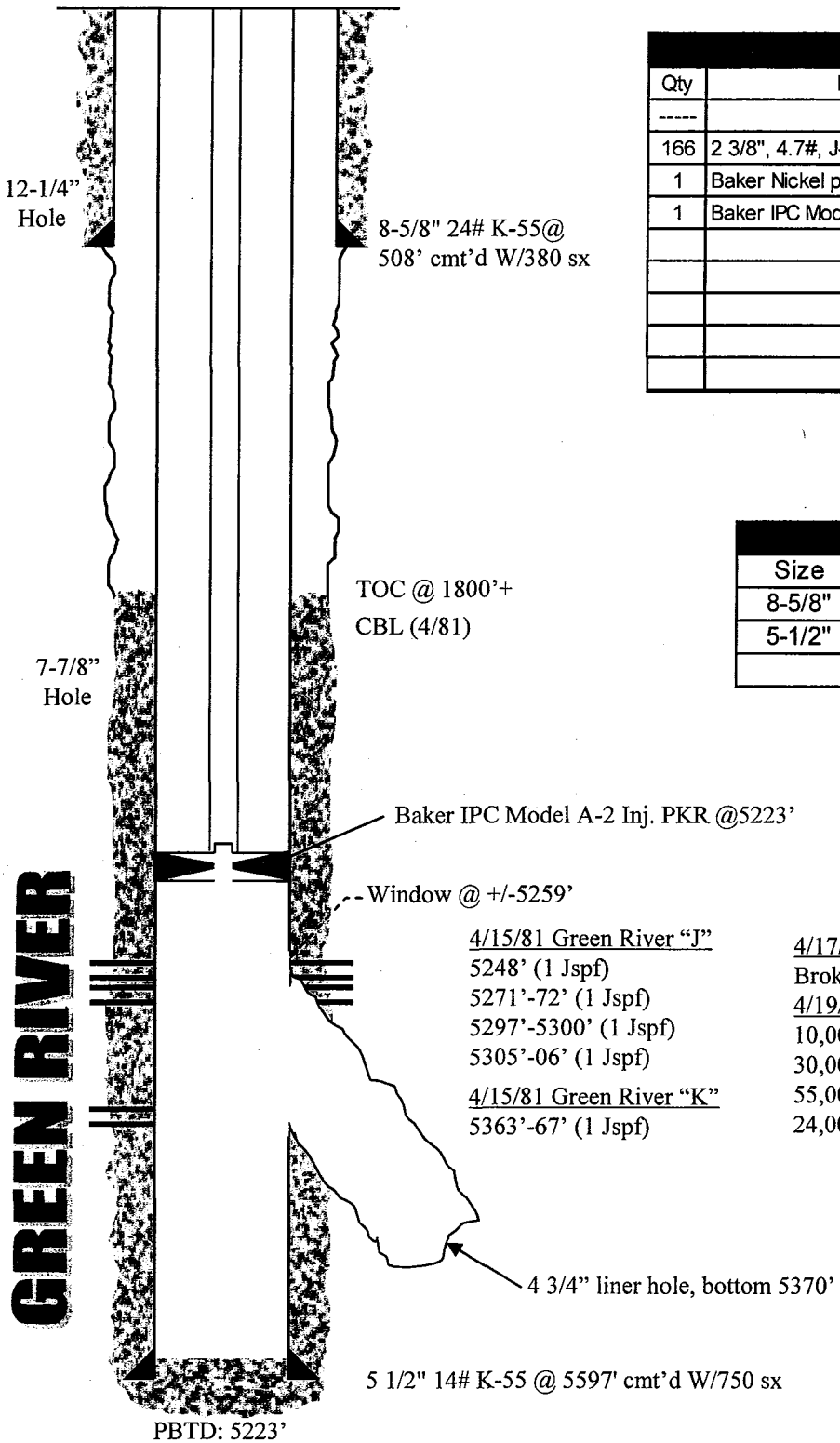
Submit schematic or other appropriate drawings of the surface and subsurface construction details of the well.

Attachment H-1	Wellbore Schematic of USA Pearl Broadhurst 11
Attachment H-2	Site Plan of USA Pearl Broadhusrt 11

CITATION OIL & GAS CORP.
PROPOSED PEARL BROADHURST #11 INJECTION CONFIGURATION
(NW/NE) Sec. 10-T7S-R23E
UINTAH CO., UTAH

ATTACHMENT H-1

KB: 13 FT
GL: 5191 FT
Status: Shut in-TA



TUBING DETAIL			
Qty	Description	Length	Depth
-----	KB	13	13
166	2 3/8", 4.7#, J-55, 8rd, IPC EUE tbg	5204	5217
1	Baker Nickel plated On/Off Tool	2	5219
1	Baker IPC Model A-2 Injection PKR	4	5223

CASING DETAIL			
Size	Weight	Grade	Depth
8-5/8"	24	K-55	0-508
5-1/2"	14	K-55	0-5597

4/15/81 Green River "J"
5248' (1 Jspf)
5271'-72' (1 Jspf)
5297'-5300' (1 Jspf)
5305'-06' (1 Jspf)

4/15/81 Green River "K"
5363'-67' (1 Jspf)

4/17/81 Stimulation:
Broke perfs w/ 1000 gal 7.5% HCL
4/19/81 Frac(both zones):
10,000 gal Super-E pad
30,000 gal Super-E fluid
55,000 # 20-40 sand
24,000 # 10-20 sand

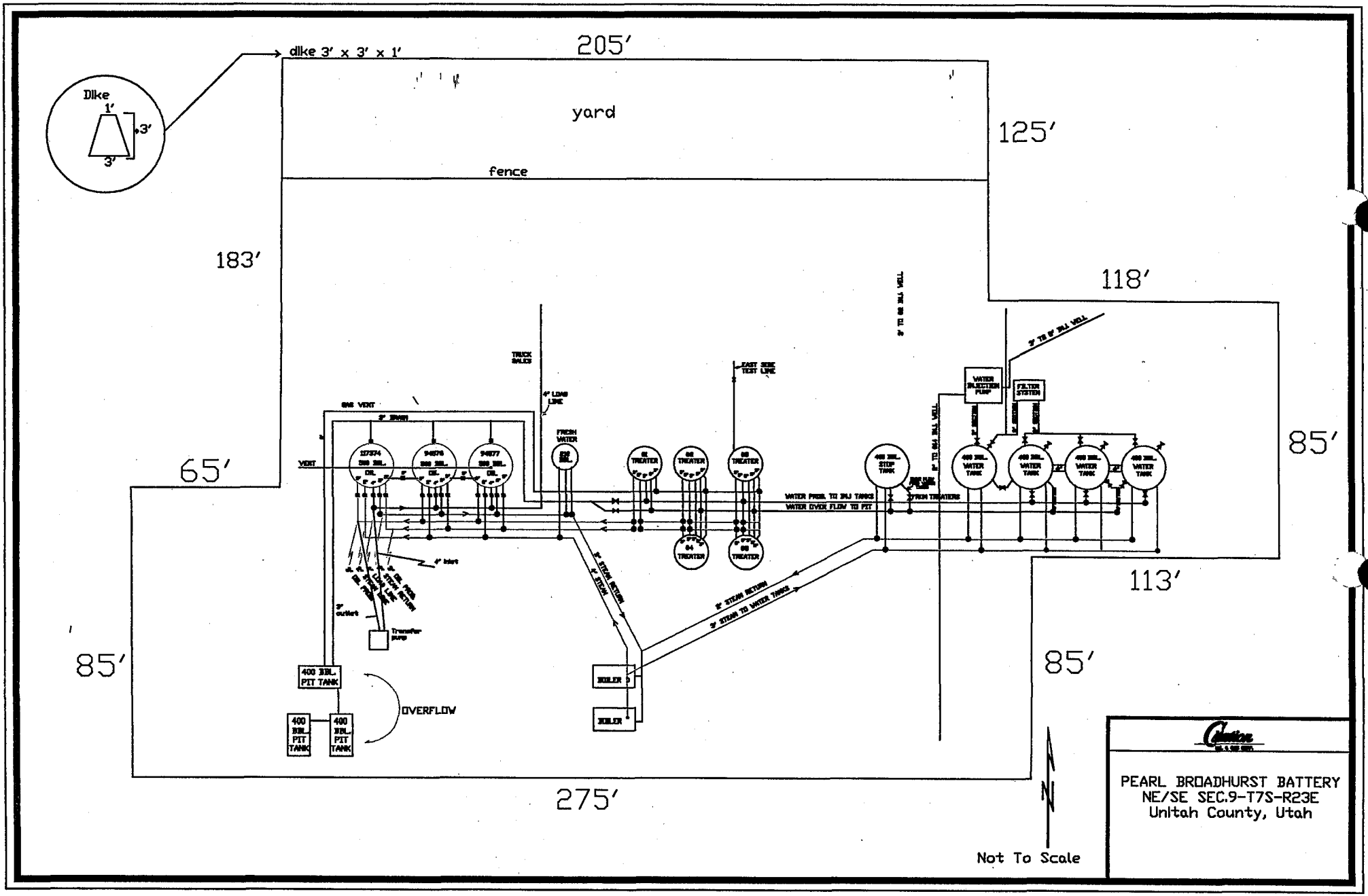
PBTD: 5223'
TD: 5610'

All depths KB unless noted.
Updated: 2-12-04

ATTACHMENT H-2

Site Security Plan Located at: Citation Oil & Gas Corp.
8223 Willow Place South
Houston, Tx 77070

Citation Oil & Gas Corp
1016 East Lincoln
Gillette, Wy 82716



CITATION OIL & GAS CORP.
APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL
U.S.A. PEARL BROADHURST #11
WALKER HOLLOW (GREEN RIVER) FIELD
LEASE # UTU-02651A

ATTACHMENT I

PROPOSED PLUGGING AND ABANDONMENT PROCEDURE

Submit a plan for plugging and abandonment of the well. Submit this information on EPA Form 7520-14, Plugging and Abandonment Plan.

Attachment I-1	EPA FORM 7520-14 – Plugging and Abandonment Plan
Attachment I-2	Wellbore Schematic of Proposed Plugging Plan
Attachment I-3	Work Procedure for Plugging and Abandonment

Form Approved. OMB No. 2040-0042 Approval

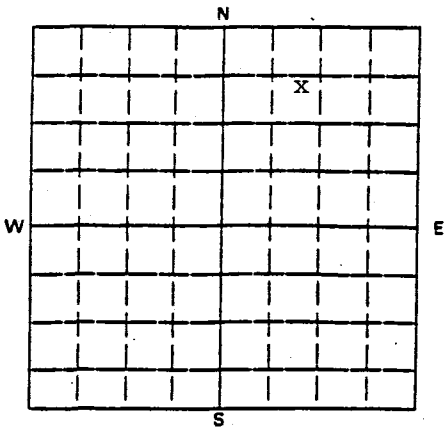
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

ATTACHMENT I-1

EPA PLUGGING AND ABANDONMENT PLAN

NAME AND ADDRESS OF FACILITY	NAME AND ADDRESS OF OWNER/OPERATOR
USA Pearl Broadhurst 11 Section 11-Township 7S- Range 23E Uintah County, Utah	Citation Oil & Gas Corp. 8223 Willow Place South Houston, Texas 77070

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER
Utah	Uintah	43-047-30840

SURFACE LOCATION DESCRIPTION
___ 1/4 of ___ 1/4 of NW 1/4 of NE 1/4 of Section 11 Township 7S Range 23E

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location 713 ft. from (N/S) N Line of quarter section

and 1747 ft. from (E/W) E Line of quarter section

TYPE OF AUTHORIZATION

- ☒ Individual Permit
- ☐ Area Permit
- ☐ Rule

Number of Wells 1

WELL ACTIVITY

- ☐ CLASS I
- ☒ CLASS II
  - ☐ Brine Disposal
  - ☒ Enhanced Recovery
  - ☐ Hydrocarbon Storage
- ☐ CLASS III

Lease Name USA Pearl Broadhurst Well Number 11

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
8 5/8	24	508	508	12 1/4
5 1/2	14	5597	5597	7 7/8

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
- ☐ The Dump Bailer Method
- ☐ The Two-Plug Method
- ☐ Other

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	5 1/2"	5 1/2"	5 1/2	5 1/2	8 5/8		
Depth to Bottom of Tubing or Drill Pipe (ft.)	5223 ±	2700±	380±	100±	50±		
Sacks of Cement To Be Used (each plug)	100	22	30	11	8		
Slurry Volume To Be Pumped (cu. ft.)							
Calculated Top of Plug (ft.)	5100±	2500±	353±	4±	4±		
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)							
Type Cement or Other Material (Class III)	50/50 Poz	50/50Poz	50/50Poz	50/50Poz	50/50Poz		

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED *(If any)*

From	To	From	To
5248	5305		
5363	5367		

Estimated Cost to Plug Wells

$45,000

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

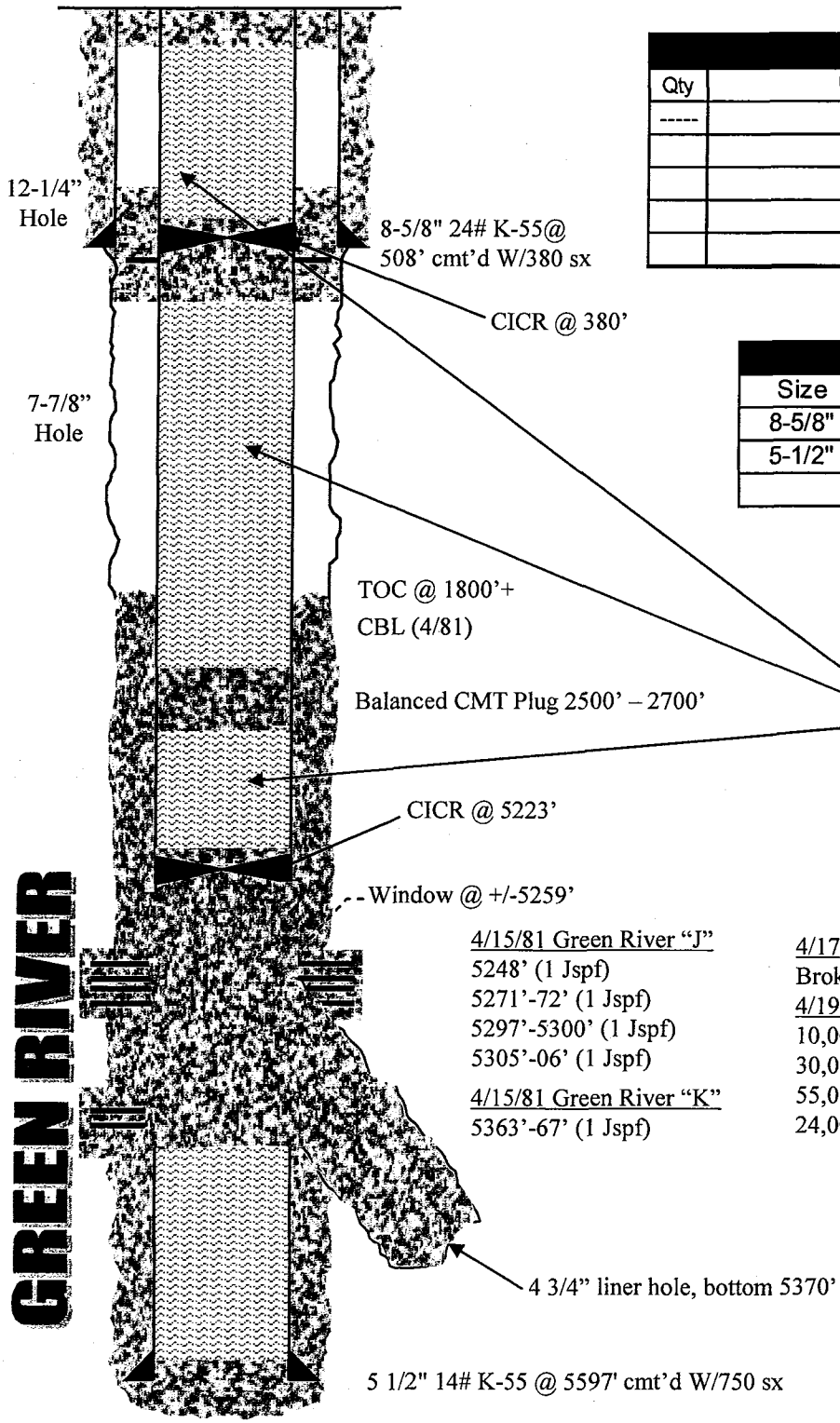
NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED
Sharon Ward Regulatory Administrator	Sharon Ward	2-20-04

EPA Form 7520-14

CITATION OIL & GAS CORP.
PROPOSED PEARL BROADHURST #11 PLUG & ABANDON CONFIGURATION
(NW/NE) Sec. 10-T7S-R23E
UINTAH CO., UTAH

ATTACHMENT I-2

KB: 13 FT
GL: 5191 FT
Status: P&A



TUBING DETAIL			
Qty	Description	Length	Depth
-----	KB	13	13

CASING DETAIL			
Size	Weight	Grade	Depth
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4/15/81 Green River "K"
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4/17/81 Stimulation:
Broke perfs w/ 1000 gal 7.5% HCL
4/19/81 Frac(both zones):
10,000 gal Super-E pad
30,000 gal Super-E fluid
55,000 # 20-40 sand
24,000 # 10-20 sand

PBTD: 5223'
TD: 5610'

All depths KB unless noted.
Updated: 2-12-04

CITATION OIL & GAS CORPORATION
PEARL BROADHURST – PB #11
P&A PROCEDURE

ATTACHMENT I-3

DATE: 2-13-04 **WELL NO.** PB #11

1. Load & pressure test csg to 300 psi.

2. MIRU. ND wellhead. NU BOP. POOH & LD Inj PKR & tbg. PU bit & scraper for 5 1/2", 14# csg & +/-166 jts 2 7/8" tbg for plugging operations. Round trip bit & scraper to 5245'.

3. If leaks were detected in Step 1., POOH W/tbg & tools. PU & RIH W/PKR & identify csg leak(s). Cmt SQZ'ing provisions will be made accordingly. Otherwise, proceed to step 4.

4. TIH W/CICR on 2 7/8" tubing & set @ +/-5223' KB. Establish inj. rate & press. Mix & pump 100 total sx cmt. SQZ under CICR W/90 sx 50/50 Pozmix containing 2% gel. Sting out of CICR and dump 10 sx cmt on top of CICR.

5. Pull end of tbg to +/-5000'. Reverse clean W/9 ppg gel.

6. Pull end of tbg to +/-2700' & spot a 22 sack (200') balanced cmt plug from 2700 – 2500'.

7. Pull end of tbg to +/-2400'. Reverse clean W/9 ppg gel. TOOH.

8. RU wireline perf 4 SQZ holes @ 430'.

9. TIH W/CICR on 2 7/8" tubing & set @ 380' KB. Establish inj. rate & press. Mix & pump 30 total sx cmt. SQZ under CICR W/24 sx 50/50 Pozmix containing 2% gel. Sting out of CICR and dump 6 sx cmt on top of CICR.

10. Pull end of tbg to 250' & reverse circ clean W/9 ppg gel.

11. Spot an 11 sack cmt plug from 100' - surface inside 5 1/2" csg.

12. If possible, using 1" tbg, spot 8 sx cmt (50') into annulus between 8 5/8" & 5 1/2" csg.

13. Cut off csg 4' below GL & install marker as per BLM specifications.

14. Reclaim location as per BLM specifications.

CITATION OIL & GAS CORP.
APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL
U.S.A. PEARL BROADHURST #11
WALKER HOLLOW (GREEN RIVER) FIELD
LEASE # UTU-02651A

ATTACHMENT J

Submit evidence such as a surety bond or financial statement to verify that the resources necessary to close, plug, or abandon the well are available.

Citation submits a copy of letter dated February 13, 2004, requesting to add the USA Pearl Broadhurst #11 to our Financial Surety on file with the United States Environmental Protection Agency Region VIII, 999 18th Street, Suite 500, Denver, CO 80202-2466

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 Enginee

jc

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7223 • *www.ogm.utah.gov*

Utah!
Where ideas connect

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

EPA

UNDERGROUND INJECTION CONTROL PROGRAM

PERMIT

PREPARED: January 2005

Permit No. UT20970-06388

Class II Enhanced Oil Recovery Injection Well

USA Pearl Broadhurst 11
Uintah County, UT

Issued To

Citation Oil _Gas Corporation
8223 Willow Place South
Suite 250
Houston, TX 77070

Part I. AUTHORIZATION TO CONSTRUCT AND OPERATE

Under the authority of the Safe Drinking Water Act and Underground Injection Control (UIC) Program regulations of the U. S. Environmental Protection Agency (EPA) codified at Title 40 of the Code of Federal Regulations (40 CFR) Parts 2, 124, 144, 146, and 147, and according to the terms of this Permit,

Citation Oil & Gas Corporation 8223 Willow Place South Suite 250 Houston, TX 77070

is authorized to construct and to operate the following Class II injection well or wells:

USA Pearl Broadhurst 11 713' FNL & 1747' FEL, NWNE S10, T7S, R23E Uintah County, UT

Permit requirements herein are based on regulations found in 40 CFR Parts 124, 144, 146, and 147 which are in effect on the Effective Date of this Permit.

This Permit is based on representations made by the applicant and on other information contained in the Administrative Record. Misrepresentation of information or failure to fully disclose all relevant information may be cause for termination, revocation and reissuance, or modification of this Permit and/or formal enforcement action. This Permit will be reviewed periodically to determine whether action under 40 CFR 144.36(a) is required.

This Permit is issued for the life of the well unless modified, revoked and reissued, or terminated under 40 CFR 144.39 or 144.40. This Permit may be adopted, modified, revoked and reissued, or terminated if primary enforcement authority for this program is delegated to an Indian Tribe or a State. Upon the effective date of delegation, all reports, notifications, questions and other compliance actions shall be directed to the Indian tribe or State Program Director or designee.

Issue Date: FEB - 8 2005

Effective Date FEB - 8 2005

Carl L. Campbell for

Stephen S. Tuber
Assistant Regional Administrator*
Office of Partnerships and Regulatory Assistance

*NOTE: The person holding this title is referred to as the "Director" throughout this Permit.

PART II. SPECIFIC PERMIT CONDITIONS

Section A. WELL CONSTRUCTION REQUIREMENTS

These requirements represent the approved minimum construction standards for well casing and cement, injection tubing, and packer.

Details of the approved well construction plan are incorporated into this Permit as APPENDIX A. Changes to the approved plan that may occur during construction must be approved by the Director prior to being physically incorporated.

1. Casing and Cement.

The well or wells shall be cased and cemented to prevent the movement of fluids into or between underground sources of drinking water. The well casing and cement shall be designed for the life expectancy of the well and of the grade and size shown in APPENDIX A. Remedial cementing may be required if shown to be inadequate by cement bond log or other attempted demonstration of Part II (External) mechanical integrity.

2. Injection Tubing and Packer.

Injection tubing is required, and shall be run and set with a packer at or below the depth indicated in APPENDIX A. The packer setting depth may be changed provided it remains below the depth indicated in APPENDIX A and the Permittee provides notice and obtains the Director's approval for the change.

