



|                    |                 |                |                   |
|--------------------|-----------------|----------------|-------------------|
| QUATERNARY         | Star Point      | Chinle         | Molas             |
| Alluvium           | Wahweap         | Shinarump      | Manning Canyon    |
| Lake beds          | Masuk           | Moenkopi       | Mississippian     |
| Pleistocene        | Colorado        | Sinbad         | Humbug            |
| Lake beds          | Sego            | PERMIAN        | Brazer            |
| TERTIARY           | Buck Tongue     | Kaibab         | Pilot Shale       |
| Pliocene           | Castlegate      | Coconino       | Madison           |
| Salt Lake          | Mancos          | Cutler         | Leadville         |
| Oligocene          | Upper           | Hoskinnini     | Redwall           |
| Norwood            | Middle          | DeChelly       | DEVONIAN          |
| Eocene             | Lower           | White Rim      | Upper             |
| Duchesne River     | Emery           | Organ Rock     | Middle            |
| Uinta              | Blue Gate       | Cedar Mesa     | Lower             |
| Bridger            | Ferron          | Halgait Tongue | Ouray             |
| Green River        | 1769'           | Frontier       | Phosphoria        |
| <b>D.C. Marker</b> | <b>4910'</b>    | Dakota         | Park City         |
| <b>Basal L.S.</b>  | <b>6248'</b>    | Burro Canyon   | Rico (Goodridge)  |
| <b>T.D.</b>        | <b>6400'</b>    | Cedar Mountain | Supai             |
|                    |                 | Buckhorn       | Wolfcamp          |
|                    |                 | JURASSIC       | CARBON I FEROUS   |
| Wasatch            | Morrison        | Pennsylvanian  | SILURIAN          |
| Stone Cabin        | Salt Wash       | Oquirrh        | Laketown Dolomite |
| Colton             | San Rafael Gr.  | Weber          | ORDOVICIAN        |
| Flagstaff          | Summerville     | Morgan         | Eureka Quartzite  |
| North Horn         | Bluff Sandstone | Hermosa        | Pogonip Limestone |
| Almy               | Curtis          |                | CAMBRIAN          |
| Paleocene          | Entrada         | Pardox         | Lynch             |
| Current Creek      | Moab Tongue     | Ismay          | Bowman            |
| North Horn         | Carmel          | Desert Creek   | Tapeats           |
| CRETACEOUS         | Glen Canyon Gr. | Akah           | Ophir             |
| Montana            | Navajo          | Barker Creek   | Tintic            |
| Mesaverde          | Kayenta         |                | PRE - CAMBRIAN    |
| Price River        | Wingate         | Cane Creek     |                   |
| Blackhawk          | TRIASSIC        |                |                   |

NOTICE OF STAKING  
(Not to be used in place of  
Application to Drill Form 9-331-C)

RMOGA  
5/5/82

RECEIVED  
FEB 26 1990

1. Oil Well  Gas Well  Other

DIVISION OF  
OIL, GAS & MINING

2. Name of Operator

PG&E Resources Company

3. Address of Operator or Agent

85 South 200 East, Vernal, UT 84078

4. Surface Location of Well  
(Governmental 1/4 or 1/4 1/4)

SW/SE 614' FSL 1885' FEL

Attach: Topographical or other acceptable map  
showing location, access road, and lease boundaries.

14. Formation Objective(s)

Green River

15. Estimated Well Depth

6500'

5. Lease Number

U-49092

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

8. Farm or Lease Name

Federal

9. Well No.

34-33-B

10. Field or Wildcat Name

Monument Butte

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

Sec. 33, T8S, R16E

12. County or Parish

Duchesne

13. State

Utah

16. To Be Completed by Operator Prior to Onsite

a. Location must staked

b. Access Road Flagged

c. Sketch and/or map of location, showing road, pad dimensions, reserve pit, cuts, and fills  
(To be provided at onsite)

17. To Be Considered By Operators Prior to Onsite

a. H<sub>2</sub>S Potential

b. Private Surface Ownership

c. Cultural Resources (Archaeology)

d. Federal Right of Way

18. Additional Information

19. Signed

R. D. Miller  
R. D. Miller

Title

Production Foreman

Date

2/23/90

Copies: Original & 2 - BLM

1 - ~~Oil, Gas & Mining~~

1 - Stan Goodrich

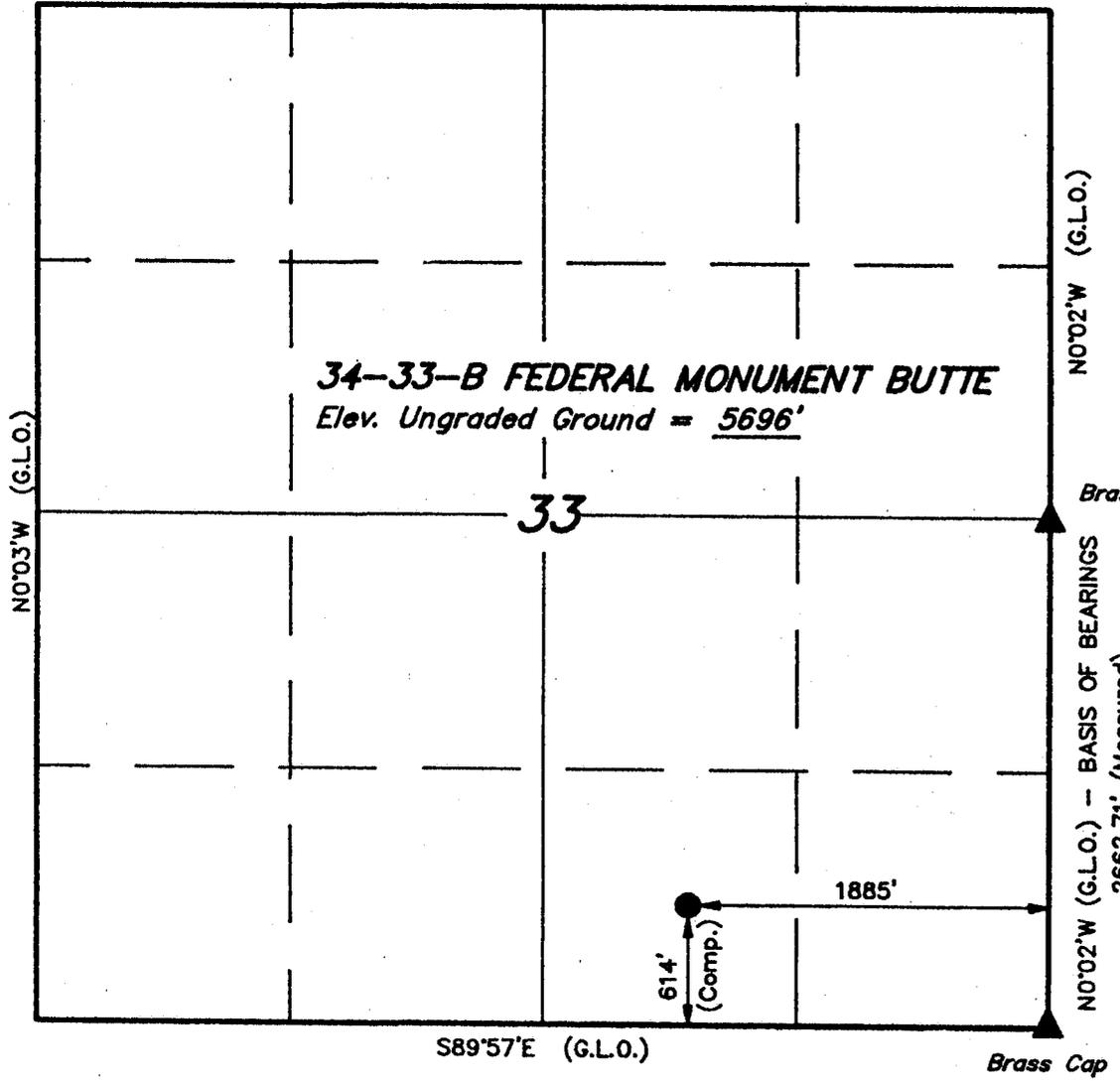
1 - Central Files

**T8S, R16E, S.L.B.&M.**

**PG&E RESOURCES COMPANY**

Well location, 34-33-B FEDERAL MONUMENT BUTTE, located as shown in the SW 1/4 SE 1/4 of section 33, T8S, R16E, S.L.B.&M. Duchesne County, Utah.

S89°58'W 79.96 chs (G.L.O.)



**BASIS OF ELEVATION**

SPOT ELEVATION AT THE SOUTHEAST CORNER OF SECTION 33, T8S, R16E, S.L.B.&M. TAKEN FROM THE MYTON SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5677 FEET.



**CERTIFICATE**

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

*Robert L. Kay*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 5709  
 STATE OF UTAH

REV: 2-23-90 T.D.H.

**UNTAH ENGINEERING & LAND SURVEYING**  
 P. O. BOX 1758 - 85 SOUTH - 200 EAST  
 VERNAL, UTAH - 84078

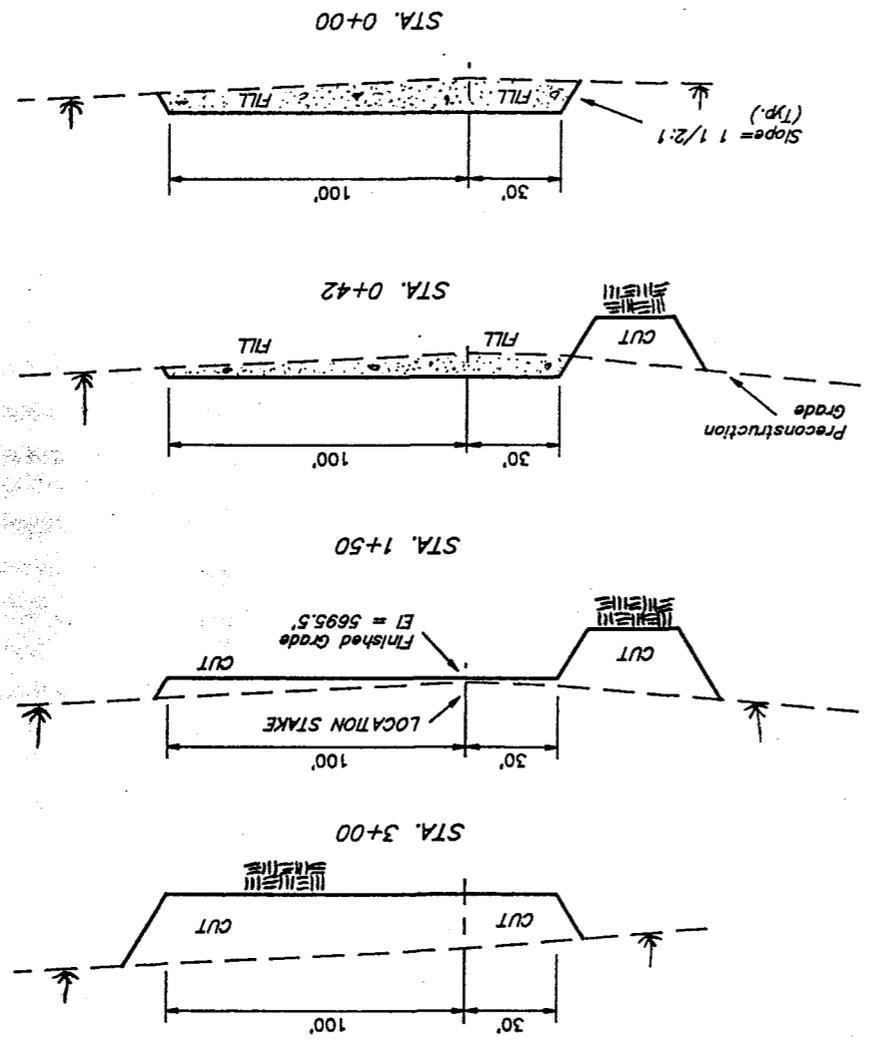
|                             |                            |
|-----------------------------|----------------------------|
| SCALE<br>1" = 1000'         | DATE<br>2-6-90             |
| PARTY<br>D.A. J.T.K. J.T.K. | REFERENCES<br>G.L.O. PLAT  |
| WEATHER<br>COLD - CLEAR     | FILE<br>PG&E RESOURCES CO. |

▲ = SECTION CORNERS LOCATED.

PG&E RESOURCES COMPANY

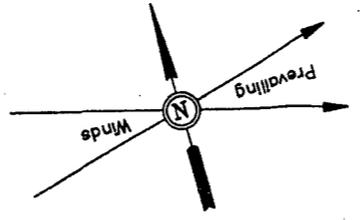
LOCATION LAYOUT FOR  
34-33-B FEDERAL MONUMENT BUTTE

SECTION 33, T8S, R16E, S.L.B.&M.



Elev. Ungraded Ground at Location Stake = 5696.0'  
Elev. Graded Ground at Location Stake = 5695.5'

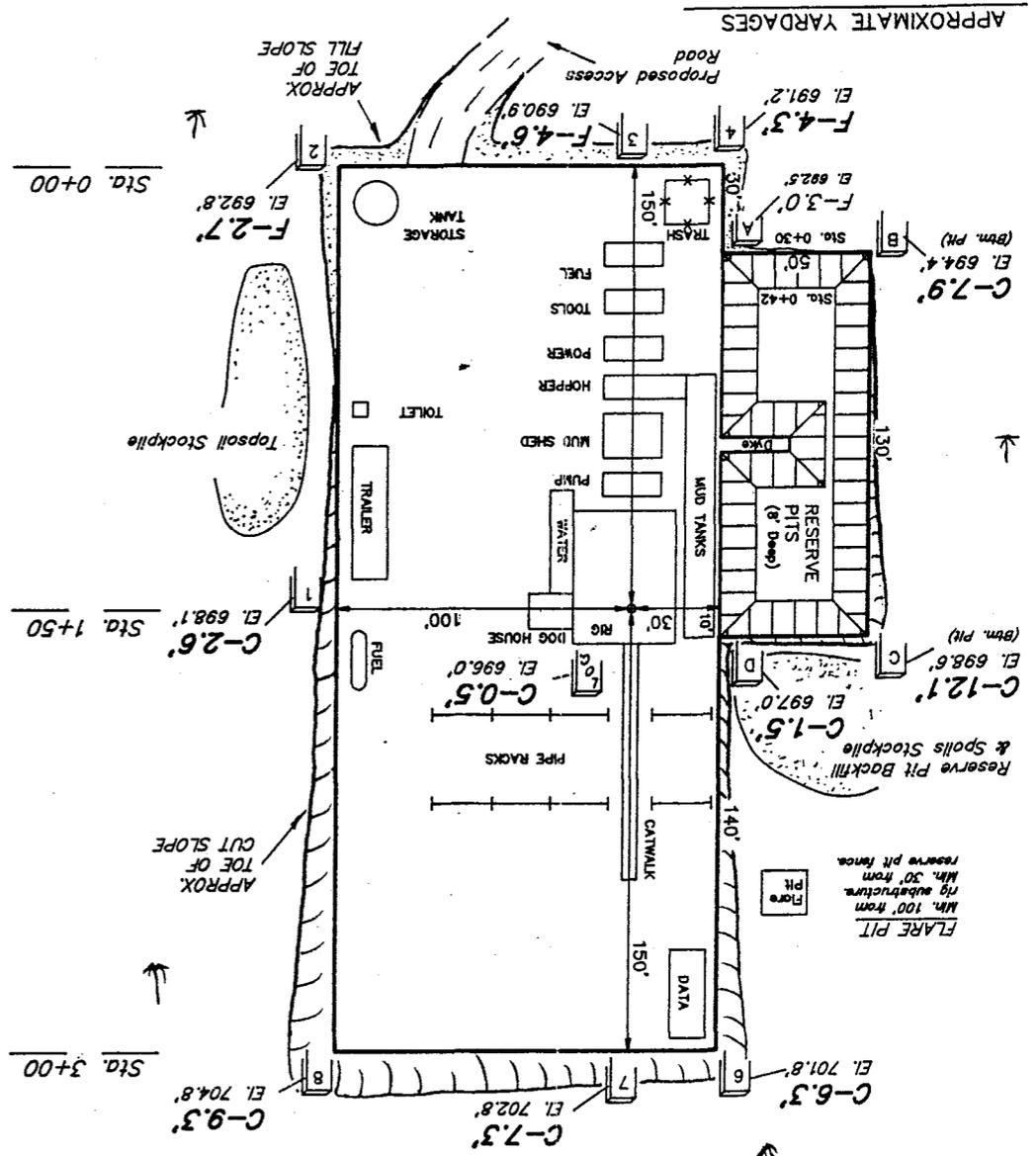
UNTAH ENGINEERING & LAND SURVEYING  
P.O. Box 1768  
Fortral, Utah



SCALE: 1" = 50'  
DATE: 2-23-90 T.D.H.

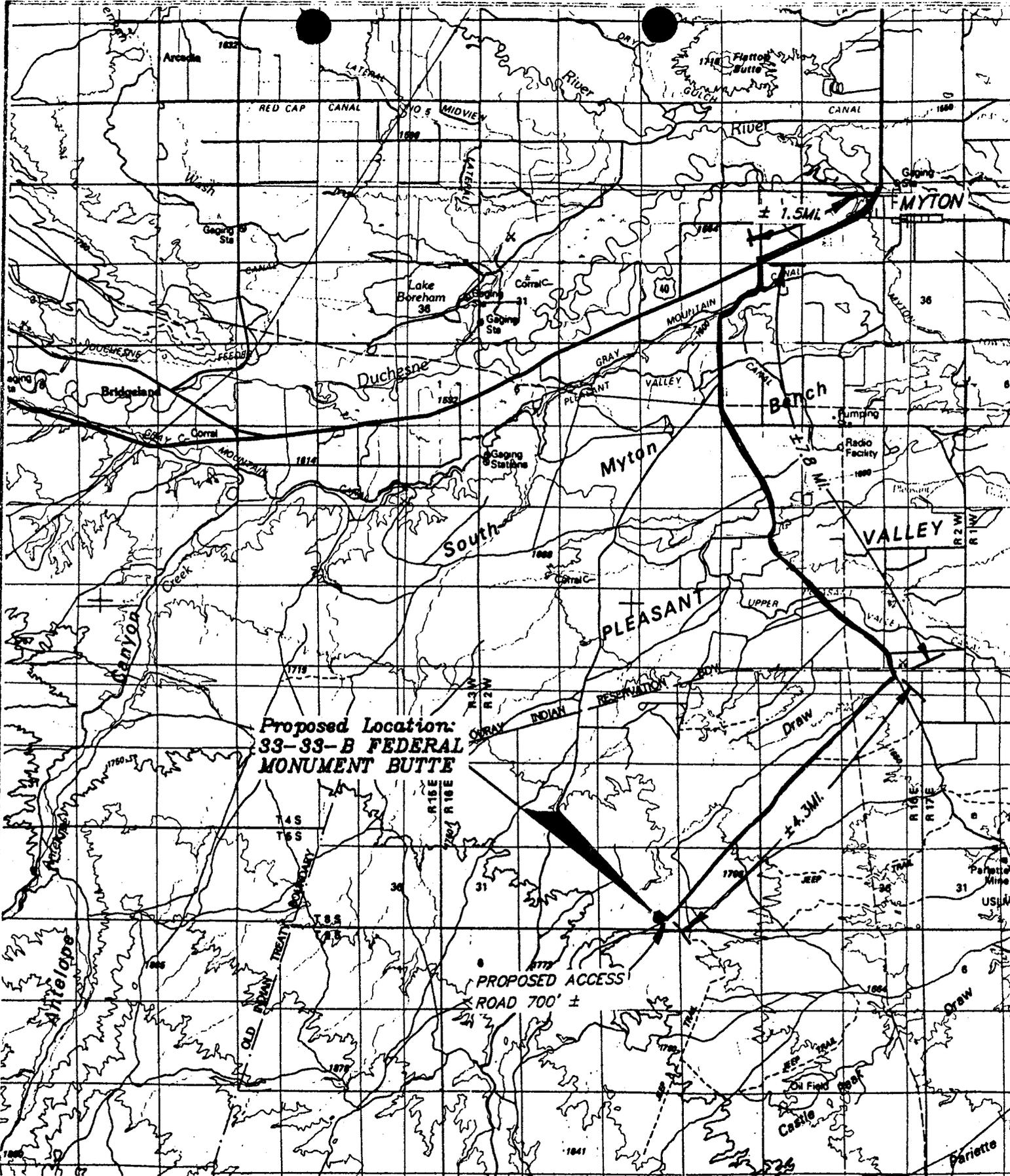
X-Section  
1" = 20'  
1" = 50'

TYPIFY CROSS SECTIONS  
TYPICAL NOTATIONS



CUT (6") Topsoil Stripping = 843 Cu. Yds.  
Pit Volume (Below Grade) = 1,162 Cu. Yds.  
Remaining Location = 3,609 Cu. Yds.  
TOTAL CUT = 5,614 CU.YDS.  
FILL = 1,622 CU.YDS.  
EXCESS MATERIAL AFTER 5% COMPACTION = 3,906 Cu. Yds.  
Topsoil & Pit Backfill = 1,424 Cu. Yds.  
EXCESS UNBALANCE (After Rehabilitation) = 2,482 Cu. Yds.

APPROXIMATE YARDAGES



**Proposed Location:  
33-33-B FEDERAL  
MONUMENT BUTTE**

**PROPOSED ACCESS  
ROAD 700' ±**

**± 1.5 MI.**

**± 4.3 MI.**

**TOPOGRAPHIC  
MAP "A"**

2-7-90



**PG&E RESOURCES COMPANY**  
34-33-B FEDERAL MONUMENT BUTTE  
SECTION 33, T8S, R16E, S.L.B.&M.



March 21, 1990

**RECEIVED**  
MAR 26 1990  
DIVISION OF  
OIL, GAS & MINING



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

RE: Application for Permit to Drill  
34-33-B Federal  
SW/SE, Sec. 33-T8S-R16E  
Lease #U-49092  
Duchesne Co., Utah

Dear Sir,

Attached are two copies of the Application for Permit to Drill for the subject well. Please let me know if additional information is required.

Sincerely,

Michael L. McMican  
Petroleum Engineer

MLM/bb  
Attachments

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK

b. TYPE OF WELL  
 OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
 PG&E Resources Company

3. ADDRESS OF OPERATOR  
 5950 Berkshire Lane, Suite 600, Dallas, Texas

4. LOCATION OF WELL (Report location clearly and in accordance with any State laws or regulations)  
 At surface  
 1,885' FEL, 614' FSL, SW/SE  
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

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

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

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 5,696' GR

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#             | 300'          | To surface         |
| 7 - 7/8"     | 5-1/2"         | 15.5#           | TD            | As required        |

- Attachments:
- Drilling Program
  - Surface Use Plan
  - Survey Plat
  - Cut & Fill Diagram
  - Topo Maps
  - Well Location Map
  - Choke Manifold Diagram
  - Blowout Preventer Diagram

Original & 2 copies: BLM - Vernal District; 2 copies Div. Oil, Gas & Mining - Salt Lake City

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 Michael L. McMican TITLE Petroleum Engineer DATE 3/20/90

(This space for Federal or State office use)

PERMIT NO. 43-013-31269 APPROVAL DATE 3-30-90

APPROVED BY [Signature] TITLE [Signature]

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING  
 DATE: 3-30-90  
 BY: [Signature]  
 WELL SPACING: 15-3-2

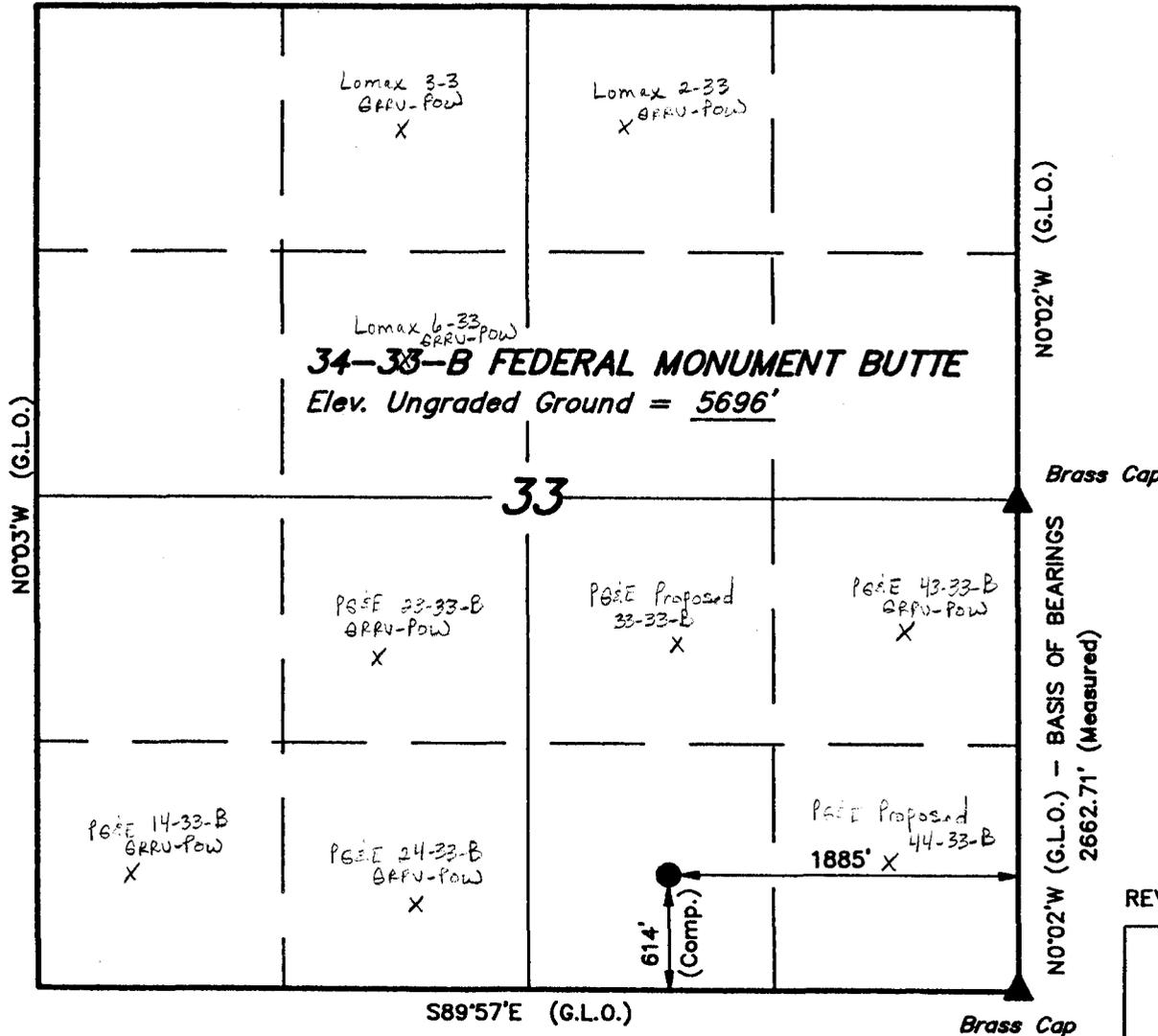
\*See Instructions On Reverse Side

**PG&E RESOURCES COMPANY**

**T8S, R16E, S.L.B.&M.**

Well location, 34-33-B FEDERAL MONUMENT BUTTE, located as shown in the SW 1/4 SE 1/4 of section 33, T8S, R16E, S.L.B.&M. Duchesne County, Utah.

S89°58'W 79.96 chs (G.L.O.)



BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHEAST CORNER OF SECTION 33, T8S, R16E, S.L.B.&M. TAKEN FROM THE MYTON SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5677 FEET.



CERTIFICATE

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

*Robert L Kay*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 5709  
 STATE OF UTAH

REV: 2-23-90 T.D.H.

**UINTAH ENGINEERING & LAND SURVEYING**  
 P. O. BOX 1758 - 85 SOUTH - 200 EAST  
 VERNAL, UTAH - 84078

|                             |                           |
|-----------------------------|---------------------------|
| SCALE<br>1" = 1000'         | DATE<br>2-6-90            |
| PARTY<br>D.A. J.T.K. J.T.K. | REFERENCES<br>G.L.O. PLAT |
| WEATHER<br>COLD CLEAR       | FILE                      |

▲ = SECTION CORNERS LOCATED.

## DRILLING PROGRAM

Company: PG&E Resources Company  
5950 Berkshire Ln Ste 600  
Dallas, Texas 75225  
214-750-3800

Well: 34-33-B Federal  
Sec.33-T8S-R16E  
Duchesne Co., Utah  
Lease No. U-49092

Operations will comply with applicable laws, regulations, and the approved APD. Provisions of Onshore Order No. 2 will be strictly adhered to. PG&E is responsible for the actions of contractors in its hire. A copy of the approved APD will be with field representatives to insure compliance.

### 1. Surface Formation and Estimated Formation Tops

| <u>Formation</u>   | <u>Depth</u> | <u>Subsea</u> |
|--------------------|--------------|---------------|
| Uintah             | Surface      | +5696' GR     |
| Green River        | 1772'        | +3939'        |
| Douglas Creek Mrkr | 4921'        | +790'         |
| TD                 | 6400'        | -689'         |

### 2. Estimated Depths of Oil, Gas, Water, or Mineral Bearing Zones

| <u>Expected Zones</u> | <u>Formation</u> | <u>Interval</u> |
|-----------------------|------------------|-----------------|
| Oil zones             | Green River      | 4200'-6200'     |
| Gas zones             | None             |                 |
| Water zones           | None             |                 |
| Mineral zones         | Oil Shale        | Top @ 1772'     |

### 3. Pressure Control Equipment

2000# WP BOPE installed, used, maintained & tested prior to drilling out surface csg til well completed/abandoned. BOPE suitable for subfreezing conditions if exist. Pressure tests before drilling out csg strings.

BOPE consisting of: annular preventer, double ram w/ blind and pipe rams, kill line 2" min, 1 ck line vlv, 2" ck line, 1 kill line vlv, 2 cks, gauge on ck manifold, upper kelly cock vlv with handle, safety vlv and subs to fit all drill strings, fillup line above top preventer. Ck lines straight unless using tee blocks or targeted w/ running tees and anchored to prevent whip and reduce vibration. Ck manifold functionally equivalent to diagram. All vlvs (except cks) in kill line, ck manifold, ck line full opening for straight through flow. Gauges types for drilling fluids.

Accumulator sufficient capacity to open hydraulic ck line vlv if equipped, close rams & annular preventer, retain a min of 200 psi over precharge on closing manifold w/o use of closing unit pumps. Fluid reservoir capacity double accumulator capacity w/ level maintained to specs. Accumulator precharge test conducted prior to connecting closing unit to BOP stack & every 6 months min. Accumulator pressure corrected if precharge above or below max or min limits (nitrogen gas precharge).

Power for closing unit pumps available all times so pumps auto start when manifold pressure decreases to preset level. BOP closing units w/ no. and sizes of pumps so w/ accumulator system isolated pumps can open hydraulic gate vlv if equipped, close annular preventer on smallest drill pipe in 2 minutes and obtain min 200 psi over precharge.

Hand wheels or auto locking device installed. A vlv installed in closing line close to annular preventer f/ locking device. Vlv will be open, closed only when power source inoperative.

Pressure tests w/ wtr, or clear liquid for subfreezing w/ vis similar to wtr. Rams tested to WP if isolated by test plug, 70% csg burst if not isolated. Pressure maintained 10 minutes or requirements are met. If test plug used, no bleed-off acceptable. W/o test plug, decline in pressure >10% in 30 min considered failure. Vlv on csg head below test plug open during testing. Annular preventers tested 50% WP. Pressure maintained 10 min or requirements of test met. Test at installation, seal subject to test pressure broken, following repairs, and 30-day intervals. Valves tested f/ WP side w/ down stream vlvs open. When testing kill line vlvs check vlv held open or ball removed. Annular preventers operated weekly. Rams activated each trip not > daily. BOPE drills conducted weekly each crew. Tests/drills recorded in log.

Notice will be given with sufficient lead time for the BLM to be on location during BOPE pressure testing.

4. Casing and Cementing Program

| <u>Hole Size</u> | <u>Csg Size</u> | <u>Wt/Ft</u> | <u>Grade</u> | <u>Threads</u> | <u>New/Used</u> | <u>Depth</u> |
|------------------|-----------------|--------------|--------------|----------------|-----------------|--------------|
| 12-1/4"          | 8-5/8"          | 24#          | K55          | ST&C           | New             | 300'         |
| 7-7/8"           | 5-1/2"          | 15.5#        | K55          | LT&C           | New             | TD           |

8-5/8" surface csg cmtd to surface by primary or remedial cmtg. Surface csg will have centralizers every 4th jt f/ shoe jt to bottom of cellar. Top plug & bottom plug or preflush fluid will be used.

Csg strings will be pressure tested to 0.22 psi/ft of string length or 1500 psi, whichever greater, but not >70% of burst. If pressure drop >10% in 30 min, corrective action will be taken.

Notice will be given with sufficient lead time for the BLM to be on location when running casing strings and cementing.

5. Drilling Mud Program

| <u>Interval</u> | <u>Mud Weight<br/>lbs/gal</u> | <u>Viscosity<br/>sec/qt</u> | <u>Fluid Loss<br/>ml/30 min</u> | <u>Mud Type</u> |
|-----------------|-------------------------------|-----------------------------|---------------------------------|-----------------|
| 0-300'          | ---                           | ---                         | ---                             | air             |
| 300'-TD         | 8.4                           | 27                          | no control                      | water           |

Visual mud monitoring will be used to detect volume changes indicating loss/gain of mud volume. A mud test will be performed every 24 hrs.