3. Sampling and Monitoring Devices.

The Permittee shall install and maintain in good operating condition:

(a) a "tap" at a conveniently accessible location on the injection flow line between the pump house or storage tanks and the injection well, isolated by shut-off valves, for collection of representative samples of the injected fluid; and

(b) one-half (1/2) inch female iron pipe fitting, isolated by shut-off valves and located at the wellhead at a conveniently accessible location, for the attachment of a pressure gauge capable of monitoring pressures ranging from normal operating pressures up to the Maximum Allowable Injection Pressure specified in APPENDIX C:

  (i) on the injection tubing; and

  (ii) on the tubing-casing annulus (TCA); and

(c) a pressure actuated shut-off device attached to the injection flow line set to shut-off the injection pump when or before the Maximum Allowable Injection Pressure specified in APPENDIX C is reached at the wellhead; and

(d) a non-resettable cumulative volume recorder attached to the injection line.

4. Well Logging and Testing

Well logging and testing requirements are found in APPENDIX B. The Permittee shall ensure the log and test requirements are performed within the time frames specified in APPENDIX B. Well logs and tests shall be performed according to current EPA-approved procedures. Well log and test results shall be submitted to the Director within sixty (60) days of completion of the logging or testing activity, and shall include a report describing the methods used during logging or testing and an interpretation of the test or log results.

5. Postponement of Construction or Conversion

The Permittee shall complete well construction within one year of the Effective Date of this Permit. Authorization to construct and operate shall expire and the Permit may be terminated under 40 CFR 144.40 if the well has not been constructed within one year of the Effective Date of the Permit unless the Permittee has notified the Director and requested an extension prior to expiration. Notification shall be in writing, and shall state the reasons for the delay and provide an estimated completion date. Once Authorization has expired under this part, the complete permit process including opportunity for public comment may be required before Authorization to construct and operate can be reissued.

6. Workovers and Alterations

Workovers and alterations shall meet all conditions of the Permit. Prior to beginning any addition or physical alteration to the injection well that may significantly affect the tubing, packer or casing, the Permittee shall give advance notice to the Director and obtain the Director's approval. The Permittee shall record all changes to the well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workover, logging, or test data to EPA within sixty (60) days of completion of the activity.

A successful demonstration of Part I MI is required following the completion of any well workover or alteration which affects the casing, tubing, or packer. Injection operations shall not be resumed until the well has successfully demonstrated mechanical integrity and the Director has provided written approval to resume injection.

Section B. MECHANICAL INTEGRITY

The Permittee is required to ensure each injection well maintains mechanical integrity at all times. The Director, by written notice, may require the Permittee to comply with a schedule describing when mechanical integrity demonstrations shall be made.

An injection well has mechanical integrity if:

(a) There is no significant leak in the casing, tubing, or packer (Part I); and

(b) There is no significant fluid movement into an underground source of drinking water throught vertical channels adjacent to the injection well bore (Part II).

1. Demonstration of Mechanical Integrity (MI).

The operator shall demonstrate MI prior to commencing injection and periodically thereafter. Well-specific conditions dictate the methods and the frequency for demonstrating MI and are discussed in the Statement of Basis. The logs and tests are designed to demonstrate both internal (Part I) and external (Part II) MI as described above. The conditions present at this well site warrant the methods and frequency required in Appendix B of this Permit.

In addition to these regularly scheduled demonstrations of MI, the operator shall demonstrate internal (Part I) MI after any workover which affects the tubing, packer or casing.

The Director may require additional or alternative tests if the results presented by the operator are not satisfactory to the Director to demonstrate there is no movement of fluid into or between USDWs resulting from injection activity. Results of MI tests shall be submitted to the Director as soon as possible but no later than sixty (60) days after the test is complete.

2. Mechanical Integrity Test Methods and Criteria

EPA-approved methods shall be used to demonstrate mechanical integrity. A current copy of Ground Water Section Guidance No. 34 "Cement Bond Logging Techniques and Interpretation", Ground Water Section Guidance No. 37, "Demonstrating Part II (External) Mechanical Integrity for a Class II injection well permit", and Ground Water Section Guidance No. 39, "Pressure Testing Injection Wells for Part I (Internal) Mechanical Integrity" are provided at issuance of this Permit.

The Director may stipulate specific test methods and criteria best suited for a specific well construction and injection operation.

3. Notification Prior to Testing.

The Permittee shall notify the Director at least 30 days prior to any scheduled mechanical integrity test. The Director may allow a shorter notification period if it would be sufficient to enable EPA to witness the mechanical integrity test. Notification may be in the form of a yearly or quarterly schedule of planned mechanical integrity tests, or it may be on an individual basis.

4. Loss of Mechanical Integrity.

If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity becomes evident during operation (such as presence of pressure in the TCA, water flowing at the surface, etc.), the Permittee shall notify the Director within 24 hours (see Part III Section E Paragraph 11(e) of this Permit), and the well shall be shut-in within 48 hours unless the Director requires immediate shut-in.

Within five days, the Permittee shall submit a follow-up written report that documents test results, repairs undertaken or a proposed remedial action plan.

Injection operations shall not be resumed until after the well has successfully been repaired and demonstrated mechanical integrity, and the Director has provided approval to resume injection.

Section C. WELL OPERATION

INJECTION BETWEEN THE OUTERMOST CASING PROTECTING UNDERGROUND SOURCES OF DRINKING WATER AND THE WELL BORE IS PROHIBITED.

Injection is approved under the following conditions:

1. Requirements Prior to Commencing Injection.

Injection operation may commence only after all construction and pre-injection requirements herein have been met and approved. Except for new wells authorized by an Area Permit under 40 CFR 144.33 (c), the Permittee may not commence injection until construction is complete, and

(a) The Permittee has submitted to the Director a notice of completion of construction and a completed EPA Form 7520-12; all applicable logging and testing requirements of this Permit (see APPENDIX B) have been fulfilled and the records submitted to the Director; mechanical integrity pursuant to 40 CFR 146.8 and Part II Section B of this Permit has been demonstrated; and

(i) The Director has inspected or otherwise reviewed the new injection well and finds it is in compliance with the conditions of the Permit; or

(ii) The Permittee has not received notice from the Director of his or her intent to inspect or otherwise review the new injection well within 13 days of the date of the notice in Paragraph 1a, in which case prior inspection or review is waived and the Permittee may commence injection.

2. Injection Interval.

Injection is permitted only within the approved injection interval listed in APPENDIX C. Additional individual injection perforations may be added provided that they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6.

3. Injection Pressure Limitation

(a) The permitted Maximum Allowable Injection Pressure (MAIP), measured at the wellhead, is found in APPENDIX C. Injection pressure shall not exceed the amount the Director determines is appropriate to ensure that injection does not initiate new fractures or propagate existing fractures in the confining zone adjacent to USDWs. In no case shall injection pressure cause the movement of injected or formation fluids into a USDW.

(b) The Permittee may request a change of the MAIP, or the MAIP may be increased or decreased by the Director in order to ensure that the requirements in Paragraph (a) above are fulfilled. The Permitee may be required to conduct a step rate injection test or other suitable test to provide information for determining the fracture pressure of the injection zone. Change of the permitted MAIP by the Director shall be by modification of this Permit and APPENDIX C.

4. Injection Volume Limitation.

Injection volume is limited to the total volume specified in APPENDIX C.

5. Injection Fluid Limitation.

Injected fluids are limited to those identified in 40 CFR 144.6(b)(2) as fluids used for enhanced recovery of oil or natural gas, including those which are brought to the surface in connection with conventional oil or natural gas production that may be commingled with waste waters from gas plants which are an integral part of production operations unless those waters are classified as a hazardous waste at the time of injection, pursuant to 40 CFR 144.6(b). Non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes and vacuum truck wastes, are NOT approved for injection. This well is NOT approved for commercial brine injection, industrial waste fluid disposal or injection of hazardous waste as defined by CFR 40 Part 261. The Permittee shall provide a listing of the sources of injected fluids in accordance with the reporting requirements in Part II Section D Paragraph 4 and APPENDIX D of this Permit.

6. Tubing-Casing Annulus (TCA)

The tubing-casing annulus (TCA) shall be filled with water treated with a corrosion inhibitor, or other fluid approved by the Director. The TCA valve shall remain closed during normal operating conditions and the TCA pressure shall be maintained at zero (0) psi.

If TCA pressure cannot be maintained at zero (0) psi, the Permittee shall follow the procedures in Ground Water Section Guidance No. 35 "Procedures to follow when excessive annular pressure is observed on a well."

Section D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS

1. Monitoring Parameters, Frequency, Records and Reports.

Monitoring parameters are specified in APPENDIX D. Pressure monitoring recordings shall be taken at the wellhead. The listed parameters are to be monitored, recorded and reported at the frequency indicated in APPENDIX D even during periods when the well is not operating.

Monitoring records must include:

(a) the date, time, exact place and the results of the observation, sampling, measurement, or analysis, and;

(b) the name of the individual(s) who performed the observation, sampling, measurement, or analysis, and;

(c) the analytical techniques or methods used for analysis.

2. Monitoring Methods.

(a) Monitoring observations, measurements, samples, etc. taken for the purpose of complying with these requirements shall be representative of the activity or condition being monitored.

(b) Methods used to monitor the nature of the injected fluids must comply with analytical methods cited and described in Table 1 of 40 CFR 136.3 or Appendix III of 40 CFR 261, or by other methods that have been approved in writing by the Director.

(c) Injection pressure, annulus pressure, injection rate, and cumulative injected volumes shall be observed and recorded at the wellhead under normal operating conditions, and all parameters shall be observed simultaneously to provide a clear depiction of well operation.

(d) Pressures are to be measured in pounds per square inch (psi).

(e) Fluid volumes are to be measured in standard oil field barrels (bbl).

(f) Fluid rates are to be measured in barrels per day (bbl/day).

3. Records Retention.

(a) Records of calibration and maintenance, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained for a period of AT LEAST THREE (3) YEARS from the date of the sample, measurement, report, or application. This period may be extended anytime prior to its expiration by request of the Director.

(b) Records of the nature and composition of all injected fluids must be retained until three (3) years after the completion of any plugging and abandonment (P&A) procedures specified under 40 CFR 144.52(a)(6) or under Part 146 Subpart G, as appropriate. The Director may require the Permittee to deliver the records to the Director at the conclusion of the retention period. The Permittee shall continue to retain the records after the three (3) year retention period unless the Permittee delivers the records to the Director or obtains written approval from the Director to discard the records.

(c) The Permittee shall retain records at the location designated in APPENDIX D.

4. Annual Reports.

Whether the well is operating or not, the Permittee shall submit an Annual Report to the Director that summarizes the results of the monitoring required by Part II Section D and APPENDIX D.

The first Annual Report shall cover the period from the effective date of the Permit through December 31 of that year. Subsequent Annual Reports shall cover the period from January 1 through December 31 of the reporting year. Annual Reports shall be submitted by February 15 of the year following data collection. EPA Form 7520-11 may be copied and shall be used to submit the Annual Report, however, the monitoring requirements specified in this Permit are mandatory even if EPA Form 7520-11 indicates otherwise.

Section E. PLUGGING AND ABANDONMENT

1. Notification of Well Abandonment, Conversion or Closure.

The Permittee shall notify the Director in writing at least forty-five (45) days prior to: 1) plugging and abandoning the well, 2) converting to a non-injection well, or 3) in the case of an Area Permit, before closure of the project.

2. Well Plugging Requirements

Prior to abandonment, the injection well shall be plugged with cement in a manner which prevents the movement of fluids into or between underground sources of drinking water. Prior to placement of the cement plug(s) the well shall be in a state of static equilibrium with the mud weight equalized top to bottom, either by circulating the mud in the well at least once or by a comparable method prescribed by the Director. The well shall be plugged in accordance with the approved plugging and abandonment plan and with 40 CFR 146.10.

3. Approved Plugging and Abandonment Plan.

The approved plugging and abandonment plan is incorporated into this Permit as APPENDIX E. Changes to the approved plugging and abandonment plan must be approved by the Director prior to beginning plugging operations. The Director also may require revision of the approved plugging and abandonment plan at any time prior to plugging the well.

4. Forty Five (45) Day Notice of Plugging and Abandonment.

The Permittee shall notify the Director at least forty-five (45) days prior to plugging and abandoning the well and provide notice of any anticipated change to the approved plugging and abanonment plan.

5. Plugging and Abandonment Report.

Within sixty (60) days after plugging a well, the Permittee shall submit a report (EPA Form 7520-13) to the Director. The plugging report shall be certified as accurate by the person who performed the plugging operation. Such report shall consist of either:

(a) A statement that the well was plugged in accordance with the approved plugging and abandonment plan; or

(b) Where actual plugging differed from the approved plugging and abandonment plan, an updated version of the plan, on the form supplied by the Director, specifying the differences.

6. Inactive Wells.

After any period of two years during which there is no injection the Permittee shall plug and abandon the well in accordance with Part II Section E Paragraph 2 of this Permit unless the Permittee:

(a) Provides written notice to the Director;

(b) Describes the actions or procedures the Permittee will take to ensure that the well will not endanger USDWs during the period of inactivity. These actions and procedures shall include compliance with mechanical integrity demonstration, Financial Responsibility and all other permit requirements designed to protect USDWs; and

(c) Receives written notice by the Director temporarily waiving plugging and abandonment requirements.

PART III. CONDITIONS APPLICABLE TO ALL PERMITS

Section A. EFFECT OF PERMIT

The Permittee is allowed to engage in underground injection in accordance with the conditions of this Permit. The Permittee shall not construct, operate, maintain, convert, plug, abandon, or conduct any other activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR 142 or may otherwise adversely affect the health of persons. Any underground injection activity not authorized by this Permit or by rule is prohibited. Issuance of this Permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of State or local law or regulations. Compliance with the terms of this Permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment, for any imminent and substantial endangerment to human health or the environment, nor does it serve as a shield to the Permittee's independent obligation to comply with all UIC regulations. Nothing in this Permit relieves the Permittee of any duties under applicable regulations.

Section B. CHANGES TO PERMIT CONDITIONS

1. Modification, Reissuance, or Termination.

The Director may, for cause or upon a request from the Permittee, modify, revoke and reissue, or terminate this Permit in accordance with 40 CFR 124.5, 144.12, 144.39, and 144.40. Also, this Permit is subject to minor modification for causes as specified in 40 CFR 144.41. The filing of a request for modification, revocation and reissuance, termination, or the notification of planned changes or anticipated noncompliance on the part of the Permittee does not stay the applicability or enforceability of any condition of this Permit.

2. Conversions.

The Director may, for cause or upon a written request from the Permittee, allow conversion of the well from a Class II injection well to a non-Class II well. Conversion may not proceed until the Permittee receives written approval from the Director. Conditions of such conversion may include but are not limited to, approval of the proposed well rework, follow up demonstration of mechanical integrity, well-specific monitoring and reporting following the conversion, and demonstration of practical use of the converted configuration.

3. Transfer of Permit.

Under 40 CFR 144.38, this Permit is transferable provided the current Permittee notifies the Director at least thirty (30) days in advance of the proposed transfer date (EPA Form 7520-7) and provides a written agreement between the existing and new Permittees containing a specific date for transfer of Permit responsibility, coverage and liability between them. The notice shall adequately demonstrate that the financial responsibility requirements of 40 CFR 144.52(a)(7) will be met by the new Permittee. The Director may require modification or revocation and reissuance of the Permit to change the name of the Permittee and incorporate such other requirements as may be necessary under the Safe Drinking Water Act; in some cases, modification or revocation and reissuance is mandatory.

4. Permittee Change of Address.

Upon the Permittee's change of address, or whenever the operator changes the address where monitoring records are kept, the Permittee must provide written notice to the Director within 30 days.

5. Construction Changes, Workovers, Logging and Testing Data

The Permittee shall give advance notice to the Director, and shall obtain the Director's written approval prior to any physical alterations or additions to the permitted facility. Alterations or workovers shall meet all conditions as set forth in this permit. The Permittee shall record any changes to the well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workovers, logging , or test data to EPA within sixty (60) days of completion of the activity.

Following the completion of any well workovers or alterations which affect the casing, tubing, or packer, a successful demonstration of mechanical integrity (Part III, Section F of this permit) shall be made, and written authorization from the Director received, prior to resuming injection activities.

Section C. SEVERABILITY

The Provisions of this Permit are severable, and if any provision of this Permit or the application of any provision of this Permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Permit shall not be affected thereby.

Section D. CONFIDENTIALITY

In accordance with 40 CFR Part 2 and 40 CFR 144.5, information submitted to EPA pursuant to this Permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the Permittee, and
- information which deals with the existence, absence or level of contaminants in drinking water.

Section E. GENERAL PERMIT REQUIREMENTS

1. Duty to Comply.

The Permittee must comply with all conditions of this Permit. Any noncompliance constitutes a violation of the Safe Drinking Water Act (SDWA) and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application; except that the Permittee need not comply with the provisions of this Permit to the extent and for the duration such noncompliance is authorized in an emergency permit under 40 CFR 144.34. All violations of the SDWA may subject the Permittee to penalties and/or criminal prosecution as specified in Section 1423 of the SDWA.

2. Duty to Reapply.

If the Permittee wishes to continue an activity regulated by this Permit after the expiration date of this Permit, under 40 CFR 144.37 the Permittee must apply for a new permit prior to the expiration date.

3. Need to Halt or Reduce Activity Not a Defense.

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

4. Duty to Mitigate.

The Permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Permit.

5. Proper Operation and Maintenance.

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Permit.

6. Permit Actions.

This Permit may be modified, revoked and reissued or teminated for cause. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

7. Property Rights.

This Permit does not convey any property rights of any sort, or any exclusive privilege.

8. Duty to Provide Information.

The Permittee shall furnish to the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this Permit. The Permittee is required to submit any information required by this Permit or by the Director to the mailing address designated in writing by the Director.

9. Inspection and Entry.

The Permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

(a) Enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;

(c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and,

(d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the SDWA, any substances or parameters at any location.

10. Signatory Requirements.

All applications, reports or other information submitted to the Director shall be signed and certified according to 40 CFR 144.32. This section explains the requirements for persons duly authorized to sign documents, and provides wording for required certification.

11. Reporting Requirements.

(a) Planned changes. The Permittee shall give notice to the Director as soon as possible of any planned changes, physical alterations or additions to the permitted facility, and prior to commencing such changes.

(b) Anticipated noncompliance. The Permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

(c) Monitoring Reports. Monitoring results shall be reported at the intervals specified in this Permit.

(d) Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than 30 days following each schedule date.

(e) Twenty-four hour reporting. The Permittee shall report to the Director any noncompliance which may endanger human health or the environment, including:

(i) Any monitoring or other information which indicates that any contaminant may cause endangerment to a USDW; or

(ii) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between USDWs.

Information shall be provided, either directly or by leaving a message, within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning (800) 227-8917 and requesting EPA Region VIII UIC Program Compliance and Technical Enforcement Director, or by contacting the EPA Region VIII Emergency Operations Center at (303) 293-1788.

In addition, a follow up written report shall be provided to the Director within five (5) days of the time the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance including exact dates and times, and if the noncompliance has not been corrected the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

(f) Oil Spill and Chemical Release Reporting: The Permittee shall comply with all reporting requirements related to the occurence of oil spills and chemical releases by contacting the National Response Center (NRC) at (800) 424-8802, (202) 267-2675, or through the NRC website http://www.nrc.uscg.mil/index.htm.

(g) Other Noncompliance. The Permittee shall report all instances of noncompliance not reported under paragraphs Part III, Section E Paragraph 11(b) or Section E, Paragraph 11(e) at the time the monitoring reports are submitted. The reports shall contain the information listed in Paragraph 11(e) of this Section.

(h) Other information. Where the Permittee becomes aware that it failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the Permittee shall promptly submit such facts or information to the Director.

Section F. FINANCIAL RESPONSIBILITY

1. Method of Providing Financial Responsibility.

The Permittee shall maintain continuous compliance with the requirement to maintain financial responsibility and resources to close, plug, and abandon the underground injection well(s). No substitution of a demonstration of financial responsibility shall become effective until the Permittee receives written notification from the Director that the alternative demonstration of financial responsibility is acceptable. The Director may, on a periodic basis, require the holder of a permit to revise the estimate of the resources needed to plug and abandon the well to reflect changes in such costs and may require the Permittee to provide a revised demonstration of financial responsibility.

2. Insolvency.

In the event of:

(a) the bankruptcy of the trustee or issuing institution of the financial mechanism; or

(b) suspension or revocation of the authority of the trustee institution to act as trustee; or

(c) the institution issuing the financial mechanism losing its authority to issue such an instrument

the Permittee must notify the Director in writing, within ten (10) business days, and the Permittee must establish other financial assurance or liability coverage acceptable to the Director within sixty (60) days after any event specified in (a), (b), or (c) above.

The Permittee must also notify the Director by certified mail of the commencement of voluntary or involuntary proceedings under Title 11 (Bankruptcy), U.S. Code naming the owner or operator as debtor, within ten (10) business days after the commencement of the proceeding. A guarantor, if named as debtor of a corporate guarantee, must make such a notification as required under the terms of the guarantee.

APPENDIX A

WELL CONSTRUCTION REQUIREMENTS

See diagram.
- 8-5/8 inch surface casing set at 508 feet in a 12-1/4 inch hole, with 380 sacks of Class "G" cement which was circulated to the surface.
- 5-1/2 inch casing set at 5597 feet in a 7-7/8 inch hole. Cemented with 400 sacks of Class "G" cement, and 350 sacks of Dowell "Self Stress" cement. Operator indentifies top of cement approximately 1800 feet by Cement Bond Log (CBL). The EPA identifies CBL 80% cement bond index cement bond from 4000 feet to 5530 feet. (Confining interval 5230 feet to 5244 feet).
- Driller Total Depth (TD): 5610 feet in Green River Formation.
- Plug Back Total Depth (PBTD): 5370 feet in Green River Formation.
- Perforated 5-1/2 inch from 5248 feet to 5367 feet in Green River Formation.
- September 1990: Well shut-in (SI) due to parted or collapsed casing approximately 5248 feet.
- Top perforation at 5248 feet.

MARCH/APRIL 1992:
- Using various bits, reamers, and mills clean out vertical hole from 5248 feet to PBTD at 5370 feet.
- Tight spot (collapsed pipe) noted 5256 feet to 5259 feet.
- In attempting to remedy collapsed pipe, operator inadvertantly cuts window in 5-1/2 inch casing from 5248 feet to 5259 feet.
- 4-1/2 inch diagonal hole drilled to 5370 feet in the Green River Formation.
- Operator sets 3-1/2 inch flush joint slotted liner in deviated hole from 5248 feet to 5368 feet.
- Retrievable bridge plug (RBP) set at 4223 feet.

JULY 1992:
- Well shut-in. Uneconomic to produce.

OCTOBER 2000:
- Temporarily abandon well.
- Pull 3-1/2 inch slotted liner.

PROPOSED CONVERSION:
- Retrieve RBP at 5223 feet.
- Run in hole with 2-7/8 inch tubing.
- Set injection packer at 5223 feet.
- Inject into vertical hole from 5244 feet to 5370 feet (PBTD), and deviated open hole from 5244 feet to 5370 feet (Open hole TD).

- On August 18, 2004, the Vernal, Utah office of the Bureau of Land Management (BLM) advised the EPA that a determination had been made that the mining of shale

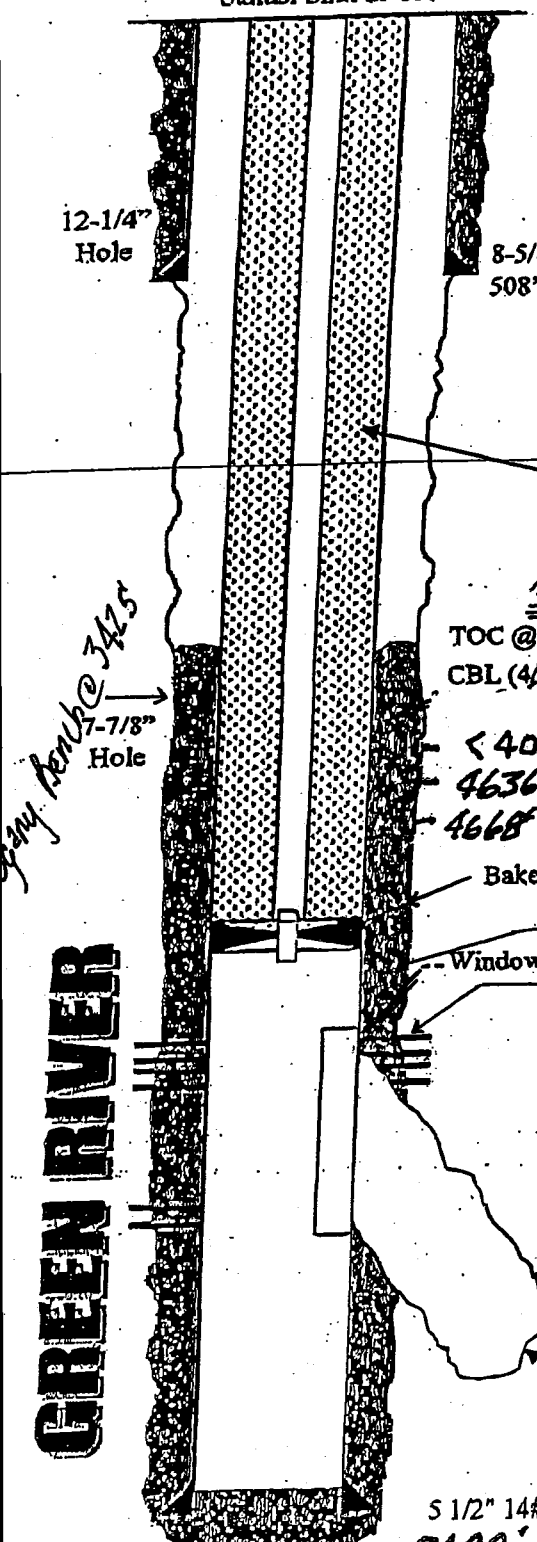
from the Mahogany Bench below 2000 feet was uneconomic. No requirement for a cement plug across the top of the Mahogany Bench. In areas where the Mahogany Bench is below 2000 feet, the BLM requires a 200-foot cement plug across the top of the Green River Formation. The BLM picks the top of the Mahogany Bench in the USA Pearl Broadhurst No. 11 at 3425 feet. The top of the Green River Formation is 2825 feet.

WELLHEAD EQUIPMENT:
- Sampling tap located to enable the sampling of fluid from the injection tubing.
- Sampling tap located to enable the sampling of fluid in the casing/tubing annulus.
- Pressure gauge isolated by 1/2 inch FIP shut-off valve or quick disconnect valve, and located to enable the reading of pressure in the tubing/casing annulus.
- Pressure-actuated shut-off device located on the injection line, and set to prevent injection operations from exceeding the maximum allowable surface injection pressure.
- Non-resettable cumulative volume recorder located on the injection line.

- After 30 days of injection run injection profile survey. SEND ONE COPY TO THE EPA.

CITATION OIL & GAS CORP.
PROPOSED PEARL BROADHURST #11 INJECTION CONFIGURATION
(NW/NE) Sec. 10-T7S-R23E
UINTAH CO., UTAH

KB: 13 FT
GL: 5191 FT
Status: Shut in-TA



TUBING DETAIL			
Qty	Description	Length	Depth
——	KB	13	13
166	2 3/8", 4.7#, J-55, 8rd, IPC EUE tbg	5204	5217
1	Baker Nickel plated On/Off Tool	2	5219
1	Baker IPC Model A-2 Injection PKR	4	5223

CASING DETAIL			
Size	Weight	Grade	Depth
8-5/8"	24	K-55	0-508
5-1/2"	14	K-55	0-5597

4/15/81 Green River "J"
5248' (1 Jspf)
5271'-72' (1 Jspf)
5297'-5300' (1 Jspf)
5305'-06' (1 Jspf)

4/15/81 Green River "K"
5363'-67' (1 Jspf)

4/17/81 Stimulation:
Broke perfs w/ 1000 gal 7.5% HCL

4/19/81 Frac(both zones):
10,000 gal Super-E pad
30,000 gal Super-E fluid
55,000 # 20-40 sand
24,000 # 10-20 sand

All depths KB unless noted.
Updated: 4-28-04

APPENDIX B

LOGGING AND TESTING REQUIREMENTS

Logs.
Logs will be conducted according to current UIC guidance. It is the responsibility of the permittee to obtain and use guidance prior to conducting any well logging required as a condition of this permit.

Prior to authorization to commence injection the permittee shall conduct a Cement Bond Log/Gamma Ray across the approximate interval 5100 feet to the current plug back total depth of 5370 feet. EPA Ground Water Program Guidance No. 34 (Cement Bond Logging Techniques and Interpretation).

WELL NAME: USA Pearl Broadhurst 11

TYPE OF LOG	DATE DUE
CBL/VDL/GAMMA RAY	Prior to authorization to commence injection

Tests.
Tests will be conducted according to current UIC guidance. It is the responsibility of the permittee to obtain and use guidance prior to conducting any well test required as a condition of this permit.

The requirement to conduct a Step-Rate Test (SRT), within 180 days after Authorization to Inject, is based upon (1) the applicant's use of a Fracture Gradient (FG) of 0.757 psi/ft which is calculated from a sand/frac treatment of the perforated interval 5248 feet to 5367 feet, and (2) an initial Maximum Surface Injection Pressure (MIP) using an average depth of 5308 feet, not on the uppermost perforation of 5248 feet.

WELL NAME: USA Pearl Broadhurst 11

TYPE OF TEST	DATE DUE
Standard Annulus Pressure	Prior to Authorization to Inject
Step Rate Test	Within 180 days after Authorization to Inject
Pore Pressure	Prior to Authorization to Inject

APPENDIX C

OPERATING REQUIREMENTS

MAXIMUM ALLOWABLE INJECTION PRESSURE:

Maximum Allowable Injection Pressure (MAIP) as measured at the surface shall not exceed the pressure(s) listed below.

WELL NAME	MAXIMUM ALLOWED INJECTION PRESSURE (psi) ZONE 1 (Upper)
USA Pearl Broadhurst 11	1,690

INJECTION INTERVAL(S):

Injection is permitted only within the approved injection interval listed below. Injection perforations may be altered provided they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6. Specific injection perforations can be found in Appendix A.

WELL NAME: USA Pearl Broadhurst 11

FORMATION NAME	APPROVED INJECTION INTERVAL (KB, ft) TOP	BOTTOM	FRACTURE GRADIENT (psi/ft)
Green River	5,244.00 -	5,370.00	0.757

ANNULUS PRESSURE:

The annulus pressure shall be maintained at zero (0) psi as measured at the wellhead. If this pressure cannot be maintained, the Permittee shall follow the procedures listed under Part II, Section C. 6. of this permit.

MAXIMUM INJECTION VOLUME:

WELL NAME: USA Pearl Broadhurst 11

FORMATION NAME	MAXIMUM VOLUME LIMIT (bbls)
Green River	18,425,140.00

APPENDIX D

MONITORING AND REPORTING PARAMETERS

This is a listing of the parameters required to be observed, recorded, and reported. Refer to the permit Part II, Section D, for detailed requirements for observing, recording, and reporting these parameters.

OBSERVE MONTHLY AND RECORD AT LEAST ONCE EVERY THIRTY DAYS	
OBSERVE AND RECORD	Injection pressure (psig)
	Annulus pressure(s) (psig)
	Injection rate (bbl/day)
	Fluid volume injected since the well began injecting (bbls)

ANNUALLY	
ANALYZE	Injected fluid total dissolved solids (mg/l)
	Injected fluid specific gravity
	Injected fluid specific conductivity
	Injected fluid pH

ANNUALLY	
REPORT	Each month's maximum and averaged injection pressures (psig)
	Each month's maximum and averaged annulus pressure(s) (psig)
	Each month's averaged injection rate (bbl/day)
	Fluid volume injected since the well began injecting (bbl)
	Written results of annual injected fluid analysis
	Sources of all fluids injected during the year

Records of all monitoring activities must be retained and made available for inspection at the following location:

Citation Oil & Gas Corporation
8223 Willow Place South
Houston, TX 77070

APPENDIX E

PLUGGING AND ABANDONMENT REQUIREMENTS

All cement plugs will be set with tubing.

9.2 ppg plugging gel or fresh water weighted with bentonite or treated brine will be placed between all cement plugs.

The EPA has modified PLUG NO. 2 per a Bureau of Land Management (BLM) request. Originally the applicant had cited a PLUG NO. 2 from 2500 feet to 2700 feet. Whenever the Mahogany Bench Member of the Green River Formation is below 2000 feet the BLM considers that mining of shale from this interval is uneconomic. In the USA Pearl Broadhurst No. 11 the top of the Mahogany Bench is cited as 3425 feet. The BLM prefers a cement plug across the Green River Formation top, which in the USA Pearl Broadhurst No. 11 is 2825 feet. When the Mahogany Bench is above 2000 feet the BLM considers mining of the shale as a potential economic venture, and a 200-foot cement plug will be placed across the top of this Member.

PLUG NO. 1: Set cast iron cement retainer (CICR) approximately 5223 feet (KB). Squeeze ninety (90) sacks of 50/50 Pozmix containing 2% gel under CICR. Place ten (10) sacks of 50/50 Pozmix on top of CICR.

PLUG NO. 2: Spot 200 feet of balanced cement over the interval 2725 feet to 2925 feet. Top of Green River Formation is 2825 feet.

PLUG NO. 3: Perforate 5-1/2 inch casing at 430 feet. Set CICR at 380 feet. Squeeze cement under CICR to a depth of approximately 558 feet filling both the annulus between the 5-1/2 inch casing and the 8-5/8 inch casing, and inside the 5-1/2 inch casing. Place six (6) sacks of cement on top of the CICR.

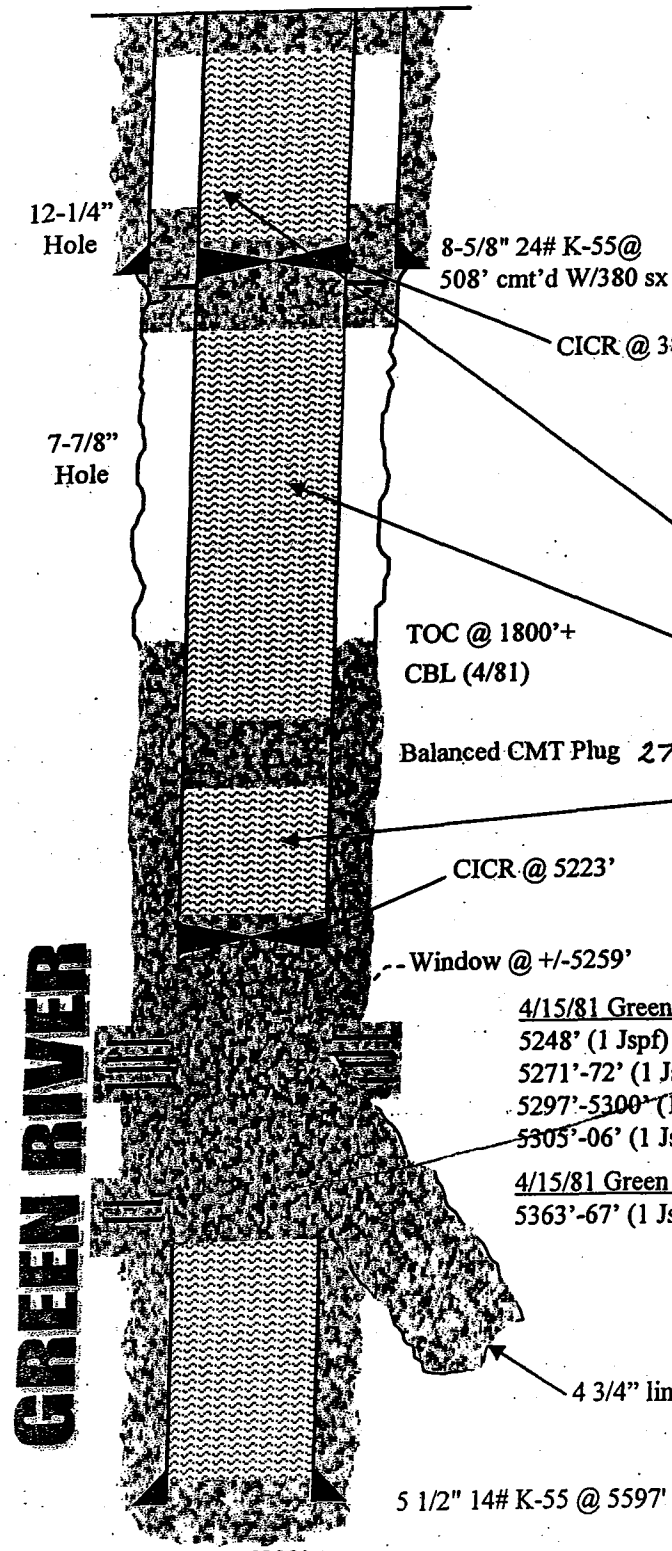
PLUG NO. 4: Spot a cement plug from the surface to a depth of 100 feet inside of the 5-1/2 inch casing.

PLUG NO. 5: Spot 50-foot cement plug on the backside of the 8-5/8 inch casing from the surface to a depth of fifty (50) feet.

CITATION OIL & GAS CORP.
PROPOSED PEARL BROADHURST #11 PLUG & ABANDON CONFIGURATION
(NW/NE) Sec. 10-T7S-R23E
UINTAH CO., UTAH

ATTACHMENT I-2

KB: 13 FT
GL: 5191 FT
Status: P&A



TUBING DETAIL			
Qty	Description	Length	Depth
-----	KB	13	13

CASING DETAIL			
Size	Weight	Grade	Depth
8-5/8"	24	K-55	0-508
5-1/2"	14	K-55	0-5597

<u>4/15/81 Green River "J"</u>
5248' (1 Jspf)
5271'-72' (1 Jspf)
5297'-5300' (1 Jspf)
5305'-06' (1 Jspf)

<u>4/15/81 Green River "K"</u>
5363'-67' (1 Jspf)

<u>4/17/81 Stimulation</u>:
Broke perfs w/ 1000 gal 7.5% HCL
<u>4/19/81 Frac(both zones)</u>:
10,000 gal Super-E pad
30,000 gal Super-E fluid
55,000 # 20-40 sand
24,000 # 10-20 sand

PBTD: 5223'
TD: 5610'

All depths KB unless noted.
Updated: 2-12-04

APPENDIX F

CORRECTIVE ACTION REQUIREMENTS

No corrective action is required on the Walker Hollow Unit No. 66. The Walker Hollow Unit No. 66 is the only well within the one-quarter (1/4) mile area-of-rerview (AOR). The Walker Hollow Unit No. 66 has 80% bond index cement bond (4776 feet to 4806 feet) within/across the confining zone (4758 feet to 4796 feet).

The following four (4) wells are proximate to the AOR and could conceivably be affected by injection into the USA Pearl Broadhurst No. 11. On a weekly basis, the permittee shall inspect the surface area of the following wells for any surface expression of injectate fluid:

- Pearl Broadhurst No. 9: NE NW Sec. 9 - T7S - R23E
- Walker Hollow Unit No. 73: SW SE Sec. 3 - T7S - R23E
- Walker Hollow Unit No. 66: NE NE Sec. 10 - T7S - R23E
- Walker Holow Unit No. 62: SW NE Sec.10 - T7S - R23E.

Should injectate contamination be observed, the permittee shall shut-in the USA Pearl Broadhurst No. 11 SWD immediately, and inform the EPA of such leakage. The permittee will conduct remedial work on that well(s) and submit to the EPA the EPA WELL REWORK RECORD (enclosed). No injection shall commence until the permittee receives written authorization from the Director.

The permittee shall keep a record of the weekly observations at each well site.

STATEMENT OF BASIS

CITATION OIL & GAS CORPORATION
USA PEARL BROADHURST 11
UINTAH COUNTY, UT

EPA PERMIT NO. UT20970-06388

CONTACT: Emmett Schmitz
U. S. Environmental Protection Agency
Ground Water Program, 8P-W-GW
999 18th Street, Suite 300
Denver, Colorado 80202-2466
Telephone: 1-800-227-8917 ext. 6174

This STATEMENT OF BASIS gives the derivation of site-specific UIC Permit conditions and reasons for them. Referenced sections and conditions correspond to sections and conditions in the Permit.

UIC Permits specify the conditions and requirements for construction, operation, monitoring and reporting, and plugging of injection wells to prevent the movement of fluids into underground sources of drinking water (USDWs). Under 40 CFR 144 Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General Permit conditions for which content is mandatory and not subject to site-specific differences (40 CFR Parts 144, 146 and 147) are not discussed in this document.

Upon the Effective Date when issued, the Permit authorizes the conversion and operation of a "new" injection well or wells governed by the conditions specified in the Permit. The Permit is issued for the operating life of the injection well unless terminated for reasonable cause under 40 CFR 144.39, 144.40 and 144.41. The Permit is subject to EPA review at least once every five (5) years to determine if action is required under 40 CFR 144.36(a).

PART I. General Information and Description of Facility

Citation Oil & Gas Corporation
8223 Willow Place South
Suite 250
Houston, TX 77070

on

February 23, 2004

submitted an application for an Underground Injection Control (UIC) Program Permit for the following injection well or wells:

The USA Pearl Broadhurst No. 11 is currently a temporarily abandoned (TA) Green River Formation oil well. The permittee intends to convert the USA Pearl Broadhurst No. 11 to a salt water disposal (SWD) facility, i.e., the USA Pearl Broadhurst No. 11 SWD. As detailed in Appendix A (Well Construction Requirements) the permittee will dispose of permittee/operator produced fluid into the Green River Formation via existing perforations in a vertical hole, and a diagonal "open hole".

USA Pearl Broadhurst 11
713' FNL & 1747' FEL, NWNE S10, T7S, R23E
Uintah County, UT

Regulations specific to Uintah-Ouray Indian Reservation injection wells are found at 40 CFR 147 Subpart TT.

The Permit application, including the required information and data necessary to issue a UIC Permit in accordance with 40 CFR Parts 144, 146 and 147, was reviewed by EPA and determined to be complete.

The Permit will expire upon delegation of primary enforcement responsibility (primacy) for applicable portions of the UIC Program to the Ute Indian Tribe or the State of Utah unless the delegated agency has the authority and chooses to adopt and enforce this Permit as a Tribal or State Permit.

TABLE 1.1 shows the status of the well or wells as "New", "Existing", or "Conversion" and for Existing shows the original date of injection operation. Well authorization "by rule" under 40 CFR Part 144 Subpart C expires automatically on the Effective Date of an issued UIC Permit.

TABLE 1.1 WELL STATUS / DATE OF OPERATION		
CONVERSION WELLS		
Well Name	**Well Status**	**Date of Operation**
USA Pearl Broadhurst 11	Conversion	N/A

Hydrogeologic Setting

Geologic Setting (TABLE 2.1)

GEOLOGIC SETTING: UINTA BASIN, UTAH

Geologic Setting
The well is located in the Walker Hollow Unit near the center of the broad, gently northward dipping south flank of the Uinta Basin. The beds dip at about 200'/mile, and there are no known surface folds or faults in the field. The lower 600' to 800'of the Uinta Formation, generally consisting of 5' to 20' thick brown lenticular fluvial sandstone and interbedded varicolored shales, outcrops at the surface in this area. The Uinta is underlain by the Green River Formation which consists of lake (lacustrine) margin sandstones, limestone and shale beds that were deposited along the edges and on the broad level floor of Lake Uinta as it expanded and contracted through time. Several distinct geologic hydrocarbon productive Members within the Green River Formation are identified as the Garden Gulch, Douglas Creek, and the Basal Carbonate Members. The Basal Carbonate Member is the basal unit of the Green River Formation in the Walker Hollow Unit. Underlying the Green River Formation is the Wasatch Formation, which is approximately 2400' thick in this area and consists of red alluvial shales and siltstone with scattered lenticular sandstones usually 10' to 50' thick.

Geologic Information
The Uinta Basin is a topographic and structural trough encompassing an area of more than 9300 square mi (14,900 km) in northeast Utah. The basin is sharply asymmetrical, with a steep north flank bounded by the east-west-trending Uinta Mountains, and a gently dipping south flank. The Uinta Basin formed in Paleocene to Eocene time, creating a large area of internal drainage which was filled by ancestral Lake Uinta. Deposition in and around Lake Uinta consisted of open- to marginal-lacustrine sediments that make up the Green River Formation. Alluvial red-bed deposits that are laterally equivalent to and intertongue with the Green River make up the Colton Formation (Wasatch). More than 450 million barrels of oil (63 MT) have been produced from the Green River and Wasatch Formations in the Uinta Basin. The Cedar Rim, Altamont, Bluebell, and Red Wash fields produce from the northern shoreline deposits of Lake Uinta, while the fields in the Monument Butte area produce from southern deltaic shoreline deposits as preserved in the Middle and Lower Members (Garden Gulch, Douglas Creek, Basal Carbonate) of the Green River Formation. The southern shore of Lake Uinta was very broad and flat, which allowed large transgressive and regressive shifts in the shoreline in response to climatic and tectonic-induced rise and fall of the lake. The cyclic nature of Green River deposition in the Monument Butte area resulted in numerous stacked deltaic deposits. Distributary-mouth bars, distributary channels, and near-shore

bars are the primary producing sandstone reservoirs in the area (Ref: "Reservoir Characterization of the Lower Green River Formation, Southwest Uinta Basin, Utah Biannual Technical Progress Report 4/1/99 - 9/30/99", by C. D. Morgan, Program Manager, November 1999, Contract DE-AC26-98BC15103). The Tertiary Duchesne River Formation alluvium generally is present at the surface in this area, The Oligocene Uinta Formation underlies the Duchesne Formation and in turn is underlain by the Eocene Green River Formation. The Uinta Formation consists primarily of lacustrine (lake) sand and shales cyclically deposited during large shifts in shoreline of ancient Lake Uinta as the level rose and fell in response to tectonic and climatic forces.

TABLE 2.1
GEOLOGIC SETTING
USA Pearl Broadhurst 11

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Lithology
Uinta	0.00	2,825.00	< 10,000.00	Calcareous shale, some limestone, claystone, siltstone, and sandstone. Fluvial deposits on east and west ends of basin. Lacustrine in center.
Green River	2,825.00	5,610.00	3,596.00	The gross Green River Formation lithology comprises lacustrine sand, limestone, marlstone, shale in the central basin area, and on the basin margins are fluvial sand and shale. Well has TD in the Green River Formation.

Proposed Injection Zone(s) (TABLE 2.2)

An injection zone is a geological formation, group of formations, or part of a formation that receives fluids through a well. The proposed injection zones are listed in TABLE 2.2.

Injection will occur into an injection zone that is separated from USDWs by the confining zone which is free of known open faults or fractures within the Area of Review.

The permittee will dispose of produced fluid into a cased and perforated vertical hole from an authorized depth of 5244 feet to 5370 feet (Plug back Total Depth [PBTD]), and into a diagonal open-hole from 5248 feet to total depth of 5370 feet.