Testing, Coring, Logging and Sampling

- a. Testing: None
- b. Coring: None
- d. Logging: Two man mudlogging unit 3500' - TD  
DLL/MSFL/SP/GR 2" & 5" TD - surface casing  
CDL/DSN/GR/CAL 2" & 5" TD - surface casing
- c. Sampling: 10' intervals 3500' - TD

7. Abnormal Conditions, Bottom Hole Pressures and Potential Hazards

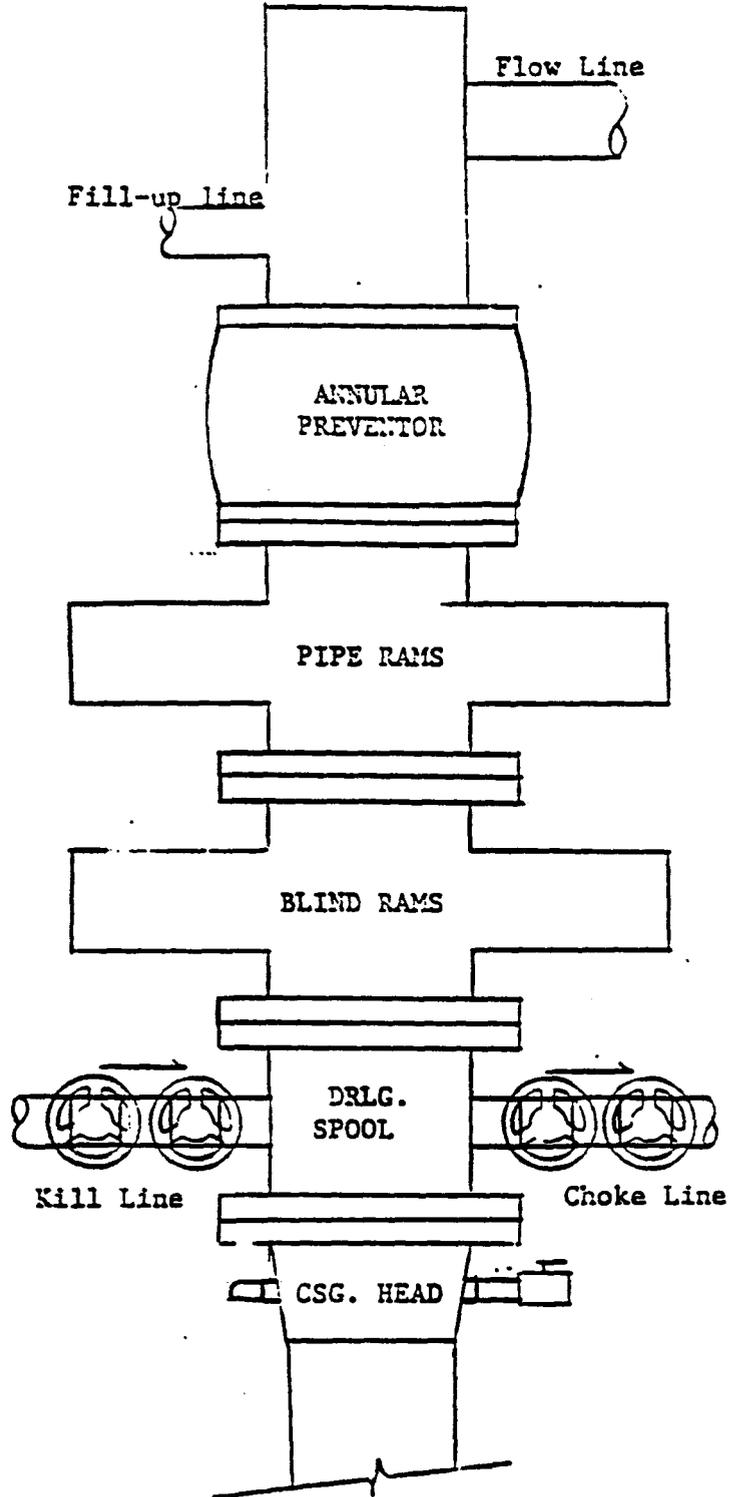
Normal pressures and temperatures are expected. No hazardous gases are expected. Anticipated pore pressure is 2475 psi with a frac gradient of about 0.75. Expected mud hydrostatic pressure is 2850 psi.

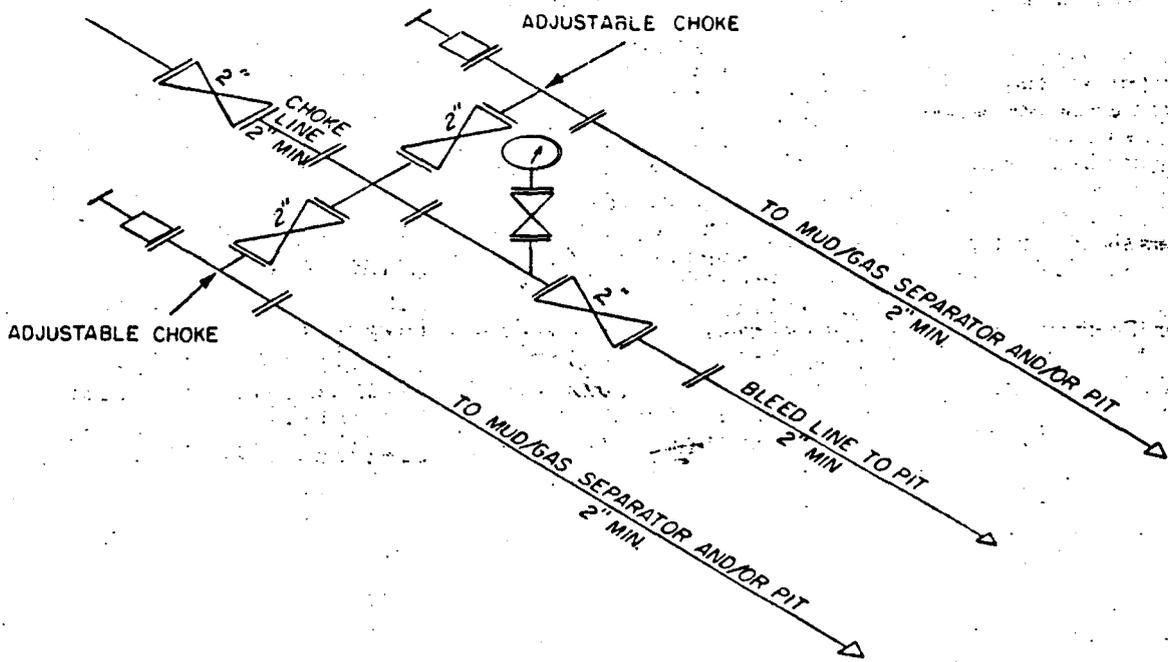
8. Anticipated Starting Dates and Duration of Operations

Location construction is scheduled for April, 1990 with drilling begun promptly afterward. Drilling should take about 7-9 days. Completion operations will begin shortly thereafter and should last about two weeks. Production equipment installation and hookup will follow completion and the well should be on production within 90 days of spud.

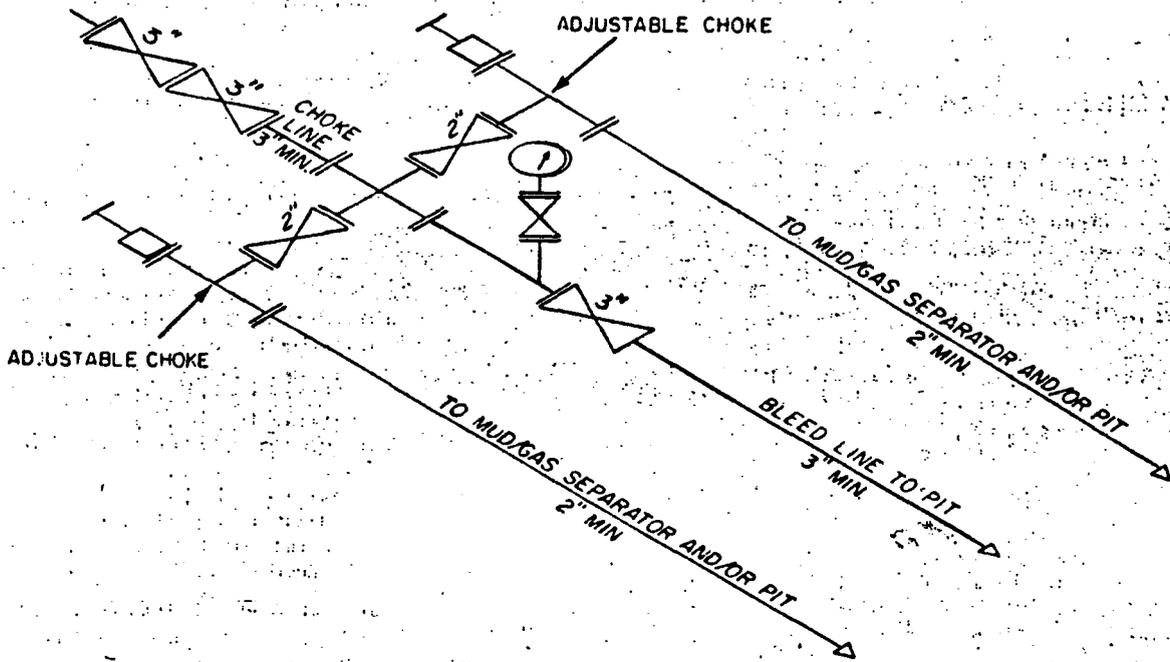
PG&E Resources Company

Blowout Preventer Diagram





2M CHOKE MANIFOLD EQUIPMENT — CONFIGURATION MAY VARY



3M CHOKE MANIFOLD EQUIPMENT — CONFIGURATION MAY VARY

## Surface Use Plan

Company: PG&E Resources Company  
5950 Berkshire Ln Ste 600  
Dallas, Texas 75225  
214-750-3800

Well: 34-33-B Federal  
Sec.33-T8S-R16E  
Duchesne Co., Utah  
Lease No. U-49092

The BLM will be notified 24-48 hrs in advance so that site construction may be monitored. Notification will be given to Ralph Brown or Tim O'Brien in Wernal, Utah at 801-789-1362.

### 1. Existing Roads

To reach the 34-33-B Federal travel SW from Myton, Utah on Hwy 40 1.5 miles then south on Pleasant Valley Road 7.8 miles to the BLM cattleguard then right 4.3 miles then right 0.13 miles to location (map attached).

### 2. Planned Access Road

The access road will be constructed as follows (map attached):

- A. Length: 700 feet.
- B. Width: 30 foot right-of-way, 18 foot travelway.
- C. Maximum grade: 6 %.
- D. Turnouts: None.
- E. Drainage design: crowned, borrow ditches.
- F. Culverts, bridges, major cuts/fills: None.
- G. Surfacing materials and source: Native - location & access road.
- H. Gates, cattleguards, fence cuts: None.
- I. Access road surface ownership: BLM.

### 3. Location of Existing Wells - See attached map.

### 4. Location of Tanks and Production Equipment

Prior to installation of production facilities, facility plans will be approved by Sundry. Facilities will be on the cut portion of location. All above ground permanent structures remaining more than 6 months will be painted Desert Tan (10YR6/3) within 6 months of installation except for facilities complying with OSHA regulations.

The tank battery will be surrounded by a dike sufficient to contain at least the contents of the largest tank in the battery. The tank battery will be on the south side of the location.

### 5. Location and Type of Water Supply

Water to be used for drilling this well will be hauled by truck from Pleasant Valley. If this source is not used, arrangements will be made with proper authorization for an alternate source. PG&E will be responsible for acquiring the necessary water permit.

6. Source of Construction Material

All construction materials for the location and access road will be borrow materials accumulated during construction of the well site. If fill materials are needed, permits will be obtained from the BLM or materials acquired from a commercial source.

7. Methods of Handling Waste Disposal

Sewage disposal will be comply with State and Local regs. Trash will be contained in a trash cage and emptied in an approved landfill at end of drilling activities. Burning will not be allowed.

A reserve pit will be constructed as shown on the pad diagram and may be lined, as determined by PG&E or the BLM at construction, with a nylon reinforced liner (min 10 mil) and bedded with straw to avoid puncture. The liner will be torn and perforated before backfilling. The bottom of the reserve pit will not be in fill material.

Produced waste water will be confined to the reserve pit not more than 90 days after first production. During this period an application for a permanent disposal method and location, along with a water analysis if required, will be submitted for approval.

8. Ancillary Facilities - Camp facilities or airstrips will not be required.

9. Well Site Layout

The reserve pit will not be allowed to drain or leak or be on a natural drainage. Waste or discharge will not be allowed in any drainage. Any hydrocarbons on the pit will be removed as soon as possible after drilling and liquids allowed to evaporate before backfilling.

The reserve pit will be on the east side, stockpiled topsoil on the NW side between pts 1 & 2, access from the north between 2 & 3.

The reserve pit will be fenced on three sides during drilling and fourth side fenced when the rig moves off. All pits fenced as follows: 39" net wire <2" above ground w/ 1 strand barbed wire 3" above top of net wire, total fence height 42" or more, corner posts cemented or braced to keep fence tight, standard steel posts between corner braces no more than 16' apart, all wire stretched before attached to corner posts.

10. Plans for Restoration of the Surface

Immediately after drilling, the area will be cleared of debris, materials, trash, junk and equipment not required for production.

The reserve pit will be completely dry and trash removed before restoration takes place. The reserve pit and portion of the location not needed for production will be reclaimed. The reserve pit will be reclaimed within 90 days of well completion.

Disturbed areas will be recontoured to the approximate natural contours. Stockpiled topsoil will be distributed evenly over the disturbed areas. Prior to reseeding, all disturbed areas will be scarified to a rough surface. Seed will be broadcast or drilled between September 15 and when the ground freezes. If broadcast, an implement will be dragged over the seeded area to assure seed coverage and the seed mixture doubled. The seed mixture will be determined by the BLM in the APD or at the time of restoration. If seeding is unsuccessful, PG&E will make reseedings.

11. Surface Ownership

The surface for all roads and the well location is under the jurisdiction of the Department of the Interior, Bureau of Land Management.

12. Other Information

PG&E is responsible for informing all persons associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites or collecting artifacts. If historic or archaeological materials are uncovered during construction, PG&E will immediately stop work that might further disturb such materials, and contact the BLM.

Use of pesticides, herbicides or other hazardous chemicals will be approved for use prior to application.

Flare pit will be located a minimum of 30' from the reserve pit fence and 100' from the wellbore on the downwind side of the location between points 6 & D. Fluids will be removed within 48 hrs of occurrence.

A silt catchment basin will be constructed where flagged and to BLM specs near the north end of the location if stated as a requirement in the conditions of approval for the APD.

The BLM will be notified upon site completion before moving in the drilling rig.

Drilling rigs/equip will not be stacked on BLM lands w/o BLM approval.

13. Lessee or Operator Representative and Certification

Name: Michael L. McMican  
Title: Petroleum Engineer  
Address: PG&E Resources Company  
5950 Berkshire Lane, Suite 600  
Dallas, Texas 75225  
Phone: 214-750-3800

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by PG&E Resources Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

3-20-90  
Date

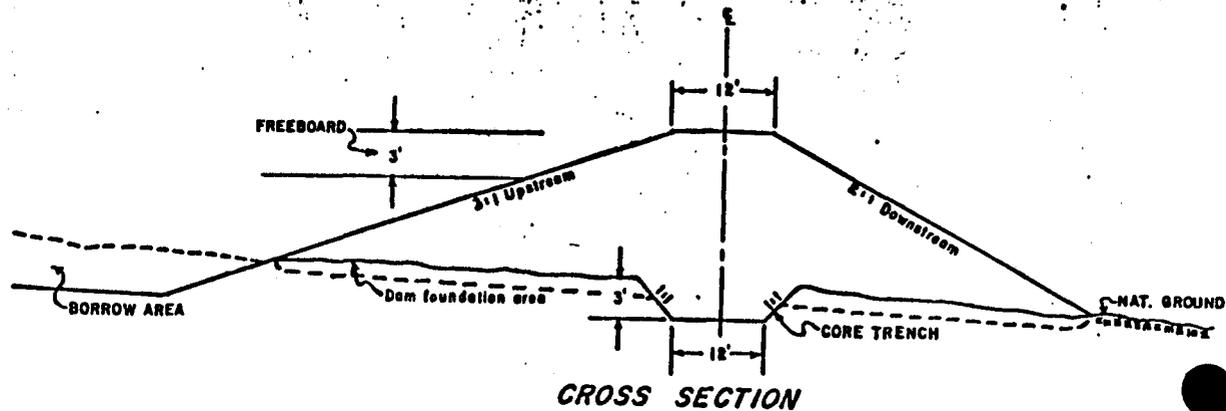
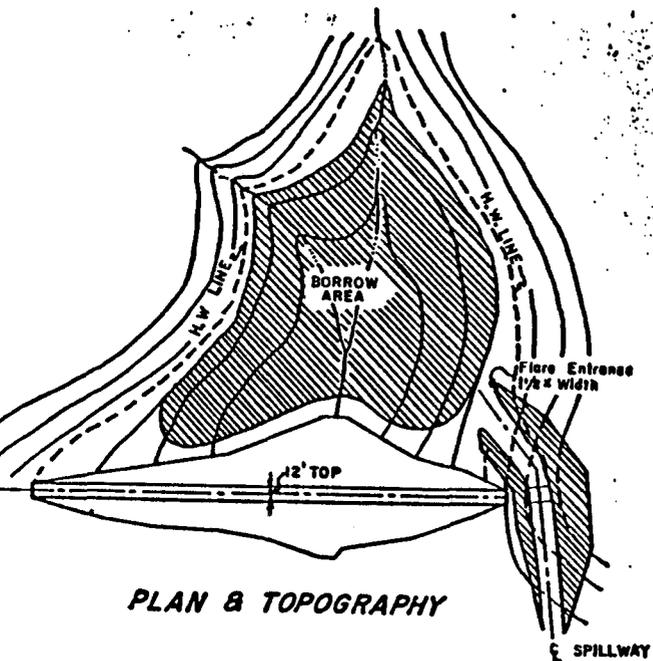
Mike McMican  
Michael L. McMican  
Petroleum Engineer

Onsite Date: 3-12-90  
Participants on Joint Inspection:  
C.M. Heddleson - PG&E  
Ralph Brown - BLM

Self-certification Statement

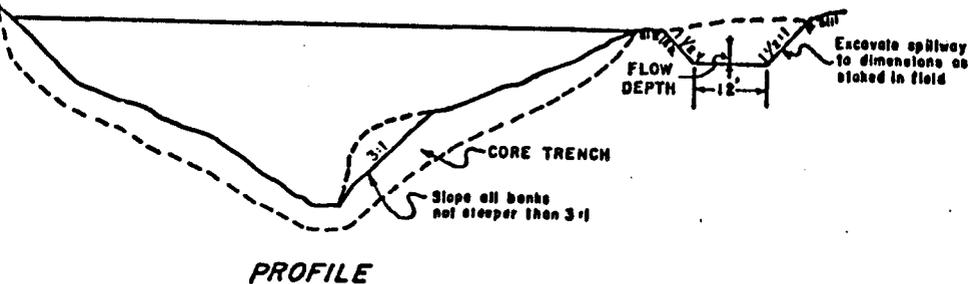
Under the Federal regulations in effect as of June 15, 1988, designation of operator forms are no longer required when the operator is not 100% record title holder. Operators are now required to submit this self-certification statement to the appropriate Bureau office.

Please be advised that PG&E Resources Company is considered to be the operator of well 34-33-B Federal located SW 1/4 SE 1/4 Sec. 33, T8S, R16E, lease #U-49092, in Duchesne County, Utah, and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage provided by Pacific Indemnity, bond ID # 8101-04-97.



**MINIMUM STANDARDS FOR DAMS  
IMPOUNDING UNDER 10 AC. FT.**

1. BLM PERSONNEL MUST APPROVE SITE LOCATION, FILL MATERIAL, FOUNDATION MATERIAL, SPILLWAY SIZE AND LOCATION.
2. DAM LAYOUT & LOCATION MUST BE WITH SURVEYING INSTRUMENTS BY QUALIFIED SURVEYOR,
3. MAX. WATER DEPTH AGAINST THE DAM WILL BE 10' WHEN CONSTRUCTED WITH A CRAWLER TRACTOR.
4. SOIL WILL BE PLACED IN NOT MORE THAN 6" LIFTS AND EACH LIFT COMPACTED WITH A CRAWLER TRACTOR.
5. SPILLWAY MUST BE THROUGH NATURAL MATERIAL.
6. A CORE TRENCH WILL BE CONSTRUCTED 3' DEEP OR TO BED ROCK.
7. BORROW MATERIAL WILL BE TAKEN FROM WITHIN THE RESERVOIR BASIN BELOW THE HIGH WATER MARK WHENEVER POSSIBLE.



|   |                                      |
|---|--------------------------------------|
| U. S. DEPARTMENT OF THE INTERIOR<br>BUREAU OF LAND MANAGEMENT |                                      |
| <b>RETENTION DAM<br/>TYPICAL PLAN &amp; SECTION</b>           |                                      |
| DESIGNED _____  | RECOMM. _____                        |
| DRAWN _____   | RECOMM. _____<br>CHIEF, DIV. OF ENG. |
| CHECKED _____   | APPROVED _____                       |
| SCALE NOT TO SCALE  |                                      |
| DATE _____  | SHEET 1 OF 1                         |
| DRAWING NO. _____   |                                      |

Stipulation Frc #12 Page #

**ALWAYS THINK SAFETY** BLM OPO 828-178

MINIMUM STANDARDS FOR DAMS  
IMPOUNDING UNDER 10 AC. FT.

I. Site Location and Design

- A. Authorized BLM personnel must approve site location, fill material, foundation material, spillway size and location.
- B. Dam layout and location shall be with surveying instruments by qualified personnel.

II. Borrow Areas

- A. Borrow material shall be taken from within the reservoir basin below the high water line whenever possible.
- B. Vegetation, debris, and topsoil shall be removed to a depth of 12" below natural ground line and deposited as directed.
- C. Vegetation, debris, and topsoil shall be stockpiled to be used as cover for borrow areas above the high water line as directed.
- D. Vegetation, debris and topsoil moved below the dam shall be contoured, smoothed and blended into natural ground lines away from fill areas and outside the wash bottom.
- E. Borrow areas shall be smoothed, contoured and blended into natural ground lines.

III. Core Trench and Dam Foundation

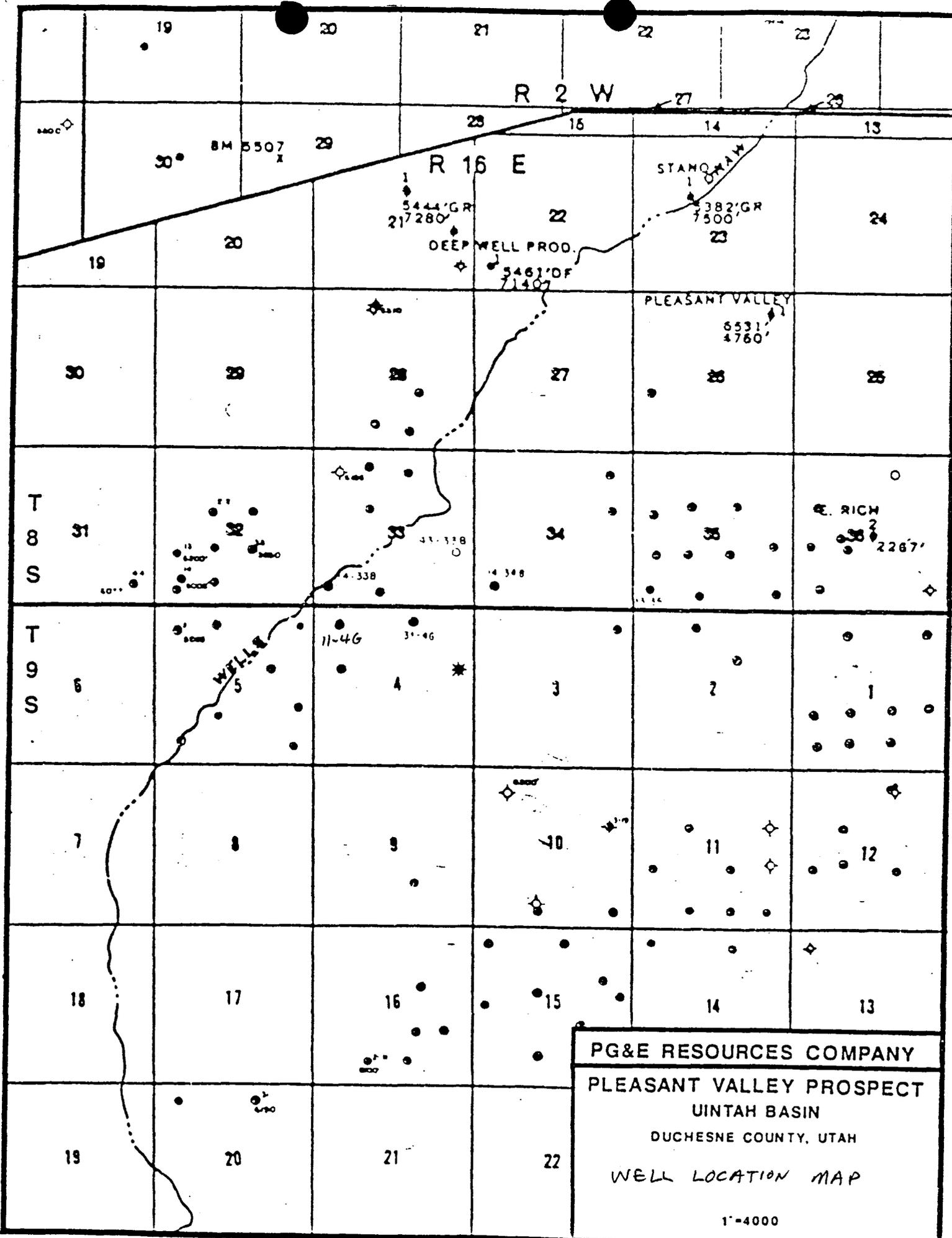
- A. A core trench shall be constructed 12' wide along the full length of the dam center line to a minimum depth of 3' or bedrock.
- B. Sides of the core trench shall not be steeper than 1:1 slopes.
- C. Soft or unstable material encountered in the core trench or dam foundation shall be removed and will not be used as fill.

IV. Dam and Core Fill

- A. Fill shall be homogeneous material, preferably of highly impervious, compactable soils (such as high clay content soils free of organic material, sand or rock).
- B. Lifts of fill shall not exceed 6" when compacted.
- C. Fill shall be built up at a consistent rate the full length of the dam.
- D. Lifts shall be compacted by at least one pass of the crawler tractor over the entire width of the lift.
- E. Fill shall be smoothed, maintaining specified slopes.

V. Spillway

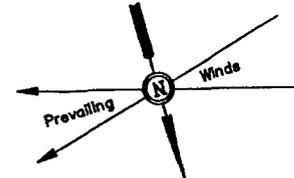
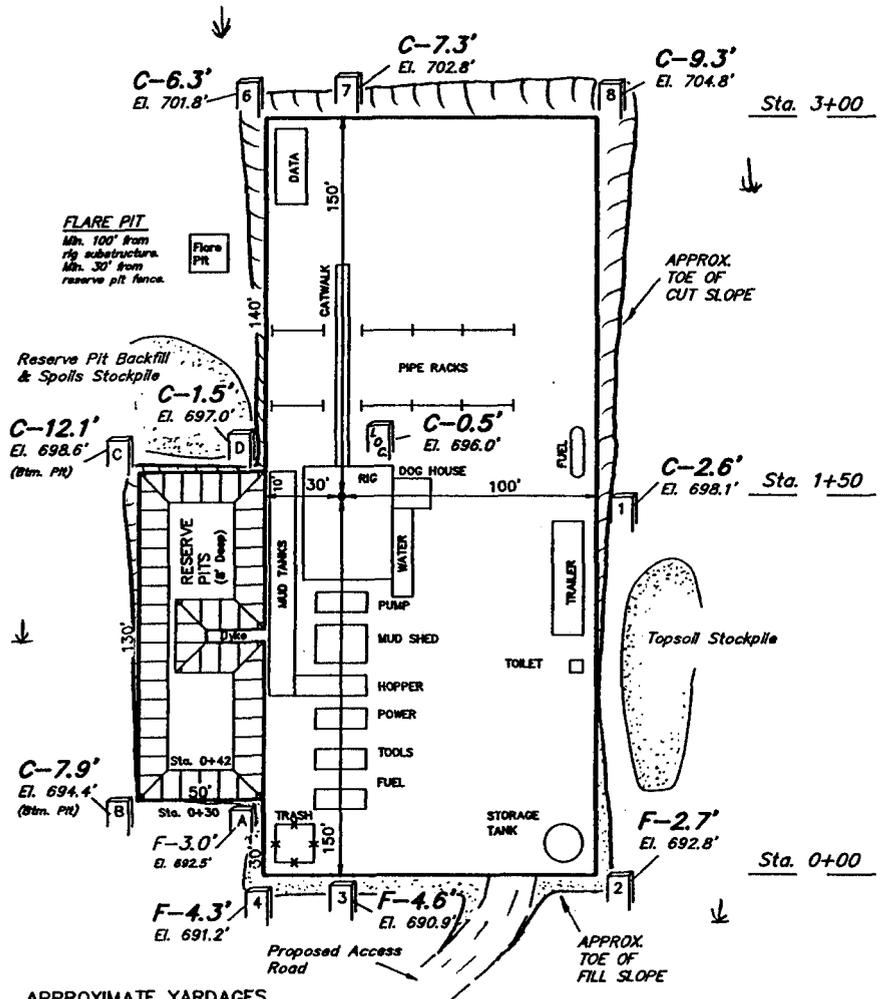
- A. Spillway shall be constructed through natural material.
- B. Spillway shall be constructed to divert overflow away from fill areas or natural material that is an integral part of the dam.
- C. Incorporate in-place rock or hauled-in rock in spillway and at discharge point below spillway to prevent "down cutting" and "blowout" holes, when possible.



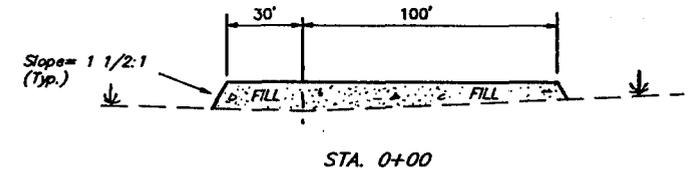
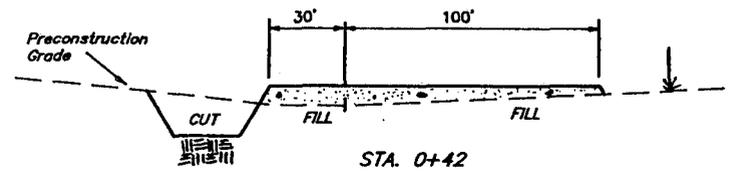
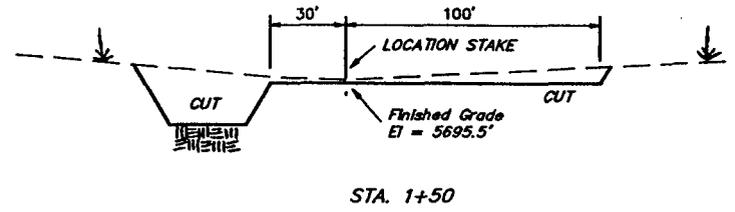
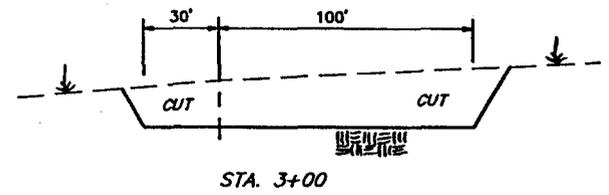
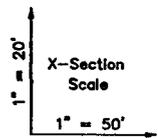
PG&E RESOURCES COMPANY  
 PLEASANT VALLEY PROSPECT  
 UINTAH BASIN  
 DUCHESNE COUNTY, UTAH  
 WELL LOCATION MAP

1"=4000

PG&E RESOURCES COMPANY  
 LOCATION LAYOUT FOR  
 34-33-B FEDERAL MONUMENT BUTTE  
 SECTION 33, T8S, R16E, S.L.B.&M.



SCALE: 1" = 50'  
 DATE: 2-23-90 T.D.H.



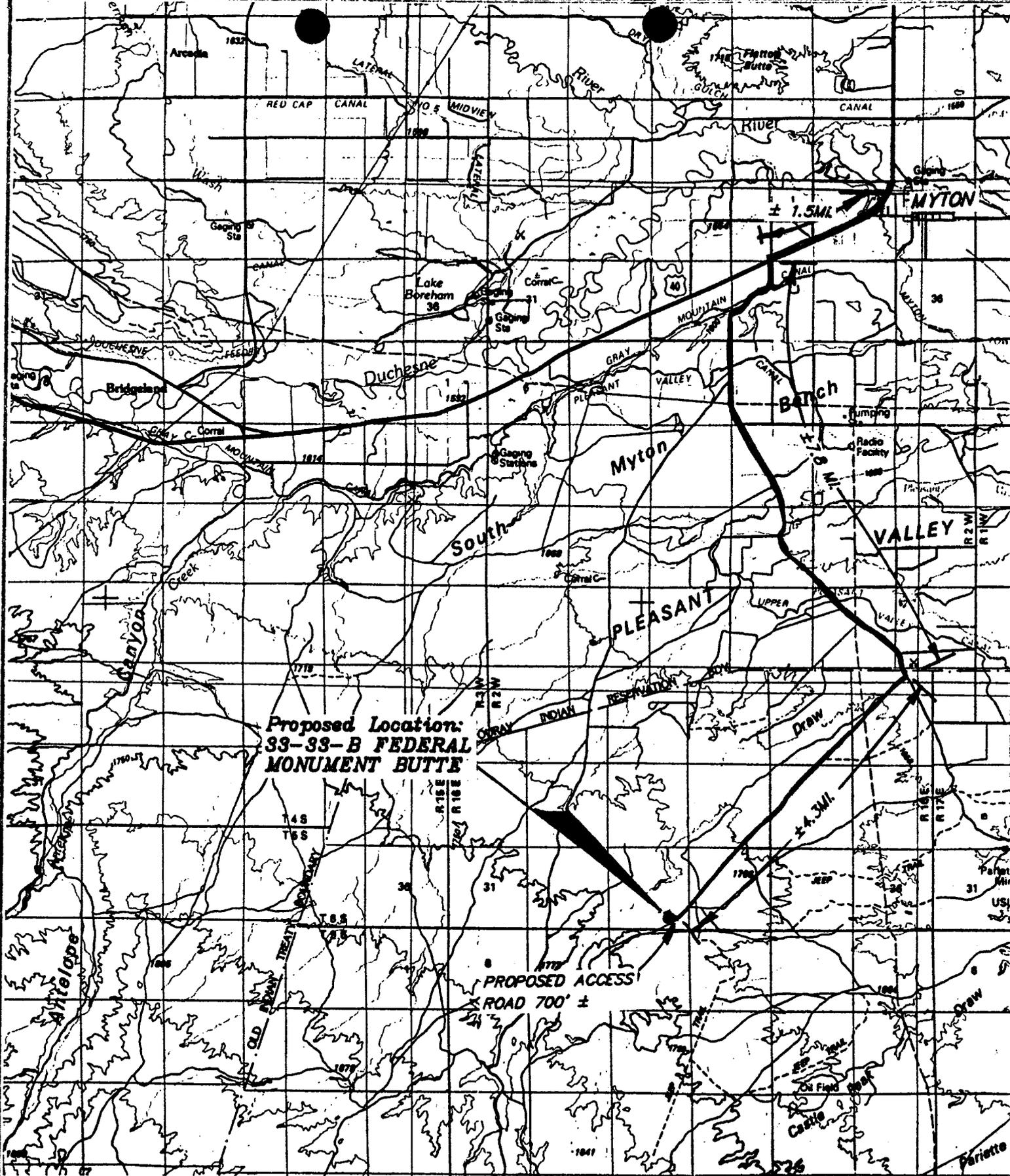
TYP. CROSS SECTIONS  
 TYP. LOCATION LAYOUT

APPROXIMATE YARDAGES

|                          |                        |                        |                  |
|--------------------------|------------------------|------------------------|------------------|
| CUT                      |                        | EXCESS MATERIAL AFTER  |                  |
| (6") Topsoil Stripping   | = 843 Cu. Yds.         | 5% COMPACTION          | = 3,906 Cu. Yds. |
| Pit Volume (Below Grade) | = 1,162 Cu. Yds.       | Topsoil & Pit Backfill | = 1,424 Cu. Yds. |
| Remaining Location       | = 3,609 Cu. Yds.       | (1/2 Pit Vol.)         |                  |
| <b>TOTAL CUT</b>         | <b>= 5,614 CU.YDS.</b> | EXCESS UNBALANCE       | = 2,482 Cu. Yds. |
| <b>FILL</b>              | <b>= 1,622 CU.YDS.</b> | (After Rehabilitation) |                  |

Elev. Ungraded Ground at Location Stake = 5696.0'

Elev. Graded Ground at Location Stake = 5695.5'



**Proposed Location:  
33-33-B FEDERAL  
MONUMENT BUTTE**

**PROPOSED ACCESS  
ROAD 700' ±**

**± 4.3 MI.**

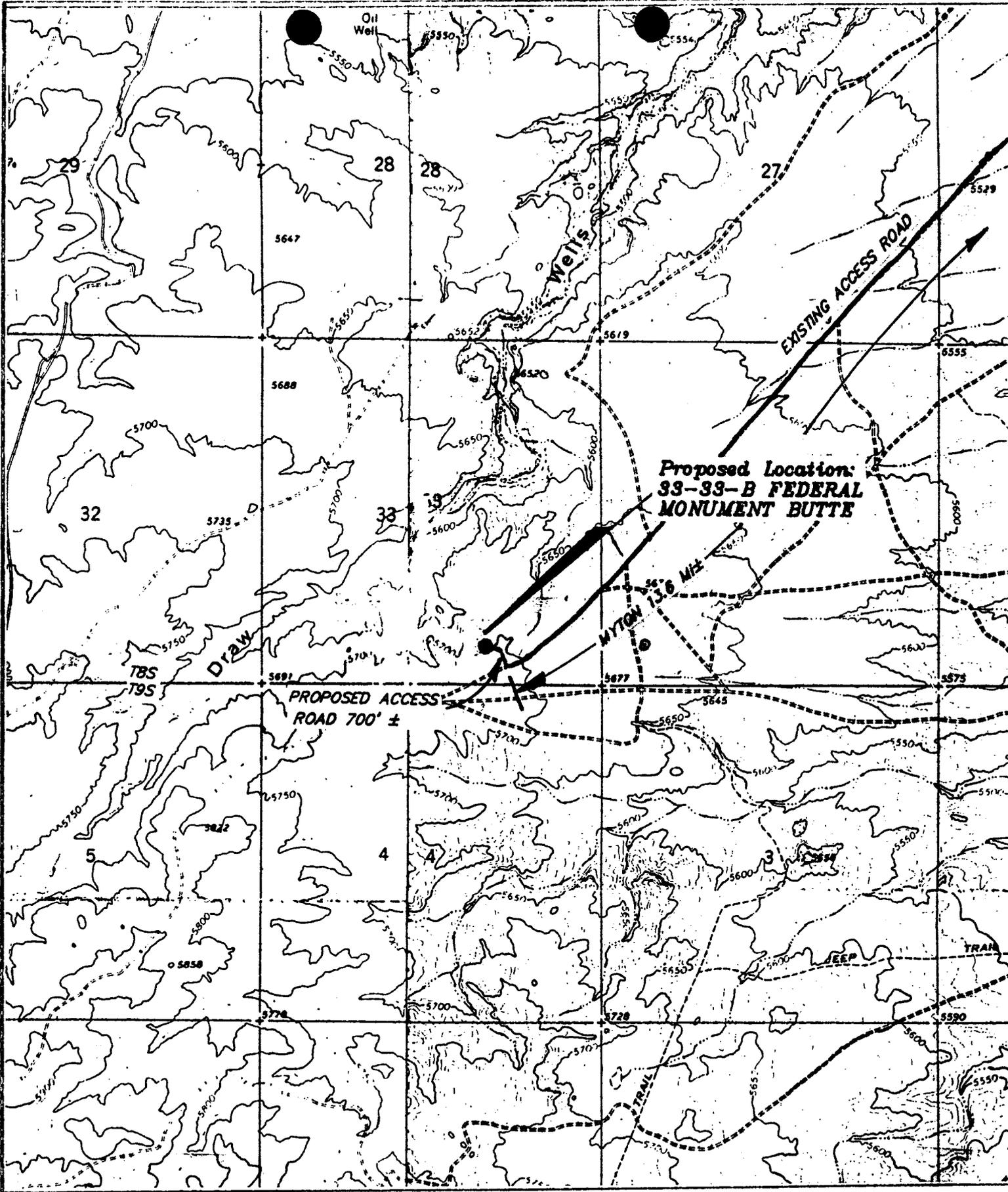
**TOPOGRAPHIC  
MAP "A"**

2-7-90



**PG&E RESOURCES COMPANY**

**34-33-B FEDERAL MONUMENT BUTTE  
SECTION 33, T8S, R16E, S.L.B.&M.**



TOPOGRAPHIC  
MAP "B"  
SCALE: 1" = 2000'  
2-7-90



**PG&E RESOURCES COMPANY**

34-33-B FEDERAL MONUMENT BUTTE  
SECTION 33, T8S, R16E, S.L.B.&M.

OPERATOR PGE E Resources Company (No 595) DATE 3-28-90

WELL NAME Fed. 34-33-B

SEC SWSE 33 T 85 R 16E COUNTY Duchesne

43-013-31269  
API NUMBER

Federal (17)  
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD  
(S)

POTASH OR OIL SHALE

PROCESSING COMMENTS:

No other well within 920' (Sec. 33, 95 16E Sec. 4)

Need Water Permit

APPROVAL LETTER:

SPACING:  R615-2-3 N/A  
UNIT

R515-3-2

N/A  
CAUSE NO. & DATE

R615-3-3

STIPULATIONS:

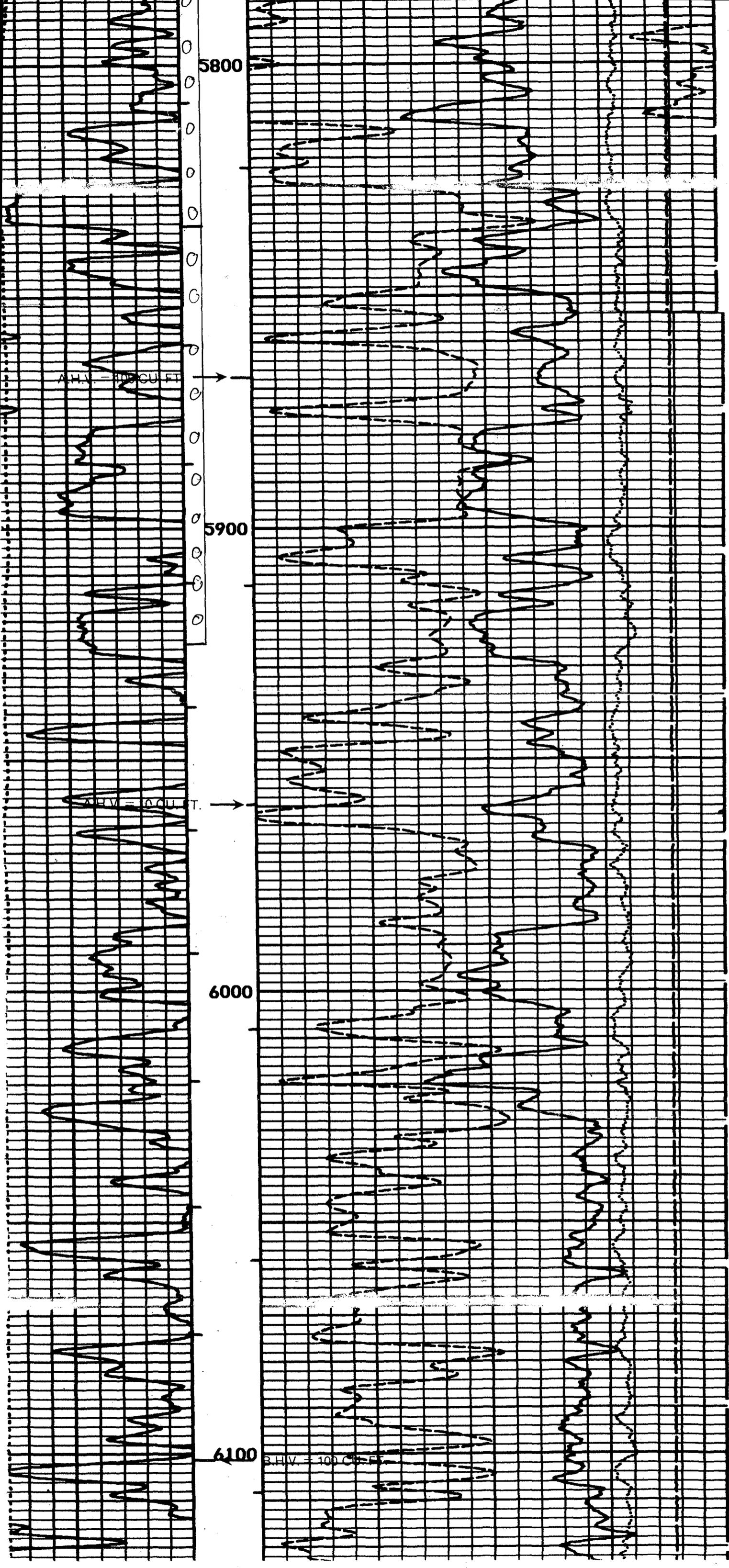
1. Water Permit

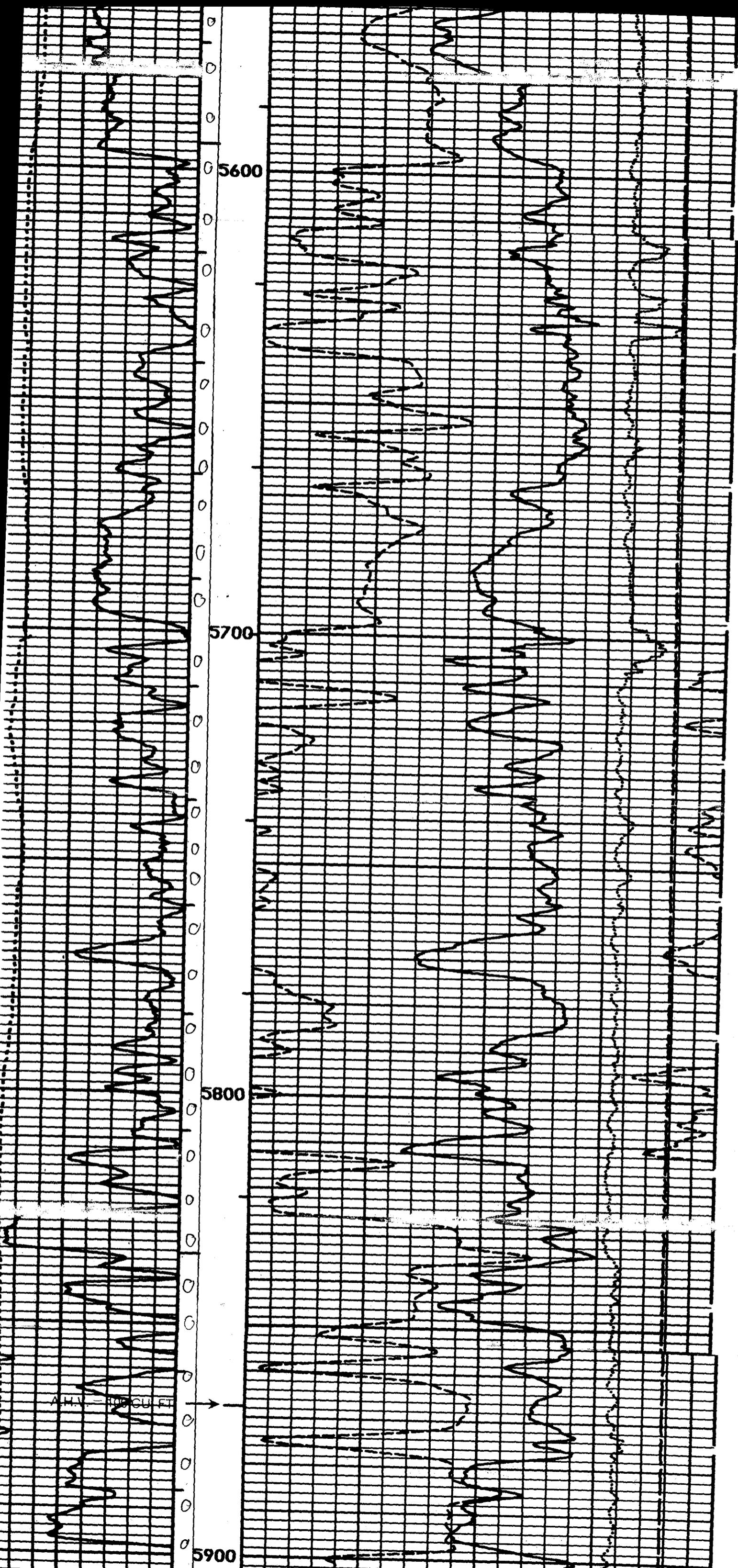
CONFIDENTIAL  
PERIOD  
EXPIRED  
ON 9-18-91



**COMPENSATED  
DENSITY DUAL  
SPACED NEUTRON**

|   |                                     |                            |                  |
|---|-------------------------------------|----------------------------|------------------|
| COMPANY _____<br>WELL _____<br>FIELD _____<br>COUNTY _____ ST _____ | COMPANY P G AND E RESOURCES COMPANY |                            |                  |
|   | WELL FED 94-99B                     |                            |                  |
|   | FIELD MONUMENT BUTTES               |                            |                  |
|   | COUNTY DUCHESE                      |                            | STATE UT         |
| API NO. NA<br>LOCATION<br>614 F8L AND 1085 FEL                      |                                     | OTHER SERVICES<br>DLL/MGRD |                  |
| SEC. 99   |                                     | TWP 08                     | RGE 16E          |
| PERMANENT DATUM CL  |                                     | ELEV. 5696                 | ELEV.: K.B. 5711 |
| LOG MEASURED FROM KB  |                                     | 15 FT. ABOVE PERM. DATUM   | D.F. 5710        |
| DRILLING MEASURED FROM KB   |                                     |                            | G.L. 5696        |
| DATE  | 5/7/90                              |                            |                  |
| RUN NO.   | ONE                                 |                            |                  |
| DEPTH-DRILLER   | 6400                                |                            |                  |
| DEPTH-LOGGER  | 6989                                |                            |                  |
| BTM. LOG INTER.   | 6985                                |                            |                  |
| TOP LOG INTER.  | C86                                 |                            |                  |
| CASING-DRILLER  | 9.625@900                           | •                          | •                |
| CASING-LOGGER   | 304                                 |                            |                  |
| BIT SIZE  | 7.875                               |                            |                  |
| TYPE FLUID IN HOLE  | KCL WATER                           |                            |                  |
| DENS.   VIAC  | 8.4   127                           |                            |                  |
| PH   FLUID LOSS   | 10.6   INC                          |                            |                  |
| SOURCE OF SAMPLE  | PIT                                 |                            |                  |
| RM • HEAB. TEMP.  | 0.25 @70                            | •                          | •                |
| RMF • HEAB. TEMP.   | 0.25 @70                            | •                          | •                |
| RMC • HEAB. TEMP.   | NA @NA                              | •                          | •                |
| SOURCE RMF   RMC  | HEAB.   HEAB.                       |                            |                  |
| RM • DWT  | 0.12 @157                           | •                          | •                |
| TIME SINCE CIRC.  | 0 HRS                               |                            |                  |
| TIME ON BOTTOM  | 12:30                               |                            |                  |
| MAX. REC. TEMP.   | 157 @TD                             | •                          | •                |
| EQUIP.   LOCATION   | 51040   VERNL                       |                            |                  |
| RECORDED BY   | R. FRIDAY                           |                            |                  |
| WITNESSED BY  | G. MILLER                           |                            |                  |





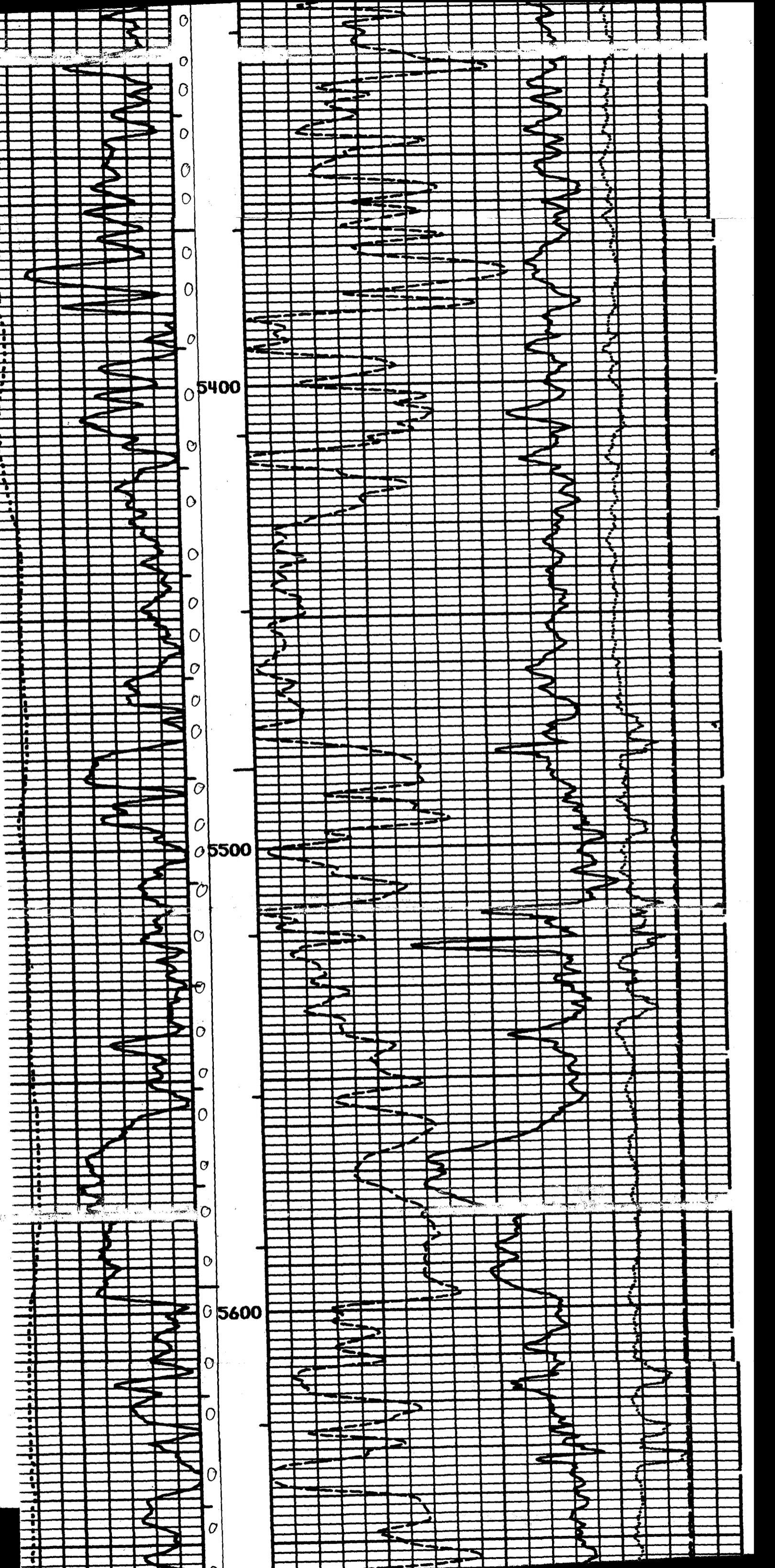
5600

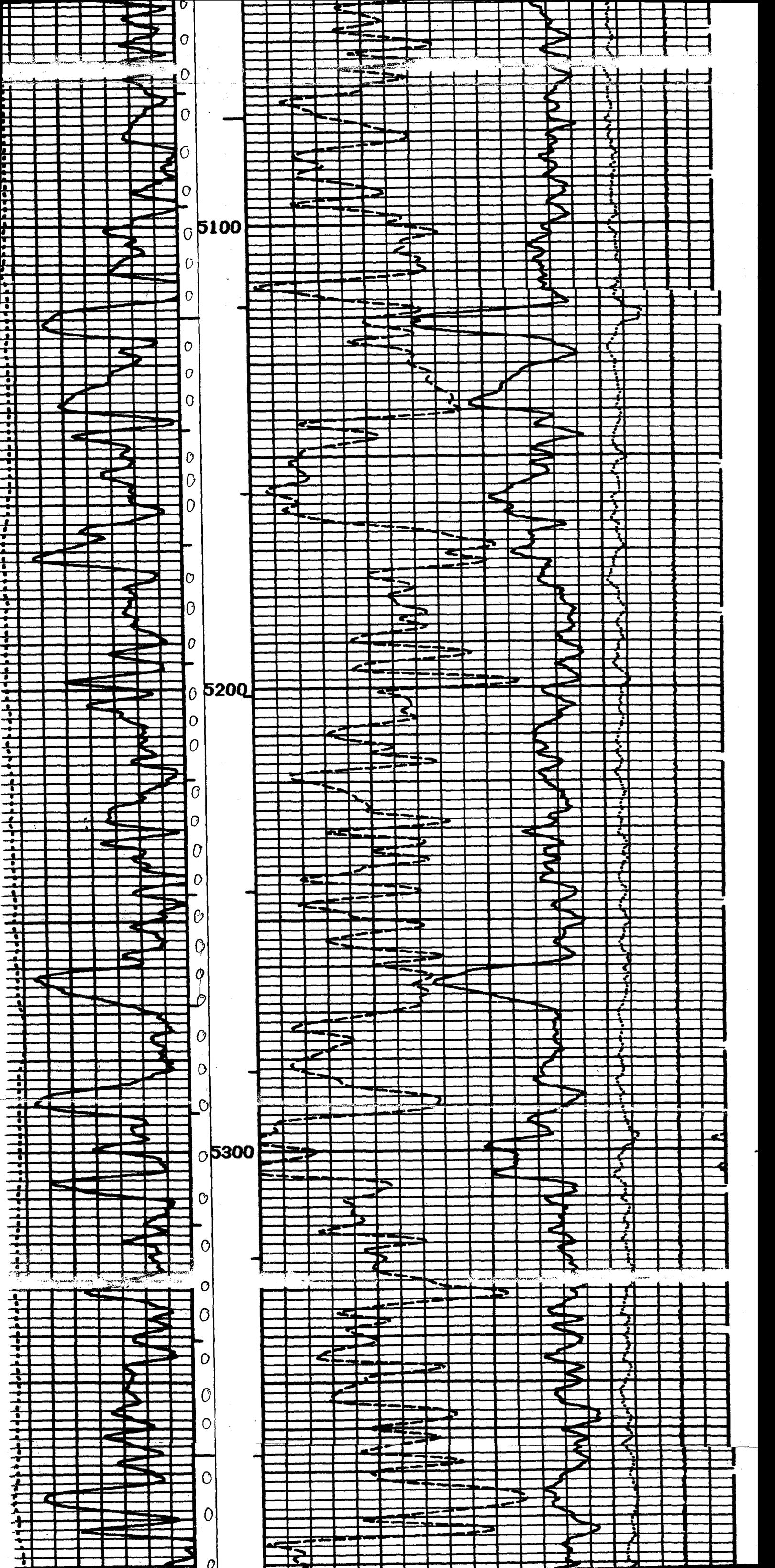
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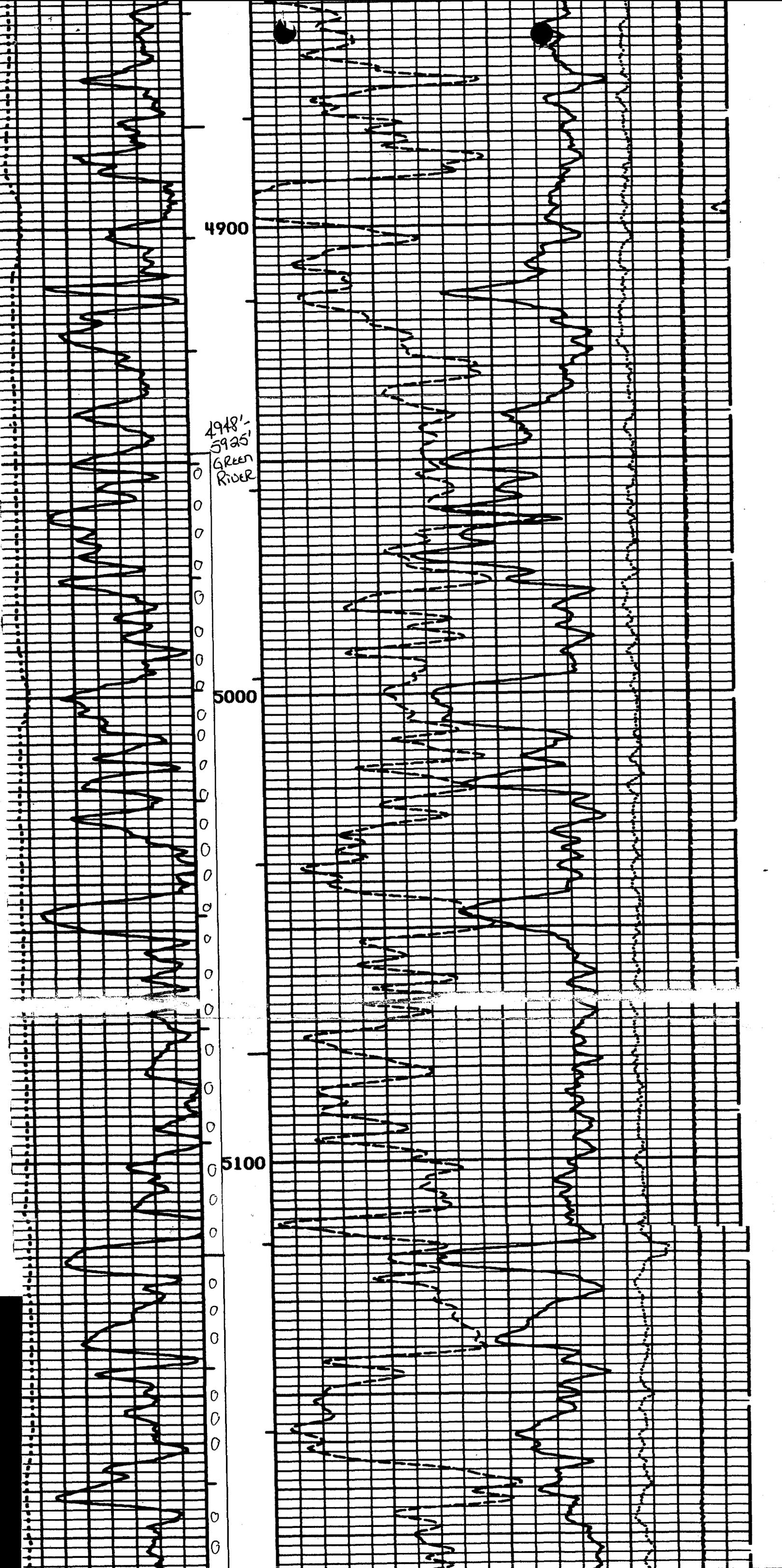
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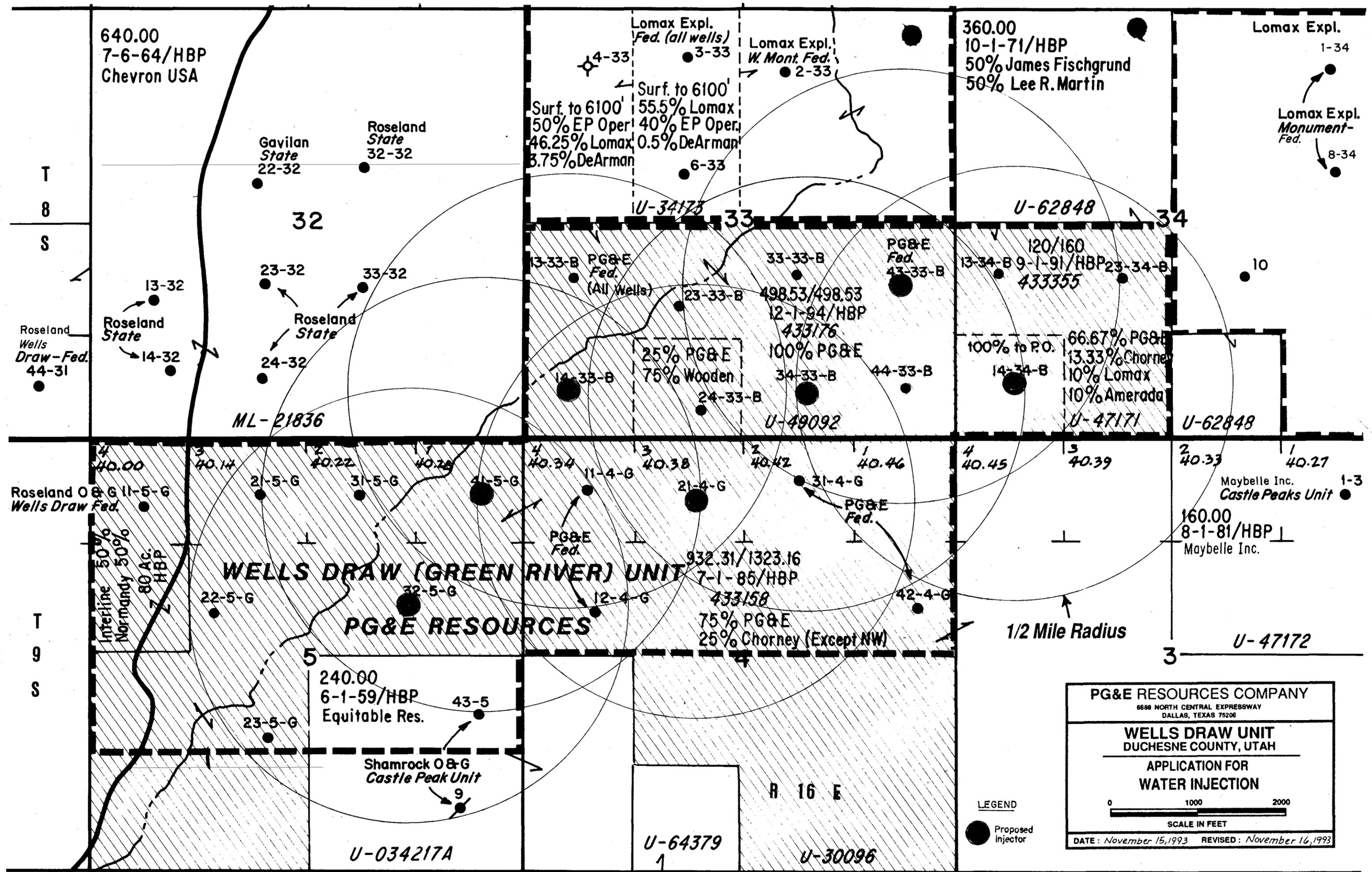
5900

ALTA - INSOUFI









**PG&E RESOURCES COMPANY**  
 8688 NORTH CENTRAL EXPRESSWAY  
 DALLAS, TEXAS 75206

**WELLS DRAW UNIT**  
 DUCHESNE COUNTY, UTAH

**APPLICATION FOR**  
**WATER INJECTION**

0 1000 2000  
 SCALE IN FEET

DATE: November 15, 1993 REVISED: November 16, 1993

**LEGEND**  
 ● Proposed injector

R 16 E

U-64379  
 1

U-30096

U-034217A

240.00  
 6-1-59/HBP  
 Equitable Res.

Shamrock O&G  
 Castle Peak Unit

**WELLS DRAW (GREEN RIVER) UNIT**  
**PG&E RESOURCES**

Roseland O&G II-5-G  
 Wells Draw Fed.

Interline 50%  
 Normandy 50%  
 HBP

Maybelle Inc.  
 Castle Peaks Unit 1-3  
 160.00  
 8-1-81/HBP  
 Maybelle Inc.