TABLE 2.2
INJECTION ZONES
USA Pearl Broadhurst 11

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Fracture Gradient (psi/ft)	Porosity	Exempted?*
Green River	5,244.00	5,370.00	3,596.00	0.757	15.00%	P

* **C - Currently Exempted**
E - Previously Exempted
P - Proposed Exemption
N/A - Not Applicable

Confining Zone(s) (TABLE 2.3)

A confining zone is a geological formation, part of a formation, or a group of formations that limits fluid movement above the injection zone. The confining zone or zones are listed in TABLE 2.3.

The confining lithology is impermeable silty and calcareous shale.

TABLE 2.3
CONFINING ZONES
USA Pearl Broadhurst 11

Formation Name	Formation Lithology	Top (ft)	Base (ft)
Green River	The confining lithology is primarily impermeable lacustrine shale, and silty, calcareous shale.	5,230.00	5,244.00

Underground Sources of Drinking Water (USDWs) (TABLE 2.4)

Aquifers or the portions thereof which contain less than 10,000 mg/l total dissolved solids (TDS) and are being or could in the future be used as a source of drinking water are considered to be USDWs. The USDWs in the area of this facility are identified in TABLE 2.4.

The State of Utah "Water Wells and Springs", http://NRWRT1.NR.STATE.UT.US, identifies no public water supply wells within the one-quarter (1/4) mile Area-of-Review (AOR) for the USA Pearl Broadhurst No. 11.

Water analysis of the Green River Formation hydrocarbon producing interval, gross perforations 5248 feet to 5367 feet, USA Pearl Broadhurst No. 11, cites total dissolved solid content as 3596 mg/l. The base of USDW, as described from Plate 1-Technical Publication No. 92-State of Utah-Department of Natural Resources, is approximately 3690 feet. But, with the TDS of the aforementioned former producing interval analyzed at 3596 mg/l, the base of the USDW is the current plug back total depth (PBTD) of 5370 feet.

TABLE 2.4
UNDERGROUND SOURCES OF DRINKING WATER (USDW)
USA Pearl Broadhurst 11

Formation Name	Formation Lithology	Top (ft)	Base (ft)	TDS (mg/l)
Uinta & Green River	The gross lithology of USDW zone is a combination of interbedded alluvial-fluvial-lacustrine sand, shale, and limestone, and restricted lacustrine shale, sandstone and carbonates.	0.00	5,370.00	< 10,000.00

Exempted Aquifer(s) (40 CFR 144.7 and 146.4)

Aquifers exempted from protection as a USDW are listed in TABLE 2.5. Exempted is that portion of the aquifer between the depths listed ("TOP" and "BASE") and within the Exempted Radius of the well's surface location, or for an Area Permit, one-quarter (1/4) mile exterior to the defined Area Permit boundary. "BASIS" corresponds to the appropriate criteria (below) for exemption. "VOLUME" is the maximum volume of fluid which can be injected into the exempted area before the injected fluids exceed the exemption boundary, calculated using the following formula:

$$V = Pi * radius2 * height * porosity / 5.615$$

where V = VOLUME (in barrels)
Pi = 3.1416
radius2 = Exempted Radius (squared) - generally 1/4 mile
height = height of reservoir ("BOTTOM" - "TOP")
porosity = reservoir porosity (in percent)
5.615 = conversion factor (cubic feet per barrel)

TABLE 2.5
AQUIFER EXEMPTION
USA Pearl Broadhurst 11

Formation Name	Top (ft)	Base (ft)	Criteria	Volume (bbl)
Green River	5,244.00	5,370.00	c	18,425,140.00

An aquifer or a portion thereof may be determined to be an "exempted aquifer" provided it meets criteria, listed below.

a It does not currently serve as a source of drinking water; AND

b(1) It cannot now and will not in the future serve as a source of drinking water because it is mineral, hydrocarbon, or geothermal energy producing, or can be demonstrated by a permit applicant as part of a permit for a Class II or III operation to contain minerals or hydrocarbons that considering their quantity and location are expected to be commercially producible; OR

b(2) It cannot now and will not in the future serve as a source of drinking water

because it is situated at a depth or location which makes recovery of water for drinking water purposes economically or technically impractical; OR

b(3) It cannot now and will not in the future serve as a source of drinking water because it is so contaminated that it would be economically or technologically impractical to render that water fit for human consumption; OR

b(4) It cannot now and will not in the future serve as a source of drinking water because it is located over a Class III well mining area subject to subsidence or catastrophic collapse; OR

c The total dissolved solids content of the ground water is more than 3,000 and less than 10,000 mg/l and it is not reasonably expected to supply a public water system.

PART III. Well Construction (40 CFR 146.22)

The non-economic Temporarily Abandoned (TA) USA Pearl Broadhurst No. 11 will be completed as a salt water disposal (SWD) facility with injection into a cased and perforated vertical hole (5244 feet to 5370 feet) and a diagonal non-perforated open-hole from 5248 feet to 5370 feet.

8-5/8 inch surface casing was set in this well to a depth of 508 feet. The 8-5/8 inch casing was cemented to the surface.

5-1/2 inch casing was set at 5597 feet with 400 sacks of Class "G" and 350 sacks of Dowell "Self Stress" cement. EPA calculates 80% bond index cement from 4000 feet to 5530 feet. The operator cites top of cement at approximately 1800 by CBL.

The operator will use 2-7/8 inch tubing and a Baker IPC Model A-2 Injector Packer set at 5223 feet, i.e., twenty five (25) feet above the top perforation at 5248 feet.

Omitted from Table 3.1 (below) is a 3-1/2 inch flush-joint slotted liner originally run into the diagonal hole from 5348 feet to a depth of 5368 feet in March/April 1992. In October 2000 the 3-1/2 inch liner was pulled.

WELL CONSTRUCTION REQUIREMENTS

The Cement Bond Log (CBL) for the USA Pearl Broadhurst No. 11 is a segmented log, i.e., 1800 feet to 2500 feet, and 4000 feet to 5526 feet.

The EPA analyzed the CBL per EPA Ground Water Section Guidance No. 34 (Cement Bond Logging Techniques and Interpretation) and has identified 80% bond index cement bond from 4000 feet to 5526 feet. (Longstring was set at 5597 feet in a well with driller total depth of 5610 feet. After cementing the longstring this well had a Plug Back Total Depth of 5370 feet). Adequate CBL bond does occur across the Confining Zone.

In the application for a Permit, the applicant cites top of cement (TOC) at 1800 feet. It is the applicant's identification of TOC that is cited for the "Cemented Interval" in Table 3:1. No 80% bond index cement bond is identified in the interval 1800 feet to 2500 feet.

TABLE 3.1
WELL CONSTRUCTION REQUIREMENTS
USA Pearl Broadhurst 11

Casing Type	Hole Size (in)	Casing Size (in)	Cased Interval (ft)	Cemented Interval (ft)
Longstring	7.88	5.50	0.00 - 5,597.00	1,800.00 - 5,610.00
Surface	12.25	8.63	0.00 - 508.00	0.00 - 508.00

The approved well completion plan will be incorporated into the Permit as APPENDIX A and will be binding on the Permittee. Modification of the approved plan is allowed under 40 CFR 144.52(a)(1) provided written approval is obtained from the Director prior to actual modification.

Casing and Cementing (TABLE 3.1)

The construction plan for this well proposed for conversion to an injection well was evaluated and determined to be in conformance with standard practices and guidelines that ensure well injection does not result in the movement of fluids into USDWs. Well construction and conversion details for this well are shown in TABLE 3.1.

An EPA analysis of the Cement Bond Log (CBL) of the USA Pearl Broadhurst No. 11 delineates 80% bond index cement bond from 4000 feet to 5530 feet. The Confining Interval is 5230 feet to 5244 feet. The authorized injection interval is 5244 feet to 5370 feet. This annulus cement bond appears adequate to preclude vertical migration of injectate outside of the authorized gross injection interval 5244 feet to 5370 feet. No remedial cementing is required prior to receiving authorization to commence injection.

Tubing and Packer

Injection tubing is required to be installed from a packer up to the surface inside the well casing. The packer will be set above the uppermost perforation. The tubing and packer are designed to prevent injection fluid from coming into contact with the outermost casing.

Tubing-Casing Annulus (TCA)

The TCA allows the casing, tubing and packer to be pressure-tested periodically for mechanical integrity, and will allow for detection of leaks. The TCA will be filled with fresh water treated with a corrosion inhibitor or other fluid approved by the Director.

The tubing/casing annulus must be kept closed at all times so that it can be monitored as required under the conditions of the Permit.

Monitoring Devices

The permittee will be required to install and maintain wellhead equipment allowing for monitoring pressures and providing access for sampling the injected fluid. This equipment includes: 1) shut-off valves located at the wellhead on the injection tubing and on the TCA; 2) a flow meter that measures the cumulative volume of injected fluid; 3) pressure gauges attached to the injection tubing and the TCA to monitor the injection and TCA pressure; and 4) a tap on the injection line, isolated by shut-off valves, for sampling the injected fluid.

All sampling and measurement taken for monitoring must be representative of the monitored activity.

PART IV. Area of Review, Corrective Action Plan (40 CFR 144.55)

TABLE 4.1
AOR AND CORRECTIVE ACTION

Well Name	Type	Status (Abandoned Y/N)	Total Depth (ft)	TOC Depth (ft)	CAP Required (Y/N)
Walker Hollow Unit No. 66	Producer	No	5,763.00	3,200.00	No

TABLE 4.1 lists the wells in the Area of Review ("AOR") and shows the well type, operating status, depth, top of casing cement ("TOC") and whether a Corrective Action Plan ("CAP") is required for the well.

On a weekly basis, the permittee shall inspect the surface area of the following one-quarter (1/4) mile Area-of-Review (AOR) wells for any surface expression of injectate fluid:

- Pearl Broadhurst No. 9: NE NW Sec. 9 - T7S - R23E
- Walker Hollow Unit No. 73: SW SE Sec. 3 - T7S - R23E
- Walker Hollow Unit No. 66: NE NE Sec. 10 - T7S - R23E
- Walker Holow Unit No. 62: SW NE Sec.10 - T7S - R23E.

Should injectate contamination be observed, the permittee shall shut-in the USA Pearl Broadhurst No. 11 SWD immediately, and inform the EPA of such leakage. The permittee will conduct remedial work on that well(s) and submit to the EPA the EPA WELL REWORK RECORD (enclosed). No injection shall commence until the permittee receives written authorization from the Director.

With the exception of the Walker Hollow No. 9, all wells in the AOR have 80% bond index cement bond across or within the Confining Zone above the uppermost perforations in each well. No CBL of the Walker Hollow No. 9 was available to the permittee.

Area Of Review

Applicants for Class I, II (other than "existing" wells) or III injection well Permits are required to identify the location of all known wells within the injection well's Area of Review (AOR) which penetrate the injection zone, or in the case of Class II wells operating over the fracture pressure of the formation, all known wells within the area of review that penetrate formations which may be affected by increased pressure. Under 40 CFR 146.6 the AOR may be a fixed radius of not less than one quarter (1/4) mile or a calculated zone of endangering influence. For Area Permits, a fixed width of not less than one quarter (1/4) mile for the circumscribing area may be used.

Corrective Action Plan

For wells in the AOR which are improperly sealed, completed, or abandoned, the applicant shall develop a Corrective Action Plan (CAP) consisting of the steps or modifications that are necessary to prevent movement of fluid into USDWs.

The CAP will be incorporated into the Permit as APPENDIX F and become binding on the

permittee.

TABLE 4.1 lists the wells in the AOR, and shows the well type, operating status, depth, top of casing cement and whether a CAP is required for this well.

PART V. Well Operation Requirements (40 CFR 146.23)

TABLE 5.1
INJECTION ZONE PRESSURES
USA Pearl Broadhurst 11

Formation Name	Depth Used to Calculate MAIP (ft)	Fracture Gradient (psi/ft)	Initial MAIP (psi)
Green River	5,248.00	0.757	1,690

Approved Injection Fluid

The approved injection fluid will be limited to a produced water mixture which meets requirements pursuant to 40 CFR § 144.6(b). The well also may be used to inject other Class II wastes such as drilling fluids and spent well completion, treatment and stimulation fluid. Non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes and vacuum truck wastes, are not approved.

Injection Pressure Limitation

Injection pressure, measured at the wellhead, shall not exceed a maximum calculated to assure that the pressure used during injection does not initiate new fractures or propagate existing fractures in the confining zones adjacent to the USDWs.

The applicant submitted injection fluid density and injection zone data which was used to calculate a formation fracture pressure and to determine the maximum allowable injection pressure (MAIP), as measured at the surface, for this Permit,

TABLE 5.1 lists the fracture gradient for the injection zone and the approved MAIP, determined according to the following formula:

$$FP = [fg - (0.433 * sg)] * d$$

FP = formation fracture pressure (measured at surface)
fg = fracture gradient (from submitted data or tests)
sg = specific gravity (of injected fluid)
d = depth to top of injection zone (or top perforation)

Injection Volume Limitation

Cumulative injected fluid volume limits are set to assure that injected fluids remain within the boundary of the exempted area. Cumulative injected fluid volume is limited when injection occurs into an aquifer that has been exempted from protection as a USDW.

The Green River injection interval, 5244 feet to 5370 feet does not currently serve a source of drinking water, and since this interval has a Total Dissolved Solids (TDS) content between 3000 and 10,000 mg/l it is not reasonably expected to supply a public drinking water system.

Table 2.5 (Aquifer Exemption) cites a maximum cumulative volume of fluid that shall be injected into the USA Pearl Broadhurst No. 11 SWD as 18,425,140 barrels.

Mechanical Integrity (40 CFR 146.8)

An injection well has mechanical integrity if:

1. there is no significant leak in the casing, tubing, or packern (Part I); and
2. there is no significant fluid movement into a USDW through vertical channels adjacent to the injection well bore (Part II).

The Permit prohibits injection into a well which lacks mechanical integrity.

The Permit requires that the well demonstrate mechanical integrity prior to injection and periodically thereafter. A demonstration of mechanical integrity includes both internal (Part I) and external (Part II). The methods and frequency for demonstrating Part I and Part II mechanical integrity are dependant upon well-specific conditions as explained below:

Well construction/conversion and site-specific conditions dictate the following requirements for Mechanical Integrity (MI) demonstrations:

PART I MI - Internal MI will be demonstrated prior to beginning injection. Since this well is constructed with a standard casing, tubing, and packer configuration, a successful mechanical integrity test (MIT) is required to take place once every five (5) years. A demonstration of Part I MIT is also required prior to resuming injection following any workover operation that affects the casing, tubing or packer. Part I MIT may be demonstrated by a standard tubing-casing annulus pressure test using the maximum permitted injection pressure or 1000 psi, whichever is less, with a ten (10) percent or less pressure loss over thirty (30) minutes.

Part II MIT - Cement records for this well show that adequate cement exists behind pipe, I.e., the Confining Interval. The CBL confirms that this cement meets or exceeds minimum requirements needed to demonstrate zone isolation (at least 15 feet of continuous 80% bond, or better) through the Confining Zone. The CBL for this well shows 1530 feet (5530 feet to 4000 feet) of 80% or greater bond, which includes the Confining Zone 5230 feet to 5244 feet. Further testing for Part II MI will not be required

PART VI. Monitoring, Recordkeeping and Reporting Requirements

Injection Well Monitoring Program

At least once a year the permittee must analyze a sample of the injected fluid for total dissolved solids (TDS), specific conductivity, pH, and specific gravity. This analysis shall be reported to EPA annually as part of the Annual Report to the Director. Any time a new source of injected fluid is added, a fluid analysis shall be made of the new source.

Instantaneous injection pressure, injection flow rate, cumulative fluid volume and TCA pressures must be observed on a weekly basis. A recording, at least once every thirty (30) days, must be made of the injection pressure, injection flow rate and cumulative fluid volume, and the maximum

and average value for each must be determined for each month. This information is required to be reported annually as part of the Annual Report to the Director.

PART VII. Plugging and Abandonment Requirements (40 CFR 146.10)

Plugging and Abandonment Plan

Prior to abandonment, this well must be plugged with cement in a manner which will not allow the movement of fluids either into or between USDWs. The plugging and abandonment plan is described in Appendix E of the Permit.

All cement plugs will be set with tubing.

9.2 ppg plugging gel or fresh water weighted with bentonite or treated brine will be placed between all cement plugs.

The EPA has modified PLUG NO. 2 per a Bureau of Land Management (BLM) request. Originally the applicant had cited a PLUG NO. 2 from 2500 feet to 2700 feet. Whenever the Mahogany Bench Member of the Green River Formation is below 2000 feet the BLM considers that mining of shale from this interval is uneconomic. The BLM prefers a cement plug across the Green River Formation top, which in the USA Pearl Broadhurst No. 11 is 2825 feet. When the Mahogany Bench is above 2000 feet the BLM considers mining of the shale as a potential economic venture.

PLUG NO. 1: Set cast iron cement retainer (CICR) approximately 5223 feet (KB). Squeeze ninety (90) sacks of 50/50 Pozmix containing 2% gel under CICR. Place ten (10) sacks of 50/50 Pozmix on top of CICR.

PLUG NO. 2: Spot 200 feet of balanced cement over the interval 2725 feet to 2925 feet. Top of Green River Formation is 2825 feet.

PLUG NO. 3: Perforate 5-1/2 inch casing at 430 feet. Set CICR at 380 feet. Squeeze cement under CICR to a depth of approximately 558 feet filling both the annulus between the 5-1/2 inch casing and the 8-5/8 inch casing, and inside the 5-1/2 inch casing. Place six (6) sacks of cement on top of the CICR.

PLUG NO. 4: Spot a cement plug from the surface to a depth of 100 feet inside of the 5-1/2 inch casing.

PLUG NO. 5: Spot 50-foot cement plug on the backside of the 8-5/8 inch casing from the surface to a depth of fifty (50) feet.

PART VIII. Financial Responsibility (40 CFR 144.52)

Demonstration of Financial Responsibility

The permittee is required to maintain financial responsibility and resources to close, plug, and abandon the underground injection operation in a manner prescribed by the Director. The permittee shall show evidence of such financial responsibility to the Director by the submission of a surety bond, or other adequate assurance such as financial statements or other materials acceptable to the Director. The Regional Administrator may, on a periodic basis, require the holder of a lifetime permit to submit a revised estimate of the resources needed to plug and abandon the well to reflect inflation of such costs, and a revised demonstration of financial

responsibility if necessary. Initially, the operator has chosen to demonstrate financial responsibility with:

Financial Statement, received May 4, 2004

Evidence of continuing financial responsibility is required to be submitted to the Director annually.

UNDERGROUND INJECTION CONTROL PROGRAM

AQUIFER EXEMPTION

EPA PERMIT NO. UT20970-06388

Citation Oil & Gas Corporation

TABLE 1.1
AQUIFER EXEMPTION PROPOSAL(S)
USA Pearl Broadhurst 11

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)
Green River	5,244.00	5,370.00	3,596.00

The formation listed above is hereby exempted from protection as an underground source of drinking water (USDW) in compliance with provisions of the Safe Drinking Water Act as amended (42 USC 300f-300j-9, commonly known as the SDWA) and attendant regulations at Title 40 of the Code of Federal Regulations, within the subsurface interval shown and within a 1/4 mile radial distance from the surface location of the:

USA Pearl Broadhurst 11
Walker Hollow
713' FNL & 1747' FEL, NWNE S10, T7S, R23E
Uintah County, UT

This aquifer exemption is granted in conjunction with an Underground Injection Control Permit issued for the injection of Class II fluids. This Aquifer Exemption has no expiration date.

Technical Publication No. 92-State of Utah, Department of Natural Resources-BASE OF MODERATELY SALINE GROUND WATER IN THE UINTA BASIN, UTAH, identifies the base of the Underground Source of Drinking Water (USDW) in the USA Pearl Broadhurst No. 11 at an approximate depth of 3690 feet in the Green River Formation.

An analysis of produced water from the former Green River Formation oil producing perforations, 5248 feet to 5367 feet, cites the total dissolved solids (TDS) content as 3596 mg/l.

This Aquifer Exemption will be effective only for the proposed water disposal interval 5244 feet to 5370 feet

The effective date of this exemption is FEB - 8 2005.

Stephen S. Tuber
Acting Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

OMB No. 2040-0042
Fo[illegible]pproved. Expires 6-30-98

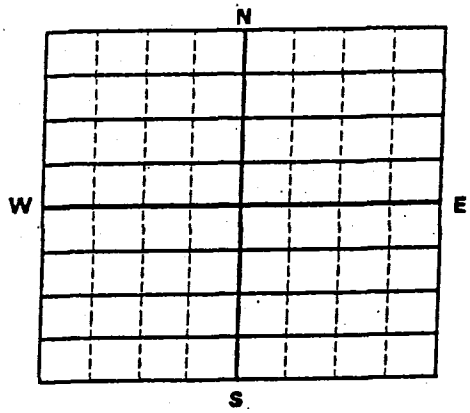
United States Environmental Protection Agency
Washington, DC 20460

EPA

Application To Transfer Permit

Name and Address of Existing Permittee	Name and Address of Surface Owner

Locate Well and Outline Unit on Section Plat- 640 Acres.



State	County	Permit Number

Surface Location Description
___ 1/4 of ___ 1/4 of ___ 1/4 of ___ 1/4 of Section___ Township___ Range___

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface
Location_____ft. from (N/S)_____Line of quarter section
and_____ft. from (E/W)_____Line of quarter section.

Well Activity	Well Status	Type of Permit
___Class I	___Operating	___Individual
___Class II	___Modification/Conversion	___Area
___Brine Disposal	___Proposed	Number of Wells___
___Enhanced Recovery		
___Hydrocarbon Storage		
___Class III		
___Other		

Lease Number Well Number

Name(s) and Address(es) of New Owners(s)	Name and Address of New Operator

Attach to this application a written agreement between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them.

The new permittee must show evidence of financial responsibility by the submission of a surety bond, or other adequate assurance, such as financial statements or other materials acceptable to the Director.

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title *(Please type or print)*	Signature	Date Signed

Form Approved. OMB No. 2040-0042. Expires 6-30-98

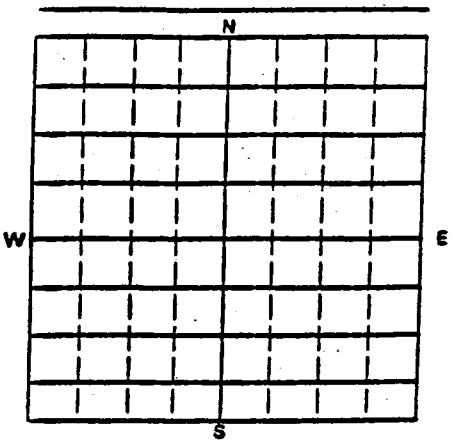
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

NAME AND ADDRESS OF EXISTING PERMITTEE	NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION
___ 1/4 of ___ 1/4 of ___ 1/4 of ___ 1/4 of Section ___ Township ___ Range ___

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location ___ ft. from (N/S) ___ Line of quarter section

and ___ ft. from (E/W) ___ Line of quarter section

WELL ACTIVITY
- ☐ Brine Disposal
- ☐ Enhanced Recovery
- ☐ Hydrocarbon Storage

TYPE OF PERMIT
- ☐ Individual
- ☐ Area

Number of Wells ___

Lease Name | Well Number

MONTH	YEAR	INJECTION PRESSURE AVERAGE PSIG	INJECTION PRESSURE MAXIMUM PSIG	TOTAL VOLUME INJECTED BBL	TOTAL VOLUME INJECTED MCF	TUBING — CASING ANNULUS PRESSURE (OPTIONAL MONITORING) MINIMUM PSIG	TUBING — CASING ANNULUS PRESSURE (OPTIONAL MONITORING) MAXIMUM PSIG

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED

Form Approved. OMB No. 2040-0042. Expires 6-30-98

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

WELL REWORK RECORD

NAME AND ADDRESS OF PERMITTEE	NAME AND ADDRESS OF CONTRACTOR

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES

N
W E
S

STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION
____ 1/4 of ____ 1/4 of ____ 1/4 of ____ 1/4 of Section____ Township____ Range____

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location _____ ft. from (N/S) _____ Line of quarter section

and _____ ft. from (E/W) _____ Line of quarter section

WELL ACTIVITY	Total Depth Before Rework	TYPE OF PERMIT
☐ Brine Disposal ☐ Enhanced Recovery ☐ Hydrocarbon Storage	Total Depth After Rework	☐ Individual ☐ Area Number of Wells _____
Lease Name	Date Rework Commenced	Well Number
	Date Rework Completed	

WELL CASING RECORD — BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

WELL CASING RECORD — AFTER REWORK *(Indicate Additions and Changes Only)*

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

DESCRIBE REWORK OPERATIONS IN DETAIL USE ADDITIONAL SHEETS IF NECESSARY	WIRE LINE LOGS, LIST EACH TYPE	
	Log Types	Logged Intervals

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

PLUGGING RECORD

NAME AND ADDRESS OF PERMITTEE

NAME AND ADDRESS OF CEMENTING COMPANY

STATE | COUNTY | PERMIT NUMBER

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES

N
W E
S

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location ____ ft. from (N/S) ____ Line of quarter section

and ____ ft. from (E/W) ____ Line of quarter section

TYPE OF AUTHORIZATION

☐ Individual Permit
☐ Area Permit
☐ Rule

Number of Wells ____

Lease Name

Describe in detail the manner in which the fluid was placed, the method used in introducing it into the hole

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE

WELL ACTIVITY

☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

METHOD OF EMPLACEMENT OF CEMENT PLUGS

☐ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)							
Depth to Bottom of Tubing or Drill Pipe (ft.)							
Sacks of Cement To Be Used (each plug)							
Slurry Volume To Be Pumped (cu. ft.)							
Calculated Top of Plug (ft.)							
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)							
Type Cement or Other Material (Class III)							

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

From	To	From	To

Signature of Cementer or Authorized Representative

Signature of EPA Representative

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (REF. 40 CFR 122.22)

NAME AND OFFICIAL TITLE *(Please type or print)* | SIGNATURE | DATE SIGNED

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

APR 19 1994

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 34
Cement bond logging techniques and interpretation

FROM: Tom Pike, Chief
UIC Direct Implementation Section

TO: All Section Staff
Montana Operations Office

These procedures are to be followed when running and interpreting cement bond logs for injection and production (area of review) wells.

PART I - PREPARE THE WELL

Allow cement to cure for a sufficient time to develop full compressive strength. A safe bet is to let the cement cure for 72 hours. If you run the bond log before the cement achieves its maximum compressive strength, the log may show poor bonding. Check cement handbooks for curing times.

Circulate the hole with a fluid (either water or mud) of uniform consistency. Travel times are influenced by the type of fluid in the hole. If the fluid changes between two points, the travel times may "drift," causing difficulty in interpretation and quality control.

Be prepared to run the cement bond log under pressure to reduce the effects of micro-annulus. Micro-annulus may be caused by several reasons, but the existence of a micro-annulus does not necessarily destroy the cement's ability to form a hydraulic seal. If the log shows poor bonding, rerun the log with the slightly more pressure on the casing as was present when the cement cured. This will cause the casing to expand against the cement and close the micro-annulus.

PART II - PARAMETERS TO LOG

Amplitude (mV) - This curve shows how much acoustic signal reaches a receiver and is an important indicator of cement bond. Record the amplitude on the 3 foot spaced receiver.

Travel time (μs) - This curve shows the amount of time it takes an acoustic signal to travel between the source and a receiver. For free pipe of a given size and weight, the travel time between points is very predictable, although variable among different company's tools. Service companies should be able to provide accurate estimates of travel times for free pipe of a given size and weight. Travel time is required as a quality control measurement. Record the travel time on the 3 foot spaced receiver.

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Variable density (VDL) - Pipe signals, formation signals, and fluid signals are usually easy to recognize on the VDL. If these signals can be identified, a practical determination for the presence or absence of cement can be made. VDL is logged on the 5 foot spaced receiver.

Casing collar locator (CCL) - Used to correlate the bond log with cased hole logs and to match casing collars with the collars that show up on the VDL portion of the display.

Gamma ray - Used to correlate the bond log with other logs.

PART III - LOGGING TECHNIQUE

Calibrate the tool in free pipe at the shop, prior to, and following the log run. Include calibration data with log.

Run receivers spaced 3 feet and 5 feet from transmitter.

Run at least 3 bow-type or rigid aluminum centralizers in vertical holes, 6 centralizers in directional holes. A CCL is not an adequate centralizer.

Complete log header with casing/cement data, tool/panel data, gate settings and tool sketch showing centralizers.

Set the amplitude gate so that skipping does not occur at amplitudes greater than 5 mV.

Record amplitude with fixed gate and note position on log.

Record amplified amplitude on a 5X scale for low amplitudes.

Record amplitude and travel time on the 3 foot receiver.

Record travel time on a 100 μs scale (150 - 250, 200 - 300).

Logging speed should be approximately 30 ft/min.

Log repeat sections.

PART IV - QUALITY CONTROL

Compare the tool calibration data to see if the tool "drifts" during logging. Differences in the calibration data may require you to re-log the well to obtain reliable data.

Compare repeat sections to see if logging results are repeatable.

Check the logged free pipe travel times with the service company charts for the specific tool and casing size used. Since the travel times depend on such factors as casing weight, type of fluid in the hole, etc., these charts should be used only as guidelines. When you are confident of the

free-pipe travel times as seen on the log, use them. When interpreting the log, a decrease in travel time (faster times) with simultaneous reduction of amplitude may show a de-centered tool. A 4 to 5 micro-second (μs) decrease in travel time corresponds to about a 35% loss of amplitude. A decrease in travel time more than 4 to 5 μs is unacceptable.

PART V - LOG INTERPRETATION

Do not rely on the service company charts for amplitudes corresponding to a good bond. These amplitudes depend on many factors: type of cement used, fluid in the hole, etc.

To estimate bond index, choose intervals on the log that correspond to 0% bond and 100% bond. Read the amplitude corresponding to 100% bond from the best-bonded interval on the log (NOTE: the accuracy of this amplitude reading is very critical to the bond index calculations). Next, find the amplitude corresponding to 0% bond. Some bond logs may not include a section with free pipe. In this instance, choose the appropriate free-pipe travel time from the service company charts for your specific tool, or from the generalized chart (TABLE 2) at the end of this guidance. To calculate a bond index of 80%, use the following equation:

$$A_{80}=10^{[(0.2)\log(A_0)+(0.8)\log(A_{100})]}$$

where:

A_{80} = Amplitude at 80% bond (mV)
A_0 = Amplitude at 0% bond (mV)
A_{100} = Amplitude at 100% bond (mV)

EXAMPLE

As an example, consider a bond log showing the following conditions:

- Free pipe (0% bond) amplitude at 81 mV.
- 100 % bond amplitude at 1 mV.

Substituting the above values into the equation results in:

$$A_{80}=10^{[(0.2)\log(81)+(0.8)\log(1)]}$$

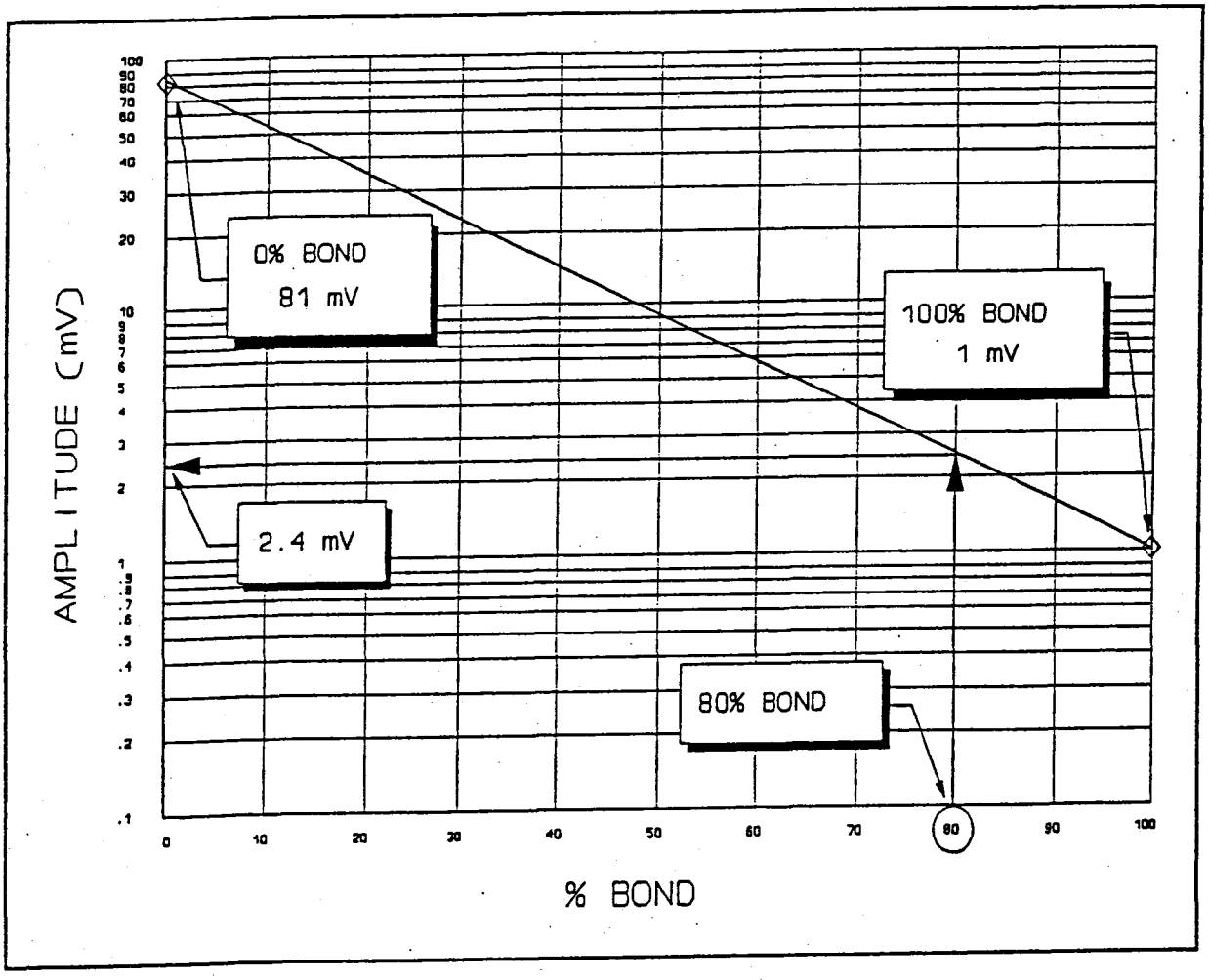
$$A_{80}=2.41mV$$

Another way to calculate the amplitude at 80% bond is by plotting these same log readings on a semi-log chart.

Plot the values for 0% Bond and 100% Bond vs. their respective Amplitudes on a semi-log chart - amplitudes on the log scale (y-axis), and bond indices on the linear scale (x-axis). Then, connect the points with a straight line.

To estimate the amplitude corresponding to an 80% Bond Index, enter the graph on the x-axis at 80% bond. Draw a straight line upward until you reach the diagonal line connecting the 0% and 100% points. Continue by drawing a horizontal line to the y-axis. This point on the y-axis is the amplitude corresponding to an 80% Bond Index.

Using the values from the example above, your chart will look like that shown below:



In this example, <u>80% bond shows an amplitude of 2.4 mV</u>.

A convenient way to evaluate the log is to draw a line on the bond log's **amplified** amplitude (5X) track corresponding to the calculated 80% bond amplitude. Whenever the logged **amplified** amplitude (5X) curve drops below (to the left of) the drawn line, this indicates a bond of 80% or more.

PART IV - CONCLUSIONS - REMINDERS

Different pipe weights and cement types will affect the log readings, so be mindful of these factors in wells with varying pipe weights and staged cement or squeeze jobs.

Collars generally do not show up on the VDL track in well-bonded sections of casing.

Longer (slower) travel time due to cycle skipping or cycle stretch usually suggests good bonding.

Shorter (faster) travel times indicate a de-centered tool or a fast formation and will provide erroneous amplitude readings that make evaluation impossible through that section of the log. Fast formations do not assure that the cement contacts the formation all around the borehole.

Although the bond index is important, you should not base your assessment of the cement quality on that one factor alone. You should use the VDL to support any indication of bonding. Also, you must know how each portion of the CBL (VDL, travel time, amplitude, etc.) influences another.

Most 3'-5' CBL's cannot identify a 1/2" channel in cement. Therefore, you also need to consider the thickness of a cemented section needed to provide zone isolation. For adequate isolation in injection wells, the log should indicate a continuous 80% or greater bond through the following intervals as seen in TABLE 1, below:

TABLE 1 - INTERVALS FOR ADEQUATE BOND

PIPE DIAMETER (in)	CONTINUOUS INTERVAL WITH BOND ≥ 80% (ft)
4-1/2	15
5	15
5-1/2	18
7	33
7-5/8	36
9-5/8	45
10-3/4	54

Adequately bonded cement by itself will not prevent fluid movement. If the bond log shows adequate bond through an interval where the geology allows fluid to move (permeable and/or fractured zones), fluids may move around perfectly bonded cement by travelling through the formation. Always cross-check your bond log with open hole logs to see that you have adequate bonding through the proper interval(s).

TABLE 2 - TRAVEL TIMES AND AMPLITUDES FOR FREE PIPE
(3 FT RECEIVER)

CASING SIZE (in)	CASING WEIGHT (lb/ft)	TRAVEL TIME (μs)		AMPLITUDE (mV)
		1-11/16" TOOL	3-5/8" TOOL	
4-1/2	9.5	252	233	81
	11.6	250	232	81
	13.5	249	230	81
5	15.0	257	238	76
	18.0	255	236	76
	20.3	253	235	76
5-1/2	15.5	266	248	72
	17.0	265	247	72
	20.0	264	245	72
	23.0	262	243	72
7	23.0	291	271	62
	26.0	289	270	62
	29.0	288	268	62
	32.0	286	267	62
	35.0	284	265	62
	38.0	283	264	62
7-5/8	26.4	301	281	59
	29.7	299	280	59
	33.7	297	278	59
	39.0	295	276	59
9-5/8	40.0	333	313	51
	43.5	332	311	51
	47.0	330	310	51
	53.5	328	309	51
10-3/4	40.5	354	333	48
	45.5	352	332	48
	51.0	350	330	48
	55.5	349	328	48

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 35
Procedures to follow when excessive annular pressure is observed on a well.

FROM: Tom Pike, Chief
UIC Direct Implementation Section

TO: All Section Staff
Montana Operations Office

The following procedure is intended as an aid to UIC field inspectors when they encounter excessive annular pressure on a well. Excessive annular pressure is defined as 100 psi or 10% of the tubing pressure, whichever is less.

Usually, annular pressure is a direct indication of a loss of mechanical integrity. In some instances, recurring annular pressure may be caused by fluctuations in the temperature of the injected fluid. These temperature fluctuations may cause the annular pressure to increase when a hot fluid is being injected and decrease as the temperature of the injected fluid cools. The presence of temperature-induced pressure on the annulus does not indicate a malfunction in the casing/tubing/packer system and is not considered a loss of mechanical integrity. Wells exhibiting recurring temperature-induced annular pressure may be allowed to continue injecting if a temperature monitoring program is approved and followed.

This guidance was written to help determine the cause of annular pressure. When the procedures in this guidance are followed, any major mechanical integrity problems (a breech in the casing/tubing/packer system) will become apparent quickly. A quick determination will allow the operator to begin follow-up procedures immediately to prevent contamination to USDWs.

Use Section Guidance No. 35 to determine <u>if</u> the well has experienced a loss of mechanical integrity. If you find that there <u>is</u> a loss of mechanical integrity, use *Headquarters Guidance No. 76. - Follow-up to loss of Mechanical Integrity for Class II Wells* to bring the well back into compliance. The use of Section Guidance No. 35 is not to be confused with, nor does it supersede any provision of Headquarters Guidance No. 76. Instead, the two guidance documents are meant to work together to identify and to remedy any potential mechanical integrity failure.

A flowchart for Section Guidance No. 35 is included for quick reference in the field.

PROCEDURES TO FOLLOW WHEN EXCESSIVE ANNULAR PRESSURE IS OBSERVED

During field inspections, the following procedures should be followed when excessive annular pressure is observed. Excessive annular pressure is defined as 100 psi or 10% of the tubing pressure, whichever is less.

NOTE CONDITIONS AT THE WELL

Note tubing and annular pressure readings, and the operating status of the well (injecting, shut-in, etc.) on the UIC inspection form.

SEE IF ANNULUS PRESSURE WILL BLEED-OFF

Attempt to bleed the pressure from the annulus by having the operator open the annulus (for a maximum of sixty seconds).

It is the operator's responsibility to collect and dispose of any fluids bled from the annulus.

DID THE ANNULAR PRESSURE BLEED TO 0 PSI WITHIN SIXTY SECONDS?

YES	NO
Have the operator close the annulus.	Have the operator close the annulus.
On your inspection form note the volume of fluid (or gas) bled from the annulus during the sixty seconds, and the tubing and annulus pressures.	On your inspection form note the volume of fluid (or gas) bled from the annulus during the sixty seconds, and the tubing and annulus pressures.
	Have the operator shut the well in for 2 hours, and if possible, bleed pressure from the injection tubing. Record the tubing and annulus pressure after two hours.
	Bleed off the annulus for 60 seconds. Record the tubing and annulus pressures after bleed-off, and estimate the volume bled off.
	INFORM THE OPERATOR THAT THE WELL HAS AN APPARENT MECHANICAL INTEGRITY FAILURE and provide the operator with the guidance that discusses OPERATOR RESPONSIBILITIES FOLLOWING MECHANICAL INTEGRITY FAILURES.
	END PROCEDURE.

SEE IF PRESSURE RETURNS WITHIN 15 MINUTES

Continue to monitor the well for annulus pressure return for at least 15 minutes after the annulus valve is closed.

DOES PRESSURE RETURN TO THE ANNULUS AFTER 15 MINUTES?

YES

On your inspection form, note the annulus and tubing pressures recorded after 15 minutes.

Have the operator shut the well in for 2 hours, and if possible, bleed pressure from the injection tubing. Record the tubing and annulus pressure after two hours.

Bleed off the annulus for 60 seconds. Record the tubing and annulus pressures after bleed-off, and estimate the volume bled off.

INFORM THE OPERATOR THAT THE WELL HAS AN APPARENT MECHANICAL INTEGRITY FAILURE and provide the operator with the guidance that discusses OPERATOR RESPONSIBILITIES FOLLOWING MECHANICAL INTEGRITY FAILURES.

END PROCEDURE.

NO

Require the operator to monitor and report to EPA with the annulus and tubing pressures for at least 14 days to see if pressure returns to the annulus.

Instruct the operator to contact EPA as soon as any pressure returns to the annulus.

DOES PRESSURE RETURN TO THE ANNULUS WITHIN 14 DAYS?

YES

EPA Technical Expert will design a proper Mechanical Integrity test.

Compliance officer will require the operator to conduct the test within 14 days.

NO

The well is considered to have mechanical integrity.

END PROCEDURE.

DOES THE WELL PASS THE MIT?

YES

Require the operator to monitor and report to EPA with the annulus and tubing pressures for at least 14 days to see if pressure returns to the annulus.

Instruct the operator to contact EPA as soon as any pressure returns to the annulus.

NO

INFORM THE OPERATOR THAT THE WELL HAS AN APPARENT MECHANICAL INTEGRITY FAILURE and provide the operator with the guidance that discusses OPERATOR RESPONSIBILITIES FOLLOWING MECHANICAL INTEGRITY FAILURES.

END PROCEDURE.

DOES PRESSURE RETURN TO THE ULUS WITHIN DAYS?	YES	NO
	EPA Technical Expert will design a proper Monitoring Program to determine the cause of recurrent annular pressure. Compliance officer will require the operator to begin the Monitoring program within 14 days. Conduct unannounced inspections at the well during the Monitoring Program.	The well is considered to have mechanical integrity. **END PROCEDURE.**

IS THE ANNULUS PRESSURE CAUSED BY TEMPERATURE?	YES	NO
	EPA Technical Expert will design a proper Temperature Monitoring Program that allows injection to continue while tracking relationship between temperature and recurrent annulus pressure. Compliance officer will require the operator to cease injection immediately if the operator fails to follow the Temperature Monitoring Program. Compliance officer will require the operator to cease injection immediately if recurrent annular pressures cannot be explained by the results of the Temperature Monitoring Program. Compliance officer will require annual Mechanical Integrity Tests using the standard pressure method.	INFORM THE OPERATOR THAT THE WELL HAS AN APPARENT MECHANICAL INTEGRITY FAILURE and provide the operator with the guidance that discusses OPERATOR RESPONSIBILITIES FOLLOWING MECHANICAL INTEGRITY FAILURES. **END PROCEDURE.**

14-DAY PRESSURE MONITORING

Please use this form to report data for a 14-day period after pressure is bled from the tubing-casing annulus. Please telephone EPA in Denver as soon as possible when/if pressure returns to the annulus. This data will be used to determine the cause(s) of recurrent annular pressure.

NOTE: DO NOT BLEED PRESSURE FROM ANNULUS DURING THE 14-DAY MONITORING PERIOD.