100% to P.O.  
 66.67% PG&E  
 13.33% Chorney  
 10% Lomax  
 10% Amerada

Surf. to 6100'  
 55.5% Lomax  
 40% EP Oper.  
 46.25% Lomax  
 0.5% DeArman  
 3.75% DeArman

Lomax Expl.  
 W. Mont. Fed.  
 2-33

Lomax Expl.  
 Fed. (all wells)  
 3-33

360.00  
 10-1-71/HBP  
 50% James Fischgrund  
 50% Lee R. Martin

Lomax Expl.  
 Monument-Fed.  
 8-34

640.00  
 7-6-64/HBP  
 Chevron USA

Gavilan State  
 22-32

Roseland State  
 32-32

Roseland Wells Draw-Fed.  
 44-31

Roseland State  
 14-32

23-32

33-32

13-33-B PG&E Fed. (All Wells)

33-33-B

PG&E Fed. 43-33-B

13-34-B

120/160 9-1-91/HBP 433355

23-34-B

10

U-34175

U-62848

ML-21836

U-49092

U-47171

U-62848

14-33-B

25% PG&E  
 75% Wooden

100% PG&E

34-33-B

44-33-B

14-34-B

40.34

40.38

40.42

40.46

40.45

40.39

40.33

40.27

Roseland O&G II-5-G  
 Wells Draw Fed.

Interline 50%  
 Normandy 50%  
 HBP

Maybelle Inc.  
 Castle Peaks Unit 1-3  
 160.00  
 8-1-81/HBP  
 Maybelle Inc.

1/2 Mile Radius

U-47172

22-5-G

32-5-G

12-4-G

42-4-G

23-5-G

43-5

Shamrock O&G  
 Castle Peak Unit

**LEGEND**

● Proposed injector

0 1000 2000

SCALE IN FEET

DATE: November 15, 1993 REVISED: November 16, 1993



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangarter  
Governor

Dee C. Hansen  
Executive Director

Dianne R. Nielson, Ph.D.  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

March 30, 1990

PG&E Resources Company  
5950 Berkshire Lane, Suite 600  
Dallas, Texas 75225

Gentlemen:

Re: Fed. #34-33-B - SW SE Sec. 33, T. 8S, R. 16E - Duchesne County, Utah  
614' FSL, 1885' FEL

Approval to drill the referenced well is hereby granted in accordance with Rule R615-3-2, Oil and Gas Conservation General Rules, subject to the following stipulation:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.

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

1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.

6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-013-31269.

Sincerely,



R. J. Firth  
Associate Director, Oil & Gas

lcr  
Enclosures  
cc: Bureau of Land Management  
D. R. Nielson  
J. L. Thompson  
WE14/10-11

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

3. LEASE DESIGNATION AND SERIAL NO.  
U-49092

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Federal

9. WELL NO.  
34-33-B

10. FIELD AND POOL, OR WILDCAT  
Monument Butte

11. SEC., T., R., M., OR BLE.  
AND SURVEY OR AREA  
Sec. 33-T8S-R16E

12. COUNTY OR PARISH 13. STATE  
Duchesne Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
DRILL  DEEPEN  PLUG BACK

b. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
PG&E Resources Company

3. ADDRESS OF OPERATOR  
5950 Berkshire Lane, Suite 600, Dallas, Texas 75225

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements\*)  
At surface  
1,885' FEL, 614' FSL, SW/SE  
At proposed prod. zone  
OIL, GAS & MINING  
API #43-013-3126A

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

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

16. NO. OF ACRES IN LEASE  
320

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.

19. PROPOSED DEPTH  
Green River 6,400'

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DP, RT, CR, etc.)  
5,696' GR.

22. APPROX. DATE WORK WILL START\*  
April, 1990

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#             | 300'          | To surface         |
| 7 - 7/8"     | 5-1/2"         | 15.5#           | TD            | As required        |

- Attachments:
- Drilling Program
  - Surface Use Plan
  - Survey Plat
  - Cut & Fill Diagram
  - Topo Maps
  - Well Location Map
  - Choke Manifold Diagram
  - Blowout Preventer Diagram

MAR 1990

Original & 2 copies: BLM - Vernal District; 2 copies Div. Oil, Gas & Mining - Salt Lake City

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 Mike McMican TITLE Petroleum Engineer DATE 3/20/90  
Michael L. McMican

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY [Signature] TITLE ASSISTANT DISTRICT MANAGER MINERALS DATE APR 12 1990  
CONDITIONS OF APPROVAL, IF ANY:

44080-0m22

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

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company PG&E RESOURCES CO. Well No. 34-33-B  
Location SW/SE Sec. 33, T8S, R16E Lease No. U-49092

Approval of this application 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.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Tim Ingwell of this office. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

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

2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., and individual components shall be operable as designed.

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

3. Casing Program and Auxiliary Equipment

Usable water may be encountered from +95-255 ft. and +415-700 ft. in the Uinta Formation. Saline water may be encountered from +1785-1985 ft. in the Uinta Formation and from +2825-2905 ft., +4125-4355 ft., +4675-4785 ft., +4985-5025 ft., and +5165-5385 ft.

in the Green River Formation. The Mahogany and L1 oil shale have been identified from +3040-3154 ft. and +3310-3380 ft., respectively. Therefore, the resources will be isolated and/or protected via the cementing program for the production casing. As a minimum, the top of cement for the production casing will be at least 200 ft. above the oil shale. If usable water is encountered, it is to be isolated and/or protected.

Surface casing shall have centralizers on every fourth joint of casing starting with the shoe joint and up to the bottom of the cellar.

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

4. Mud Program and Circulating Medium

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

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the Authorized Officer. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the Authorized Officer.

A cement bond log (CBL) shall be utilized to determine the top of cement (TOC) for the intermediate and production casing.

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

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well

to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

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

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

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

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

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

Pursuant to NTL-2B, with the approval of a District Engineer, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration.

Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

Pursuant to Onshore Oil and Gas Orders, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with State and local laws and regulations to the extent that such State and local laws are applicable to operations on Federal or Indian lands.

#### 7. Other Information

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

All site security guidelines identified in Onshore Oil and Gas Order No. 3 regulations will be adhered to.

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

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

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

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

There will be no deviation from the proposed drilling and/or work-over program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An additional one (1) year approval period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, please contact one of the following individuals:

Gerald E. Kenczka (801) 781-1190  
Petroleum Engineer

Ed Forsman (801) 789-7077  
Petroleum Engineer

Date NOS Received: 02/26/90

CONDITIONS OF APPROVAL  
FOR THE SURFACE USE PROGRAM OF THE  
APPLICATION FOR PERMIT TO DRILL

Company/Operator PG&E RESOURCES CO.  
Well Name & Number 34-33-B  
Lease Number U-49092  
Location SW1/4 SE1/4 Sec. 33 T. 8S R. 16E  
Surface Ownership Federal

1. The operator or his/her contractor shall contact the BLM at (801) 789-1362 between twenty-four (24) and forty-eight (48) hours prior to construction activities. Contact Ralph Brown or Tim O'Brien.
2. A silt catchment and check dam will be built where flagged near the north end of the location, according the BLM specifications.

DIVISION OF OIL, GAS AND MINING

API NO. 43-013-31269

SPUDDING INFORMATION

NAME OF COMPANY: P G & E Resources

WELL NAME: 34-33B

SECTION SWSE 33 TOWNSHIP 8S RANGE 16E COUNTY DUCHESNE

DRILLING CONTRACTOR LEON ROSS

RIG # \_\_\_\_\_

SPUDED: DATE 4/24/90

TIME 11:00 a.m.

HOW DRY HOLE DIGGER

DRILLING WILL COMMENCE APPROX. 4/30/90 - EXETER #7

REPORTED BY KARLA

TELEPHONE # 789-4573

DATE 4/24/90 SIGNED TAS

# FILING FOR WATER IN THE STATE OF UTAH

Rec. by \_\_\_\_\_

Fee Rec. \_\_\_\_\_

Receipt # \_\_\_\_\_

Microfilmed \_\_\_\_\_

Roll # \_\_\_\_\_

## APPLICATION TO APPROPRIATE WATER

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of Title 73, Chapter 3 of the Utah Code Annotated 1953, as amended.

WATER RIGHT NUMBER: 47 - 1791

APPLICATION NUMBER: T64623

\*\*\*\*\*

**1. OWNERSHIP INFORMATION:**

A. NAME: Dalbo Incorporated  
ADDRESS: P. O. Box 1167, Vernal, UT 84078

B. PRIORITY DATE: April 27, 1990

FILING DATE: April 27, 1990

**2. SOURCE INFORMATION:**

A. QUANTITY OF WATER: 5.0 acre-feet

B. DIRECT SOURCE: Parriette Draw

COUNTY: Uintah

C. POINT OF DIVERSION -- SURFACE:

(1) feet W 500 feet from SE corner, Section 27, T 8S, R 18E, SLBM  
DIVERT WORKS: Pump into tank trucks.

D. COMMON DESCRIPTION: 10 miles SW of Ouray

**3. WATER USE INFORMATION:**

OIL EXPLORATION: from Apr 28 to Apr 27. Oil well drilling and completion

**4. PLACE OF USE:** (which includes all or part of the following legal subdivisions:)

| BASE TOWN | RANG. | SEC    | NORTH-EAST 1/4 |    |    |    | NORTH-WEST 1/4 |    |    |    | SOUTH-WEST 1/4 |    |    |    | SOUTH-EAST 1/4 |    |    |    |   |   |
|-----------|-------|--------|----------------|----|----|----|----------------|----|----|----|----------------|----|----|----|----------------|----|----|----|---|---|
|           |       |        | NE             | NW | SW | SE |   |   |
| SL        | 8S    | 18E 33 | X              | X  | X  | X  | ■              | ■  | ■  | X  | X              | X  | X  | ■  | ■              | ■  | X  | X  | X | X |

5. EXPLANATORY: <sup>16E</sup> (Error made on Range per Water Rights - Billie)

The land is owned by the Bureau of Land Management. Water is to be used for oil well drilling on the following wells: 34-33B Federal, 33-33B Federal, and 44-33B Federal, all in Section 33, T8S, R18E, SLB&M.

PG&E Resources Fed. #44-33-B-43-013-31270  
 Fed. #34-33-B-43-013-31269-DRL  
 Fed. #33-33-B-43-013-31268

6. SIGNATURE OF APPLICANT(S):

The applicant(s) hereby acknowledge(s) that he/she/they are citizen(s) of the United States of America or intend(s) to become such a citizen(s). The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purposes herein described. The undersigned hereby acknowledges that even though he, she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of information contained herein, at the time of filing, rests with the applicant(s).

DALBO INCORPORATED

*Ken Rice*  
Signature of Applicant(s)

DALBO, INC.  
OIL AND WATER SERVICE  
P.O. BOX 1166 PHONE 789-0743  
VERNAL, UTAH 84078

No. 020445

FIRST SECURITY BANK OF UTAH  
NATIONAL ASSOCIATION  
VERNAL, UTAH  
97-54 / 1243

PAY Thirty and 00/100 \*\*\*

DATE

4/27/90

AMOUNT

\$ 30.00

TO  
THE  
ORDER  
OF

UTAH DIVISION OF WATER RIGHTS

DALBO, INC.

*Clayton Young*

⑈020445⑈ ⑆124300547⑆ 62 000?? 16⑈

RECEIVED  
MAY 07 1990

DIVISION OF  
OIL, GAS & MINING

ENTITY ACTION FORM - FORM 6

OPERATOR PG&E RESOURCES COMPANY  
ADDRESS 85 South 200 East  
Vernal, UT 84078

OPERATOR ACCT. NO. N 0595

| ACTION CODE  | CURRENT ENTITY NO. | NEW ENTITY NO. | API NUMBER | WELL NAME     | WELL LOCATION |    |    |     |          | SPUD DATE | EFFECTIVE DATE |
|--|--------------------|----------------|------------|---------------|---------------|----|----|-----|----------|-----------|----------------|
|  |                    |                |            |               | QQ            | SC | TP | RG  | COUNTY   |           |                |
| A  | 99999              | 11079          | 4301331269 | Fed. #34-33-B | SWSE          | 33 | 8S | 16E | Duchesne | 4/24/90   | 4/24/90        |
| WELL 1 COMMENTS: <i>Federal - Lease Proposed Zone - GRV</i><br><i>Field - Monument Butte (New entity 11079 added 4-30-90) for</i><br><i>Unit - N/A</i> |                    |                |            |               |               |    |    |     |          |           |                |
| WELL 2 COMMENTS:   |                    |                |            |               |               |    |    |     |          |           |                |
| WELL 3 COMMENTS:   |                    |                |            |               |               |    |    |     |          |           |                |
| WELL 4 COMMENTS:   |                    |                |            |               |               |    |    |     |          |           |                |
| WELL 5 COMMENTS: <b>RECEIVED</b><br>APR 27 1990  |                    |                |            |               |               |    |    |     |          |           |                |

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

*Connie Mobley*  
Signature  
Production Clerk 4/25/90  
Title Date  
Phone No. (801) 789-4573

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
APR 27 1990

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: September 30, 1990

**SUNDRY NOTICES AND REPORTS ON WELLS**

DIVISION OF  
OIL, GAS & MINING

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

**SUBMIT IN TRIPLICATE**

|  |   |
|--|---|
| 1. Type of Well<br><input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other | 5. Lease Designation and Serial No.<br>U-49092            |
| 2. Name of Operator<br>PG&E Resources Company  | 6. If Indian, Allottee or Tribe Name                      |
| 3. Address and Telephone No.<br>85 South 200 East, Vernal, UT 84078   801-789-4573   | 7. If Unit or CA, Agreement Designation                   |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)<br>SW/SE Section 33, T8S, R16E - 614' FSL, 1885' FEL      | 8. Well Name and No.<br>34-33-B                           |
|  | 9. API Well No.<br>43-013-31269                           |
|  | 10. Field and Pool, or Exploratory Area<br>Monument Butte |
|  | 11. County or Parish, State<br>Duchesne County, Utah      |

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

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

Report of Spud Date  
(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.)\*

Operator reports the subject well was spud at 11 a.m. April 24, 1990 by Leon Ross Drilling Company. Approximately 300' of 8-5/8" 24# K-55 casing will be set and cemented. Exeter Rig 7 is expected to move on location approximately April 30, 1990.

Spud date was reported verbally to the Vernal District BLM office and Div. of Oil, Gas and Mining April 24, 1990.

|                     |           |
|---------------------|-----------|
| BLM                 | ...       |
| OGM                 | ...       |
| DTS                 | ...       |
| I-TAS               |           |
| <b>CONFIDENTIAL</b> |           |
| 2-                  | MICROFILM |
| 3-                  | FILE      |

Copies: Div. Oil, Gas & Mining; SGoodrich; Central Files; CMobley

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

Signed C.M. Heddleson Title Production Supt. Date 4/25/90  
C.M. Heddleson

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

CONFIDENTIAL

Form 3160-5  
(December 1989)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: September 30, 1990

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

MAY 08 1990

DIVISION OF  
OIL, GAS & MINING

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
 PG&E Resources Company

3. Address and Telephone No.  
 85 South 200 East, Vernal, UT 84078    801-789-4573

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 SW/SE Section 33, T8S, R16E - 614' FSL, 1885' FEL

5. Lease Designation and Serial No.  
 U-49092

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
 34-33-B

9. API Well No.  
 43-013-31269

10. Field and Pool, or Exploratory Area  
 Monument Butte

11. County or Parish, State  
 Duchesne County, Utah

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

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

Weekly Status Report  
 (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.)\*

4/28-29/90: MIRT.

4/30/90: Finish MIRT. NU & test BOP's.

5/1/90: TD 1253'. Drilling. Survey 3/4° @ 507', survey 3/4° @ 1005'.

5/2/90: TD 2375'. Drilling. Survey 1 1/4° @ 1354', 1 1/4° @ 1600', 1° @ 2124'.

5/3/90: TD 3573'. Drilling. Survey 1 1/2° @ 2640', 1 1/2° @ 3151'.

5/4/90: TD 4377'. Drilling. Survey 1 1/2° @ 3690', Survey 1-3/4° @ 4202'.

5/5/90: TD 5491'. Drilling. Survey 2° @ 4707', 1 1/2° @ 5204'.

5/6/90: TD 6400'. Survey 1° @ 5730', circ and trip for logs.

|             |     |
|-------------|-----|
| OIL AND GAS |     |
| OPN         | HT  |
| JOB         | GLI |
| TRK         | SLG |
| 1-TAS       |     |

Copies: Div. Oil, Gas & Mining; SGoodrich; Central Files

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

Signed R.D. Miller Title Production Foreman

(This space for Federal or State office use)

2- MICROFILM  
 Date May 7 1990  
 3- FILE

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
 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.

RECEIVED  
MAY 09 1990

May 7, 1990

DIVISION OF  
OIL, GAS & MINING



Division of Oil, Gas & Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203

Attention: Tammy Searing

Dear Tammy:

We request the following wells be placed in a confidential status:

Well #33-33-B Federal  
NW/SE Sec. 33, T8S, R16E - 43-013-31268  
Duchesne County, UT

Well #34-33-B Federal  
SW/SE Sec. 33, T8S, R16E 43-013-31269  
Duchesne County, UT

Well #44-33-B Federal  
SE/SE Sec. 33, T8S, R16E - 43-013-31270  
Duchesne County, UT

Well #13-34-B Federal  
NW/SW Sec. 34, T8S, R16E 43-013-31271  
Duchesne County, UT

Well #21-4-G Federal  
NE/NW Sec. 4, T9S, R16E 43-013-31272  
Duchesne County, UT

Well #22-5-G Federal  
SE/NW Sec. 5, T9S, R16E 43-013-31273  
Duchesne County, UT

Thank you for your cooperation. If you have any questions, please call me.

Sincerely,

*Karla Hanberg*  
Karla Hanberg

CONFIDENTIAL

Form 3160-5  
(December 1989)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

MAY 21 1990

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
 PG&E Resources Company

3. Address and Telephone No.  
 85 South 200 East, Vernal, UT 84078 801-789-4573

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 SW/SE Section 33, T8S, R16E - 614' FSL, 1885' FEL

5. Lease Designation and Serial No.  
 U-49092

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
 34-33-B

9. API Well No.  
 43-013-31269

10. Field and Pool, or Exploratory Area  
 Monument Butte

11. County or Parish, State  
 Duchesne County, Utah

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

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

Weekly Status Report  
 (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.)\*

5/7/90: TD 6400'. Lay down drill pipe and drill collars.

5/8/90: TD 6400'. Run 159 jts. 5 1/2" 17# K55 LTC production casing. Rig released at 9 p.m. 5/8/90.

WOCT.

|                   |     |
|-------------------|-----|
| OIL AND GAS       |     |
| DRN               | IUF |
| JRB               | SLH |
| DTS               | CLS |
| LITAS             |     |
| MICROFILM         |     |
| FILE              |     |
| Date May 15, 1990 |     |

Copies: Div. Oil, Gas & Mining; SGoodrich; Central Files

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

Signed Karla Hanberg Title Office Supervisor Date May 15, 1990

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

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.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**CONFIDENTIAL**  
**RECEIVED**  
JUN 06 1990  
DIVISION OF  
OIL, GAS & MINING

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: September 30, 1990

**SUNDRY NOTICES AND REPORTS ON WELLS**

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Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.  
U-49092

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
34-33-B

9. API Well No.  
43-013-31269

10. Field and Pool, or Exploratory Area  
Monument Butte

11. County or Parish, State  
Duchesne County, Utah

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
PG&E Resources Company

3. Address and Telephone No.  
85 South 200 East, Vernal, UT 84078 801-789-4573

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
SW/SE Section 33, T8S, R16E - 614' FSL, 1885' FEL

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

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

Weekly Status Report  
(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.)\*

- 5/31/90: Ran CBL from 6295-2000', Cmt Bond good, Top @ -1540'. Perforate 5919-25', 5887-5896', 5879-84', 4 SPF, 90°, 83 holes, set RBP @ 6025'.
- 6/01/90: Frac ramped 50,000# 20/40 sand 1-6 ppg, ramped 45,000# 16/30 6-7 ppg. Screened out to 5000 psi w/95,000# sand and 41,300 gals. gel. Avg 2333 psi @ 46 BPM.
- 6/02/90: SICP 1000 psi, Flw to pit, Rec'd 70 bbls frac fluid, clean out to 6025'. Reset RBP @ 5850' & test to 2500 psi.
- 6/03/90: Perforate 5765-73', 5682-5695', 4 SPF 90° phase, 86 holes w/4" csg gun. Set pkr @ 5735' & bk dn 5765-73' zone w/2800 psi above RBP to 5735' & bk dn 5682-5695' perms w/3400 psi. Reset RBP @ 5860'.

Copies: Div. Oil, Gas & Mining; SGoodrich; Central Files

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

Signed Arsla Hanberg Title Office Supervisor Date June 5, 1990

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

# CONFIDENTIAL

Form 3160-5  
(December 1989)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: September 30, 1990

### SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

JUN 18 1990

DIVISION OF  
OIL, GAS & MINING

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

PG&E Resources Company

3. Address and Telephone No.

85 South 200 East, Vernal, UT 84078 801-789-4573

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

SW/SE Section 33, T8S, R16E - 614' FSL, 1885' FEL

5. Lease Designation and Serial No.

U-49092

6. If Indian, Allottee or Tribe Name

If Unit or CA, Agreement Designation

8. Well Name and No.

34-33-B

9. API Well No.

43-013-31269

10. Field and Pool, or Exploratory Area

Monument Butte

11. County or Parish, State

Duchesne County, Utah

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

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

**Weekly Status Report**  
(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.)\*

06/05/90: Attempt to frac Lower (E) sands. Cracked valves in Dowell's pumps resulted in BEL oversaturated w/fluid loss additive & frac pressured out in pad. Dowell repaired pump. Ran tag & displaced well w/2% KCL; established 2000 psi, 8 BPM injection. Trip out, frac well as planned on 2nd try. Avg 40 BPM & 2600 psi, 30600# 20/40, 46400# 16/30, 824 bbl fluid.

06/06/90: SICP=1700 psi, Flwd 270 bbls frac fluid to pit in 5 hrs. Trip in & move RBP to 5660', TOH, Perf 5564-78', 4 spf, 90° 57 holes.

06/07/90: Frac Upper E (2). Avg rate 30 BPM @ 2600 psi, max rate 40 BPM max pressure, 4000 psi, proppant: 30100# 20/40, 39800# 16/30 sand. Total fluid 668 bbl.

06/08/90: SICP 550#, blew to pit 2 hrs. TIH to RBP & move to 5360, C/N set, TOH w/RBP. Perf 5260-66, 5119-24, 5137-40 w/4 SPF 90° 4" csg guns. TIH w/RBP & pkr, set RBP @ 5360 Pkr @ 5330. Tst RBP to 2500 psi, Reset pkr @ 5191. Lower perfs would not brk, Upper perfs took 4 BPM @ 1100 psi. Reset pkr @ 5065, primary seals leaking.

06/09/90: Tstd primary & secondary wellhead seals, wellhead not leaking. Repeated pkr settings Identified csg leak between 1329 & 1323. Ran open ended tbg to RBP @ 5030, spotted 2 sx sand & POH.

Copies: Div. Oil, Gas & Mining; SGoodrich; Central Files

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

Signed

*Karla Lundberg*

Title

Office Supervisor

Date

June 15, 1990

(This space for Federal or State office use)

Approved by

Title

Date

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

Weekly Status Report - Page 2

- 06/10/90: Ran Caliper Log from 1600 to 500, hole @ 1328. Set cmt ret @ 1270. Squeezed w/lead: 500 sx 50/50 poz, 6% gal 2% CaCl<sub>2</sub>, Tail: 200 sx "G" w/2% CaCl<sub>2</sub>. Sting out of reg, reverse circ & TOH.
- 06/12/90: PU 6 x 3 1/8" DC's & junk mill. TIH & tag cmt 11' above ret @ 1270. Drld 11' above ret. Ret., & 4' below. POOH, TIH w/4 3/4" bit.
- 06/13/90: Finish drlg cmt. Tst csg to 1500 psi. Held ok. TOH LD DC's, TIH w/RTTS pkr ro RBP. Reset RBP @ 5360, spot 500 gal 7 1/2% HCL across all perfs @ 5260-66. Set pkr @ 5119-24 and 5137-40 perfs 4 BPM @ 1700 psi. Reset RBP @ 5360 & tested. POH.
- 06/14/90: Set RTTS pkr @ 1628 w/3 1/2" tbg. Tst held @ 1000 psi. Frac Douglas Creek w/Dowell 5119-5266. Total 31,000# 20/40 sand. 40900# 16/30 sd, 729 bbls fluid avg 40 BPM @ 3010 psi.

| OIL AND GAS |      |
|-------------|------|
| DRN         | RJF  |
| JOB         | GLH  |
| DTS         | SLS  |
|             |      |
|             |      |
|             |      |
|             |      |
|             |      |
| MICROFILM   |      |
| 2-          | FILE |

CONFIDENTIAL

Form 3160-5  
(December 1989)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: September 30, 1990

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 TRIPPLICATE

JUN 25 1990

DIVISION OF  
OIL, GAS & MINING

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

PG&E Resources Company

3. Address and Telephone No.

85 South 200 East, Vernal, UT 84078 801-789-4573

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

SW/SE Section 33, T8S, R16E - 614' FSL, 1885' FEL

5. Lease Designation and Serial No.

U-49092

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

34-33-B

9. API Well No.

43-013-31269

10. Field and Pool, or Exploratory Area

Monument Butte

11. County or Parish, State

Duchesne County, Utah

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

TYPE OF SUBMISSION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other
- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection

Weekly Status Report

(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.)\*

06/15/90: 18 hr SITP 700 psi. Flwd 127 bbls frac fluid to pit in 3 hrs. Good oil & gas show. Rel pkr & POOH w/3 1/2" tbg. Trp in w/ret tool & 2-7/8" tbg, cleaned sand from 5000' to RBP @ 5360. Reset RBP @ 5100', tst to 1500 psi. TOOH, perf 4948-52, 4953-73, 4997-5007, 5018-20, 5044-49, 4 spf 90°. TIH w/RTTS pkr. Set pkr @ 4877', pump all perfs @ 3.6 BPM & 1200 psi.

06/16/90: Set pkr @ 4980, pmp into perf @ 4997-4049 @ 3 1/2 BPM & 1200 psi. Reset RBP @ 4980, pkr @ 4877. Pmp into perfs 4948-73 @ 3 BPM & 2000 psi. Reset RBP @ 5100'. TOOH Frac w/Dowell avg 52 BPM @ 3200 psi. Totals 65,100# 20/40 sd, 46100# 16/30 sd (85700# 16/30 sd planned), 1525 bbl to recover. Flshd early as dictated by Nolte Plot

06/17/90: SICP 200 psi, recd 50 bbls flwg to pit. Unseat RTTS prk & LD 3 1/2" tbg. Clean to RBP & retrieve same, clean to PBSD. Trip out to 2300'.

06/18/90: SI for Father's Day.

06/19/90: SITP 400 psi, SICP 400 psi. Kill well w/2% KCL. POOH w/tbg. TIH w/tbg & tbg anchor. Set anchor @ 4920 w/12000# tension. Replace BOP w/wellhead. Flush tbg w/50 bbls 2% KCL @ 275°. Trip in w/pmp & rods, chk pmp to 1000 psi, ok. Rig released @ 9:30 a.m. 6/19/90.

Copies: Div. Oil, Gas & Mining; SGoodrich; Central Files

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

Signed Arlo Hansberg

Title Office Supervisor

Date June 22, 1990

(This space for Federal or State office use)

Approved by M. J. [Signature]  
Conditions of approval, if any:

Title

Date

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.

**CONFIDENTIAL**

Form 3160-5  
(December 1989)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: September 30, 1990

5. Lease Designation and Serial No.

U-49092

Indian, Allottee or Tribe Name

**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.

RECEIVED  
JUL 19 1990

SUBMIT IN TRIPLICATE

Whit or CA, Agreement Designation

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

PG&E Resources Company

3. Address and Telephone No.

85 South 200 East, Vernal, UT 84078 801-789-4573

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

SW/SE Section 33, T8S, R16E - 614' FSL, 1885' FEL

8. Well Name and No.

34-33-B

9. API Well No.

43-013-31269

10. Field and Pool, or Exploratory Area

Monument Butte

11. County or Parish, State

Duchesne County, Utah

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

TYPE OF SUBMISSION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other
- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection

Initial Production

(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.)\*

Operator reports the subject well was put on production at 1:30 p.m. 7/11/90. Estimated production for 28 hrs 7/13/90 was 677 bbls. of oil and 290 bbls. of water.

Future reports will be on MMS Form 3160 "Monthly Report of Operations".

*done*  
*file*

Copies: Div. ~~Oil~~, Gas & Mining; SGoodrich; Central Files; Lynne Moon

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

Signed Carla Hanberg

Title Office Supervisor

Date 7/16/90

(This space for Federal or State office use)

Approved by

Title

Date

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.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

U-49092

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

34-33-B

10. FIELD AND POOL, OR WILDCAT

Monument Butte

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

Sec. 33, T8S, R16E

12. COUNTY OR PARISH

Duchesne

13. STATE

Utah

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG\***

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

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

AUG 09 1990

2. NAME OF OPERATOR  
PG&E Resources Company

3. ADDRESS OF OPERATOR  
85 South 200 East, Vernal, UT 84078 801-789-4573

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 614' FSL, 1885' FEL SW/SE  
At top prod. interval reported below  
At total depth

14. PERMIT NO. 43-013-31269 DATE ISSUED 3/30/90

12. COUNTY OR PARISH Duchesne 13. STATE Utah

15. DATE SPUNDED 4/24/90 16. DATE T.D. REACHED 5/6/90 17. DATE COMPL. (Ready to prod.) 6/19/90 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 5696' GR 19. ELEV. CASINGHEAD 5696' GR

20. TOTAL DEPTH, MD & TVD 6400' 21. PLUG, BACK T.D., MD & TVD 6314' 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

25. WAS DIRECTIONAL SURVEY MADE No  
26. TYPE ELECTRIC AND OTHER LOGS RUN CDL-CSN-DLL-MGRD-CBL 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# K55         | 305'           | 12-1/4"   | 225 sx "G" + 2% CaCl <sub>2</sub> | None          |
| 5-1/2"      | 17# K55         | 6392'          | 7-7/8"    | 194 sx HiLift + 540 sx 10-0 RFC   | None          |

| 29. LINER RECORD |          |             |               |             | 30. TUBING RECORD Anchor |                |                 |
|------------------|----------|-------------|---------------|-------------|--------------------------|----------------|-----------------|
| SIZE             | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) | SIZE                     | DEPTH SET (MD) | PACKER SET (MD) |
|                  |          |             |               |             | 2-7/8"                   | 5969'          | 4920'           |

| 31. PERFORATION RECORD (Interval, size and number) |                          |  |  | 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. |                                  |
|--|--------------------------|--|--|--|----------------------------------|
|  |                          |  |  | DEPTH INTERVAL (MD)                            | AMOUNT AND KIND OF MATERIAL USED |
| 5919-25, 5887-96, 5879-84                          | All 4 spf<br>0.45" holes |  |  | 5879-5925                                      | 50000# 20/40, 38000# 16/30       |
| 5765-73, 5682-95, 5564-78                          |                          |  |  | 5682-5773                                      | 30600# 20/40, 46400# 16/30       |
| 5260-66, 5119-24, 5137-40                          |                          |  |  | 5564-5578                                      | 30100# 20/40, 39800# 16/30       |
| 5044-49, 5018-20, 4997-5007                        |                          |  |  | 5119-5266                                      | 31100# 20/40, 40900# 16/30       |
| 4959-73, 4948-52                                   |                          |  |  | 4948-5049                                      | 65100# 20/40, 85700# 16/30       |

33.\* DATE FIRST PRODUCTION 7/13/90 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing and pumping WELL STATUS (Producing or shut-in) Producing

DATE OF TEST 7/13/90 HOURS TESTED 28 CHOKER SIZE 21/64 PROD'N. FOR TEST PERIOD 580 OIL—BBL. 677 GAS—MCF. 249 WATER—BBL. 290 GAS-OIL RATIO 40

FLOW. TUBING PRESS. NA CASING PRESSURE 270 CALCULATED 24-HOUR RATE 580 OIL—BBL. 580 GAS—MCF. 249 WATER—BBL. 249 OIL GRAVITY-API (CORR.) 40

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented during test TEST WITNESSED BY Randy Miller

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 Michael L. McMican TITLE Production Supt. DATE 8/7/90

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

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):

38. GEOLOGIC MARKERS

| FORMATION   | TOP   | BOTTOM | DESCRIPTION, CONTENTS, ETC.   | NAME        | TOP         |                  |  |     |     |     |     |       |   |   |   |     |       |  |  |           |  |  |  |         |  |  |  |  |                                  |  |
|-------------|-------|--------|---|-------------|-------------|------------------|--|-----|-----|-----|-----|-------|---|---|---|-----|-------|--|--|-----------|--|--|--|---------|--|--|--|--|----------------------------------|--|
|             |       |        |   |             | MEAS. DEPTH | TRUE VERT. DEPTH |  |     |     |     |     |       |   |   |   |     |       |  |  |           |  |  |  |         |  |  |  |  |                                  |  |
|             |       |        | <div data-bbox="783 548 1232 857" data-label="Form" style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="4" style="text-align: center;">OIL AND GAS</td> </tr> <tr> <td style="text-align: center;">DFN</td> <td style="text-align: center;">RUF</td> <td style="text-align: center;">GLH</td> <td style="text-align: center;">SLS</td> </tr> <tr> <td style="text-align: center;">1 JFB</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> </tr> <tr> <td style="text-align: center;">DIS</td> <td colspan="3" style="text-align: center;">2 DME</td> </tr> <tr> <td colspan="4" style="text-align: center;">MICROFILM</td> </tr> <tr> <td colspan="4" style="text-align: center;">3. FILE</td> </tr> </table> </div> | OIL AND GAS |             |                  |  | DFN | RUF | GLH | SLS | 1 JFB | ✓ | ✓ | ✓ | DIS | 2 DME |  |  | MICROFILM |  |  |  | 3. FILE |  |  |  | Green River<br>D.C. Marker<br>Basal L.S.<br>T.D. | 1769'<br>4910'<br>6248'<br>6400' |  |
| OIL AND GAS |       |        |   |             |             |                  |  |     |     |     |     |       |   |   |   |     |       |  |  |           |  |  |  |         |  |  |  |  |                                  |  |
| DFN         | RUF   | GLH    | SLS   |             |             |                  |  |     |     |     |     |       |   |   |   |     |       |  |  |           |  |  |  |         |  |  |  |  |                                  |  |
| 1 JFB       | ✓     | ✓      | ✓   |             |             |                  |  |     |     |     |     |       |   |   |   |     |       |  |  |           |  |  |  |         |  |  |  |  |                                  |  |
| DIS         | 2 DME |        |   |             |             |                  |  |     |     |     |     |       |   |   |   |     |       |  |  |           |  |  |  |         |  |  |  |  |                                  |  |
| MICROFILM   |       |        |   |             |             |                  |  |     |     |     |     |       |   |   |   |     |       |  |  |           |  |  |  |         |  |  |  |  |                                  |  |
| 3. FILE     |       |        |   |             |             |                  |  |     |     |     |     |       |   |   |   |     |       |  |  |           |  |  |  |         |  |  |  |  |                                  |  |

CONFIDENTIAL

Form 3160-5  
(December 1989)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: September 30, 1990

RECEIVED  
AUG 09 1990

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals

15. Lease Designation and Serial No.  
19092  
Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

DIVISION OF  
OIL, GAS & MINING

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

PG&E Resources Company

3. Address and Telephone No.

85 South 200 East, Vernal, UT 84078 801-789-4573

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SW/SE Section 33, T8S, R16E - 614' FSL, 1885' FEL

7. If Unit or CA, Agreement Designation

8. Well Name and No.

34-33-B Federal

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43-013-31269

10. Field and Pool, or Exploratory Area

Monument Butte

11. County or Parish, State

Duchesne County, Utah

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TYPE OF SUBMISSION

Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

TYPE OF ACTION

Abandonment  
 Recompletion  
 Plugging Back  
 Casing Repair  
 Altering Casing  
 Other  
**Site Security**

Change of Plans  
 New Construction  
 Non-Routine Fracturing  
 Water Shut-Off  
 Conversion to Injection

(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.)\*

Attached is a Site Security Diagram for the subject well.

| OIL AND GAS |     |
|-------------|-----|
| DFN         | RJF |
| JFB         | GLH |
| DIS         | SLS |
| MICROFILM   |     |
| 2 - FILE    |     |

Copies: Div. Oil, Gas & Mining; SGoodrich; Central Files

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

Signed Mike McMillan

Title Production Supt.