	DATE	TIME	ANNULUS PRESSURE (psi)	TUBING PRESSURE (psi)	WELL INJECTING (YES/NO)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					

WELL NAME:_____

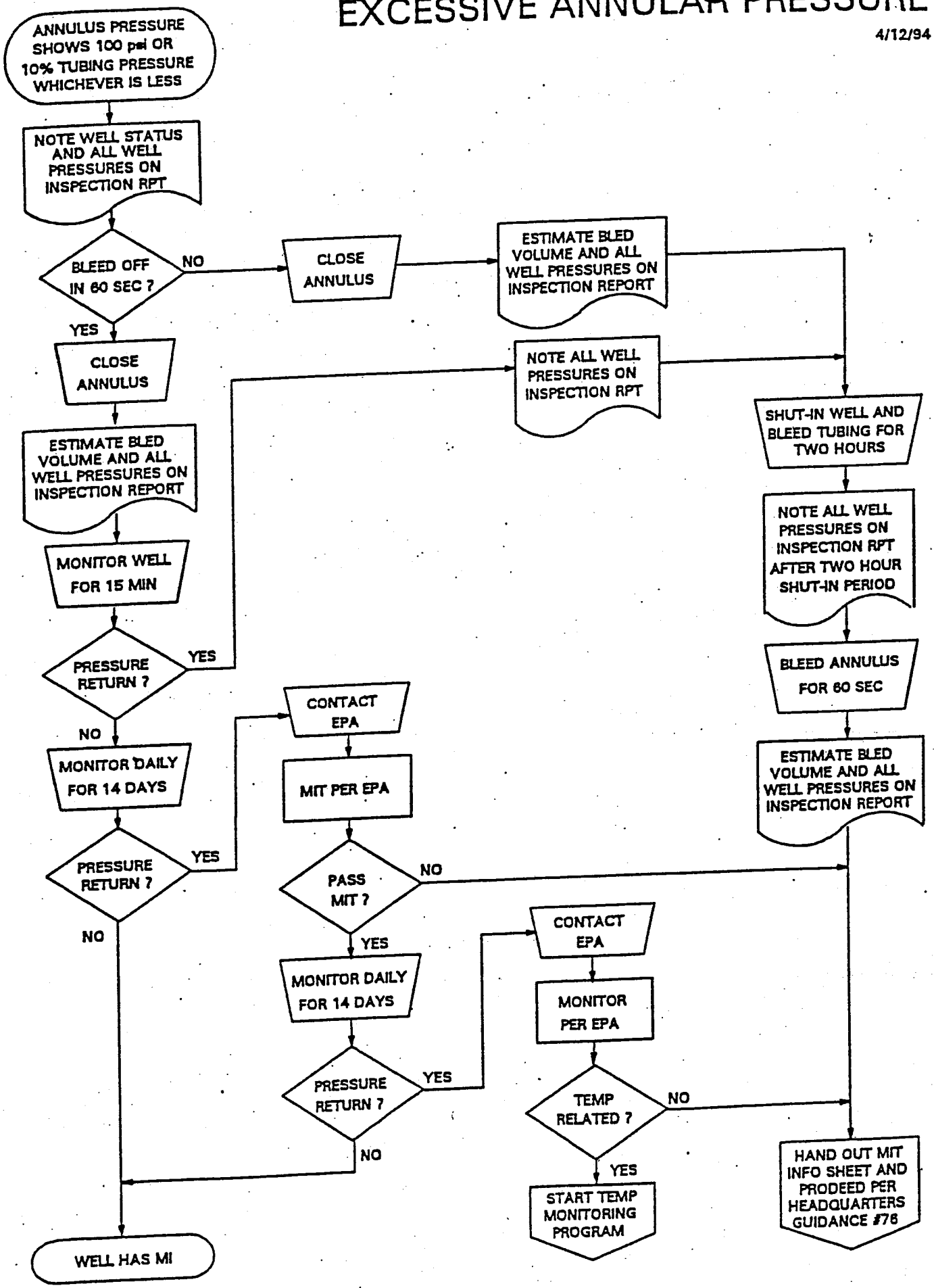
ATOR:_____

SIGNATURE:_____ DATE:_____

FCD:April 12, 1994:RCT/RCT/k:\guidance.35

EXCESSIVE ANNULAR PRESSURE

4/12/94



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

OPERATOR RESPONSIBILITIES FOLLOWING MECHANICAL INTEGRITY FAILURES

1) IMMEDIATELY - Cease injection and shut-in the well as rapidly as feasible. In no case shall the well remain in operation beyond 48 hours unless Tom Pike, Chief, Underground Injection Control Implementation (UIC-I) Section [(303) 293-1544] allows for temporary operation of the well.

2) WITHIN 24 HOURS - Verbally notify the UIC-I Section Chief of MIT failure even in cases where the failure is detected during a test which was witnessed by a UIC inspector.

3) WITHIN 5 DAYS - Submit a written follow-up report documenting test results, remediation taken or a proposed remediation plan and any limits established by the Director on appropriate volume or time for continued injection operation.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 300
DENVER, COLORADO 80202-2466

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 37
Demonstrating Part II (external) Mechanical Integrity for a Class II injection well permit.

FROM: Tom Pike, Chief
UIC Direct Implementation Section

TO: All Section Staff
Montana Operations Office

During the review for a Class II injection well permit, consideration must be given to the mechanical integrity (MI) of the well. MI demonstrates that the well is in sound condition and that the well is constructed in a manner that prevents injected fluids from entering any formation other than the authorized injection formation.

A demonstration of MI is a two part process:

PART I - **INTERNAL MECHANICAL INTEGRITY** is an assurance that there are no significant leaks in the casing/tubing/packer system.

PART II - **EXTERNAL MECHANICAL INTEGRITY** demonstrates that after fluid is injected into the formation, the injected fluids will not migrate out of the authorized injection interval through vertical channels adjacent to the wellbore.

A Class II injection well may demonstrate Part II MI by showing that injected fluids remain within the authorized injection interval. This may be accomplished as follows:

1) Cement bond log showing 80% bond through the an appropriate interval (Section Guidance 34),

2) Radioactive tracer survey conducted according to a EPA-approved procedure, or

3) Temperature survey conducted according to a EPA-approved procedure (Section Guidance 38).

For each test option above, the operator of the injection well should submit a plan for conducting the test. The plan will then be approved (or modified and approved) by EPA. EPA's pre-approval of the testing method will assure the operator that the

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test is conducted consistent with current EPA guidance, and that the test will provide meaningful results.

Part II MI may be demonstrated either before or after issuing the Final Permit. However, if Part II is to be demonstrated after the Final Permit is issued, a provision in the permit will require the demonstration of Part II MI. The well will also be required to pass Part II MI prior to granting authorization to inject.

Radioactive tracer surveys and temperature surveys require that the well be allowed to inject fluids as part of the procedure. In these cases, a well that has shown no other demonstration of Part II MI will be allowed to inject only that volume of fluid that is necessary to conduct the appropriate test.

After the results of the test proves that the well has passed Part II MI, the well will be given authorization to begin full injection operations.

If any of the tests show a lack of Part II MI, the well will be repaired and retested, or plugged (See Headquarters Guidance #76).

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Mechanical Integrity Test
Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: ____/____/____

Test conducted by: _____

Others present: _____

Well Name: _____ Type: ER SWD Status: AC TA UC

Field: _____

Location: _____ Sec: ____ T ____ N / S R ____ E / W County: _____ State: ____

Operator: _____

Last MIT: ____/____/____ Maximum Allowable Pressure: _____ PSIG

Is this a regularly scheduled test? [ ] Yes [ ] No

Initial test for permit? [ ] Yes [ ] No

Test after well rework? [ ] Yes [ ] No

Well injecting during test? [ ] Yes [ ] No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: _____ psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING	*PRESSURE*		
Initial Pressure	psig	psig	psig
End of test pressure	psig	psig	psig
CASING / TUBING	*ANNULUS*	*PRESSURE*	
0 minutes	psig	psig	psig
5 minutes	psig	psig	psig
10 minutes	psig	psig	psig
15 minutes	psig	psig	psig
20 minutes	psig	psig	psig
25 minutes	psig	psig	psig
30 minutes	psig	psig	psig
minutes	psig	psig	psig
minutes	psig	psig	psig
RESULT	[ ] Pass [ ]Fail	[ ] Pass [ ]Fail	[ ] Pass [ ]Fail

Does the annulus pressure build back up after the test ? [ ] Yes [ ] No

(over)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 39
Pressure testing injection wells for Part I (internal) Mechanical Integrity

FROM: Tom Pike, Chief
UIC Direct Implementation Section

TO: All Section Staff
Montana Operations Office

Introduction

The Underground Injection Control (UIC) regulations require that an injection well have mechanical integrity at all times (40 CFR 144.28 (f)(2) and 40 CFR 144.51 (q)(1)). A well has mechanical integrity (40 CFR 146.8) if:

(1) There is no significant leak in the tubing, casing or packer; and

(2) There is no significant fluid movement into an underground source of drinking water (USDW) through vertical channels adjacent to the injection wellbore.

Definition: Mechanical Integrity Pressure Test for Part I. A pressure test used to determine the integrity of all the downhole components of an injection well, usually tubing,casing and packer. It is also used to test tubing cemented in the hole by using a tubing plug or retrievable packer. Pressure tests must be run at least once every five years. **If for any reason the tubing/packer is pulled, the injection well is required to pass another mechanical integrity test of the tubing casing and packer prior to recommencing injection regardless of when the last test was conducted. Tests run by operators in the absence of an EPA inspector must be conducted according to these procedures and recorded on either the attached form or an equivalent form containing the necessary information. A pressure recording chart documenting the actual annulus test pressures must be attached to the form.**

This guidance addresses making a determination of Part I of Mechanical Integrity (no leaks in the tubing, casing or packer). The Region's policy is: 1) to determine if there are significant leaks in the tubing, casing or packer; 2) to assure that the casing can withstand pressure similar to that which

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would be applied if the tubing or packer fails; 3) to make the Region's test procedure consistent with the procedures utilized by other Region VIII Primacy programs; and 4) to provide a procedure which can be easily administered and is applicable to all class I and II wells. Although there are several methods allowed for determining mechanical integrity, the principal method involves running a pressure test of the tubing/casing annulus. Region VIII's procedure for running a pressure test is intended to aid UIC field inspectors who witness pressure tests for the purpose of demonstrating that a well has Part I of Mechanical Integrity. The guidance is also intended as a means of informing operators of the procedures required for conducting the test in the absence of an EPA inspector.

Pressure Test Description

Test Frequency

The mechanical integrity of an injection well must be maintained at all times. Mechanical integrity pressure tests are required at least every five (5) years. **If for any reason the tubing/packer is pulled, however, the injection well is required to pass another mechanical integrity test prior to recommencing injection regardless of when the last test was conducted. The Regional UIC program must be notified of the workover and the proposed date of the pressure test. The well's test cycle would then start from the date of the new test if the well passes the test and documentation is adequate.** Tests may be required on a more frequent basis depending on the nature of the injectate and the construction of the well (see Section guidance on MITs for wells with cemented tubing and regulations for Class I wells).

Region VIII's criteria for well testing frequency is as follows:

1. Class I hazardous waste injection wells; initially [40 CFR 146.68(d)(1)] and annually thereafter;

2. Class I non-hazardous waste injection wells; initially and every two (2) years thereafter, except for old permits (such as the disposal wells at carbon dioxide extraction plants which require a test at least every five years);

3. Class II wells with tubing, casing and packer; initially and at least every five (5) years thereafter;

4. Class II wells with tubing cemented in the hole; initially and every one (1) or two (2) years thereafter

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depending on well specific conditions (See Region VIII UIC Section Guidance #36);

5. Class II wells which have been temporarily abandoned (TAd) must be pressure tested after being shut-in for two years; and

6. Class III uranium extraction wells; initially.

Test Pressure

To assure that the test pressure will detect significant leaks and that the casing is subjected to pressure similar to that which would be applied if the tubing or packer fails, the tubing/casing annulus should be **tested at a pressure equal to the maximum allowed injection pressure or 1000 psig whichever is less. The annular test pressure must, however, have a difference of at least 200 psig either greater or less than the injection tubing pressure. Wells which inject at pressures of less than 300 psig must test at a minimum pressure of 300 psig, and the pressure difference between the annulus and the injection tubing must be at least 200 psi.**

Test Criteria

1. The duration of the pressure test is 30 minutes.

2. Both the annulus and tubing pressures should be monitored and recorded every five (5) minutes.

3. If there is a pressure change of 10 percent or more from the initial test pressure during the 30 minute duration, the well has failed to demonstrate mechanical integrity and should be shut-in until it is repaired or plugged.

4. A pressure change of 10 percent or more is considered significant. If there is no significant pressure change in 30 minutes from the time that the pressure source is disconnected from the annulus, the test may be completed as passed.

Recordkeeping and Reporting

The test results must be recorded on the attached form. The annulus pressure should be recorded at five (5) minute intervals. Tests run by operators in the absence of an EPA inspector must be conducted according to these procedures and recorded on the attached form or an equivalent form and a pressure recording

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chart documenting the actual annulus test pressures must be attached to the submittal. The tubing pressure at the beginning and end of each test must be recorded. The volume of the annulus fluid bled back at the surface after the test should be measured and recorded on the form. This can be done by bleeding the annulus pressure off and discharging the associated fluid into a five gallon container. The volume information can be used to verify the approximate location of the packer.

Procedures for Pressure Test

1. Scheduling the test should be done at least two (2) weeks in advance.

2. Information on the well completion (location of the packer, location of perforations, previous cement work on the casing, size of casing and tubing, etc.) and the results of the previous MIT test should be reviewed by the field inspector in advance of the test. Regional UIC Guidance #35 should also be reviewed. Information relating to the previous MIT and any well workovers should be reviewed and taken into the field for verification purposes.

3. All Class I wells and Class II SWD wells should be shut-in prior to the test. A 12 to 24-hour shut-in is preferable to assure that the temperature of the fluid in the wellbore is stable.

4. Class II enhanced recovery wells may be operating during the test, but it is recommended that the well be shut-in if possible.

5. The operator should fill the casing/tubing annulus with inhibited fluid at least 24 hours in advance, if possible. Filling the annulus should be undertaken through one valve with the second valve open to allow air to escape. After the operator has filled the annulus, a check should be made to assure that the annulus will remain full. If the annulus can not maintain a full column of fluid, the operator should notify the Director and begin a rework. The operator should measure and report the volume of fluid added to the annulus. If not already the case, the casing/tubing valves should be closed, at least, 24 hours prior to the pressure test.

Following steps are at the well:

6. Read tubing pressure and record on the form. If the

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well is shut-in, the reported information on the actual maximum operating pressure should be used to determine test pressures.

7. Read pressure on the casing/tubing annulus and record value on the form. If there is pressure on the annulus, it should be bled off prior to the test. If the pressure will not bleed-off, the guidance on well failures (Region VIII UIC Section Guidance #35) should be followed.

8. Ask the operator for the date of the last workover and the volume of fluid added to the annulus prior to this test and record information on the form.

9. Hook-up well to pressure source and apply pressure until test value is reached.

10. Immediately disconnect pressure source and start test time (If there has been a significant drop in pressure during the process of disconnection, the test may have to be restarted). The pressure gages used to monitor injection tubing pressure and annulus pressure should have a pressure range which will allow the test pressure to be near the mid-range of the gage. Additionally, the gage must be of sufficient accuracy and scale to allow an accurate reading of a 10 percent change to be read. For instance, a test pressure of 600 psi should be monitored with a 0 to 1000 psi gage. The scale should be incremented in 20 psi increments.

11. Record tubing and annulus pressure values every five (5) minutes.

12. At the end of the test, record the final tubing pressure.

13. If the test fails, check the valves, bull plugs and casing head close up for possible leaks. The well should be retested.

14. If the second test indicates a well failure, the Region should be informed of the failure within 24 hours by the operator, and the well should be shut-in within 48 hours per Headquarters guidance #76. A follow-up letter should be prepared by the operator which outlines the cause of the MIT failure and proposes a potential course of action. This report should be submitted to EPA within five days.

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15. Bleed off well into a bucket, if possible, to obtain a volume estimate. This should be compared to the calculated value obtained using the casing/tubing annulus volume and fluid compressibility values.

16. Return to office and prepare follow-up.

Alternative Test Option

While it is expected that the test procedure outlined above will be applicable to most wells, the potential does exist that unique circumstances may exist for a given well that precludes or makes unsafe the application of this test procedure. In the event that these exceptional or extraordinary conditions are encountered, the operator has the option to propose an alternative test or monitoring procedures. The request must be submitted by the operator in writing and must be approved in writing by the UIC-Implementation Section Chief or equivalent level of management.

Attachment

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Mechanical Integrity Test
Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: ____/____/____

Test conducted by: _____

Others present: _____

Well Name: _____ Type: ER SWD Status: AC TA UC

Field: _____

Location: _____ Sec: ____ T ____ N / S R ____ E / W County: _____ State: ____

Operator: _____

Last MIT: ____/____/____ Maximum Allowable Pressure: _____ PSIG

Is this a regularly scheduled test? [ ] Yes [ ] No

Initial test for permit? [ ] Yes [ ] No

Test after well rework? [ ] Yes [ ] No

Well injecting during test? [ ] Yes [ ] No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: _____ psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	psig	psig	psig
End of test pressure	psig	psig	psig
CASING / TUBING ANNULUS PRESSURE			
0 minutes	psig	psig	psig
5 minutes	psig	psig	psig
10 minutes	psig	psig	psig
15 minutes	psig	psig	psig
20 minutes	psig	psig	psig
25 minutes	psig	psig	psig
30 minutes	psig	psig	psig
minutes	psig	psig	psig
minutes	psig	psig	psig
RESULT	[ ] Pass [ ]Fail	[ ] Pass [ ]Fail	[ ] Pass [ ]Fail

Does the annulus pressure build back up after the test ? [ ] Yes [ ] No

(over)

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness:

OFFICE USE ONLY - COMPLIANCE FOLLOWUP

Staff _____ Date: ___/___/___

Do you agree with the reported test results? [ ] YES [ ] NO

If not, why?

Possible violation identified? [ ] YES [ ] NO

If YES, what

If YES - followup initiated? [ ] YES

[ ] NO - why not?

[ ] Data Entry [ ] Compliance Staff [ ] 2nd Data Entry [ ] Hardcopy Filing

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
999 18th STREET - SUITE 300
DENVER, CO 80202-2466
http://www.epa.gov/region08

FEB - 8 2005

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

FOR RECORD ONLY

Sharon Ward
Citation Oil and Gas Corp.
P.O. Box 690688
Houston, TX 77269-0688

Re: Underground Injection Control Program
Permit for the USA Pearl Broadhurst 11 Well
Uintah County, UT
EPA Permit No. UT20970-06388

Dear Ms. Ward

Enclosed is your copy of the FINAL Underground Injection Control (UIC) Permit for the proposed USA Pearl Broadhurst 11, in Uintah County, Utah. A Statement of Basis, which discusses development of the conditions and requirements of the Permit, also is included.

The Public Comment period ended on JAN 20 2005. There were no comments on the Draft Permit received during the Public Notice period, and therefore the Final Permit becomes effective on the date of issuance. All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations (CFR) and are regulations that are in effect on the date that this Permit becomes effective.

Please note that under the terms of the Final Permit, you are authorized only to construct the proposed injection well, and must fulfill the "Prior to Commencing Injection" requirements of the Permit, Part II Section C Subpart 1 and obtain written Authorization to Inject prior to commencing injection. It is your responsibility to be familiar with and to comply with all provisions of the Final Permit.

The Permit and the authorization to inject are issued for the operating life of the well unless terminated (Part III, Section B). The EPA will review this Permit at least every five (5) years to determine whether action under 40 CFR § 144.36(a) is warranted.

RECEIVED
FEB 16 2005
DIV. OF OIL, GAS & MINING

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If you have any questions on the enclosed Final Permit or Statement of Basis, please call Emmett Schmitz of my staff at (303) 312-6174, or toll-free at (800) 227-8917, ext. 6174.

Sincerely,

Carol L. Campbell for

Stephen S. Tuber
Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

enclosure:
Final UIC Permit
Statement of Basis
Aquifer Exemption
Form 7520-7 Application to Transfer Permit
Form 7520-11 Monitoring Report
Form 7520-14 Plugging Plan
Form 7520-12 Well Rework Record
Groundwater Section Guidance 34
Groundwater Section Guidance 35
Groundwater Section Guidance 37
Groundwater Section Guidance 39

cc:
Maxine Natchees
Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe

Elaine Willie
Environmental Coordinator
Ute Indian Tribe

Chester Mills
Superintendent
Bureau of Indian Affairs
Uintah & Ouray Indian Agency

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Gil Hunt
Technical Services Manager
State of Utah - Natural Resources
Division of Oil, Gas and Mining

Ed Forsman
Sr. Petroleum Engineer
Bureau of Land Management
Vernal District

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4304730840
7S 23E
Sec. 10

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
999 18TH STREET - SUITE 300
DENVER, CO 80202-2466
Phone 800-227-8917
http://www.epa.gov/region08

MAR 31 2005

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED
APR 04 2005
DIV. OF OIL, GAS & MINING

Robert Christofferson
Citation Oil & Gas Corp.
1016 East Lincoln
Gillette, WY 82716

RE: UNDERGROUND INJECTION (UIC)
Final Permit - APPENDIX B
Permit No. UT20970-06388
USA Pearl Broadhurst No. 11
Uintah County, Utah

Dear Mr. Christofferson:

Permit UT20970-06388 (Issued and Effective February 8, 2005), APPENDIX B: LOGGING AND TESTING REQUIREMENTS-LOGS required Citation Oil & Gas Corp. (Citation) to run a Cement Bond Log (CBL) in the USA Pearl Broadhurst No. 11 prior to receiving authorization to inject. In response to your inquiry, EPA reviewed the information in the application and located the CBL submitted by Citation referenced in the Statement of Basis. This CBL demonstrates adequate cement across the confining zone as cited in the Statement of Basis (PART III. WELL CONSTRUCTION), in Casing and Cementing (Page 9), in the AOR Corrective Action Plan (Page 10), and Mechanical Integrity (Page 12).

Therefore, no additional CBL is required as a condition of this Permit. Please replace the original Appendix B with the enclosed revised Appendix B in your copy of the Final Permit.

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If you have any questions in regard to the above action, please call Emmett Schmitz of my staff. Mr. Schmitz may be contacted by calling 1-800-227-8917 (Ext. 6174) (Long Distance), or in the Denver area by calling 303-312-6174.

Sincerely,

Carl L. Campbell for

Stephen S. Tuber
Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

enclosure: APPENDIX B...Final Permit UT20970-06388

cc w/ enclosure: Maxine Natchees
Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe

Elaine Willie
Environmental Coordinator
Ute Indian Tribe

Sharon Ward
Regulatory Administrator
Citation Oil & Gas Corp.
8223 Willow Place South
Houston, TX 77070

Chester Mills
Superintendent
Bureau of Indian Affairs
Uintah & Ouray Indian Agency

Gil Hunt
Technical Services Manager
State of Utah - Natural Resources

Kirk Fleetwood
Petroleum Engineer
Bureau of Land Management
Vernal District

APPENDIX B

LOGGING AND TESTING REQUIREMENTS

Logs.
Logs will be conducted according to current UIC guidance. It is the responsibility of the permittee to obtain and use guidance prior to conducting any well logging required as a condition of this permit.

NO LOGGING REQUIREMENTS

Tests.
Tests will be conducted according to current UIC guidance. It is the responsibility of the permittee to obtain and use guidance prior to conducting any well test required as a condition of this permit.

The requirement to conduct a Step-Rate Test (SRT), within 180 days after Authorization to Inject, is based upon (1) the applicant's use of a Fracture Gradient (FG) of 0.757 psi/ft which is calculated from a sand/frac treatment of the perforated interval 5248 feet to 5367 feet, and (2) an initial Maximum Surface Injection Pressure (MIP) using an average depth of 5308 feet, not on the uppermost perforation of 5248 feet.

WELL NAME: USA Pearl Broadhurst 11

TYPE OF TEST	DATE DUE
Pore Pressure	Prior to Authorization to Inject
Standard Annulus Pressure	Prior to Authorization to Inject
Step Rate Test	Within 180 days after Authorization to Inject

43047308 40
7S 23E Sec 10

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
999 18TH STREET - SUITE 300
DENVER, CO 80202-2466
http://www.epa.gov/region08

JUL 12 2005

RECEIVED
JUL 14 2005
DIV. OF OIL, GAS & MINING

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Ms. Sharon Ward
Regulatory Administrator
Citation Oil & Gas Corp.
8223 Willow Place South
Houston, TX 77070

REF: UNDERGROUND INJECTION CONTROL (UIC)
Authority to Commence Injection
Well Permit No. UT20970-06388
USA Pearl Broadhurst No. 11
Uintah County, Utah

Dear Mr. Guinn:

Citation Oil & Gas Corp. (Citation) has satisfactorily fulfilled all the Environmental Protection Agency's (EPA) **Prior to Commencing Injection** requirements in the Permit UT20970-06388 (Effective February 8, 2005). All Prior to Injection Requirements, i.e., Part I (Internal) Mechanical Integrity Test, Well Rework Record (EPA Form No. 7520-12), and a pore pressure have been reviewed and approved by the EPA.