Date 8/7/90

(This space for Federal or State office use)

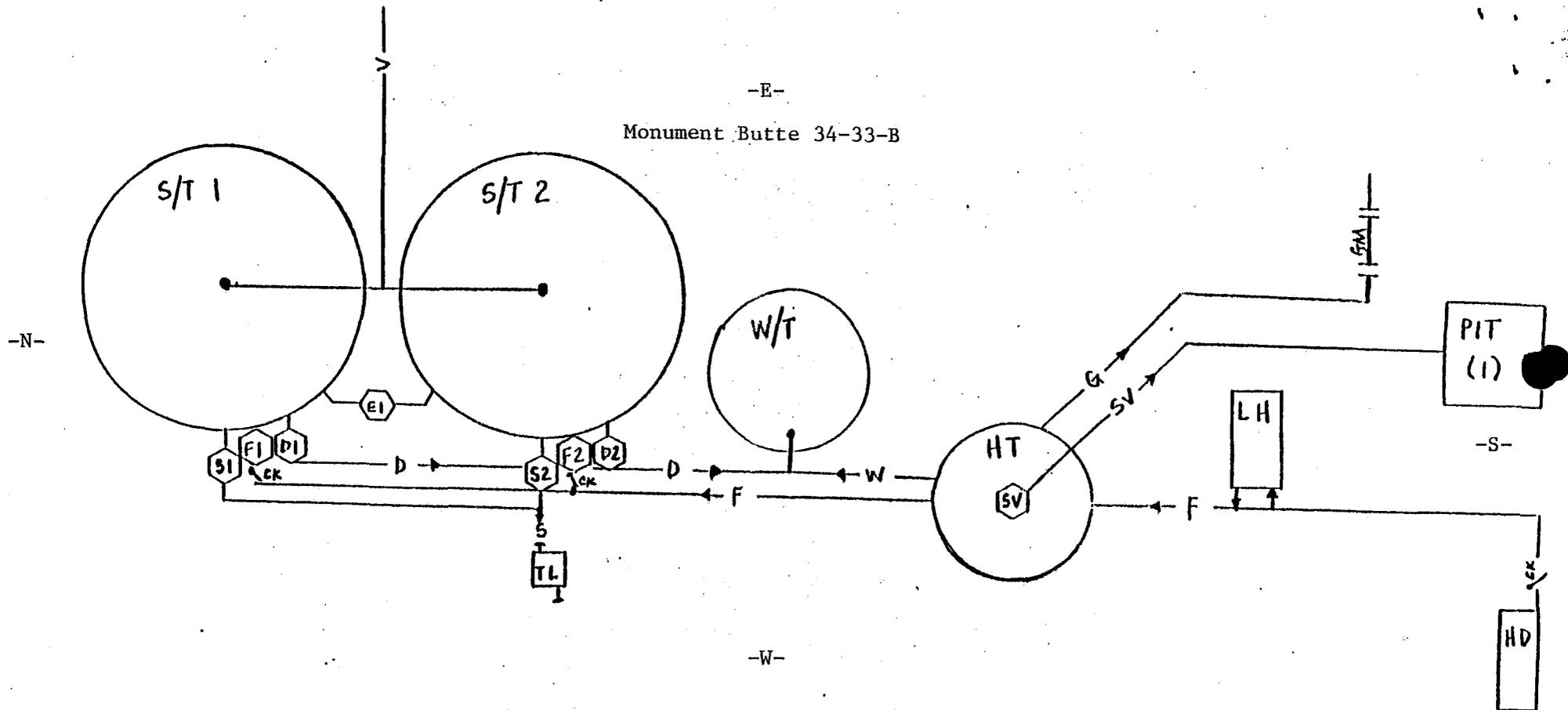
Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

Date \_\_\_\_\_

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



PG&E Resources Company  
 Lease #U-49092  
 SW/SE Section 33, T8S, R16E  
 Duchesne County, Utah

This well is subject to the Site Security Plan  
 for the northeast Utah operations. The plan is  
 located at PG&E Resources Company, 85 South 200  
 East, Vernal, UT 84078.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

*Confidential*

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: September 30, 1990

**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  
NOV 08 1990  
DIVISION OF  
OIL, GAS & MINING

5. Lease Designation and Serial No.  
U-49092

6. If Indian, Allottee or Tribe Name

Unit or CA, Agreement Designation

8. Well Name and No.  
34-33-B Federal

9. API Well No.  
43-013-31269

10. Field and Pool, or Exploratory Area  
Monument Butte

11. County or Parish, State  
Duchesne, Utah

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
PG&E Resources Company

3. Address and Telephone No.  
85 South 200 East, Vernal, UT 84078    801-789-4573

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
614' FSL, 1885' FEL SW/SE  
Section 33, T8S, R16E

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

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

NTL-2B  
(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.)\*

Operator proposes to dispose of produced water into an above-ground tank. The tank will be fiberglass with a capacity of about 100 bbls. Water from the tank will be taken by truck and disposed of at the Rooney Operating Disposal Well or the Dave Murray Disposal Pond.

Operator also proposes construction of an emergency pit to be 10' square at surface with 1:1 slopes, 5' deep and 10' square at bottom. This pit will be fenced and bermed and only used in emergency situations. Any liquids discharged to the pit will be removed within 48 hrs.

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

Date: 11-7-90  
By: [Signature]

Copies: Div. Oil, Gas & Mining; SGoodrich; Central Files

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

Signed [Signature] Title Production Superintendent Date 11/6/90

(This space for Federal or State office use)

Approved by Federal Approval of this Title Action is Necessary Date

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.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: September 30, 1990

**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

5. Lease Designation and Serial No.

U-49092

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

34-33-B

9. API Well No.

43-013-31269

10. Field and Pool, or Exploratory Area

Monument Butte

11. County or Parish, State

Duchesne, Utah

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well     Gas Well     Other

2. Name of Operator

PG&E Resources Company

3. Address and Telephone No.

85 South 200 East, Vernal, UT 84078 801-789-4573

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

614' FSL, 1885' FEL SW/SE  
Section 33, T8S, R16E

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

TYPE OF SUBMISSION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other
- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection

NTL-2B

(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.)\*

Operator proposes to dispose of produced water into an above-ground tank. The tank will be fiberglass with a capacity of about 100 bbls. Water from the tank will be taken by truck and disposed of at the Rooney Operating disposal well.

Accepted by the State  
of Utah Division of  
Oil, Gas and Mining  
Date: 9-28-93  
By: [Signature]

SEP 27 1993

DIVISION OF  
OIL, GAS AND MINING

Copies: Div. OG&M; SGoodrich; Central Files; JLaFevers

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

Signed

[Signature]

Title

Production Foreman

Date

9/23/93

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Federal Approval of this  
Action is Necessary

Title

Date

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.

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

PRODUCTION DEPT  
 PG&E RESOURCES COMPANY  
 6688 N CENTRAL EXP #1000  
 DALLAS TX 75206-3922

UTAH ACCOUNT NUMBER: N0595

REPORT PERIOD (MONTH/YEAR): 8 / 94

AMENDED REPORT  (Highlight Changes)

| Well Name     |                 |                  | Producing Zone | Well Status | Days Oper | Production Volumes |          |                        |
|---------------|-----------------|------------------|----------------|-------------|-----------|--------------------|----------|------------------------|
| API Number    | Entity          | Location         |                |             |           | OIL(BBL)           | GAS(MCF) | WATER(BBL)             |
| ✓             | FEDERAL 41-5-G  |                  |                |             |           | ✓                  | 1130096  | (wells draw GRRV Unit) |
|               | 4301331205      | 10859 09S 16E 5  | GRRV           |             |           |                    |          |                        |
| ✓             | FEDERAL 23-9-H  |                  |                |             |           | ✓                  | 1150750  |                        |
|               | 4301331206      | 10868 09S 17E 9  | GRRV           |             |           |                    |          |                        |
| ✓             | FEDERAL 24-33-B |                  |                |             |           | ✓                  | 1149092  | (wells draw GRRV Unit) |
|               | 4301331214      | 10913 08S 16E 33 | GRRV           |             |           |                    |          |                        |
| ✓             | FEDERAL 31-4-G  |                  |                |             |           | ✓                  | 1130096  | (wells draw GRRV Unit) |
|               | 4301331228      | 10979 09S 16E 4  | GRRV           |             |           |                    |          |                        |
| ✓             | FEDERAL 14-34-B |                  |                |             |           | ✓                  | 1147171  | (wells draw GRRV Unit) |
|               | 4301331225      | 10980 08S 16E 34 | GRRV           |             |           |                    |          |                        |
| ✓             | FEDERAL 14-33-B |                  |                |             |           | ✓                  | 1149092  | (wells draw GRRV Unit) |
|               | 4301331229      | 10988 08S 16E 33 | GRRV           |             |           |                    |          |                        |
| ✓             | FEDERAL 43-33-B |                  |                |             |           | ✓                  | "        | (wells draw GRRV Unit) |
|               | 4301331240      | 11007 08S 16E 33 | GRRV           |             |           |                    |          |                        |
| ✓             | FEDERAL 23-34-B |                  |                |             |           | ✓                  | 1147171  | (wells draw GRRV Unit) |
|               | 4301331241      | 11041 08S 16E 34 | GRRV           |             |           |                    |          |                        |
| ✓             | FEDERAL 11-4-G  |                  |                |             |           | ✓                  | 1130096  | (wells draw GRRV Unit) |
|               | 4301331250      | 11046 09S 16E 4  | GRRV           |             |           |                    |          |                        |
| ✓             | FEDERAL 23-33-B |                  |                |             |           | ✓                  | 1149092  | (wells draw GRRV Unit) |
|               | 4301331251      | 11047 08S 16E 33 | GRRV           |             |           |                    |          |                        |
| ✓             | FEDERAL 31-5-G  |                  |                |             |           | ✓                  | 1130096  | (wells draw GRRV Unit) |
|               | 4301331252      | 11054 09S 16E 5  | GRRV           |             |           |                    |          |                        |
| ✓             | FEDERAL 43-33-B |                  |                |             |           | ✓                  | 1149092  | (wells draw GRRV Unit) |
|               | 4301331269      | 11079 08S 16E 33 | GRRV           |             |           |                    |          |                        |
| ✓             | FEDERAL 44-33-B |                  |                |             |           | ✓                  | "        | (wells draw GRRV Unit) |
|               | 4301331270      | 11084 08S 16E 33 | GRRV           |             |           |                    |          |                        |
| <b>TOTALS</b> |                 |                  |                |             |           |                    |          |                        |

COMMENTS: \_\_\_\_\_

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

Date: \_\_\_\_\_

Name and Signature: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

DALEN Resources  
Oil & Gas Co.



October 5, 1994

OCT 11 1994

Lisha Romero  
State Oil & Gas Office  
3 Triad Center  
Salt Lake City, Utah 84180-1203

Re: Company Name Change

Dear Ms. Romero:

PG&E Resources Company changed its name to DALEN Resources Oil & Gas Co. We are requesting a blanket change for all of PG&E Resources Company's properties to:

DALEN Resources Oil & Gas Co.  
6688 N. Central Expressway, Suite 1000  
Dallas, Texas 75206-3922

This change is effective October 1, 1994 for all records and reports filed in all districts throughout the state of Utah. I have included a listing of our Utah properties.

Also enclosed is a copy of the Certificate of the Secretary of State of Delaware regarding the name change to DALEN Resources Oil & Gas Co.

If you have any questions regarding this matter, please contact me at (214) 706-3678.

Sincerely,

A handwritten signature in cursive script that reads "Jim Johnson".

Jim Johnson  
Regulatory Analyst

JJ/sw  
Enclosures

cc: Bureau of Land Management  
Vernal District Office  
170 South 500 East  
Vernal, Utah 84078

*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 OWNERSHIP, WHICH MERGES:

"PG&E RESOURCES OFFSHORE COMPANY", A DELAWARE CORPORATION, WITH AND INTO "PG&E RESOURCES COMPANY" UNDER THE NAME OF "DALEN RESOURCES OIL & GAS CO.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE NINETEENTH DAY OF SEPTEMBER, A.D. 1994, AT 1:30 O'CLOCK P.M.

A CERTIFIED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS FOR RECORDING.



  
\_\_\_\_\_  
*Edward J. Freel, Secretary of State*

2261176 8100M

944175519

AUTHENTICATION:

7242629

DATE:

09-19-94

**CERTIFICATE OF OWNERSHIP  
AND MERGER**

**MERGING**

**PG&E Resources Offshore Company  
a Delaware corporation**

**INTO**

**PG&E Resources Company  
a Delaware corporation**

**(Pursuant to Section 253 of the General Corporation  
Law of the State of Delaware)**

PG&E Resources Company, a corporation duly organized and existing under and by virtue of the General Corporation Law of the State of Delaware ("Resources"), does hereby certify:

**FIRST:** That Resources and PG&E Resources Offshore Company ("Offshore") are corporations duly organized and existing under and by virtue of the General Corporation Law of the State of Delaware.

**SECOND:** That Resources owns all of the outstanding shares of the capital stock of Offshore.

**THIRD:** That the board of directors of Resources adopted the following resolutions by unanimous written consent on September 16, 1994, and that such resolutions have not been rescinded and are in full force and effect on the date hereof:

**"RESOLVED,** that PG&E Resources Offshore Company, a Delaware corporation ("Offshore"), which is a wholly-owned subsidiary of Resources, merge with and into Resources pursuant to Section 253 of the General Corporation Law of the State of Delaware (the "Merger"), effective as of 9:00 A.M., Wilmington, Delaware time, on October 1, 1994, and that Resources assume all of the obligations of Offshore at such time;

**RESOLVED,** that upon the effective time of the Merger the name of the surviving corporation shall be changed to "DALEN Resources Oil & Gas Co."; and

**RESOLVED,** that the President or any Vice President of Resources are hereby authorized and empowered to file with the Secretary of State of the State of Delaware a certificate of ownership and merger to effect the Merger and the name change of the surviving corporation, and the appropriate officers of Resources are hereby authorized to incur the necessary expenses therefor and to take, or cause to be taken, all such further action and to execute and deliver

or cause to be executed and delivered, in the name of and on behalf of Resources, all such further instruments and documents as any such officer may deem to be necessary or advisable in order to effect the purpose and intent of the foregoing resolutions and to be in the best interests of Resources (as conclusively evidenced by the taking of such action or the execution and delivery of such instruments and documents, as the case may be, by or under the direction of any such officer)."

FOURTH: This Certificate shall not be effective upon its filing date, but shall become effective at 9:00 A.M., Wilmington, Delaware time, on October 1, 1994 (the "Effective Date").

FIFTH: Upon the Effective Date, the name of the surviving corporation shall be changed to "DALEN Resources Oil & Gas Co."

IT WITNESS WHEREOF, Resources has caused this Certificate to be signed by its duly authorized officer this 19th day of September 1994.

PG&E RESOURCES COMPANY

By Joseph T. Williams  
Name: Joseph T. Williams  
Title: President

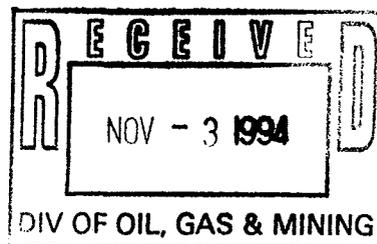
DALEN Resources  
Oil & Gas Co.



October 31, 1994

Kent E. Johnson  
Vice President  
Exploration/Development

STATE OF UTAH NATURAL RESOURCES  
OIL & GAS MINING  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
Attn: Gil Hunt



Re: Name Change  
PG&E Resources Company

Gentlemen:

Effective October 1, 1994, PG&E Resources Company (PG&ER) changed its name to **DALEN Resources Oil & Gas Co.** As a result of this action, all activities previously conducted in the name of PG&E Resources Company will subsequently be conducted by **DALEN Resources Oil & Gas Co.** No changes in ownership, personnel, office address, telephone numbers, or business practices were caused by this name change.

Please revise your records by replacing PG&E Resources Company or PG&E Resources Offshore Company with **DALEN Resources Oil & Gas Co.**

Very truly yours,

A handwritten signature in cursive script that reads "John R. Wingert".

John R. Wingert  
Exploration Manager  
Northern Division

JRW:lkd

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

1994  
DIV OF OIL, GAS & MINING

Well name and number: Federal #34-33B  
Field or Unit name: Monument Butte Field API no. 43-013-31269  
Well location: QQ SW SE section 33 township 8S range 16E county Duchesne  
Effective Date of Transfer: 10/1/94

**CURRENT OPERATOR**

Transfer approved by:

Name Jim Johnson Company PG&E Resources Company  
Signature *Jim Johnson* Address 6688 N. Central Expwy, Suite 1000  
Title Regulatory Analyst Dallas, Texas 75206-3922  
Date November 30, 1994 Phone ( 214 ) 706-3678

Comments: PG&E Resources Company changed its name to DALEN Resources Oil & Gas Co. effective 10/1/94.

**NEW OPERATOR**

Transfer approved by:

Name Jim Johnson Company DALEN Resources Oil & Gas Co.  
Signature *Jim Johnson* Address 6688 N. Central Expwy, Suite 1000  
Title Regulatory Analyst Dallas, Texas 75206-3922  
Date November 30, 1994 Phone ( 214 ) 706-3678

Comments:

(State use only)  
Transfer approved by: *[Signature]* Title *Superior Manager*  
Approval Date *12-6-94* *Conservation letter 1-31-94*

Bureau of Land Management  
Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

3100  
U-01470A  
(UT-923)

NOV 29 1994

CERTIFIED MAIL---Return Receipt Requested

DECISION

DALEN Resources Oil & Gas Co. :  
6688 N. Central Expwy., #1000 : Oil and Gas  
Dallas, Texas 75206 : U-01470A et al

Corporate Name Change Recognized

Acceptable evidence has been received in this office concerning the change of name of PG&E Resources Company to DALEN Resources Oil & Gas Co. on Federal oil and gas leases.

The oil and gas lease files identified on the enclosed exhibit have been noted as to the name change. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the name change by a copy of this decision. If additional documentation for changes of operator are required by our field offices, you will be contacted by them.

A rider to the Nationwide Bond No. U1870111 (BLM Bond No. WY2554) has been filed in the Wyoming State Office, in order to change the name of the principal on the bond. It has been examined and found to be satisfactory by that office.

/s/ ROBERT LOPEZ

Chief, Minerals  
Adjudication Section

Enclosure  
Exhibit

bc: Moab District Office w/encl.  
Vernal District Office w/encl.  
MMS-Data Management Division, Denv  
UT-922 (Teresa Thompson) w/encl.

|  |               |              |               |
|--|---------------|--------------|---------------|
| Post-It™ brand fax transmittal memo 7671 |               | # of pages ▶ | 2             |
| To                                       | LISHA CARDONA | From         | CHRIS MERRITT |
| Co.                                      | STATE OF UTAH | Co.          | BLM           |
| Dept.                                    | OIL & GAS     | Phone #      | 539-4109      |
| Fax #                                    | 359-3940      | Fax #        | 539-4260      |

List of Leases Affected

|            |           |           |               |
|------------|-----------|-----------|---------------|
| U-01470A   | U-6632    | UTU-65615 | UTU-68631     |
| U-01790    | U-6634    | UTU-66004 | UTU-69024     |
| U-02896A   | U-7206    | UTU-66027 | UTU-69166     |
| U-03505    | U-10291   | UTU-66033 | UTU-69482     |
| U-03576    | U-10760   | UTU-66184 | UTU-69744     |
| U-013429A  | U-11385   | UTU-66185 | UTU-72104     |
| U-013765   | U-12942   | UTU-66187 | UTU-73087     |
| U-013766   | U-13905   | UTU-66193 | UTU-73089     |
| U-013767   | U-14236   | UTU-66484 | UTU-73433     |
| U-013769   | U-15392   | UTU-66743 | UTU-73512     |
| U-013769A  | U-16172   | UTU-67168 | U-47453 ROW   |
| U-013769B  | U-16535   | UTU-67841 | U-49204 ROW   |
| U-013769C  | U-16539   | UTU-67857 | U-49205 ROW   |
| U-013792   | U-16544   | UTU-67996 | U-49223 ROW   |
| U-013793   | U-17036   | UTU-67997 | U-49236 ROW   |
| U-013793A  | U-17424   | UTU-68108 | U-49243 ROW   |
| U-013794   | U-19267   | UTU-68109 | U-50487 ROW   |
| U-013818A  | U-30096   | UTU-68316 | U-50488 ROW   |
| U-013820   | U-39221   | UTU-68328 | U-50497 ROW   |
| U-013821A  | U-39713   | UTU-68330 | U-50806 ROW   |
| U-017713   | U-39714   | UTU-68338 | U-50809 ROW   |
| U-035316   | U-40026   | UTU-68346 | U-50825 ROW   |
| U-037164   | U-46825   | UTU-68347 | U-50833 ROW   |
| U-0141644  | U-47171   | UTU-68348 | U-53910 ROW   |
| U-0143519  | U-49092   | UTU-68388 | U-54803 ROW   |
| U-0143520A | U-50750   | UTU-68402 | U-61946 ROW   |
| U-0143521A | U-52765   | UTU-68544 | U-63969 ROW   |
| U-0147541  | U-55626   | UTU-68548 | UTU-69111 ROW |
| U-0147541A | U-58546   | UTU-68619 |               |
| U-2838     | U-61052   | UTU-68624 |               |
| U-6610     | U-61189   | UTU-68625 |               |
| U-6612     | U-62657   | UTU-68626 |               |
| U-6615     | UTU-65218 | UTU-68627 |               |

U-034217A \*Confirmed Btm/SL  
11-29-94. Lee

UTAH WELLS

8/24/94

| WELL NAME                     | LOCATION  | SEC-TWNSHIP-RANGE | COUNTY   | LEASE NUMBER | API NO.      |
|-------------------------------|-----------|-------------------|----------|--------------|--------------|
| ✓ Federal #23-33-B            | NE/4 SW/4 | 33-8S-16E         | Duchesne | U-49092      | 43-013-31251 |
| ✓ Federal #31-5-G             | NW/4 NE/4 | 5-9S-16E          | Duchesne | U-30096      | 43-013-31252 |
| ✓ Federal #33-33-B            | NW/4 SE/4 | 33-8S-16E         | Duchesne | U-49092      | 43-013-31268 |
| ✓ Federal #34-33-B            | SW/4 SE/4 | 33-8S-16E         | Duchesne | U-49092      | 43-013-31269 |
| ✓ Federal #44-33-B            | SE/4 SE/4 | 33-8S-16E         | Duchesne | U-49092      | 43-013-31270 |
| ✓ Federal #13-34-B            | NW/4 SW/4 | 34-8S-16E         | Duchesne | U-47171      | 43-013-31271 |
| ✓ Federal #21-4-G             | NE/4 NW/4 | 4-9S-16E          | Duchesne | U-30096      | 43-013-31272 |
| ✓ Federal #22-5-G             | SE/4 NW/4 | 5-9S-16E          | Duchesne | U-30096      | 43-013-31273 |
| ✓ Federal #13-33-B            | NW/4 SE/4 | 33-8S-16E         | Duchesne | U-49092      | 43-013-31277 |
| ✓ Castle Peak Federal #43-5-G | NE/4 SE/4 | 5-9S-16E          | Duchesne | U-134217A    | 43-013-30858 |
| ✓ Federal #33-36              | NW/4 SE/4 | 36-11S-14E        | Duchesne |              | 43-013-30486 |



**DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM**

**PERMIT  
DECISION DOCUMENT**

**Applicant:** PG&E Resources      **Location:** Wells Draw Waterflood Project

**Wells:** Federal 41-5G, 14-33B, 34-33B, 14-34B, 32-5G, 43-33B, 21-4G

**Ownership Issues:** The proposed project is located in sections 33 and 34, township 8 south, range 16 east, and sections 4 and 5 of township 9 south range 16 east Duchesne County, Utah. Surface ownership within the 1/2 mile area is held by the BLM and the State of Utah. All of the wells are located on Federal land. Mineral interests are held by private individuals, the State of Utah, and the federal government. PG&E Resources has submitted an affidavit stating that a copy of UIC form 1 was sent as notice to all surface owners and operators within a 1/2 mile radius of each of the proposed injection wells.

**Well Integrity:** The seven wells proposed for conversion to injection all have surface casing set at approximately 300 feet  $\pm$  30 feet, and were all cemented to surface. Production casing was set at a depth of approximately 6000 feet - 6500 feet, and were all cemented above the injection zone. Cement bond logs are on file with the Division and verify reported cement tops. The interval from 4352-6282 feet (Green River Formation) has been perforated for water injection. A 2 7/8 inch tubing with a packer will be set above the perforations for injection of water. There are 15 producing wells in the 1/2 mile area of review. All wells in the AOR have sufficient cement behind the production string and have adequate surface casing to prevent migration of fluid up the hole. At the time of conversion the casing will be pressure tested. Casing/tubing annulus pressure will be monitored on a daily basis and reported on a monthly basis thereafter. Additional casing pressure tests shall be run every five years or whenever the tubing and packer assemblies are pulled for workover purposes.

**Ground Water Protection:** The base of moderately saline water in the area of the project is at a depth of approximately 200-300 feet. Each of the injection wells and offset producing wells have adequate surface casing and sufficient cement on the production casing to protect fresh water. The submitted fracture pressure for the field is .82 psi/ft resulting in a maximum allowed surface pressure of 2145 psi. Injection pressures for each of the injectors will be maintained below the fracture pressure so as not to initiate fractures in the overlying strata. The confining intervals above and below the injection zone consists of tight shales, siltstones and limestones of the Green River Formation. Water analysis indicate that the TDS of injection zone is greater than 10,000 TDS.

**Oil/Gas & Other Mineral Resources Protection:** PG&E Resources is in the process of forming a federal waterflood unit. All interested parties have been notified. The Division

does have concerns as to some of the intervals that are perforated for injection. In reviewing cross sections submitted by PGE it appears that a number of perforated intervals in the injection wells are not perforated in the offset producing wells. An additional concern is that offset acreage which may be laterally continuous with the flooded zones has been excluded from the project. These concerns need to be addressed when PGE presents information to the board.

**Bonding:** PG&E Resources is the operator of all wells within the project and is bonded by the Federal Government.

**Actions Taken and Further Approvals Needed:** A public notice needs to be published in both the Salt Lake Tribune and the Uinta Basin Standard. Board approval of the project needs to be obtained and BLM approval of the unit is needed. The applications for the injection wells are technically complete. A compatibility analysis needs to be submitted. A casing pressure test needs to be conducted when the well is converted and a casing/tubing pressure test run prior to injection. A step rate test should be run once the wells have injected and stabilized to verify fracture gradient information.

DJJ  
Reviewers

11-30-93  
Date

INJECTION WELL APPLICATION

REVIEW SUMMARY

Applicant: PGE Resources Wells: Fed. 41-5G,14-33B,34-33B  
14-34B,32-5G,43-33B,21-4G

Location: section 33,34,4,5 township 8&9South range 16&17East

API #: \_\_\_\_\_ Well Type: disp.  enhanced recov.

If enhanced recovery has project been approved by the Board ? No

Lease Type: Federal Surface Ownership: BLM

Field: Wells Draw Unit: Wells Draw Indian Country: No

UIC Form 1: Yes Plat: Yes Wells in AOR: 15 Producing

Logs Available: Yes Bond Log: Yes

Casing Program: Adequate(see decision document

Integrity Test: To be run at conversion

Injection Fluid: Fresh water from Balcron

Geologic Information: Green River-Douglas Creek injection interval

Analyses of Injection Fluid: No Formation Fluid: Yes Compat. No

Fracture Gradient Information: .82 psig/ft Parting Pressure  
2145 psi

Affidavit of Notice to Owners: Yes

Fresh Water Aquifers in Area: no significant aquifers

Depth Base of Moderately Saline Water: 300 ft

Confining Interval: silts,shales and limes of Green River

Reviewer: D.Jarvis Date: 11-23,30-93

Comments & Recommendation Application is technically complete, an

analysis of the fresh water and a compatibility test are needed and will be submitted. An MIT will be conducted at the time of conversion. A step rate test will be run when project is operational and the wells have stabilized. A maximum pressure of 2145 psi can be permitted until a step rate test is run.

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

---ooOoo---

|                                     |   |                         |
|-------------------------------------|---|-------------------------|
| IN THE MATTER OF THE APPLICATION    | : | NOTICE OF AGENCY ACTION |
| OF PG & E RESOURCES COMPANY FOR     | : |                         |
| ADMINISTRATIVE APPROVAL OF THE      | : | CAUSE NO. UIC-141       |
| FEDERAL 41-5G, FEDERAL 14-33B,      | : |                         |
| FEDERAL 34-33B, FEDERAL 14-34B,     | : |                         |
| FEDERAL 32-5G, FEDERAL 43-33B,      | : |                         |
| & FEDERAL 21-4G WELLS LOCATED IN    | : |                         |
| SECTIONS 33 & 34, TOWNSHIP 8 SOUTH, | : |                         |
| RANGE 16 EAST, AND SECTIONS 4 & 5,  | : |                         |
| TOWNSHIP 9 SOUTH, RANGE 16 EAST,    | : |                         |
| S.L.M., DUCHESNE COUNTY, UTAH, AS   | : |                         |
| CLASS II INJECTION WELLS            | : |                         |

---ooOoo---

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

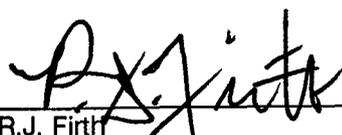
Notice is hereby given that the Division is commencing an informal adjudicative proceeding to consider the application of PG & E Resources Company for administrative approval of the Federal 41-5G, Federal 14-33B, Federal 34-33B, Federal 14-34B, Federal 32-5G, Federal 43-33B, and Federal 21-4G Wells, located in Sections 33 & 34, Township 8 South, Range 16 East, and Sections 4 & 5, Township 9 South, Range 16 East, Duchesne County, Utah, for conversion to Class II injection wells. The proceeding will be conducted in accordance with Utah Admin. R.649-10, Administrative Procedures.

Approval has been requested to inject water for the purpose of water flooding in the interval from 4352 feet to 6282 feet (Green River Formation). The average injection pressure is estimated to be 2000 psig or less with a maximum requested injection pressure of 2145 psig. The estimated injection volume will be approximately 400 barrels of water per day.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days of the date of publication of this notice. If such a protest or notice of intervention is received, a hearing may be scheduled before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

DATED this 1st day of December, 1993.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

  
\_\_\_\_\_  
R.J. Firth  
Associate Director, Oil and Gas

**PG & E Resources Company  
Federal 41-5G, Federal 14-33B, Federal 34-33B,  
Federal 14-34B, Federal 32-5G, Federal 43-33B, & Federal 21-4G Wells  
Cause No. UIC-141**

Publication Notices were sent to the following:

Newspaper Agency Corporation  
Legal Advertising  
157 Regent Street  
Salt Lake City, Utah 84110

Uintah Basin Standard  
268 South 200 East  
Roosevelt, Utah 84066

Bureau of Land Management  
Vernal District Office  
170 South 500 East  
Vernal, Utah 84078

PG & E Resources Company  
6688 N. Central Expressway, #1000  
Dallas, Texas 75206-3922

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



---

Lisa D. Clement  
Administrative Secretary  
December 2, 1993



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor  
Ted Stewart  
Executive Director  
James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

December 2, 1993

Uintah Basin Standard  
268 South 200 East  
Roosevelt, Utah 84066

Gentlemen:

Re: Notice of Agency Action - Cause No. UIC-141

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

A handwritten signature in cursive script that reads "Lisa D. Clement".

Lisa D. Clement  
Administrative Secretary

Enclosure  
WOI168



November 30, 1993

State of Utah Dept. of Natural Resources  
Division of Oil, Gas and Mining  
Underground Injection Control Section  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203



Attention: Mr. Dan Jarvis

RE: Application for Water Injection  
Wells Draw Waterflood Unit  
Duchesne County, Utah

Dear Mr. Jarvis:

In reference to our telephone conversation on November 29, 1993, this letter represents the second addendum to the referenced UIC application dated November 22, 1993. We have researched our records and have determined that the frac gradient should be .82 psi/ft. in the Green River formation based on the following data:

1. Green River Wells - operated by PG&E Resources

- a. ISIP 2300 psi
- b. ISIP 2800 psi
- c. ISIP 1722 psi
- d. ISIP 1700 psi

2. Average ISIP 2131 psi

3. Frac Gradient:

$$\begin{aligned} \text{ISIP} &= 2131 \text{ psi} \\ \text{HHD} &= 5500' \times .432 \text{ psi/ft.} = 2382 \text{ psi} \\ \text{Frac Gradient} &= \frac{2131\# + 2382\#}{5500'} = .82 \text{ psi/ft.} \end{aligned}$$

If you have any questions or need additional information, please contact the undersigned at (214) 706-3640 or Jim LaFevers at (214) 750-3988.

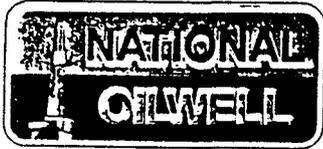
Sincerely,

Cindy R. Keister  
Sr. Regulatory Analyst

cc: S. Gilbert  
J. LaFevers  
Central File  
Regulatory File

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DEC 02 1993



P.O. BOX 1532

ROOSEVELT, UTAH 84066

OFFICE: (801) 722-3693

DIVISION OF OIL, GAS & MINING

# WATER ANALYSIS REPORT

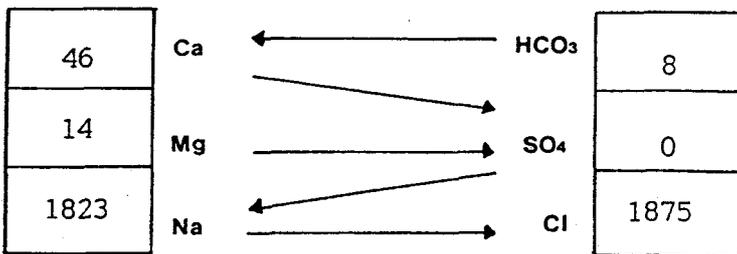
COMPANY P G & E ADDRESS \_\_\_\_\_ DATE: 12-01-89

SOURCE 14-34B DATE SAMPLED 11-30-89 ANALYSIS NO. \_\_\_\_\_

| Analysis   | Mg/L (ppm)                  | *Meq/L                        |
|--|-----------------------------|-------------------------------|
| 1. pH  | <u>6.4</u>                  |                               |
| 2. H <sub>2</sub> S (Qualitative)                | <u>0</u>                    |                               |
| 3. Specific Gravity                              | <u>1.076</u>                |                               |
| 4. Dissolved Solids                              | <u>110,035</u>              |                               |
| 5. Suspended Solids                              |                             |                               |
| 6. Anaerobic Bacterial Count                     | <u>CI</u>                   | <u>C/MI</u>                   |
| 7. (Methyl Orange) Alkalinty (HCO <sub>3</sub> ) | <u>380</u>                  |                               |
| 8. Bicarbonate (HCO <sub>3</sub> )               | HCO <sub>3</sub> <u>464</u> | +61 <u>8</u> HCO <sub>3</sub> |
| 9. Chlorides (Cl)                                | Cl <u>66,552</u>            | +35.5 <u>1875</u> Cl          |
| 10. Sulfates (SO <sub>4</sub> )                  | SO <sub>4</sub> <u>0</u>    | +48 <u>0</u> SO <sub>4</sub>  |
| 11. Calcium (Ca)                                 | Ca <u>920</u>               | +20 <u>46</u> Ca              |
| 12. Magnesium (Mg)                               | Mg <u>170</u>               | +12.2 <u>14</u> Mg            |
| 13. Total Hardness (CaCO <sub>3</sub> )          | <u>3000</u>                 |                               |
| 14. Total Iron (Fe)                              | <u>120</u>                  |                               |
| 15. Barium (Ba)                                  |                             |                               |
| 16. Phosphate Residuals                          |                             |                               |

\*Milli equivalents per liter

## PROBABLE MINERAL COMPOSITION



| Compound                            | Equiv. Wt. | X | Meq/L | = | Mg/L    |
|-------------------------------------|------------|---|-------|---|---------|
| Ca (HCO <sub>3</sub> ) <sub>2</sub> | 81.04      |   | 8     |   | 648     |
| Ca SO <sub>4</sub>                  | 68.07      |   |       |   |         |
| Ca Cl <sub>2</sub>                  | 55.50      |   | 38    |   | 2109    |
| Mg (HCO <sub>3</sub> ) <sub>2</sub> | 73.17      |   |       |   |         |
| Mg SO <sub>4</sub>                  | 60.19      |   |       |   |         |
| Mg Cl <sub>2</sub>                  | 47.62      |   | 14    |   | 667     |
| Na HCO <sub>3</sub>                 | 84.00      |   |       |   |         |
| Na SO <sub>4</sub>                  | 71.03      |   |       |   |         |
| Na Cl                               | 58.46      |   | 1823  |   | 106,573 |

Saturation Values Distilled Water 20°C

|  |            |
|--|------------|
| Ca CO <sub>3</sub>                     | 13 Mg/L    |
| Ca SO <sub>4</sub> - 2H <sub>2</sub> O | 2,090 Mg/L |
| Mg CO <sub>3</sub>                     | 103 Mg/L   |

REMARKS Resistivity = .14 Ohms / meter



A Procter & Gamble Co.

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DEC 02 1993

P.O. BOX 1898  
CORNICANA, TX. 75151

OFFICE:  
TEL: 214/872-3011  
FAX: 214/872-4216

PLANT:  
TEL: 214/874-9500  
FAX: 214/874-9596

DIVISION OF  
OIL, GAS & MINING

# WATER ANALYSIS REPORT

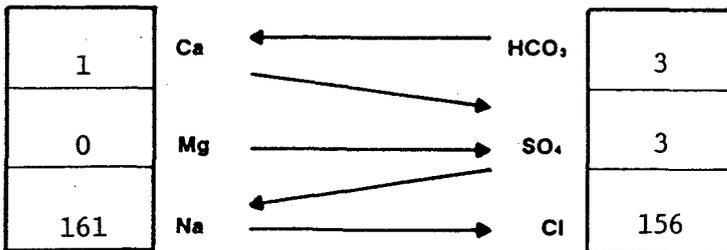
COMPANY P.G. & E. ADDRESS Vernal, UT. DATE: 10-31-90

SOURCE 21-4 DATE SAMPLED \_\_\_\_\_ ANALYSIS NO. \_\_\_\_\_

| Analysis   | Mg/l (ppm)           | *Meq/l                 |
|--|----------------------|------------------------|
| 1. PH  | 8.0                  |                        |
| 2. H <sub>2</sub> S (Qualitative)                | .5                   |                        |
| 3. Specific Gravity                              | 1.014                |                        |
| 4. Dissolved Solids                              | 9,618                |                        |
| 5. Suspended Solids                              |                      |                        |
| 6. Anaerobic Bacterial Count                     |                      | C/MI                   |
| 7. Methyl Orange Alkalinity (CaCO <sub>3</sub> ) |                      |                        |
| 8. Bicarbonate (HCO <sub>3</sub> )               | HCO <sub>3</sub> 207 | ÷61 3 HCO <sub>3</sub> |
| 9. Chlorides (Cl)                                | Cl 5,529             | ÷35.5 156 Cl           |
| 10. Sulfates (SO <sub>4</sub> )                  | SO <sub>4</sub> 150  | ÷48 3 SO <sub>4</sub>  |
| 11. Calcium (Ca)                                 | Ca 24                | ÷20 1 Ca               |
| 12. Magnesium (Mg)                               | Mg 5                 | ÷12.2 0 Mg             |
| 13. Total Hardness (CaCO <sub>3</sub> )          | 80                   |                        |
| 14. Total Iron (Fe)                              | 2.6                  |                        |
| 15. Barium (Qualitative)                         |                      |                        |
| 16. Phosphate Residuals                          |                      |                        |

\*Milli equivalents per liter

## PROBABLE MINERAL COMPOSITION



| Saturation Values                      | Distilled Water 20°C |
|--|----------------------|
| Ca CO <sub>3</sub>                     | 13 Mg/l              |
| Ca SO <sub>4</sub> · 2H <sub>2</sub> O | 2,090 Mg/l           |
| Mg CO <sub>3</sub>                     | 103 Mg/l             |

| Compound                            | Equiv. Wt. | X | Meq/l | = | Mg/l  |
|-------------------------------------|------------|---|-------|---|-------|
| Ca (HCO <sub>3</sub> ) <sub>2</sub> | 81.04      |   | 1     |   | 81    |
| Ca SO <sub>4</sub>                  | 68.07      |   |       |   |       |
| Ca Cl <sub>2</sub>                  | 55.50      |   |       |   |       |
| Mg (HCO <sub>3</sub> ) <sub>2</sub> | 73.17      |   |       |   |       |
| Mg SO <sub>4</sub>                  | 60.19      |   |       |   |       |
| Mg Cl <sub>2</sub>                  | 47.62      |   |       |   |       |
| Na HCO <sub>3</sub>                 | 84.00      |   | 2     |   | 168   |
| Na <sub>2</sub> SO <sub>4</sub>     | 71.03      |   | 3     |   | 243   |
| Na Cl                               | 58.46      |   | 156   |   | 9,120 |

REMARKS \_\_\_\_\_



**Jetco  
Chemicals,  
Inc.**

DEC 02 1993

DIVISION OF

A Procter & Gamble Co.

P.O. BOX-1898  
OFFICE: 214/872-3011

CORSICANA, TEXAS 75110

PLANT: 214/874-3706  
(U.S.): 800/527-2510

TWX: 910/860-5100  
(TX) 800/442-6261

## WATER ANALYSIS REPORT

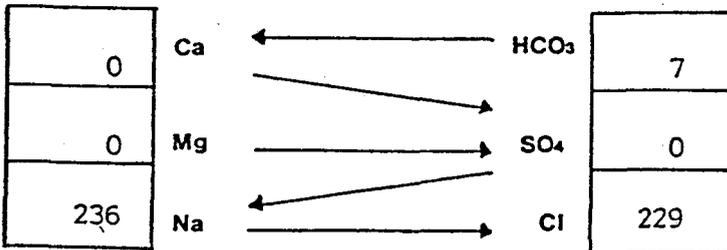
COMPANY N.G.C. Corp. ADDRESS Vernal, UT 84078 DATE: 1-22-88

SOURCE 32-5G DATE SAMPLED 1-20-88 ANALYSIS NO. \_\_\_\_\_

|  | Analysis | Mg/l (ppm) | *Meq/l                    |
|--|----------|------------|---------------------------|
| 1. pH  | 8.8      |            |                           |
| 2. H <sub>2</sub> S (Qualitative)                  | 0        |            |                           |
| 3. Specific Gravity                                | 1.007    |            |                           |
| 4. Dissolved Solids                                |          | 13,932     |                           |
| 5. Suspended Solids                                |          |            |                           |
| 6. Anaerobic Bacterial Count                       |          |            | C/MI                      |
| 7. (Phenolphthalein) Alkalinity (CO <sub>3</sub> ) |          |            |                           |
| 8. (Methyl Orange) Alkalinity (HCO <sub>3</sub> )  |          | 350        |                           |
| 9. Bicarbonate (HCO <sub>3</sub> )                 |          | 427        | +61 7 HCO <sub>3</sub>    |
| 10. Sulfates (SO <sub>4</sub> )                    |          | 0          | +48 0 Cl                  |
| 11. Chlorides (Cl)                                 |          | 8,142      | +35.5 229 SO <sub>4</sub> |
| 12. Calcium (Ca)                                   |          | 2          | +20 0 Ca                  |
| 13. Magnesium (Mg)                                 |          | 71         | +12.2 6 Mg                |
| 14. Total Hardness (CaCO <sub>3</sub> )            |          | 300        |                           |
| 15. Total Iron (Fe)                                |          | 12         |                           |
| 16. Barium (Ba)                                    |          |            |                           |
| 17. Phosphate Residuals                            |          |            |                           |

\*Milli equivalents per liter

### PROBABLE MINERAL COMPOSITION



| Compound                            | Equiv. Wt. | X | Meq/l | = | Mg/l   |
|-------------------------------------|------------|---|-------|---|--------|
| Ca (HCO <sub>3</sub> ) <sub>2</sub> | 81.04      |   |       |   |        |
| Ca SO <sub>4</sub>                  | 68.07      |   |       |   |        |
| Ca Cl <sub>2</sub>                  | 55.50      |   |       |   |        |
| Mg (HCO <sub>3</sub> ) <sub>2</sub> | 73.17      |   | 6     |   | 439    |
| Mg SO <sub>4</sub>                  | 60.19      |   |       |   |        |
| Mg Cl <sub>2</sub>                  | 47.62      |   |       |   |        |
| Na HCO <sub>3</sub>                 | 84.00      |   | 1     |   | 84     |
| Na SO <sub>4</sub>                  | 71.03      |   | 0     |   |        |
| Na Cl                               | 58.46      |   | 229   |   | 13,387 |

**Saturation Values**

**Distilled Water 20°C**

|  |            |
|--|------------|
| Ca CO <sub>3</sub>                     | 13Mg/l     |
| Ca SO <sub>4</sub> · 2H <sub>2</sub> O | 2,090 Mg/l |
| Mg CO <sub>3</sub>                     | 103 Mg/l   |

REMARKS \_\_\_\_\_



A Procter & Gamble Co.

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DEC 02 1993

P.O. BOX 1898  
CORSIKANA, TX. 75151

OFFICE:  
TEL: 214/872-3011  
FAX: 214/872-4216

PLANT:  
TEL: 214/874-9500  
FAX: 214/874-9596

DIVISION OF  
OIL, GAS & MINING

# WATER ANALYSIS REPORT

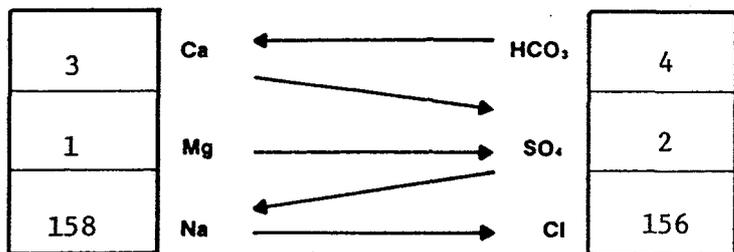
COMPANY P.G. & E. ADDRESS Vernal, UT. DATE: 10-31-90

SOURCE 34-33 DATE SAMPLED \_\_\_\_\_ ANALYSIS NO. \_\_\_\_\_

| Analysis   | Mg/l (ppm)                  | *Meq/l                               |
|--|-----------------------------|--------------------------------------|
| 1. PH  | <u>7.7</u>                  |                                      |
| 2. H <sub>2</sub> S (Qualitative)                | <u>4.5</u>                  |                                      |
| 3. Specific Gravity                              | <u>1.015</u>                |                                      |
| 4. Dissolved Solids                              | <u>9,559</u>                |                                      |
| 5. Suspended Solids                              |                             |                                      |
| 6. Anaerobic Bacterial Count                     |                             | <u>_____</u> C/MI                    |
| 7. Methyl Orange Alkalinity (CaCO <sub>3</sub> ) |                             |                                      |
| 8. Bicarbonate (HCO <sub>3</sub> )               | HCO <sub>3</sub> <u>220</u> | <u>÷61</u> <u>4</u> HCO <sub>3</sub> |
| 9. Chlorides (Cl)                                | Cl <u>5,529</u>             | <u>÷35.5</u> <u>156</u> Cl           |
| 10. Sulfates (SO <sub>4</sub> )                  | SO <sub>4</sub> <u>100</u>  | <u>÷48</u> <u>2</u> SO <sub>4</sub>  |
| 11. Calcium (Ca)                                 | Ca <u>64</u>                | <u>÷20</u> <u>3</u> Ca               |
| 12. Magnesium (Mg)                               | Mg <u>12</u>                | <u>÷12.2</u> <u>1</u> Mg             |
| 13. Total Hardness (CaCO <sub>3</sub> )          | <u>220</u>                  |                                      |
| 14. Total Iron (Fe)                              | <u>.4</u>                   |                                      |
| 15. Barium (Qualitative)                         |                             |                                      |
| 16. Phosphate Residuals                          |                             |                                      |

\*Milli equivalents per liter

## PROBABLE MINERAL COMPOSITION



| Compound                            | Equiv. Wt. | X | Meq/l      | = | Mg/l         |
|-------------------------------------|------------|---|------------|---|--------------|
| Ca (HCO <sub>3</sub> ) <sub>2</sub> | 81.04      |   | <u>3</u>   |   | <u>243</u>   |
| Ca SO <sub>4</sub>                  | 68.07      |   |            |   |              |
| Ca Cl <sub>2</sub>                  | 55.50      |   |            |   |              |
| Mg (HCO <sub>3</sub> ) <sub>2</sub> | 73.17      |   | <u>1</u>   |   | <u>73</u>    |
| Mg SO <sub>4</sub>                  | 60.19      |   |            |   |              |
| Mg Cl <sub>2</sub>                  | 47.62      |   |            |   |              |
| Na HCO <sub>3</sub>                 | 84.00      |   |            |   |              |
| Na <sub>2</sub> SO <sub>4</sub>     | 71.03      |   | <u>2</u>   |   | <u>142</u>   |
| Na Cl                               | 58.46      |   | <u>156</u> |   | <u>9,120</u> |

| Saturation Values                      | Distilled Water 20° C |
|--|-----------------------|
| Ca CO <sub>3</sub>                     | 13 Mg/l               |
| Ca SO <sub>4</sub> · 2H <sub>2</sub> O | 2,090 Mg/l            |
| Mg CO <sub>3</sub>                     | 103 Mg/l              |

REMARKS \_\_\_\_\_



**Jetco  
Chemicals,  
Inc.**

DEC 02 1993

DIVISION OF

A Procter & Gamble Co.

OIL, GAS & CHEMICALS OFFICE 111872-3011

P.O. BOX 1898  
CORNICANA, TEXAS 75110

PLANT: 214/874-3706

(U.S.): 800/527-2510

TWX: 910/860-5100

(TX.) 800/442-6261

## WATER ANALYSIS REPORT

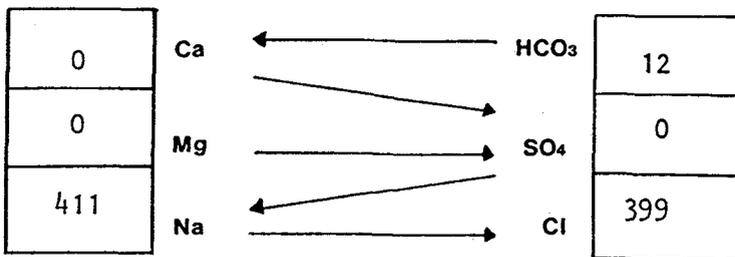
COMPANY NGC ADDRESS Vernal, Utah DATE: 10-21-88

SOURCE 41-5G (Treater) DATE SAMPLED 10-20-88 ANALYSIS NO. \_\_\_\_\_

| Analysis   | Mg/l (ppm)                  | *Meq/l                           |
|--|-----------------------------|----------------------------------|
| 1. pH  | <u>8.2</u>                  |                                  |
| 2. H <sub>2</sub> S (Qualitative)                  | <u>.5</u>                   |                                  |
| 3. Specific Gravity                                | <u>1.016</u>                |                                  |
| 4. Dissolved Solids                                | <u>24,348</u>               |                                  |
| 5. Suspended Solids                                |                             |                                  |
| 6. Anaerobic Bacterial Count                       | <u>CI</u>                   | <u>C/MI</u>                      |
| 7. (Phenolphthalein) Alkalinity (CO <sub>3</sub> ) |                             |                                  |
| 8. (Methyl Orange) Alkalinity (HCO <sub>3</sub> )  | <u>600</u>                  |                                  |
| 9. Bicarbonate (HCO <sub>3</sub> )                 | HCO <sub>3</sub> <u>732</u> | +61 <u>12</u> HCO <sub>3</sub>   |
| 10. Sulfates (SO <sub>4</sub> )                    | SO <sub>4</sub> <u>0</u>    | +48 <u>0</u> Cl                  |
| 11. Chlorides (Cl)                                 | Cl <u>14,160</u>            | +35.5 <u>399</u> SO <sub>4</sub> |
| 12. Calcium (Ca)                                   | Ca <u>2</u>                 | +20 <u>0</u> Ca                  |
| 13. Magnesium (Mg)                                 | Mg <u>1</u>                 | +12.2 <u>0</u> Mg                |
| 14. Total Hardness (CaCO <sub>3</sub> )            | <u>11</u>                   |                                  |
| 15. Total Iron (Fe)                                | <u>.7</u>                   |                                  |
| 16. Barium (Ba)                                    |                             |                                  |
| 17. Phosphate Residuals                            |                             |                                  |

\*Milli equivalents per liter

### PROBABLE MINERAL COMPOSITION



#### Saturation Values

Ca CO<sub>3</sub>

Ca SO<sub>4</sub> · 2H<sub>2</sub>O

Mg CO<sub>3</sub>

#### Distilled Water 20°C

13Mg/l

2,090 Mg/l

103 Mg/l

| Compound                            | Equiv. Wt. | X   | Meq/l | = | Mg/l   |
|-------------------------------------|------------|-----|-------|---|--------|
| Ca (HCO <sub>3</sub> ) <sub>2</sub> | 81.04      |     |       |   |        |
| Ca SO <sub>4</sub>                  | 68.07      |     |       |   |        |
| Ca Cl <sub>2</sub>                  | 55.50      |     |       |   |        |
| Mg (HCO <sub>3</sub> ) <sub>2</sub> | 73.17      |     |       |   |        |
| Mg SO <sub>4</sub>                  | 60.19      |     |       |   |        |
| Mg Cl <sub>2</sub>                  | 47.62      |     |       |   |        |
| Na HCO <sub>3</sub>                 | 84.00      | 12  |       |   | 1,008  |
| Na SO <sub>4</sub>                  | 71.03      | 0   |       |   | 0      |
| Na Cl                               | 58.46      | 399 |       |   | 23,326 |

REMARKS OIL ANALYSIS: Spec. Gravity = .8867 / API @ 60°F = 22.5 / Pour Point = 87°F

November 24, 1993

State of Utah Dept. of Natural Resources  
Division of Oil, Gas and Mining  
Underground Injection Control Section  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

NOV 29 1993

DEPT. OF  
OIL, GAS & MINING

Attention: Mr. Dan Jarvis

RE: Application for Water Injection  
Wells Draw Waterflood Unit  
Duchesne County, Utah

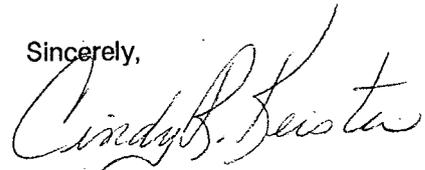
Dear Mr. Jarvis:

In reference to your telephone conversation with Jim LaFevers and myself on November 23, 1993, this letter represents an addendum to the referenced UIC application dated November 22, 1993.

1. Initially the water used for injection will be purchased from Balcron whose source is Johnson Water Company. When the waterflood is in full operation, produced water from PG&E's Wells Draw Unit Wells will be used for injection along with water purchased from Balcron.
2. Water samples will be taken and a water analysis along with a comparability analysis will be furnished.
3. Frac Gradient:  
  
ISIP = 1200 psi  
HHD = 5500' x .433 psi/ft. = 2382 psi  
Frac Gradient =  $\frac{1200\# + 2382\#}{5500'}$  = .65 psi/ft.
4. Electric log section on Federal 41-5G has been faxed to your office from our field office in Vernal, Utah this date.

If you have any questions or need additional information, please contact the undersigned at (214) 706-3640 or Jim LaFevers at (214) 750-3988.

Sincerely,



Cindy R. Keister  
Sr. Regulatory Analyst

cc: S. Gilbert  
J. LaFevers  
Central File  
Regulatory File

November 22, 1993

**RECEIVED**

NOV 23 1993

**DIVISION OF  
OIL, GAS & MINING**



State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
Underground Injection Control Section  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Attention: Mr. Gil Hunt

RE: Application for Water Injection  
Wells Draw Waterflood Unit  
Duchesne County, Utah

Dear Mr. Hunt:

PG&E Resources Company respectfully requests approval to convert the following wells into water injection wells in conjunction with PG&E's Proposed Wells Draw Unit, Docket No. 93-039, Cause No. 231-1:

|                |                |
|----------------|----------------|
| Federal 41-5G  | Federal 32-5G  |
| Federal 14-33B | Federal 43-33B |
| Federal 34-33B | Federal 21-4G  |
| Federal 14-34B |                |

The enclosed application has been prepared in accordance with R615-5-1 and R615-5-2 and is being submitted for your review and approval. If you have any questions or need additional information, please contact the undersigned at (214) 706-3640 or Jim LaFevers at (214) 750-3988.

Sincerely,

Cindy R. Keister  
Sr. Regulatory Analyst

Enclosures

cc: S. Gilbert  
J. LaFevers  
Central File  
Regulatory File

**UIC FORM 1**

**PLAT**

**WELLBORE DIAGRAMS**

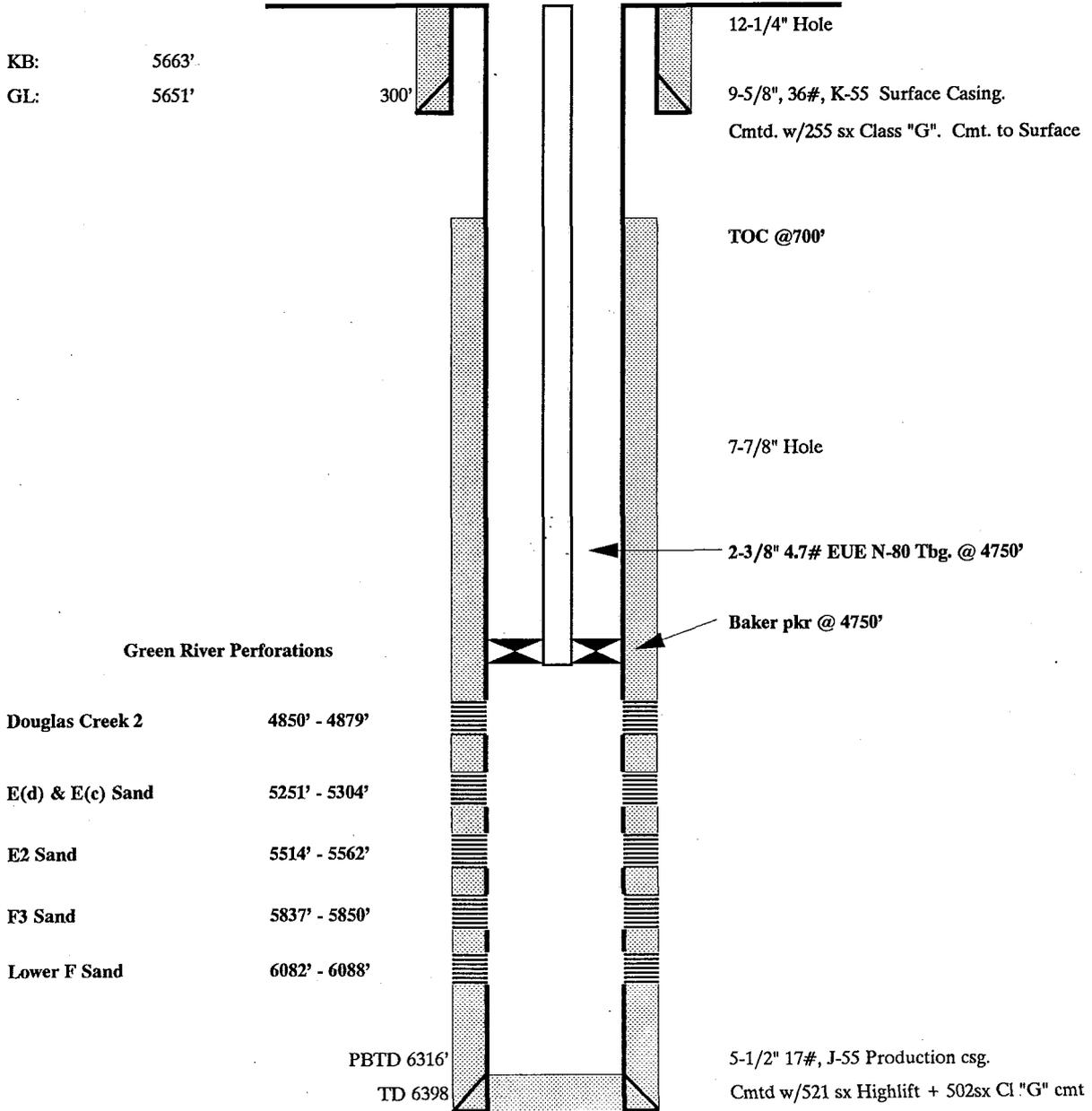
# FEDERAL 14-33B

WELLS DRAW UNIT  
 Duchesne County, Utah  
 PROPOSED WIW

Spud: 6/7/89  
 TD Date: 7/15/89  
 Compl. Date: 9/4/89

Sec 33, T-8S-R16E  
 SW/4 SW/4

KB: 5663'  
 GL: 5651'



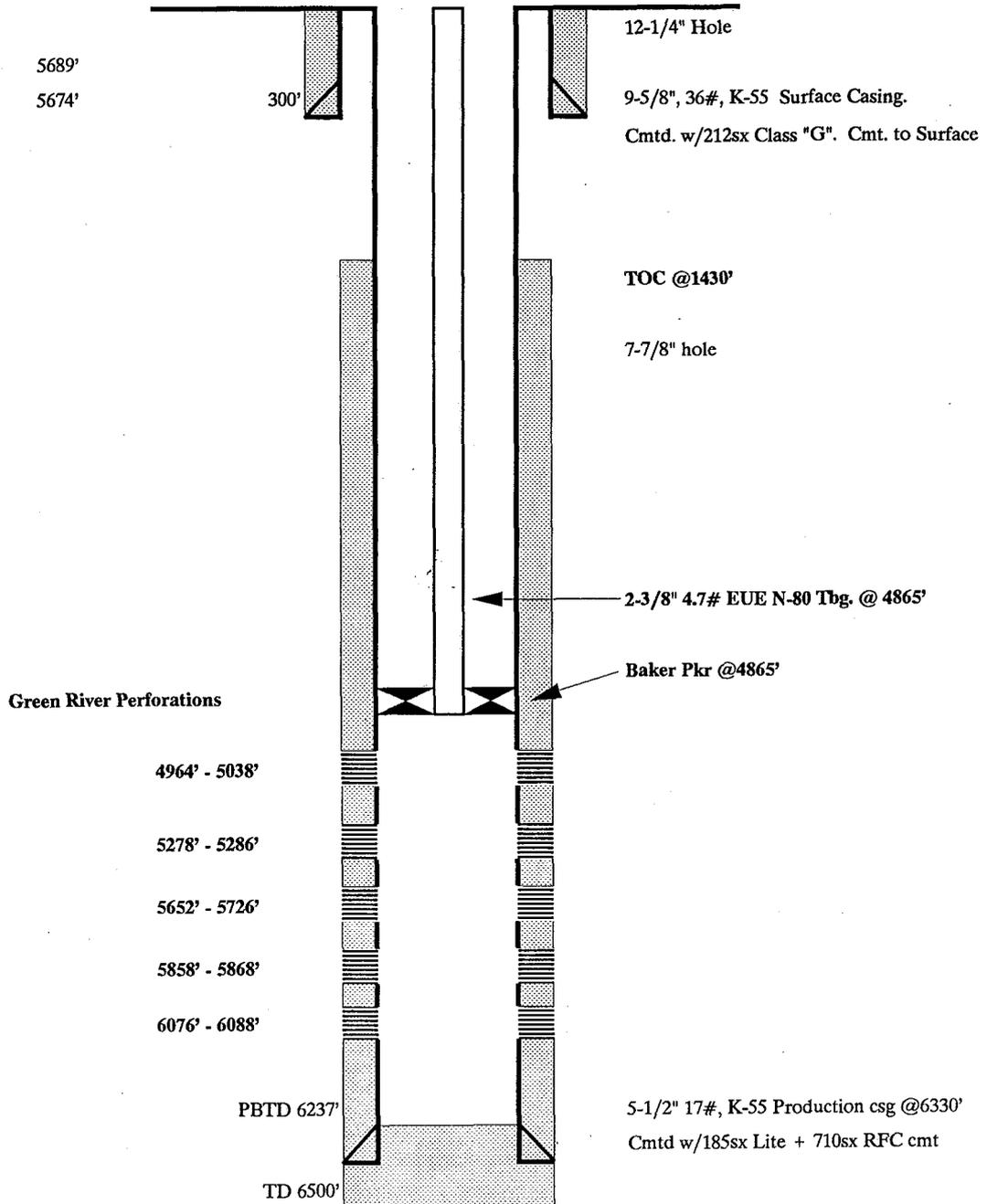
# FEDERAL 14-34B

WELLS DRAW UNIT  
 Duchesne County, Utah  
 PROPOSED WIW

Spud: 5/7/89  
 TD Date: 5/20/89  
 Compl. Date: 6/24/89

Sec 34, T-8S-R16E  
 SW/4 SW/4

KB: 5689'  
 GL: 5674'