Citation, as of the date of this letter, is authorized to commence injection into the USA Pearl Broadhurst No. 11. There will be no limitation on the number of barrels of water that will be injected into the Green River Formation interval 5244 feet to 5370 feet. Until such time that the permittee demonstrates through a Step-Rate Injectivity Test that the fracture gradient is other than 0.757 psi/ft, the USA Pearl Broadhurst No. 11 shall be operated at a **maximum allowable injection pressure no greater than 1690 psig**.

As of this approval, responsibility for Permit compliance and enforcement is transferred to the Region VIII UIC Technical Enforcement Program office. Therefore, please direct all future notification, reporting, monitoring and compliance correspondence to the following address, referencing your well name and UIC Permit number on all correspondence regarding this well:

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

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Mr. Nathan Wiser
Technical Enforcement Program - UIC
U.S. EPA Region VIII: Mail Code 8ENF-UFO
999-18th Street - Suite 300
Denver, CO 80202-2466
Phone: 303-312-6211, or 1.800.227.8917 (Ext. 6211)

Please be reminded that it is your responsibility to be aware of and to comply with all conditions of Permit UT20970-06388. If you have any questions in regard to the above action, please contact Dan Jackson at 303-312-6155 in the Denver area, or 1.800.227.8917 (Ext. 6155).

Sincerely,

Tracy M. Eagle

Tracy M. Eagle
Director
Ground Water Program

cc: Maxine Natchees
Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe

Elaine Willie
Environmental Coordinator
Ute Indian Tribe

Chester Mills
Superintendent
Bureau of Indian Affairs
Uintah & Ouray Indian Agency

Gil Hunt
Technical Services Manager
State of Utah - Natural Resources

Kirk Fleetwood
Sr. Petroleum Engineer
Bureau of Land Management
Vernal District

Nathan Wiser
8ENF-UFO

Form 3160-4
(July 1992)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE (See other instructions on reverse side)

FORM APPROVED
OMB No. 1004-0137
Expires February 28, 1995

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ Other **Injection**

b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other **Conversion**

2. NAME OF OPERATOR
Citation Oil & Gas Corp.

3. ADDRESS AND TELEPHONE NO.
P.O. Box 690688, Houston, Texas 77269-0688 (281) 517-7194

4. LOCATION OF WELL *(Report location clearly and in accordance with any State requirements)**
At surface **713' FNL & 1747' FEL; NW NE**
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.
UTU02651A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.
USA Pearl Broadhurst 11

9. API WELL NO.
43-047-30840

10. FIELD AND POOL, OR WILDCAT
Walker Hollow Green River

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

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
		Uintah	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. *(Ready to prod.)*	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
2/28/1981	3/17/1981	6/16/2005 Conversion	5161' GR; 5204' RKB	--

20. TOTAL DEPTH, MD & TVD	21. PLUG BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5610'	5551'		→→→		

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Injection - Green River 5248' - 5370'

25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN

27. WAS WELL CORED

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

CASING SIZE/GRADE	WEIGHT LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24	508	12-1/4"	Surface - 380 sx "G"	N/A
5-1/2"	14	5597'	7-7/8"	Surface - 750 sx "G"	N/A

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
N/A				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	5238'	5235'

31. PERFORATION RECORD *(Interval, size and number)*
5248' - 5370'; 1 spf

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5248' - 5370'	6000 gals 7.5% HCl in 6 stages
	with 2500# RS in gelled brine

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD *(Flowing, gas, lift, pumping—size and type of pump)*	WELL STATUS (Producing or shut-in)
Injection - 7/20/2005		

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
			→→→				

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

34. DISPOSITION OF GAS *(Sold, used for fuel, vented, etc.)*

TEST WITNESSED BY

35. LIST OF ATTACHMENTS EPA and Utah DOGM Completion Forms; EPA Authority to Inject and MIT dated 6/14/2005

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

SIGNED Debra Harris Debra Harris TITLE Production/Regulatory Coordinator DATE 8/25/2005

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

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

RECEIVED
AUG 30 2005
DIV. OF OIL, GAS & MINING

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Green River	**5248'**	**5370'**	**Injection interval**

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Green river	**5248'**	**5248'**

©U.S. GOVERNMENT PRINTING OFFICE: 1992—774-672

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
999 18TH STREET - SUITE 300
DENVER, CO 80202-2466
http://www.epa.gov/region08

JUL 12 2005

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Ms. Sharon Ward
Regulatory Administrator
Citation Oil & Gas Corp.
8223 Willow Place South
Houston, TX 77070

REF: UNDERGROUND INJECTION CONTROL (UIC)
Authority to Commence Injection
Well Permit No. UT20970-06388
USA Pearl Broadhurst No. 11
Uintah County, Utah

Dear Mr. Guinn:

Citation Oil & Gas Corp. (Citation) has satisfactorily fulfilled all the Environmental Protection Agency's (EPA) **Prior to Commencing Injection** requirements in the Permit UT20970-06388 (Effective February 8, 2005). All Prior to Injection Requirements, i.e., Part I (Internal) Mechanical Integrity Test, Well Rework Record (EPA Form No. 7520-12), and a pore pressure have been reviewed and approved by the EPA.

Citation, as of the date of this letter, is authorized to commence injection into the USA Pearl Broadhurst No. 11. There will be no limitation on the number of barrels of water that will be injected into the Green River Formation interval 5244 feet to 5370 feet. Until such time that the permittee demonstrates through a Step-Rate Injectivity Test that the fracture gradient is other than 0.757 psi/ft, the USA Pearl Broadhurst No. 11 shall be operated at a **maximum allowable injection pressure no greater than 1690 psig.**

As of this approval, responsibility for Permit compliance and enforcement is transferred to the Region VIII UIC Technical Enforcement Program office. Therefore, please direct all future notification, reporting, monitoring and compliance correspondence to the following address, referencing your well name and UIC Permit number on all correspondence regarding this well:

Printed on Recycled Paper

Mr. Nathan Wiser
Technical Enforcement Program - UIC
U.S. EPA Region VIII: Mail Code 8ENF-UFO
999-18th Street - Suite 300
Denver, CO 80202-2466
Phone: 303-312-6211, or 1.800.227.8917 (Ext. 6211)

Please be reminded that it is your responsibility to be aware of and to comply with all conditions of Permit UT20970-06388. If you have any questions in regard to the above action, please contact Dan Jackson at 303-312-6155 in the Denver area, or 1.800.227.8917 (Ext. 6155).

Sincerely,

Tracy M. Eagle

Tracy M. Eagle
Director
Ground Water Program

cc: Maxine Natchees
Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe

Elaine Willie
Environmental Coordinator
Ute Indian Tribe

Chester Mills
Superintendent
Bureau of Indian Affairs
Uintah & Ouray Indian Agency

Gil Hunt
Technical Services Manager
State of Utah - Natural Resources

Kirk Fleetwood
Sr. Petroleum Engineer
Bureau of Land Management
Vernal District

Nathan Wiser
8ENF-UFO

Form Approved. OMB No. 2040-0042. Expires 6-30-98

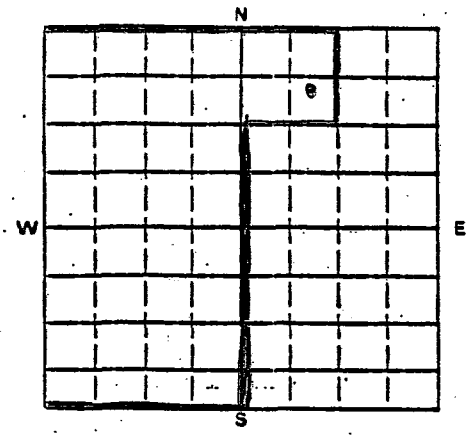
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

WELL REWORK RECORD

NAME AND ADDRESS OF PERMITTEE	NAME AND ADDRESS OF CONTRACTOR
Citation Oil & Gas Corp. 8223 Willow Place South Houston, Texas 77070	

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER
UT	Uintah	UT20970-06388

SURFACE LOCATION DESCRIPTION
___ 1/4 of ___ 1/4 of NW 1/4 of NE 1/4 of Section 10 Township 7S Range 23E

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location 713 ft. from (N/S) N Line of quarter section
and 1747 ft. from (E/W) E Line of quarter section

WELL ACTIVITY	Total Depth Before Rework	TYPE OF PERMIT
☐ Brine Disposal ☒ Enhanced Recovery ☐ Hydrocarbon Storage	5610	☒ Individual ☐ Area Number of Wells 1
	Total Depth After Rework 5610	
Lease Name USA Pearl Broadhurst	Date Rework Commenced 5/24/05	Well Number 11
	Date Rework Completed 6/17/05	

WELL CASING RECORD — BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	
8 5/8	508	380	G	N/A	N/A	
5 1/2	5597	750	G	5248	5370	(4/81) 1000 gal 7.5% HCL stimulat
						10,000 gal Super E pad frac.
						30,000 gal Super E fluid
						55,000 # 20-40 sand
						24,000 # 10-20 sand

WELL CASING RECORD — AFTER REWORK *(Indicate Additions and Changes Only)*

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	
8 5/8	508	380	G	N/A	N/A	
5 1/2	5597	750	G	5248	5370	(5/05) 6000 gal 7½% HCL in 6 stage
						2500# rock salt in gelled brine

DESCRIBE REWORK OPERATIONS IN DETAIL USE ADDITIONAL SHEETS IF NECESSARY	WIRE LINE LOGS, LIST EACH TYPE Log Types	Logged Intervals
MIRUSU ND WH NU BOP. PU 1 jt latch on & release	N/A	N/A
RBP @ 5223'. TOOH PU & TIH w/scraper to 5250'.		
TIH set SN & pkr @ 5210'. Test csg to 1000psi		
test tbg to 3000 psi. Swabbed. Acidized formation.		

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED
Regulatory Administrator	Sharon Ward	June 30, 2005

Citation Oil & Gas Corp.
8223 Willow Place South
Houston, Texas 77070

Detail of operations

Picked up and tripped in hole w/Arrow set packer and stainless steel on/off tool w/2 7/8" IPC tubing. Flushed tubing with hot H2O to clear out wax. Nippled down BOP and set well head. Circulated hole with packer fluid. Set packer at 5234.96'. Nippled up well head and tested casing to 1000 psi for 15 minutes. Rigged down and moved off service unit.

Shut in waiting on EPA approval.

Mechanical Integrity Test
Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: 6 / 14 / 05
Test conducted by: Robert Eye Citation Oil & Gas
Others present: Denny Haddlock - Big Red Hot oiler

Well Name: Pearl Broadhurst # 11 Type: ER (SWD) Status: AC TA UC
Field: Walker Hollow
Location: NW-NE Sec: 10 T 2 N (S) R 23 (E) / W County: Uintah State: UT
Operator: Citation Oil & Gas
Last MIT: / / Maximum Allowable Pressure: _____ PSIG

Is this a regularly scheduled test? [ ] Yes [X] No
Initial test for permit? [X] Yes [ ] No
Test after well rework? [X] Yes [ ] No
Well injecting during test? [ ] Yes [X] No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: 0/0 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING	*PRESSURE*		
Initial Pressure	0 psig	psig	psig
End of test pressure	0 psig	psig	psig
CASING / TUBING	*ANNULUS*	*PRESSURE*	
0 minutes	1000 psig	psig	psig
5 minutes	1000 psig	psig	psig
10 minutes	1000 psig	psig	psig
15 minutes	1000 psig	psig	psig
20 minutes	1000 psig	psig	psig
25 minutes	1000 psig	psig	psig
30 minutes	1000 psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	[X] Pass [ ] Fail	[ ] Pass [ ] Fail	[ ] Pass [ ] Fail

Does the annulus pressure build back up after the test ? [ ] Yes [ ] No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:
Denny Haddlock

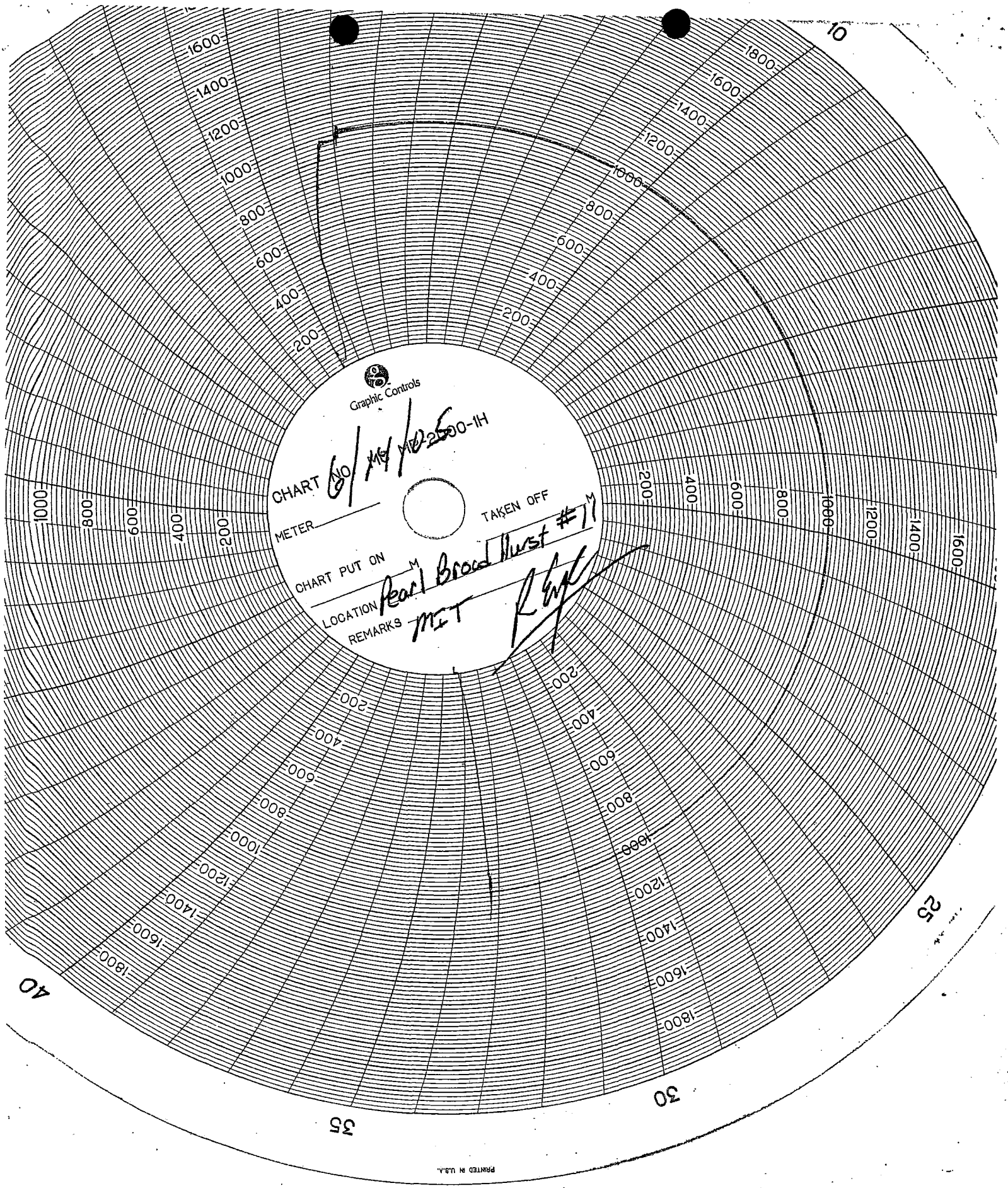

Graphic Controls
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CHART PUT ON
LOCATION Pearl Broad Hurst #11
REMARKS MIT
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PRINTED IN U.S.A.

Form 3160- 5
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004- 0137
Expires: March 31, 2007

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.

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 #11
9. API Well No. 43-047-30840
10. Field and Pool, or Exploratory Area Walker Hollow Green River
11. County or Parish, State Uintah, UT

1. Type of Well
[X] Oil Well [ ] Gas Well [✓] Other WI

2. Name of Operator
Citation Oil & Gas Corp.

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

3b. Phone No. *(include area code)*
(281) 517-7194

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
NW NE Sec. 10 7S 23E 713 FNL 1747 FEL

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

TYPE OF SUBMISSION	TYPE OF ACTION			
[X] Notice of Intent	[ ] Acidize	[ ] Deepen	[ ] Production (Start/ Resume)	[ ] Water Shut-off
	[ ] Altering Casing	[ ] Fracture Treat	[ ] Reclamation	[ ] Well Integrity
[ ] Subsequent Report	[ ] Casing Repair	[ ] New Construction	[ ] Recomplete	[X] Other
	[ ] Change Plans	[ ] Plug and abandon	[ ] Temporarily Abandon	
[ ] Final Abandonment Notice	[ ] Convert to Injection	[ ] Plug-back	[ ] Water Disposal	

13. Describe Proposed or Completed Operation (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 or pertinent markers and sands. Attach the Bond under which the work will performed or provide the Bond No. on file with the 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 Notice shall be filed only after all requirements, including reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)

Citation Oil & Gas Corp. requests permission to clean out the above referenced well to obtain an injection profile with the attached procedure.

COPY SENT TO OPERATOR
Date: 12-1-05
Initials: CHD

Accepted by the
Utah Division of
Oil, Gas and Mining
Date: 11/30/05
By: [signature]

Federal Approval Of This Action Is Necessary

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

Name *(Printed/ Typed)* Bridget Lisenbe

Title Regulatory Assistant

Signature Bridget Lisenbe

Date 11/21/2005

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by | Title | Date

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

RECEIVED
NOV 28 2005
DIV. OF OIL, GAS & MINING

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 any department or agency of the United States any false, fictitiousor fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Pearl Broadhurst #11
November 4, 2005
Work-Over Procedure:

Comments: 1. There is an open hole section below the packer
2. This is a water injection well; currently injecting 240 bwpd

Objectives: Clean out the well below the packer in order to obtain an injection profile.

1. MIRUSU.
2. ND Tree. NU 3M BOP's. Release packer (Set @ 5235') and TOOH laying down IPC coated tbg.
3. PU WS from WHU inventory and RIH with bit. Attempt to wash. If the drilling is difficult contact Chad Stallard (713-249-4671) immediately. Otherwise, wash to bottom at 5370'.
4. LD WS and PU IPC coated tbg. TIH with tbg and set packer at 5210'.
5. ND BOP's. NU tree.
6. RDMOSU.
7. Return well to injection.
8. Allow to stabilize and then contact engineer to set up injection profile survey.

List of Citation Contacts

Foreman	Robert Eye	Cell:	435.790.4406	Home: 435.781.4147
Lease Operator	Shane White	Cell:	435.621.1441	Home: 435.781.0561
Engineer	Chad Stallard	Cell:	713.249.4671	Office: 281-517-7527

FORM 9

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

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 02651A

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.

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Injection well

8. WELL NAME and NUMBER: USA Pearl Broadhurst #11

2. NAME OF OPERATOR: Citation Oil & Gas Corp.

9. API NUMBER: 4304730840

3. ADDRESS OF OPERATOR: P.O. Box 690688 CITY Houston STATE TX ZIP 77269

PHONE NUMBER: (281) 517-7194

10. FIELD AND POOL, OR WILDCAT: Walker Hollow Green River

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 713' FNL & 1747' FEL

COUNTY: Uintah

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

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
5/1/2006	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: MIT
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

The most recent mechanical integrity test for this well was performed on 5/1/2006. A copy of the EPA MIT form is attached.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

NAME (PLEASE PRINT) Debra Harris TITLE Production Analyst III

SIGNATURE Debra Harris DATE 5/8/2006

(This space for State use only)

RECEIVED
MAY 11 2006
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

Mechanical Integrity Test
Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: N/A Date: 5 / 1 / 06
Test conducted by: Robert Eye Citation Oil & Gas
Others present: Denny Haddlock Big Red Hot oiler

Well Name: Pearl Broadhurst #11 Type: ER (SWD) Status: AC TA UC (Active) waiting on permission
Field: Walker Hollow
Location: NW/~~NW~~ E Sec: 10 T 7 N (S) R 23 (E) W County: Uintah State UT
Operator: Citation Oil & Gas
Last MIT: 6 / 14 / 05 Maximum Allowable Pressure: ~~#~~ 1690 PSIG

Is this a regularly scheduled test? [ ] Yes [X] No
Initial test for permit? [ ] Yes [X] No
Test after well rework? [X] Yes [ ] No
Well injecting during test? [ ] Yes [X] No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: 0 / 400 psig

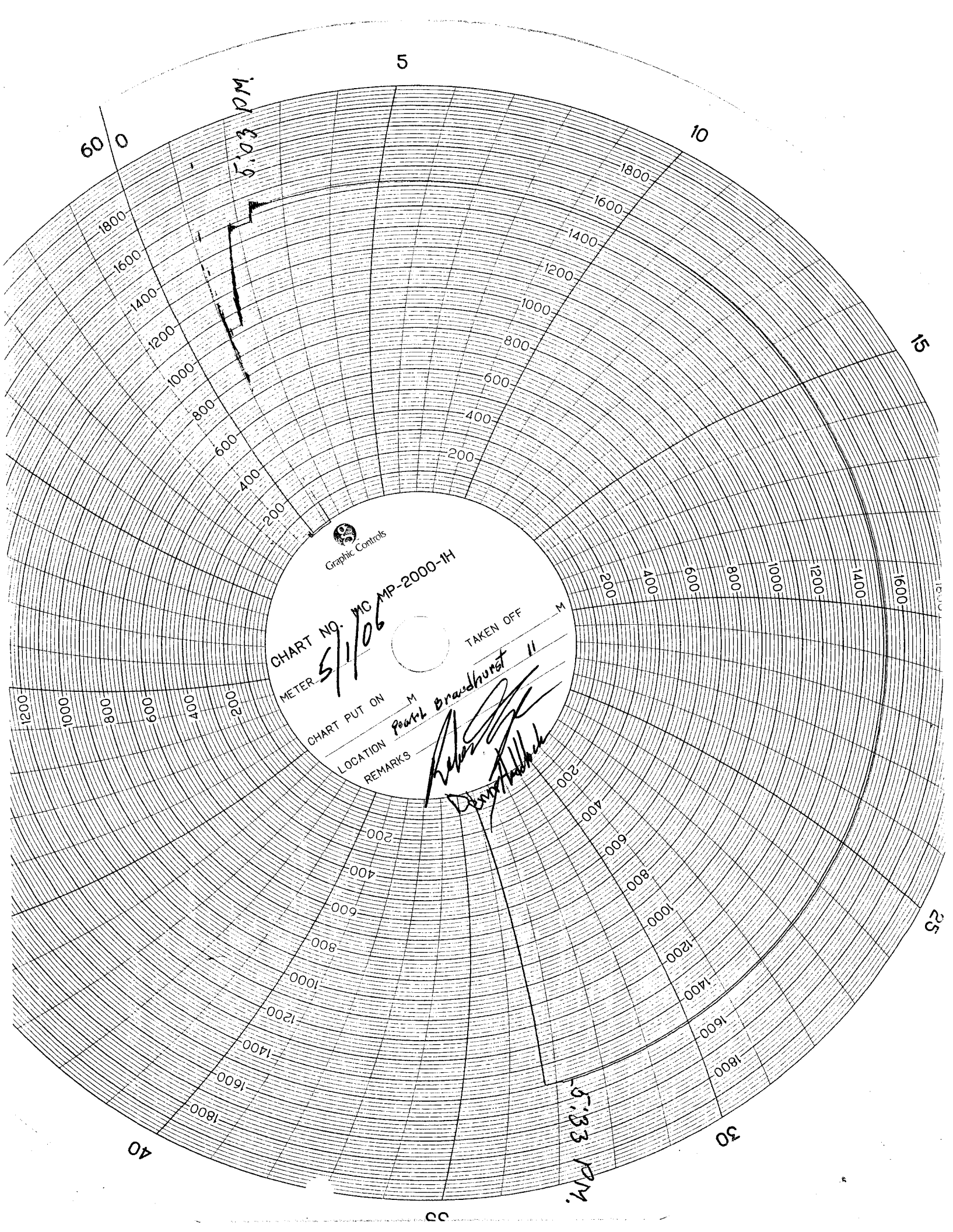
MIT DATA TABLE	Test #1		Test #2		Test #3	
TUBING	*PRESSURE*					
Initial Pressure	400	psig		psig		psig
End of test pressure	400	psig		psig		psig
CASING / TUBING	*ANNULUS*		*PRESSURE*			
0 minutes	1525	psig		psig		psig
5 minutes	1520	psig		psig		psig
10 minutes	1520	psig		psig		psig
15 minutes	1510	psig		psig		psig
20 minutes	1510	psig		psig		psig
25 minutes	1510	psig		psig		psig
30 minutes	1510	psig		psig		psig
_____ minutes		psig		psig		psig
_____ minutes		psig		psig		psig
RESULT	[X] Pass	[ ]Fail	[ ] Pass	[ ]Fail	[ ] Pass	[ ]Fail

Does the annulus pressure build back up after the test ? [ ] Yes [ ] No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Robert Eye Denny Haddlock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REMARKS
5:03 PM.
5:33 PM.

FORM 9

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

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 02651A

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.

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER _____

8. WELL NAME and NUMBER: USA Pearl Broadhurst 11

2. NAME OF OPERATOR: Citation Oil & Gas Corp.

9. API NUMBER: 4304730840

3. ADDRESS OF OPERATOR: P O Box 6906888 CITY Houston STATE TX ZIP 77269

PHONE NUMBER: (281) 517-7800

10. FIELD AND POOL, OR WILDCAT: Walker Hollow

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 713' FNL & 1747' FEL

COUNTY: Uintah

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

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: _____	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☑ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion: _____	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER: _____
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

Citation submits the following procedure to repair suspected hole in tubing, MIT and return to injection upon state and BLM/ EPA approval.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

NAME (PLEASE PRINT) Sharon Ward TITLE Permitting Manager

SIGNATURE Sharon Ward DATE 8/24/2006

(This space for State use only)

AUG 29 2006

(5/2000) (See Instructions on Reverse Side)

PROCEDURE

PEARL BROADHURST #11
WALKER HOLLOW FIELD
UINTAH CO., UTAH
(August 2006)

OBJECTIVE:

REPAIR WELL AND RETURN TO INJECTION.

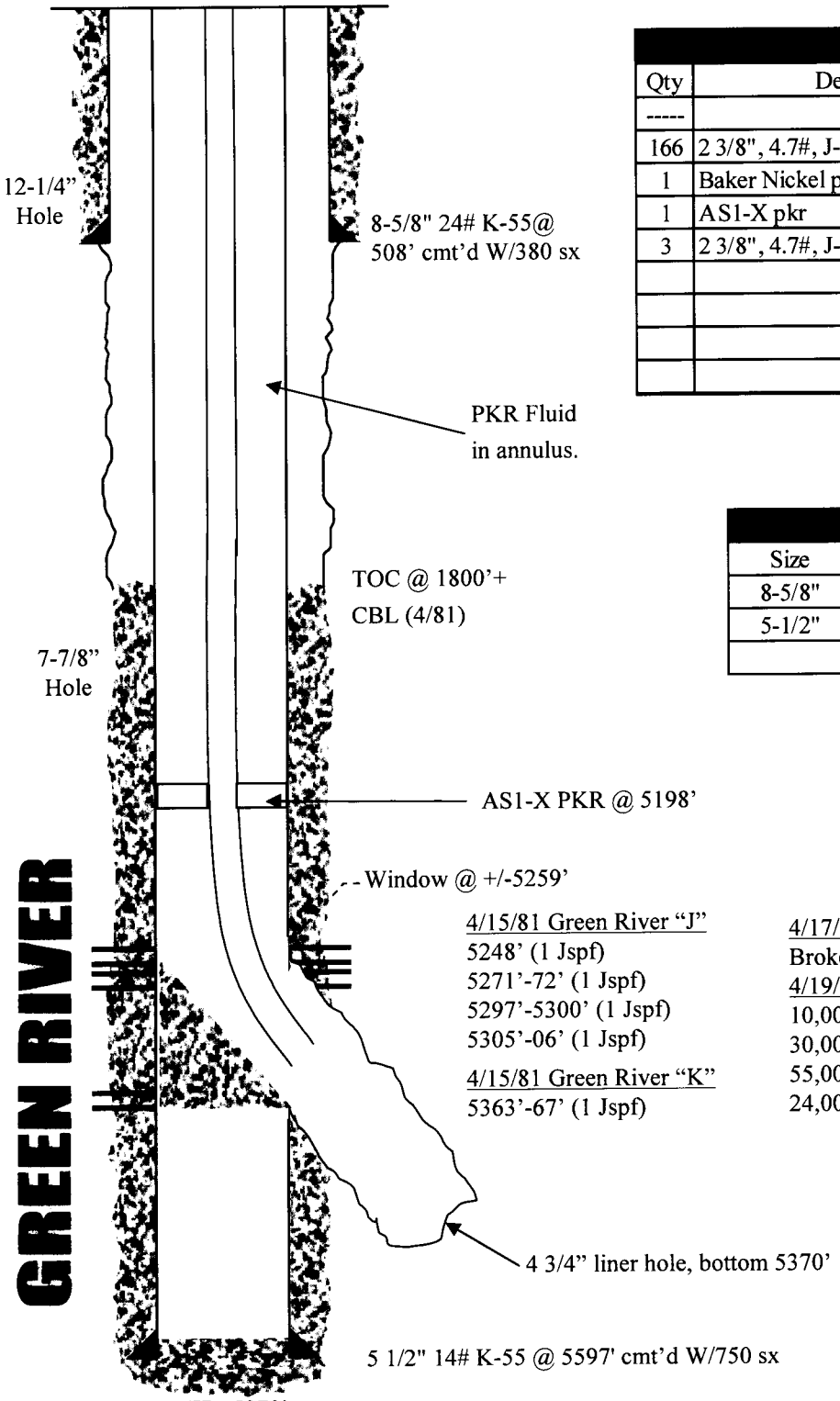
EXISTING CONDITION:
WELL SHUT-IN WITH SUSPECTED HOLE IN TUBING.

PROPOSED PROCEDURE:

1. Notify EPA office 24 hours prior to beginning workover operations.
2. MIRU Service Unit. ND Tree. NU BOPE.
3. PU tubing and release pkr and TOOH to locate tubing leak.
4. LD on off tool and pkr and send in to have redressed.
5. PU 3 jts 2 3/8" IPC tubing, AS1 PKR, on-off toll, and TIH with 165 jts, 2 3/8, 4.7#/ft IPC coated tbg. Circulate while running last 3 jts of tubing.
6. Load annulus with treated pkr fluid and set pkr at 5198'. Test annulus to 1000 psi for 30 minutes.
7. ND BOPs and NU tree.
8. Retest annulus to 1000 psi for 30 minutes. Request EPA representative to witness test.
9. **DO NOT RETURN TO INJECTION BEFORE EPA APPROVAL**
10. RDMO Service Unit

CITATION OIL & GAS CORP.
PROPOSED PEARL BROADHURST #11 INJECTION CONFIGURATION
(NW/NE) Sec. 10-T7S-R23E
UINTAH CO., UTAH

KB: 13 FT
GL: 5191 FT
Status: Shut in-TA



TUBING DETAIL			
Qty	Description	Length	Depth
-----	KB	13	13
166	2 3/8", 4.7#, J-55, 8rd, IPC EUE tbg	5176	5189
1	Baker Nickel plated On/Off Tool	2	5191
1	AS1-X pkr	7	5198
3	2 3/8", 4.7#, J-55, 8rd, IPC EUE tbg	92	5290

CASING DETAIL			
Size	Weight	Grade	Depth
8-5/8"	24	K-55	0'-508'
5-1/2"	14	K-55	0'-5597'

4/17/81 Stimulation:
Broke perfs w/ 1000 gal 7.5% HCL
4/19/81 Frac(both zones):
10,000 gal Super-E pad
30,000 gal Super-E fluid
55,000 # 20-40 sand
24,000 # 10-20 sand

All depths KB unless noted.
Updated: 8-03-06

FORM 9

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

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 02651A

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

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1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Injection well

8. WELL NAME and NUMBER: USA Pearl Broadhurst #11

2. NAME OF OPERATOR: Citation Oil & Gas Corp.

9. API NUMBER: 4304730840

3. ADDRESS OF OPERATOR: P.O. Box 690688 CITY Houston STATE TX ZIP 77269

PHONE NUMBER: (281) 517-7194

10. FIELD AND POOL, OR WILDCAT: Walker Hollow Green River

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 713' FNL & 1747' FEL

COUNTY: Uintah

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

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
10/25/2006	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: MIT
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

A mechanical integrity test was performed on this well 10/23/2006. A copy of the EPA MIT form is attached.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY

NAME (PLEASE PRINT) Debra Harris

TITLE Production Analyst III

SIGNATURE Debra Harris

DATE 10/25/2006

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RECEIVED
OCT 30 2006
DIV. OF OIL, GAS & MINING

(5/2000)

(See Instructions on Reverse Side)

Mechanical Integrity Test
Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: N/A Called Ken Phillips Date: 10 / 23 / 06
Test conducted by: Robert Eye - Citation Oil & Gas
Others present: LeRoy Carmickle Big Red Hot oilers

Well Name: Pearl Broadhurst #11 Type: ER (SWD) Status: AC TA UC Active
Field: Walker Hollow
Location: NW/NE Sec: 10 T 7 N (S) R 23 (E) / W County: Uintah State:
Operator: Citation Oil & Gas
Last MIT: 5 / 1 / 06 Maximum Allowable Pressure: 1690 PSIG

Is this a regularly scheduled test? [ ] Yes [X] No
Initial test for permit? [ ] Yes [X] No
Test after well rework? [X] Yes [ ] No
Well injecting during test? [ ] Yes [X] No If Yes, rate: _____ bpd

moved PKR 6" to get more on compression PKR

Pre-test casing/tubing annulus pressure: 0 / 250 psig

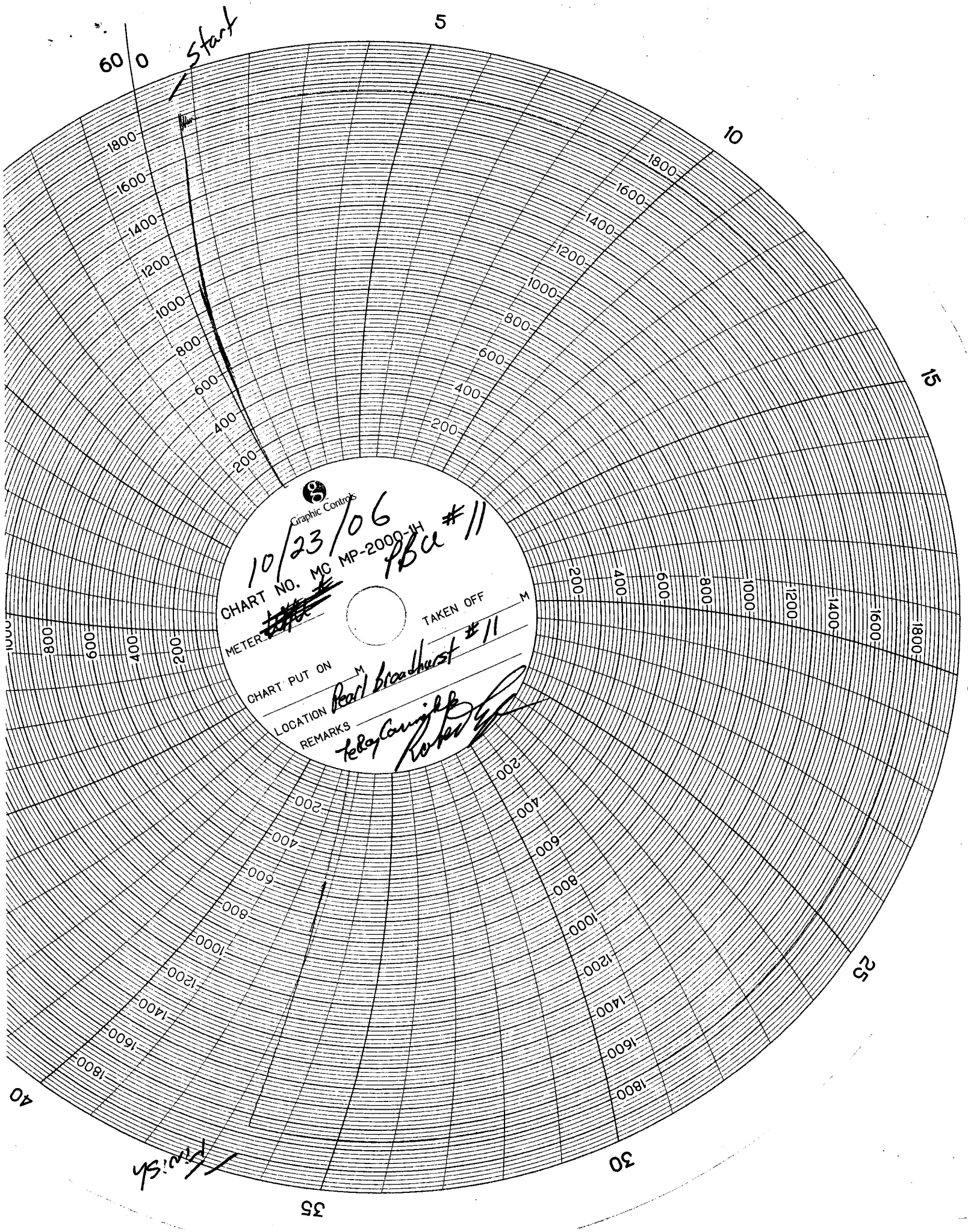
MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING	*PRESSURE*		
Initial Pressure	250 psig	psig	psig
End of test pressure	250 psig	psig	psig
CASING / TUBING	*ANNULUS*	*PRESSURE*	
0 minutes	1760 psig	psig	psig
5 minutes	1760 psig	psig	psig
10 minutes	1760 psig	psig	psig
15 minutes	1760 psig	psig	psig
20 minutes	1760 psig	psig	psig
25 minutes	1760 psig	psig	psig
30 minutes	1760 psig	psig	psig
36 minutes	1760 psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	[X] Pass [ ] Fail	[ ] Pass [ ] Fail	[ ] Pass [ ] Fail

Does the annulus pressure build back up after the test ? [ ] Yes [X] No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: Robert Eye LeRoy Carmickle


Graphic Controls
10/23/06
CHART NO. MC MP-2000-1H
PBU #11
METER
TAKEN OFF
M
CHART PUT ON
M
LOCATION Pearl Broadhurst #11
REMARKS
Start
Finish
0
5
10
15
20
25
30
35
40
60
200
400
600
800
1000
1200
1400
1600
1800

FORM 9

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

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 02651A

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.

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER: USA Pearl Broadhurst 11

2. NAME OF OPERATOR: Citation Oil & Gas Corp.

9. API NUMBER: 4304730840

3. ADDRESS OF OPERATOR: P O Box 6906888 CITY Houston STATE TX ZIP 77269

PHONE NUMBER: (281) 517-7800

10. FIELD AND POOL, OR WILDCAT: Walker Hollow

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 713' FNL & 1747' FEL

COUNTY: Uintah

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

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
Date of work completion: 4/27/2006	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Obtain inj profile
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

On April 22, 2006 Citation MI RU SU ND WH. Released packer. NU BOP. TOOH w/tbg & pkr. Sent pkr & on/off tool to be redressed. PU work string & tbg. RU Power swivel & circulated to 5370'. Displaced well with 120 bbls lease water. TOOH & LD work string & bit. PU AS1-X packer w/ on-off tool and tbg. Circulated hole and started down w/tbg. Set pkr with 11k compression. Top of pkr @ 5189' end of tbg @ 5288'. Casing tested to 1000 psi for 30 minutes. RDMOSU.

NAME (PLEASE PRINT) Sharon Ward TITLE Permitting Manager

SIGNATURE Sharon Ward DATE 4/3/2007

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DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

FORM 9

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

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 02651A

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.

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Injection well

8. WELL NAME and NUMBER: USA Pearl Broadhurst #11

2. NAME OF OPERATOR: Citation Oil & Gas Corp.

9. API NUMBER: 4304730840

3. ADDRESS OF OPERATOR: P.O. Box 690688 CITY Houston STATE TX ZIP 77269

PHONE NUMBER: (281) 517-7194

10. FIELD AND POOL, OR WILDCAT: Walker Hollow Green River

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 713' FNL & 1747' FEL

COUNTY: Uintah

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

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
10/19/2011	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: MIT
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

A mechanical integrity test was performed on this well 10/19/2011. A copy of the EPA MIT form is attached.

Accepted by the
Utah Division of
Oil, Gas and Mining

FOR RECORD ONLY

NAME (PLEASE PRINT) Debra Harris

TITLE Regulatory Compliance Coordinator

SIGNATURE Debra Harris

DATE 10/31/2011

(This space for State use only)

RECEIVED
NOV 04 2011
DIV. OF OIL, GAS & MINING

(5/2000)

(See Instructions on Reverse Side)

Mechanical Integrity Test
Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: N/A Date: 10 / 19 / 11 ✓ NS
Test conducted by: Jeff Oaks - COGC Leroy Carmickle - Big Red UTU 02651A
Others present: 80.08447.2
API: 43-047-30840

Well Name: Pearl Broadhurst #11 Type: ER (SWD) Status: (AC) TA UC Active Inj
Field: Walker Hollow
Location: NW/NE Sec: 10 T 7 N/(S) R 23 (E)/W County: Uintah State: Ut
Operator: Citation Oil + Gas
Last MIT: 10 / 23 / 06 Maximum Allowable Pressure: 1690 PSIG

Is this a regularly scheduled test? [X] Yes [ ] No
Initial test for permit? [ ] Yes [X] No
Test after well rework? [ ] Yes [X] No
Well injecting during test? [X] Yes [ ] No If Yes, rate: 0 bpd

Pre-test casing/tubing annulus pressure: 0 psig

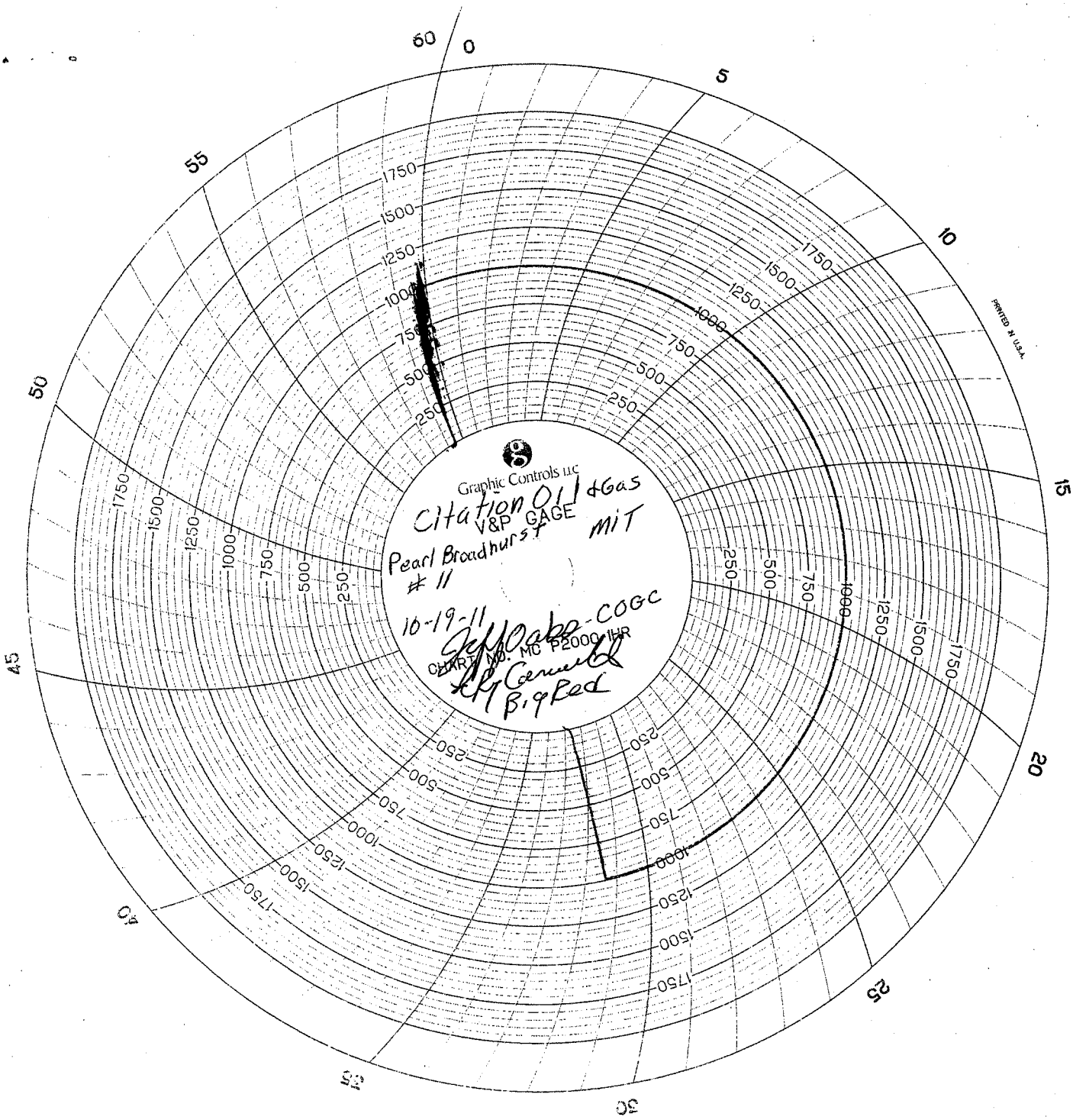
MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING	*PRESSURE*		
Initial Pressure	1380 psig	psig	psig
End of test pressure	1410 psig	psig	psig
CASING / TUBING	*ANNULUS*	*PRESSURE*	
0 minutes	1000 psig	psig	psig
5 minutes	1000 psig	psig	psig
10 minutes	995 psig	psig	psig
15 minutes	995 psig	psig	psig
20 minutes	995 psig	psig	psig
25 minutes	995 psig	psig	psig
30 minutes	995 psig	psig	psig
32 minutes	995 psig	psig	psig
____ minutes	psig	psig	psig
RESULT	[X] Pass [ ] Fail	[ ] Pass [ ] Fail	[ ] Pass [ ] Fail

Does the annulus pressure build back up after the test ? [ ] Yes [X] No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: Jeff Oaks COGC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