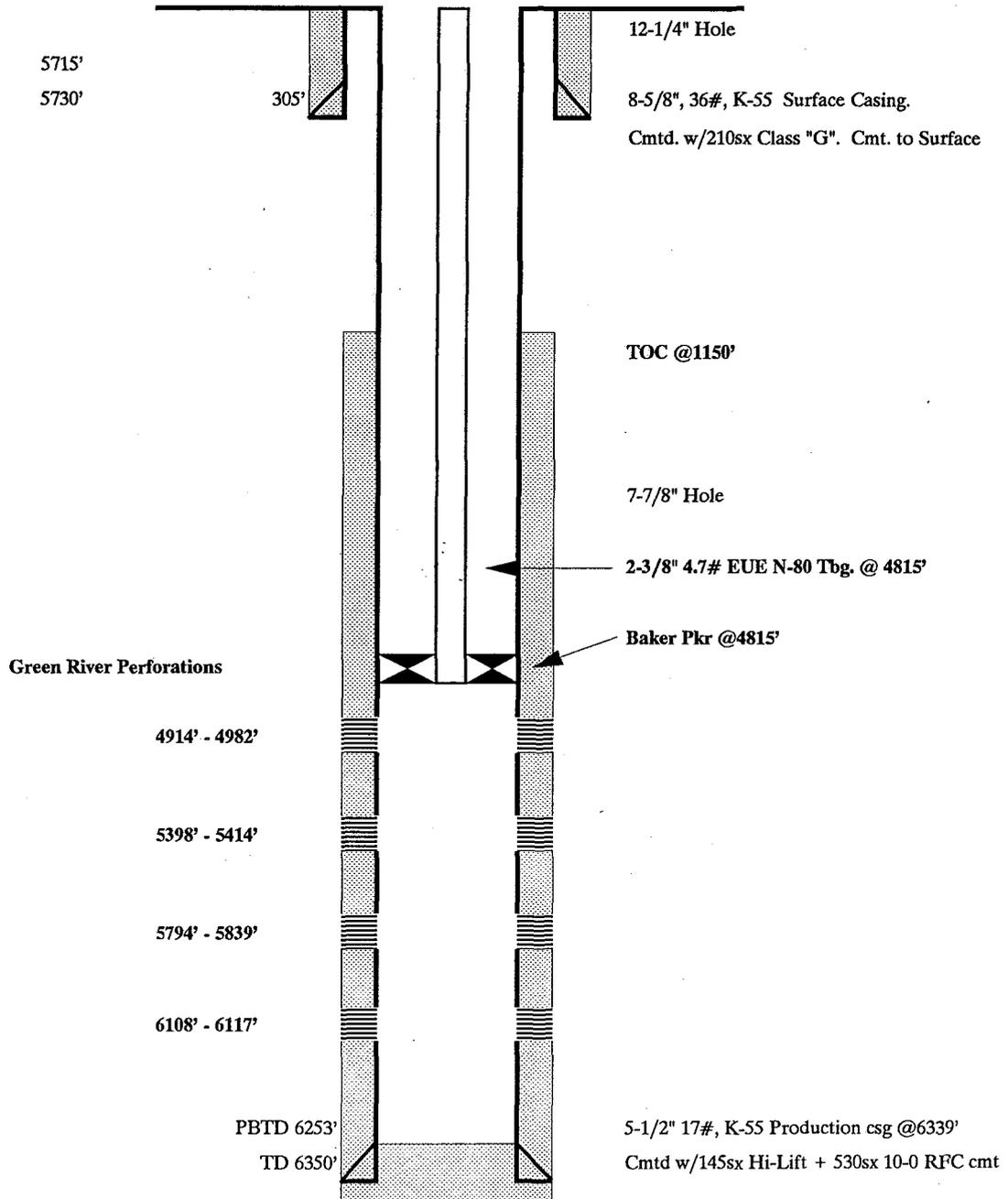
# FEDERAL 21-4G

WELLS DRAW UNIT  
Duchesne County, Utah  
PROPOSED WIW

Spud: 6/2/90  
TD Date: 6/15/90  
Compl. Date: 8/18/90

Sec 4, T-9S-R16E  
NE/4 NW/4

KB: 5715'  
GL: 5730'



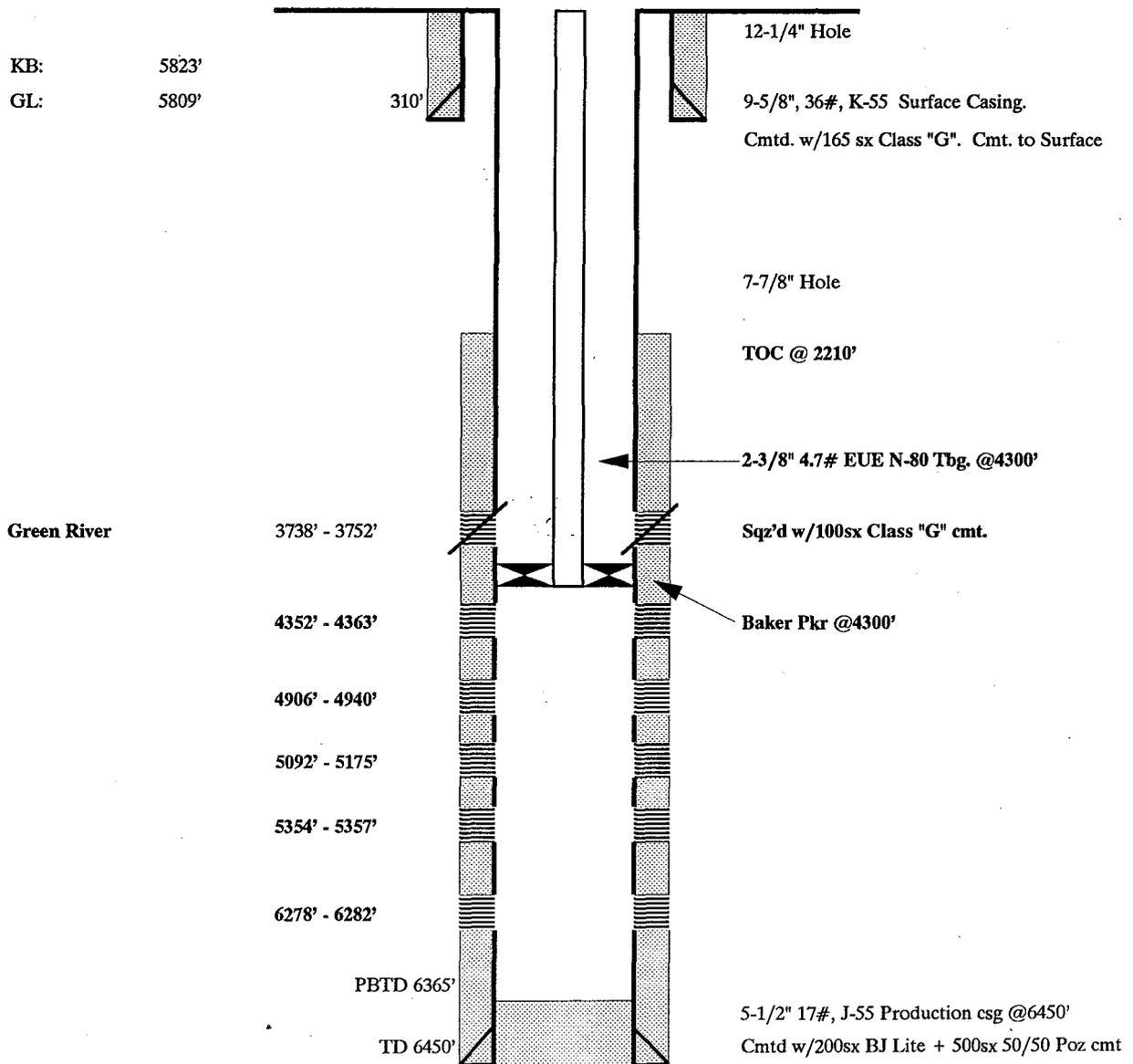
# FEDERAL 32-5G

WELLS DRAW UNIT  
Duchesne County, Utah  
PROPOSED WIW

Spud: 7/19/82  
TD Date: 7/30/82  
Compl. Date: 11/14/82

Sec 5, T-9S-R16E  
SW/4 NE/4

KB: 5823'  
GL: 5809'



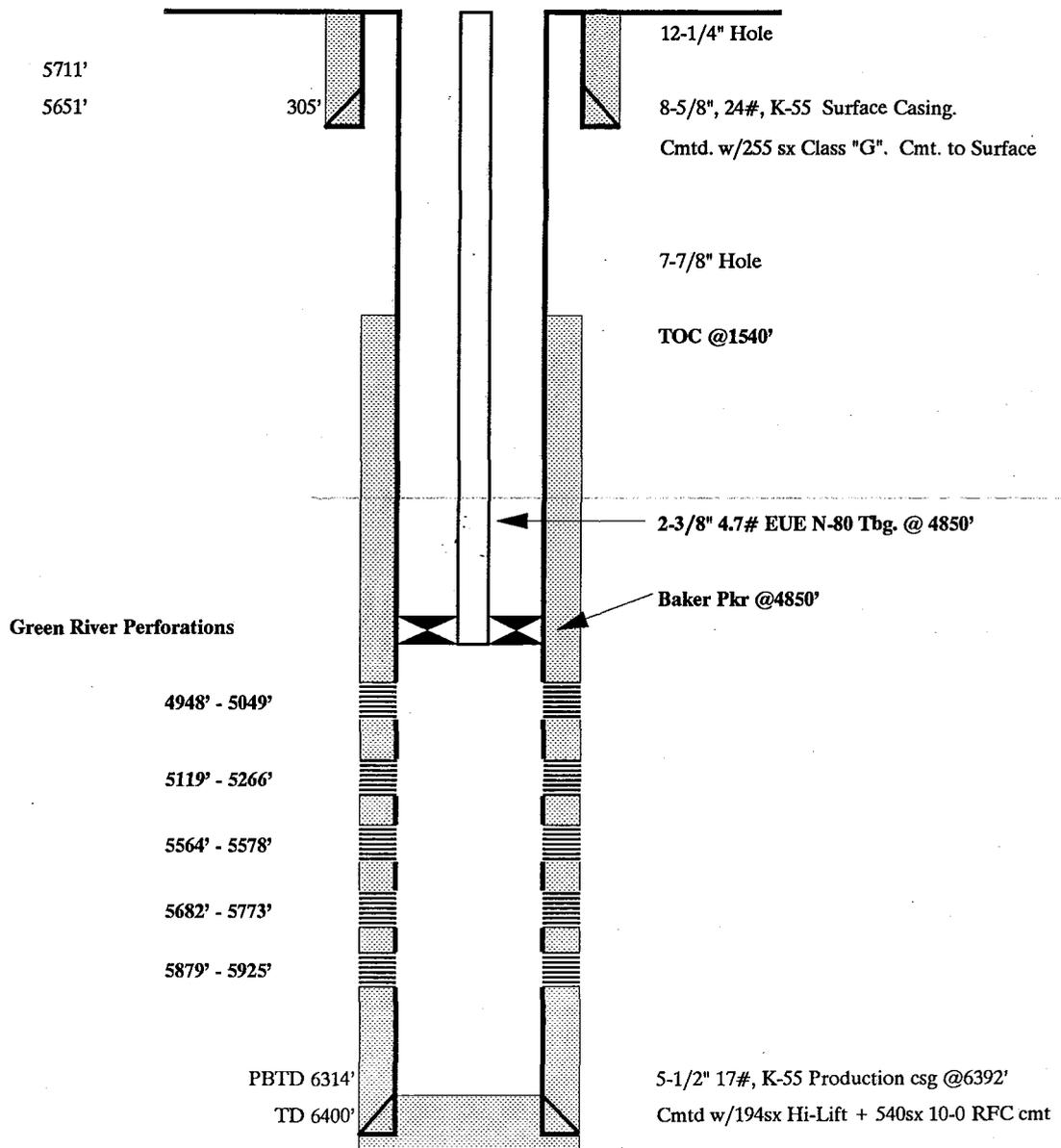
# FEDERAL 34-33B

WELLS DRAW UNIT  
 Duchesne County, Utah  
 PROPOSED WIW

Spud: 4/24/90  
 TD Date: 5/6/90  
 Compl. Date: 6/19/90

Sec 33, T-8S-R16E  
 SW/4 SE/4

KB: 5711'  
 GL: 5651'



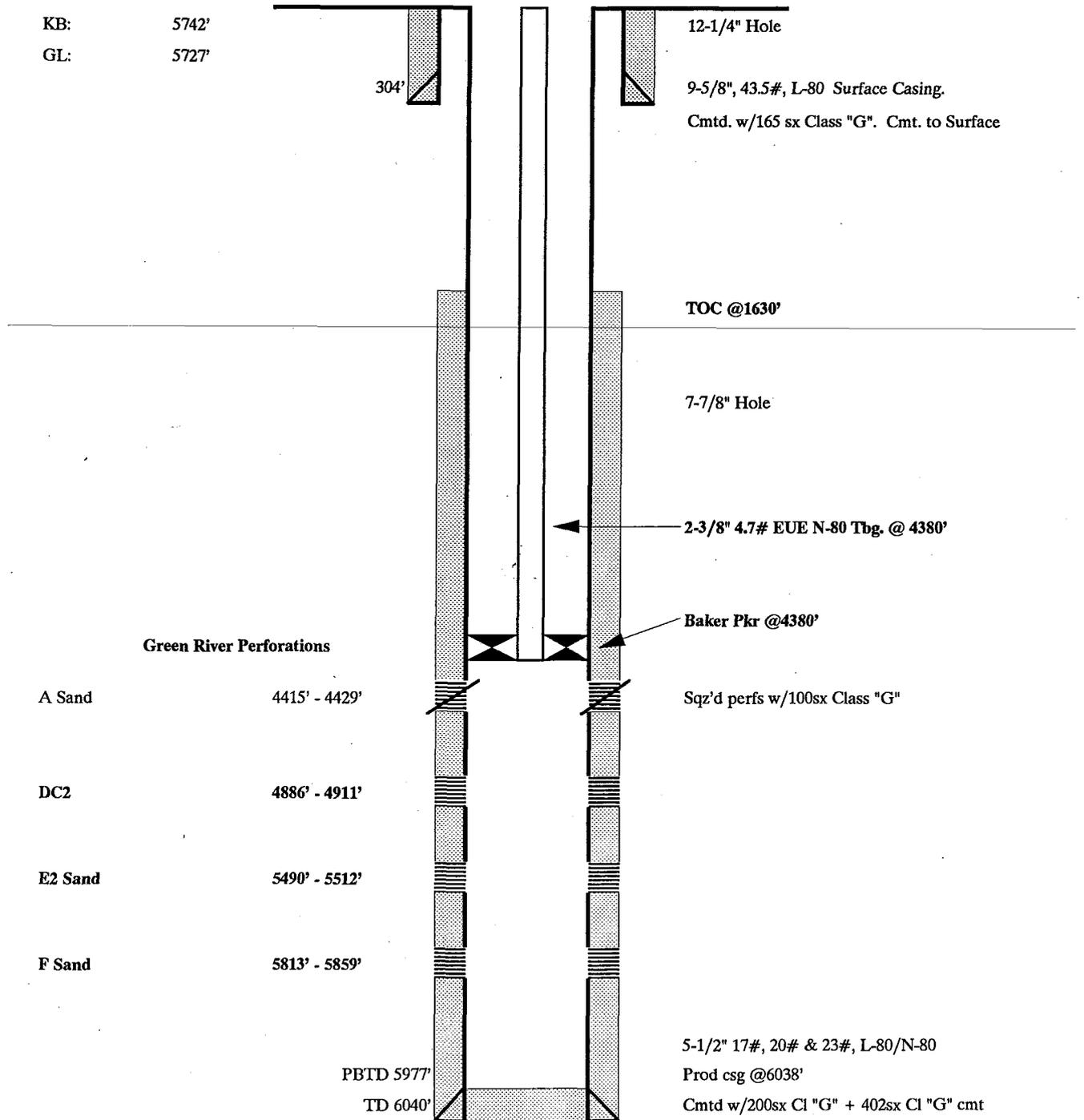
# FEDERAL 41-5G

WELLS DRAW UNIT  
 Duchesne County, Utah  
 PROPOSED WIW

Spud: 3/24/88  
 TD Date: 4/1/88  
 Compl. Date: 4/27/88

Sec. 5, T9S-R16E  
 NE/4 SW/4

KB: 5742'  
 GL: 5727'



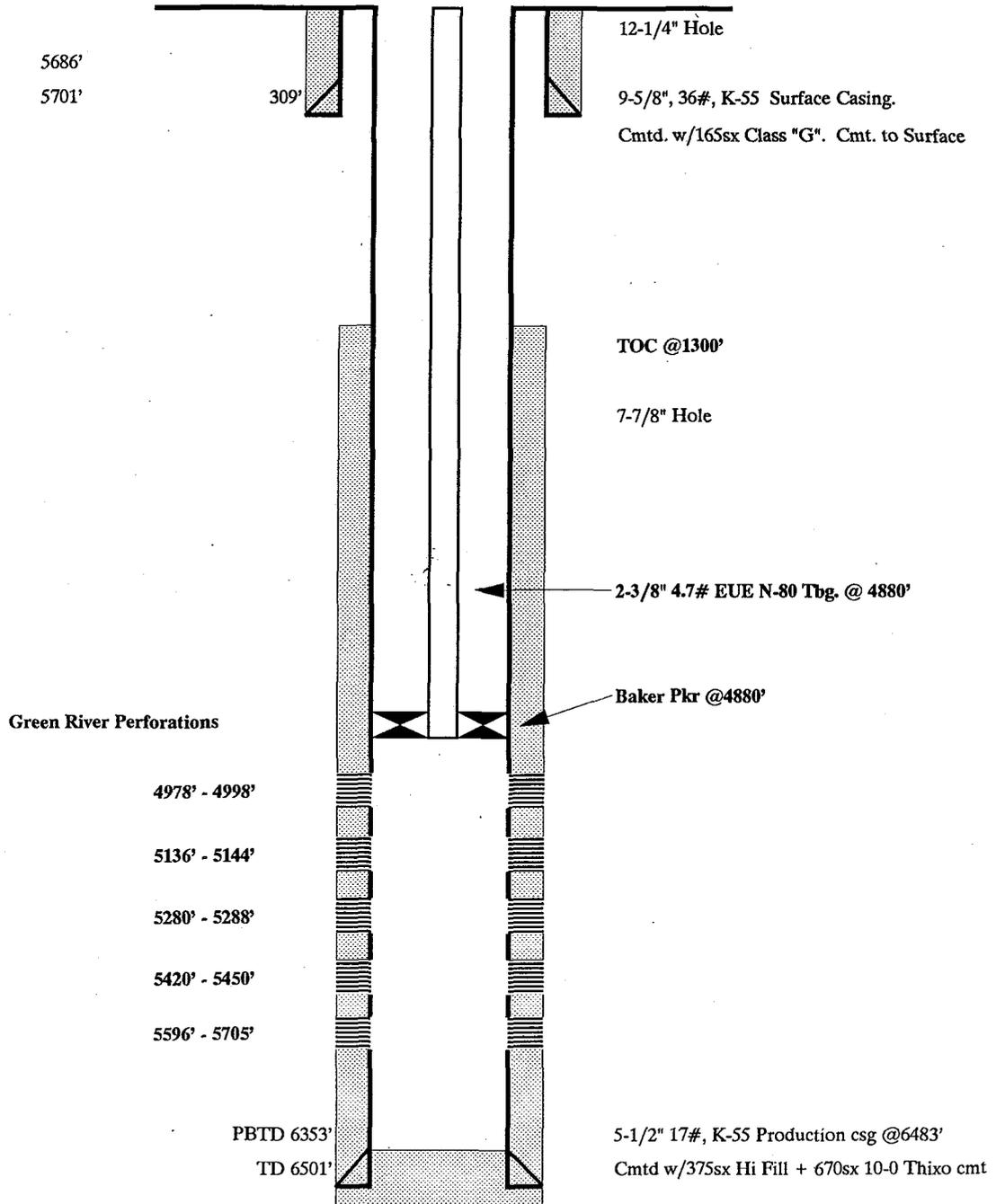
# FEDERAL 43-33B

WELLS DRAW UNIT  
 Duchesne County, Utah  
 PROPOSED WIW

Spud: 9/5/89  
 TD Date: 9/17/89  
 Compl. Date: 11/7/89

Sec 33, T-8S-R16E  
 NE/4 SE/4

KB: 5686'  
 GL: 5701'



**WELLS DRAW WATERFLOOD UNIT  
DUCHENESE COUNTY, UT  
INFORMATION APPLICABLE TO ALL SEVEN (7) WELLS**

**A. ELECTRIC LOGS**

A copy of the marked injection interval is attached for your convenience. The electric logs have been submitted and are on file with the Utah Division of Oil, Gas & Mining and Bureau of Land Management.

**B. CEMENT BOND LOGS**

The Cement Bond Logs have been submitted and are currently on file with the Utah Division of Oil, Gas & Mining and Bureau of Land Management.

**C. CASING PROGRAM/TESTING PROCEDURES**

The casing program for each of the seven (7) wells is reflected on the attached individual wellbore diagrams. Before injection begins, the casing outside the tubing shall be tested to 1000 psi as required in R615-5-5.

**D. INJECTION FLUID**

Initially produced water from the E<sub>2</sub> and DC<sub>3</sub> sands of the Green River formation from wells operated by Lomax will be injected. Water samples are being taken and a water analysis and compability statement will be furnished. When the waterflood is in full operation, produced water from PG&E's Wells Draw Unit Wells will be used for injection. Annual injection rates will be determined by a step-rate test, but the initial injection rate will be 300-400 BWPD per well at an injection pressure somewhat below 2000 psi.

**E. FRESH WATER PROTECTION**

The frac gradients for the field average to be 0.84 psig/ft. The maximum injection pressures will be kept below this gradient.

**F. GEOLOGY**

The Wells Draw Unit is adjacent and similar to the Monument Butte Green River "D" Unit in that it produces from the same Green River sands with similar pay thicknesses and production characteristics. By far the majority of production is from the DC<sub>2</sub> and E<sub>2</sub> sands but there are several non-continuous porous intervals in the "A", "B", "D" and other Green River sand groups.

Oil is stratigraphically trapped in lenticular, fine grained quartz sandstone fluvial deposits intersecting the edge of a lacustrine environment. These sandstones are associated with multicolored shales and carbonates of a lacustrine nature. The Wells Draw area is located on a structural monocline dipping one to two degrees to the Northeast. Reservoir thickness and distribution are basically similar as you go from Monument Butte into Wells Draw. The two fields contain the same hydrocarbons and similar water saturations. The water in which these reservoirs were deposited was fresh to brackish.

WELLS DRAW WATERFLOOD UNIT  
 INFORMATION APPLICABLE TO ALL SEVEN (7) WELLS  
 PAGE 2

**G. OFFSET WELL MECHANICAL CONDITION (1/2 MILE RADIUS)**

**OFFSET WELL - FEDERAL 11-4G (Section 4, T9S-R16E NW/NW)**

|                  | <u>Surface Casing</u> | <u>Production Casing</u> |
|------------------|-----------------------|--------------------------|
| Hole Size        | 12-1/4"               | 7-7/8"                   |
| Casing Size      | 8-5/8"                | 5-1/2"                   |
| Weight (lbs/ft)  | 24#                   | 17#                      |
| Grade            | J-55                  | J-55                     |
| Setting Depth    | 289'                  | 6453'                    |
| Amount of Cement | 165sx                 | 317sx + 595sx            |
| Type of Cement   | Class "G"             | Hi-Lift + 10-0 RFC       |
| Top of Cement    | Surface               | 3300' ✓                  |
| Date Set         | 12/24/89              | 01/20/90                 |
| PBTD             |                       | 6311'                    |

**OFFSET WELL - FEDERAL 12-4G (Section 4, T9S-R16E SW/NW)**

|                  | <u>Surface Casing</u> | <u>Production Casing</u>         |
|------------------|-----------------------|----------------------------------|
| Hole Size        | 12-1/4"               | 7-7/8"                           |
| Casing Size      | 8-5/8"                | 5-1/2"                           |
| Weight (lbs/ft)  | 32#                   | 15.5#                            |
| Grade            | J-55                  | J-55 & K-55                      |
| Setting Depth    | 305'                  | 6409'                            |
| Amount of Cement | 215sx                 | 285sx + 682sx                    |
| Type of Cement   | B. J. "L"             | B. J. Lite + B.J. Lite 50/50 Poz |
| Top of Cement    | Surface               | 2500' ✓                          |
| Date Set         | 04/05/83              | 04/19/83                         |
| PBTD             |                       | 6217'                            |

**OFFSET WELL - FEDERAL 13-34B (Section 34, T8S-R16E NW/SW)**

|                  | <u>Surface Casing</u> | <u>Production Casing</u> |
|------------------|-----------------------|--------------------------|
| Hole Size        | 12-1/4"               | 7-7/8"                   |
| Casing Size      | 8-5/8"                | 5-1/2"                   |
| Weight (lbs/ft)  | 24#                   | 17#                      |
| Grade            | K-55                  | K-55                     |
| Setting Depth    | 307'                  | 6470'                    |
| Amount of Cement | 210sx                 | 165sx + 530sx            |
| Type of Cement   | Class "G"             | Hi-Lift + 10-0 RFC       |
| Top of Cement    | Surface               | 1080' ✓                  |
| Date Set         | 05/31/90              | 06/10/90                 |
| PBTD             |                       | 6390'                    |

WELLS DRAW WATERFLOOD UNIT  
 INFORMATION APPLICABLE TO ALL SEVEN (7) WELLS  
 PAGE 3

**OFFSET WELL - FEDERAL 21-5G (Section 5, T9S-R16E NE/NW)**

|                  | <u>Surface Casing</u> | <u>Production Casing</u> |
|------------------|-----------------------|--------------------------|
| Hole Size        | 12-1/4"               | 7-7/8"                   |
| Casing Size      | 8-5/8"                | 5-1/2"                   |
| Weight (lbs/ft)  | 32#                   | 15.5#                    |
| Grade            | J-55                  | J-55                     |
| Setting Depth    | 311'                  | 6500'                    |
| Amount of Cement | 215sx                 | 338sx + 863sx            |
| Type of Cement   | Class "G"             | B. J. Lite + 50/50 Poz   |
| Top of Cement    | Surface               | 2500' ✓                  |
| Date Set         | 03/26/83              | 04/07/83                 |
| PBTD             |                       | 6270'                    |

**OFFSET WELL - FEDERAL 22-5G (Section 5, T9S-R16E SE/NW)**

|                  | <u>Surface Casing</u> | <u>Production Casing</u> |
|------------------|-----------------------|--------------------------|
| Hole Size        | 12-1/4"               | 7-7/8"                   |
| Casing Size      | 8-5/8"                | 5-1/2"                   |
| Weight (lbs/ft)  | 24#                   | 17#                      |
| Grade            | K-55                  | J-55                     |
| Setting Depth    | 311'                  | 6259'                    |
| Amount of Cement | 210sx                 | 160sx + 450sx            |
| Type of Cement   | Class "G"             | Hi-Lift + 10-0 RFC       |
| Top of Cement    | Surface               | 1610' ✓                  |
| Date Set         | 05/29/90              | 06/24/90                 |
| PBTD             |                       | 6184'                    |

**OFFSET WELL - FEDERAL 23-5G (Section 5, T9S-R16E NE/SW)**

|                  | <u>Surface Casing</u> | <u>Production Casing</u> |
|------------------|-----------------------|--------------------------|
| Hole Size        | 12-1/4"               | 7-7/8"                   |
| Casing Size      | 9-5/8"                | 5-1/2"                   |
| Weight (lbs/ft)  | 53.5#                 | 17#                      |
| Grade            | L-80                  | K-55/N-80                |
| Setting Depth    | 300'                  | 6000'                    |
| Amount of Cement | 165sx                 | 195sx + 445sx            |
| Type of Cement   | Class "G"             | Class "G"                |
| Top of Cement    | Surface               | 1190' ✓                  |
| Date Set         | 07/20/88              | 08/06/88                 |
| PBTD             |                       | 5911'                    |

WELLS DRAW WATERFLOOD UNIT  
 INFORMATION APPLICABLE TO ALL SEVEN (7) WELLS  
 PAGE 4

**OFFSET WELL - FEDERAL 23-33B (Section 33, T8S-R16E NE/SW)**

|                  | <u>Surface Casing</u> | <u>Production Casing</u> |
|------------------|-----------------------|--------------------------|
| Hole Size        | 12-1/4"               | 7-7/8"                   |
| Casing Size      | 8-5/8"                | 5-1/2"                   |
| Weight (lbs/ft)  | 24#                   | 17#                      |
| Grade            | K-55                  | K-55                     |
| Setting Depth    | 300'                  | 6402'                    |
| Amount of Cement | 165sx                 | 300sx + 575sx            |
| Type of Cement   | Class "G"             | Hi-Lift + 10-0 RFC       |
| Top of Cement    | Surface               | 3300' ✓                  |
| Date Set         | 12/21/89              | 01/07/90                 |
| PBTB             |                       | 6308'                    |

**OFFSET WELL - FEDERAL 23-34B (Section 34, T8S-R16E NE/SW)**

|                  | <u>Surface Casing</u> | <u>Production Casing</u> |
|------------------|-----------------------|--------------------------|
| Hole Size        | 12-1/4"               | 7-7/8"                   |
| Casing Size      | 9-5/8"                | 5-1/2"                   |
| Weight (lbs/ft)  | 36#                   | 17#                      |
| Grade            | J-55                  | J-55                     |
| Setting Depth    | 301'                  | 6550'                    |
| Amount of Cement | 165sx                 | 320sx + 585sx            |
| Type of Cement   | Class "G"             | Hi-Lift + 10-0 RFC       |
| Top of Cement    | Surface               | 1740' ✓                  |
| Date Set         | 12/03/89              | 12/22/89                 |
| PBTB             |                       | 6445'                    |

**OFFSET WELL - FEDERAL 24-33B (Section 33, T8S-R16E SE/SW)**

|                  | <u>Surface Casing</u> | <u>Production Casing</u> |
|------------------|-----------------------|--------------------------|
| Hole Size        | 12-1/4"               | 7-7/8"                   |
| Casing Size      | 9-5/8"                | 5-1/2"                   |
| Weight (lbs/ft)  | 47# & 53.5#           | 17#                      |
| Grade            | L-80/N-80             | K-55/N-80                |
| Setting Depth    | 310'                  | 6410'                    |
| Amount of Cement | 165sx                 | 125sx + 500sx            |
| Type of Cement   | Class "G"             | Silica Lite + Class "G"  |
| Top of Cement    | Surface               | 2405' ✓                  |
| Date Set         | 08/18/88              | 08/31/88                 |
| PBTB             |                       | 6329'                    |

WELLS DRAW WATERFLOOD UNIT  
 INFORMATION APPLICABLE TO ALL SEVEN (7) WELLS  
 PAGE 5

**OFFSET WELL - FEDERAL 31-4G (Section 4, T9S-R16E NW/SE)**

|                  | <u>Surface Casing</u> | <u>Production Casing</u> |
|------------------|-----------------------|--------------------------|
| Hole Size        | 12-1/4"               | 7-7/8"                   |
| Casing Size      | 9-5/8"                | 5-1/2"                   |
| Weight (lbs/ft)  | 36#                   | 17#                      |
| Grade            | K-55                  | J-55                     |
| Setting Depth    | 300'                  | 5603'                    |
| Amount of Cement | 165sx                 | 260sx + 580sx            |
| Type of Cement   | Class "G"             | Hi-Lift + Class "G"      |
| Top of Cement    | Surface               | 2300'                    |
| Date Set         | 05/21/89              | 05/12/89                 |
| PBTD             |                       | 5603'                    |

**OFFSET WELL - FEDERAL 31-5G (Section 5, T9S-R16E NW/NE)**

|                  | <u>Surface Casing</u> | <u>Production Casing</u> |
|------------------|-----------------------|--------------------------|
| Hole Size        | 12-1/4"               | 7-7/8"                   |
| Casing Size      | 8-5/8"                | 5-1/2"                   |
| Weight (lbs/ft)  | 24#                   | 17#                      |
| Grade            | K-55                  | K-55                     |
| Setting Depth    | 332'                  | 6388'                    |
| Amount of Cement | 225sx                 | 318sx + 535sx            |
| Type of Cement   | Class "G"             | Hi-Lift + 10-0 RFC       |
| Top of Cement    | Surface               | 2200'                    |
| Date Set         | 01/20/90              | 02/03/90                 |
| PBTD             |                       | 6255'                    |

**OFFSET WELL - FEDERAL 33-33B (Section 33, T8S-R16E NW/SE)**

|                  | <u>Surface Casing</u> | <u>Production Casing</u> |
|------------------|-----------------------|--------------------------|
| Hole Size        | 12-1/4"               | 7-7/8"                   |
| Casing Size      | 8-5/8"                | 5-1/2"                   |
| Weight (lbs/ft)  | 24#                   | 17#                      |
| Grade            | K-55                  | K-55                     |
| Setting Depth    | 301'                  | 6400'                    |
| Amount of Cement | 225sx                 | 155sx + 520sx            |
| Type of Cement   | Class "G"             | Howco Lite + 10-0 RFC    |
| Top of Cement    | Surface               | 2050' ✓                  |
| Date Set         | 05/04/90              | 06/03/90                 |
| PBTD             |                       | 6315'                    |

WELLS DRAW WATERFLOOD UNIT  
 INFORMATION APPLICABLE TO ALL SEVEN (7) WELLS  
 PAGE 6

**OFFSET WELL - FEDERAL 42-4 (Section 4, T9S-R16E SE/NE)**

|                  | <u>Surface Casing</u> | <u>Production Casing</u> |
|------------------|-----------------------|--------------------------|
| Hole Size        | 12-1/4"               | 7-7/8"                   |
| Casing Size      | 9-5/8"                | 5-1/2"                   |
| Weight (lbs/ft)  | 36#                   | 17#                      |
| Grade            | K-55                  | N-80                     |
| Setting Depth    | 300'                  | 6483'                    |
| Amount of Cement | 165sx                 | 720sx                    |
| Type of Cement   | Class "G"             | Class "G"                |
| Top of Cement    | Surface               | 2406'                    |
| Date Set         | 03/22/82              | 04/04/82 ✓               |
| PBTD             |                       | 6404'                    |

**OFFSET WELL - FEDERAL 44-33B (Section 33, T8S-R16E SE/SE)**

|                  | <u>Surface Casing</u> | <u>Production Casing</u> |
|------------------|-----------------------|--------------------------|
| Hole Size        | 12-1/4"               | 7-7/8"                   |
| Casing Size      | 8-5/8"                | 5-1/2"                   |
| Weight (lbs/ft)  | 24#                   | 17#                      |
| Grade            | K-55                  | K-55                     |
| Setting Depth    | 300'                  | 6385'                    |
| Amount of Cement | 225sx                 | 240sx + 715sx            |
| Type of Cement   | Class "G"             | Hi-Lift + 10-0 RFC       |
| Top of Cement    | Surface               | 2650' ✓                  |
| Date Set         | 04/29/90              | 05/26/90                 |
| PBTD             |                       | 6279'                    |

**OFFSET WELL - FEDERAL 43-5 (Section 5, T9S-R16E NE/SE)**

|                  | <u>Surface Casing</u> | <u>Production Casing</u> |
|------------------|-----------------------|--------------------------|
| Hole Size        | 12-1/4"               | 7-7/8"                   |
| Casing Size      | 8-5/8"                | 5-1/2"                   |
| Weight (lbs/ft)  | 24#                   | 17#                      |
| Grade            |                       |                          |
| Setting Depth    | 240'                  | 6025'                    |
| Amount of Cement | 190sx                 | 190sx + 385sx            |
| Type of Cement   | Class "G"             | Lite + Thixotropic       |
| Top of Cement    | Surface               | 750' ✓                   |
| Date Set         | 01/84                 | 1984                     |
| PBTD             |                       | 5980'                    |

WELLS DRAW WATERFLOOD UNIT  
INFORMATION APPLICABLE TO ALL SEVEN (7) WELLS  
PAGE 7

**H. AFFIDAVIT OF NOTIFICATION**

To whom it may concern:

Copies of the UIC Form 1 application for the wells listed below have been mailed to the following on November 19, 1993:

Federal 41-5G  
Federal 14-33B  
Federal 43-33B  
Federal 21-4G

Federal 32-5G  
Federal 34-33B  
Federal 14-34B

**OFFSET OPERATORS:**

Chevron USA, Inc.  
P. O. Box 1635  
Houston, TX 77251

Equitable Resources Energy Co.  
Balcron Oil Division  
P. O. Box 21017  
Billings, MT 59104

James Fishgrund  
9777 Wilshire Blvd., #818  
Beverly Hills, CA 90202

Interline Resources Company  
175 West 200 South, Suite 2004  
Salt Lake City, UT 84001

Lomax Exploration Company  
13405 NW Freeway, #310  
Houston, TX 77040

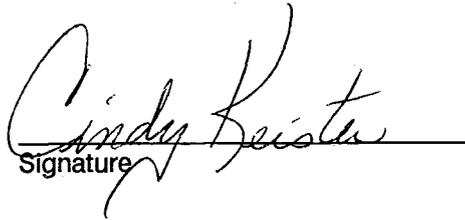
Lee R. Martin  
1645 Court Place  
Denver, CO 80202

Maybelle, Inc.  
P. O. Box 3595  
Midland, TX 79702

**AFFIDAVIT OF NOTIFICATION (Continued)**

**SURFACE OWNERS:**

Bureau of Land Management  
170 South 500 East  
Vernal, UT 84078

  
Signature

Cindy Keister

Name

(214) 706-3640

Telephone

Sr. Regulatory Analyst

Title

November 22, 1993

Date

**PG&E Resources Company**

6688 N. Central Expressway, Suite 1000  
Dallas, Texas 75206-3922  
Telephone 214/750-3800  
FAX 214/750-3883

November 30, 1993

State of Utah Dept. of Natural Resources  
Division of Oil, Gas and Mining  
Underground Injection Control Section  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Attention: Mr. Dan Jarvis

RE: Application for Water Injection  
Wells Draw Waterflood Unit  
Duchesne County, Utah

Dear Mr. Jarvis:

In reference to our telephone conversation on November 29, 1993, this letter represents the second addendum to the referenced UIC application dated November 22, 1993. We have researched our records and have determined that the frac gradient should be .82 psi/ft. in the Green River formation based on the following data:

1. Green River Wells - operated by PG&E Resources
  - a. ISIP 2300 psi
  - b. ISIP 2800 psi
  - c. ISIP 1722 psi
  - d. ISIP 1700 psi

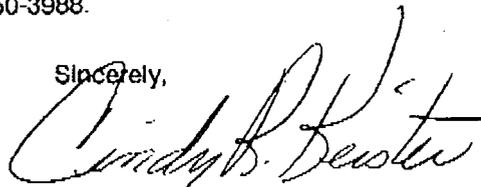
2. Average ISIP 2131 psi

3. Frac Gradient:

$$\begin{aligned} \text{ISIP} &= 2131 \text{ psi} \\ \text{HHD} &= 5500' \times .432 \text{ psi/ft.} = 2382 \text{ psi} \\ \text{Frac Gradient} &= \frac{2131\# + 2382\#}{5500'} = .82 \text{ psi/ft.} \end{aligned}$$

If you have any questions or need additional information, please contact the undersigned at (214) 706-3640 or Jim LaFevers at (214) 750-3988.

Sincerely,



Cindy R. Keister  
Sr. Regulatory Analyst

cc: S. Gilbert  
J. LaFevers  
Central File  
Regulatory File



A Procter & Gamble Co.

P.O. BOX 1898  
OFFICE: 214/872-3011

CORSICANA, TEXAS 75110  
PLANT: 214/874-3706  
(U.S.): 800/327-2510

TWX: 910/860-5100  
(TX.) 800/442-6261

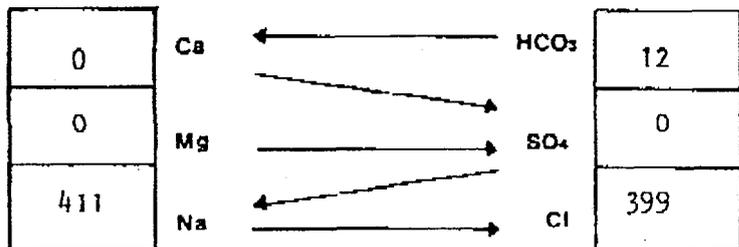
### WATER ANALYSIS REPORT

COMPANY NGC ADDRESS Vernal, Utah DATE: 10-21-88  
SOURCE 41-5G (Treater) DATE SAMPLED 10-20-88 ANALYSIS NO. \_\_\_\_\_

| Analysis   | Mg/l (ppm)                  | *Meq/l                           |
|--|-----------------------------|----------------------------------|
| 1. pH  | <u>8.2</u>                  |                                  |
| 2. H <sub>2</sub> S (Qualitative)                  | <u>.5</u>                   |                                  |
| 3. Specific Gravity                                | <u>1.016</u>                |                                  |
| 4. Dissolved Solids                                | <u>24,348</u>               |                                  |
| 5. Suspended Solids                                |                             |                                  |
| 6. Anaerobic Bacterial Count                       | <u>CJ</u>                   | C/MI                             |
| 7. (Phenolphthalein) Alkalinity (CO <sub>3</sub> ) |                             |                                  |
| 8. (Methyl Orange) Alkalinity (HCO <sub>3</sub> )  | <u>600</u>                  |                                  |
| 9. Bicarbonate (HCO <sub>3</sub> )                 | HCO <sub>3</sub> <u>732</u> | +61 <u>12</u> HCO <sub>3</sub>   |
| 10. Sulfates (SO <sub>4</sub> )                    | SO <sub>4</sub> <u>0</u>    | +48 <u>0</u> Cl                  |
| 11. Chlorides (Cl)                                 | Cl <u>14,160</u>            | +35.5 <u>399</u> SO <sub>4</sub> |
| 12. Calcium (Ca)                                   | Ca <u>2</u>                 | +20 <u>0</u> Ca                  |
| 13. Magnesium (Mg)                                 | Mg <u>1</u>                 | +12.2 <u>0</u> Mg                |
| 14. Total Hardness (CaCO <sub>3</sub> )            | <u>11</u>                   |                                  |
| 15. Total Iron (Fe)                                | <u>.7</u>                   |                                  |
| 16. Barium (Ba)                                    |                             |                                  |
| 17. Phosphate Residuals                            |                             |                                  |

\*Milli equivalents per liter

### PROBABLE MINERAL COMPOSITION



Saturation Values

|  |            |
|--|------------|
| Ca CO <sub>3</sub>                     | 13Mg/l     |
| Ca SO <sub>4</sub> · 2H <sub>2</sub> O | 2,090 Mg/l |
| Mg CO <sub>3</sub>                     | 103 Mg/l   |

Distilled Water 20°C

| Compound                            | Equiv. Wt. | X          | Meq/l | = | Mg/l          |
|-------------------------------------|------------|------------|-------|---|---------------|
| Ca (HCO <sub>3</sub> ) <sub>2</sub> | 81.04      |            |       |   |               |
| Ca SO <sub>4</sub>                  | 68.07      |            |       |   |               |
| Ca Cl <sub>2</sub>                  | 55.50      |            |       |   |               |
| Mg (HCO <sub>3</sub> ) <sub>2</sub> | 73.17      |            |       |   |               |
| Mg SO <sub>4</sub>                  | 60.19      |            |       |   |               |
| Mg Cl <sub>2</sub>                  | 47.62      |            |       |   |               |
| Na HCO <sub>3</sub>                 | 84.00      | <u>12</u>  |       |   | <u>1,008</u>  |
| Na SO <sub>4</sub>                  | 71.03      | <u>0</u>   |       |   | <u>0</u>      |
| Na Cl                               | 58.46      | <u>399</u> |       |   | <u>23,326</u> |

REMARKS OIL ANALYSIS: Spec. Gravity = .8867 / API @ 60°F = 22.5 / Pour Point = 87°F



A Procter & Gamble Co.

P.O. BOX 1898  
CORSICANA, TX. 75151

OFFICE:  
TEL: 214/872-3011  
FAX: 214/872-4216

PLANT:  
TEL: 214/874-9500  
FAX: 214/874-9596

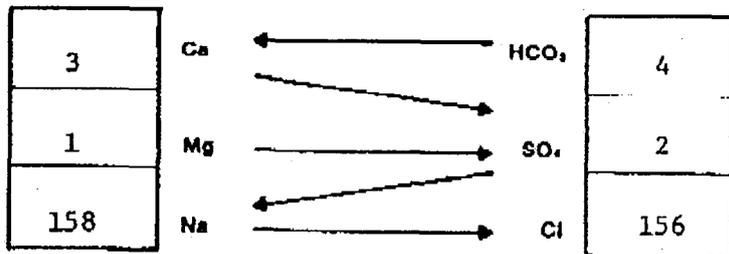
# WATER ANALYSIS REPORT

COMPANY P.G. & E. ADDRESS Vernal, UT. DATE: 10-31-90  
SOURCE 34-33 DATE SAMPLED \_\_\_\_\_ ANALYSIS NO. \_\_\_\_\_

| Analysis   | Mg/l (ppm)                 | *Meq/l                        |
|--|----------------------------|-------------------------------|
| 1. PH  | <u>7.7</u>                 |                               |
| 2. H <sub>2</sub> S (Qualitative)                | <u>4.5</u>                 |                               |
| 3. Specific Gravity                              | <u>1.015</u>               |                               |
| 4. Dissolved Solids                              | <u>9,559</u>               |                               |
| 5. Suspended Solids                              |                            |                               |
| 6. Anaerobic Bacterial Count                     |                            | <u>C/MI</u>                   |
| 7. Methyl Orange Alkalinity (CaCO <sub>3</sub> ) |                            |                               |
| 8. Bicarbonate (HCO <sub>3</sub> )               | <u>HCO<sub>3</sub> 220</u> | <u>+61 4</u> HCO <sub>3</sub> |
| 9. Chlorides (Cl)                                | <u>Cl 5,529</u>            | <u>+35.5 156</u> Cl           |
| 10. Sulfates (SO <sub>4</sub> )                  | <u>SO<sub>4</sub> 100</u>  | <u>+48 2</u> SO <sub>4</sub>  |
| 11. Calcium (Ca)                                 | <u>Ca 64</u>               | <u>+20 3</u> Ca               |
| 12. Magnesium (Mg)                               | <u>Mg 12</u>               | <u>+12.2 1</u> Mg             |
| 13. Total Hardness (CaCO <sub>3</sub> )          | <u>220</u>                 |                               |
| 14. Total Iron (Fe)                              | <u>.4</u>                  |                               |
| 15. Barium (Qualitative)                         |                            |                               |
| 16. Phosphate Residuals                          |                            |                               |

\*MNH equivalents per liter

## PROBABLE MINERAL COMPOSITION



| Compound                            | Eqv. Wt. | X | Meq/l | = | Mg/l  |
|-------------------------------------|----------|---|-------|---|-------|
| Ca (HCO <sub>3</sub> ) <sub>2</sub> | 81.04    |   | 3     |   | 243   |
| Ca SO <sub>4</sub>                  | 68.07    |   |       |   |       |
| Ca Cl <sub>2</sub>                  | 55.50    |   |       |   |       |
| Mg (HCO <sub>3</sub> ) <sub>2</sub> | 73.17    |   | 1     |   | 73    |
| Mg SO <sub>4</sub>                  | 60.19    |   |       |   |       |
| Mg Cl <sub>2</sub>                  | 47.62    |   |       |   |       |
| Na HCO <sub>3</sub>                 | 84.00    |   |       |   |       |
| Na <sub>2</sub> SO <sub>4</sub>     | 71.03    |   | 2     |   | 142   |
| Na Cl                               | 58.46    |   | 156   |   | 9,120 |

| Saturation Values                      | Distilled Water 20°C |
|--|----------------------|
| Ca CO <sub>3</sub>                     | 13 Mg/l              |
| Ca SO <sub>4</sub> · 2H <sub>2</sub> O | 2,090 Mg/l           |
| Mg CO <sub>3</sub>                     | 103 Mg/l             |

REMARKS \_\_\_\_\_



**Jeico  
Chemicals,  
Inc.**

A Procter & Gamble Co.

P.O. BOX 1898  
OFFICE: 214/872-3011

CORSICANA, TEXAS 75110  
PLANT: 214/874-3706  
(U.S.): 800/527-2510

TWX: 910/860-5100  
(TX) 800/442-6261

### WATER ANALYSIS REPORT

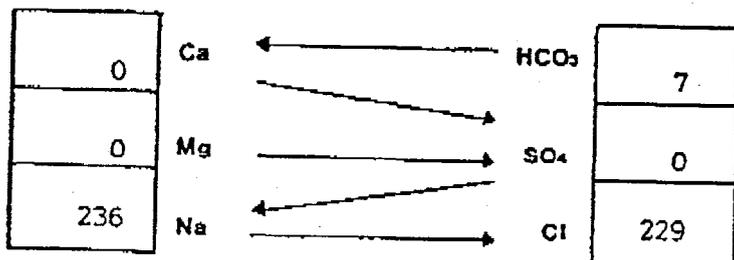
COMPANY: N.G.C. CORP. ADDRESS: Vernal, UT 84078 DATE: 1-22-88

SOURCE: 32-5G DATE SAMPLED: 1-20-88 ANALYSIS NO. \_\_\_\_\_

| Analysis   | Mg/l (ppm)           | *Meq/l                 |
|--|----------------------|------------------------|
| 1. pH  | 8.8                  |                        |
| 2. H <sub>2</sub> S (Qualitative)                  | 0                    |                        |
| 3. Specific Gravity                                | 1.007                |                        |
| 4. Dissolved Solids                                | 13,932               |                        |
| 5. Suspended Solids                                |                      |                        |
| 6. Anaerobic Bacterial Count                       |                      | C/MI                   |
| 7. (Phenolphthalein) Alkalinity (CO <sub>3</sub> ) |                      |                        |
| 8. (Methyl Orange) Alkalinity (HCO <sub>3</sub> )  | 350                  |                        |
| 9. Bicarbonate (HCO <sub>3</sub> )                 | HCO <sub>3</sub> 427 | +61 7 HCO <sub>3</sub> |
| 10. Sulfates (SO <sub>4</sub> )                    | SO <sub>4</sub> 0    | +48 0 SO <sub>4</sub>  |
| 11. Chlorides (Cl)                                 | Cl 8,142             | +35.5 229 Cl           |
| 12. Calcium (Ca)                                   | Ca 2                 | +20 0 Ca               |
| 13. Magnesium (Mg)                                 | Mg 71                | +12.2 6 Mg             |
| 14. Total Hardness (CaCO <sub>3</sub> )            | 300                  |                        |
| 15. Total Iron (Fe)                                | 12                   |                        |
| 16. Barium (Ba)                                    |                      |                        |
| 17. Phosphate Residuals                            |                      |                        |

\*Milli equivalents per liter

### PROBABLE MINERAL COMPOSITION



| Compound                            | Equiv. Wt. | X | Meq/l | = | Mg/l   |
|-------------------------------------|------------|---|-------|---|--------|
| Ca (HCO <sub>3</sub> ) <sub>2</sub> | 81.04      |   |       |   |        |
| Ca SO <sub>4</sub>                  | 68.07      |   |       |   |        |
| Ca Cl <sub>2</sub>                  | 55.50      |   |       |   |        |
| Mg (HCO <sub>3</sub> ) <sub>2</sub> | 73.17      |   | 6     |   | 439    |
| Mg SO <sub>4</sub>                  | 60.19      |   |       |   |        |
| Mg Cl <sub>2</sub>                  | 47.62      |   |       |   |        |
| Na HCO <sub>3</sub>                 | 84.00      |   | 1     |   | 84     |
| Na SO <sub>4</sub>                  | 71.03      |   | 0     |   |        |
| Na Cl                               | 58.46      |   | 229   |   | 13,387 |

| Saturation Values                      | Distilled Water 20°C |
|--|----------------------|
| Ca CO <sub>3</sub>                     | 13Mg/l               |
| Ca SO <sub>4</sub> · 2H <sub>2</sub> O | 2,090 Mg/l           |
| Mg CO <sub>3</sub>                     | 103 Mg/l             |

REMARKS \_\_\_\_\_



P.O. BOX 1898  
 CORSICANA, TX. 75151

OFFICE:  
 TEL: 214/872-3011  
 FAX: 214/872-4216

PLANT:  
 TEL: 214/874-9500  
 FAX: 214/874-9596

# WATER ANALYSIS REPORT

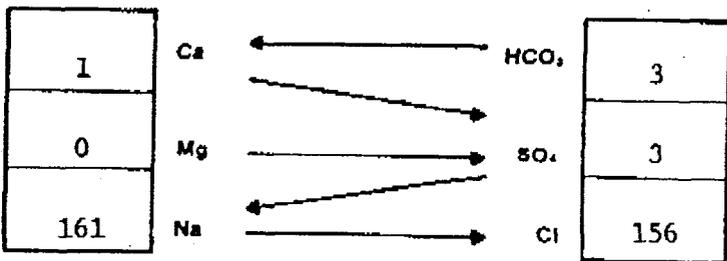
COMPANY P.C. & E. ADDRESS Vernal, UT. DATE: 10-31-90  
 SOURCE 21-4 DATE SAMPLED \_\_\_\_\_ ANALYSIS NO. \_\_\_\_\_

Analysis Mg/l (ppm) Meq/l

|  |              |                             |                               |
|--|--------------|-----------------------------|-------------------------------|
| 1. PH  | <u>8.0</u>   |                             |                               |
| 2. H <sub>2</sub> S (Qualitative)                | <u>.5</u>    |                             |                               |
| 3. Specific Gravity                              | <u>1.014</u> |                             |                               |
| 4. Dissolved Solids                              |              | <u>9,618</u>                |                               |
| 5. Suspended Solids                              |              |                             |                               |
| 6. Anaerobic Bacterial Count                     |              |                             | <u>_____</u> C/MI             |
| 7. Methyl Orange Alkalinity (CaCO <sub>3</sub> ) |              |                             | <u>_____</u>                  |
| 8. Bicarbonate (HCO <sub>3</sub> )               |              | HCO <sub>3</sub> <u>207</u> | +61 <u>3</u> HCO <sub>3</sub> |
| 9. Chlorides (Cl)                                |              | Cl <u>5,529</u>             | +35.5 <u>156</u> Cl           |
| 10. Sulfates (SO <sub>4</sub> )                  |              | SO <sub>4</sub> <u>150</u>  | +48 <u>3</u> SO <sub>4</sub>  |
| 11. Calcium (Ca)                                 |              | Ca <u>24</u>                | +20 <u>1</u> Ca               |
| 12. Magnesium (Mg)                               |              | Mg <u>5</u>                 | +12.2 <u>0</u> Mg             |
| 13. Total Hardness (CaCO <sub>3</sub> )          |              | <u>80</u>                   |                               |
| 14. Total Iron (Fe)                              |              | <u>2.6</u>                  |                               |
| 15. Barium (Qualitative)                         |              |                             |                               |
| 16. Phosphate Residuals                          |              |                             |                               |

\*MEQ equivalents per liter

## PROBABLE MINERAL COMPOSITION



| Compound                            | Eqv. Wt. | X | Meq/l      | = | Mg/l         |
|-------------------------------------|----------|---|------------|---|--------------|
| Ca (HCO <sub>3</sub> ) <sub>2</sub> | 81.04    |   | <u>1</u>   |   | <u>81</u>    |
| Ca SO <sub>4</sub>                  | 68.07    |   |            |   |              |
| Ca Cl <sub>2</sub>                  | 55.50    |   |            |   |              |
| Mg (HCO <sub>3</sub> ) <sub>2</sub> | 73.17    |   |            |   |              |
| Mg SO <sub>4</sub>                  | 60.19    |   |            |   |              |
| Mg Cl <sub>2</sub>                  | 47.62    |   |            |   |              |
| Na HCO <sub>3</sub>                 | 84.00    |   | <u>2</u>   |   | <u>168</u>   |
| Na <sub>2</sub> SO <sub>4</sub>     | 71.03    |   | <u>3</u>   |   | <u>243</u>   |
| Na Cl                               | 58.46    |   | <u>156</u> |   | <u>9,120</u> |

| Saturation Values                      | Distilled Water 20°C |
|--|----------------------|
| Ca CO <sub>3</sub>                     | 13 Mg/l              |
| Ca SO <sub>4</sub> · 2H <sub>2</sub> O | 2,090 Mg/l           |
| Mg CO <sub>3</sub>                     | 103 Mg/l             |

REMARKS \_\_\_\_\_



P.O. BOX 1532

ROOSEVELT, UTAH 84066

OFFICE: (801) 722-3693

### WATER ANALYSIS REPORT

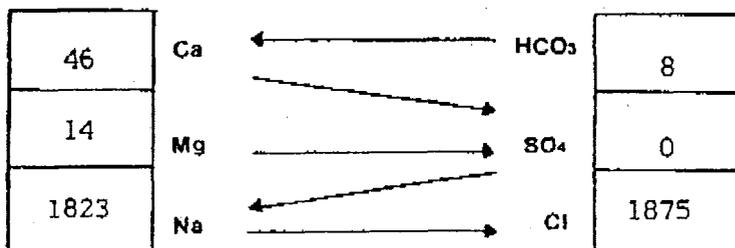
COMPANY P G & E ADDRESS \_\_\_\_\_ DATE: 12-01-89

SOURCE 14-34B DATE SAMPLED 11-30-89 ANALYSIS NO. \_\_\_\_\_

| Analysis  | Mg/L (ppm)                  | *Meq/L                        |
|---|-----------------------------|-------------------------------|
| 1. pH   | <u>6.4</u>                  |                               |
| 2. H <sub>2</sub> S (Qualitative)                 | <u>0</u>                    |                               |
| 3. Specific Gravity                               | <u>1.076</u>                |                               |
| 4. Dissolved Solids                               | <u>110,035</u>              |                               |
| 5. Suspended Solids                               |                             |                               |
| 6. Anaerobic Bacterial Count                      | <u>CI</u>                   | <u>C/MI</u>                   |
| 7. (Methyl Orange) Alkalinity (HCO <sub>3</sub> ) | <u>380</u>                  |                               |
| 8. Bicarbonate (HCO <sub>3</sub> )                | HCO <sub>3</sub> <u>464</u> | +61 <u>8</u> HCO <sub>3</sub> |
| 9. Chlorides (Cl)                                 | Cl <u>66,552</u>            | +35.5 <u>1875</u> Cl          |
| 10. Sulfates (SO <sub>4</sub> )                   | SO <sub>4</sub> <u>0</u>    | +48 <u>0</u> SO <sub>4</sub>  |
| 11. Calcium (Ca)                                  | Ca <u>920</u>               | +20 <u>46</u> Ca              |
| 12. Magnesium (Mg)                                | Mg <u>170</u>               | +12.2 <u>14</u> Mg            |
| 13. Total Hardness (CaCO <sub>3</sub> )           | <u>3000</u>                 |                               |
| 14. Total Iron (Fe)                               | <u>120</u>                  |                               |
| 15. Barium (Ba)                                   |                             |                               |
| 16. Phosphate Residuals                           |                             |                               |

\*Milli equivalents per liter

#### PROBABLE MINERAL COMPOSITION



| Compound                            | Equiv. Wt. | X | Meq/L | = | Mg/L    |
|-------------------------------------|------------|---|-------|---|---------|
| Ca (HCO <sub>3</sub> ) <sub>2</sub> | 81.04      |   | 8     |   | 648     |
| Ca SO <sub>4</sub>                  | 68.07      |   |       |   |         |
| Ca Cl <sub>2</sub>                  | 55.50      |   | 38    |   | 2109    |
| Mg (HCO <sub>3</sub> ) <sub>2</sub> | 73.17      |   |       |   |         |
| Mg SO <sub>4</sub>                  | 60.19      |   |       |   |         |
| Mg Cl <sub>2</sub>                  | 47.62      |   | 14    |   | 667     |
| Na HCO <sub>3</sub>                 | 84.00      |   |       |   |         |
| Na SO <sub>4</sub>                  | 71.03      |   |       |   |         |
| Na Cl                               | 58.46      |   | 1823  |   | 106,573 |

| Saturation Values                      | Distilled Water 20°C |
|--|----------------------|
| Ca CO <sub>3</sub>                     | 13 Mg/L              |
| Ca SO <sub>4</sub> · 2H <sub>2</sub> O | 2,090 Mg/L           |
| Mg CO <sub>3</sub>                     | 103 Mg/L             |

REMARKS Resistivity = .14 Ohms / meter

**ELECTRIC LOG SECTIONS**





# AFFIDAVIT OF PUBLICATION

County of Duchesne,  
STATE OF UTAH

I, Craig L. Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue of such newspaper for 1 consecutive issues, and that the first publication was on the 14 day of Dec, 1993, and that the last publication of such notice was in the issue of such newspaper dated the 14 day of Dec, 1993.

Subscribed and sworn to before me this

17 day of Dec, 1993

Jean Ercanbrack

Notary Public  
**JEAN ERCANBRACK**  
NOTARY PUBLIC - STATE OF UTAH  
130 NORTH SKYLINE (55-5)  
ROOSEVELT, UT 84066  
COMM. EXP. 6-2-96

## NOTICE OF AGENCY ACTION

CAUSE NO. UIC-141  
IN THE MATTER OF THE APPLICATION OF PG & E RESOURCES COMPANY FOR ADMINISTRATIVE APPROVAL OF THE FEDERAL 41-5G, FEDERAL 14-33B, FEDERAL 14-33B, FEDERAL 14-34B, FEDERAL 32-5G, FEDERAL 43-33B, FEDERAL 21-4G WELLS LOCATED IN SECTIONS 33 & 34, TOWNSHIP 8 SOUTH, RANGE 16 EAST, AND SECTIONS 4 & 5, TOWNSHIP 9 SOUTH, RANGE 16 EAST, S.1.M., DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.  
THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division is commencing an informal adjudicative proceeding to consider the application of PG & E Resources Company for administrative approval of the Federal 41-5G, Federal 14-33B, Federal 14-34B, Federal 32-5G, Federal 43-33B, and Federal 21-4G Wells, located in Sections 33 & 34, Township 8 South, Range 16 East, and Sections 4 & 5, Township 9 South, Range 16 East, Duchesne County, Utah, for conversion to Class II injection wells. The proceeding will be conducted in accordance with Utah Admin. R. 649-10, Administrative Procedures.

611  
FYF  
RECEIVED

DEC 22 1993

DIVISION OF OIL, GAS & MINING

Approval has been requested to inject water for the purpose of water flooding in the interval from 4352 feet to 6282 feet (Green River Formation). The average injection pressure is estimated to be 2000 psig or less with a maximum requested injection pressure of 2145 psig. The estimated injection volume will be approximately 400 barrels of water per day.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days of the date of publication of this notice. If such a protest or notice of intervention is received, a hearing may be scheduled before the Board of Oil, Gas, and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 15 day of December, 1993.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING, R.J. Firth, Associate Director, Oil and Gas  
Published in the Uintah Basin December 14, 1993

100

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

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.

NOV 7 1994  
BUREAU OF OIL, GAS & MINING

5. Lease Designation and Serial No.

U-49092

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

Wells Draw Unit

8. Well Name and No.

Federal 34-33B

9. API Well No.

43-013-31269

10. Field and Pool, or Exploratory Area

Monument Butte

11. County or Parish, State

Duchesne County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

PG&E Resources Company

3. Address and Telephone No.

6688 N. Central Expwy., Suite 1000, Dallas, TX 75206

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

614' FSL & 1885' FEL SW/4 SE/4 Section 33, T8S-R16E

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

| TYPE OF SUBMISSION   | TYPE OF ACTION   |
|--|--|
| <input type="checkbox"/> Notice of Intent<br><input checked="" type="checkbox"/> Subsequent Report<br><input type="checkbox"/> Final Abandonment | <input type="checkbox"/> Abandonment<br><input type="checkbox"/> Recompletion<br><input type="checkbox"/> Plugging Back<br><input type="checkbox"/> Casing Repair<br><input type="checkbox"/> Altering Casing<br><input checked="" type="checkbox"/> Other <u>Conversion History</u><br><input type="checkbox"/> Change of Plans<br><input type="checkbox"/> New Construction<br><input type="checkbox"/> Non-Routine Fracturing<br><input type="checkbox"/> Water Shut-Off<br><input checked="" type="checkbox"/> Conversion to Injection<br><input type="checkbox"/> Dispose Water<br><small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log from.)</small> |

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.)\*

See attached daily reports for conversion to WIW.

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

Signed

*Cindy R. Foster*

Title

Supervisor Regulatory Compliance

Date

11/04/1994

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

## WELL HISTORY

**Federal 34-33B**  
Wells Draw Field  
Duschene County, Utah  
(DALEN Resources Operated)

- 10-31-94      MIRU. Unseat pump & flush tbg with hot wtr. POOH with R4 pump, unseat tbg anchor & move TS to check sand below btm perms (ok). Install BOPE, SDFN.
- 11-01-94      LD 2-7/8" prod string. RD well service, WO inj pkr DROP UNTIL FURTHER ACTIVITY.



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

January 31, 1994

PG & E Resources Company  
6688 N. Central Expressway, Suite 1000  
Dallas, Texas 75206-3922

Re: Wells Draw Unit 41-5G, 14-33B, 34-33B, 14-34B, 32-5G, 43-33B, and 21-4G  
Wells, Sections 33 & 34, Township 8 South, Range 16 East, and Sections 4 &  
5, Township 9 South, Range 16 East, Duchesne County, Utah

Gentlemen:

In accordance with Utah Admin. Code R.649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced wells to Class II injection wells.

The following stipulations shall apply for compliance with this approval:

1. Full compliance with all applicable requirements regarding operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R.649-1 et seq.
2. Conformance with all conditions and requirements of the completed applications submitted.

Following completion of all well conversion work, pressure testing operations and submittal of the results to the Division; a final UIC permit will be issued. If you have any questions regarding this approval or the necessary requirements, please contact Dan Jarvis at this office.

Sincerely,

  
R.J. Firth  
Associate Director

ldc

cc: Dan Jackson, Environmental Protection Agency  
Bureau of Land Management

W602



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

RECEIVED  
DEC 5 1994  
DIV. OF OIL, GAS & MINING

|   |
|---|
| 6. Lease Designation and Serial Number<br>U-49092     |
| 7. Indian Allottee or Tribe Name<br>NA                |
| 8. Unit or Communization Agreement<br>Wells Draw Unit |
| 9. Well Name and Number<br>Federal 34-33B             |
| 10. API Well Number<br>43-013-31269                   |
| 11. Field and Pool, or Wildcat<br>Monument Butte      |

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT—for such proposals.

1. Type of Well  
 Oil Well     Gas Well     Other (Specify) WIW

2. Name of Operator  
 DALEN Resources Oil & Gas Co.

3. Address of Operator  
 6688 N. Central Expwy., Suite 1000, Dallas, TX 75206

4. Telephone Number  
 (214) 750-3800

5. Location of Well  
 Footage : 614' FSL & 1885' FEL SW/4 SE/4    County : Duchesne  
 QQ. Sec, T., R., M. : Section 33, T8S-R16E    State : UTAH

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

**NOTICE OF INTENT**  
(Submit in Duplicate)

|  |   |
|--|---|
| <input type="checkbox"/> Abandonment             | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Casing Repair           | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans         | <input type="checkbox"/> Recompletion         |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize     |
| <input type="checkbox"/> Fracture Treat          | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Multiple Completion     | <input type="checkbox"/> Water Shut-Off       |
| <input type="checkbox"/> Other _____             |   |

Approximate Date Work Will Start \_\_\_\_\_

**SUBSEQUENT REPORT**  
(Submit in Duplicate)

|  |   |
|--|---|
| <input type="checkbox"/> Abandonment *                       | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Casing Repair                       | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans                     | <input type="checkbox"/> Shoot or Acidize     |
| <input type="checkbox"/> Conversion to Injection             | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Fracture Test                       | <input type="checkbox"/> Water Shut-Off       |
| <input checked="" type="checkbox"/> Other <u>Test Casing</u> |   |

Date of Work Completion 11/04/94

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.

13. 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.)

DALEN Resources tested the casing to 1500 psi on 11/04/94 as shown on the attached report.

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

Name & Signature Cindy R. Keister *Cindy R. Keister* Title Supervisor Regulatory Compliance Date 11/28/1994

(State Use Only) CC: BLM - Vernal

## WELL HISTORY

**Federal 34-33B**  
Wells Draw Field  
Duschene County, Utah  
(DALEN Resources Operated)

- 10-31-94      MIRU. Unseat pump & flush tbg with hot wtr. POOH with R4 pump, unseat tbg anchor & move TS to check sand below btm perms (ok). Install BOPE, SDFN.
- 11-01-94      LD 2-7/8" prod string. RD well service, WO inj pkr. DROP UNTIL FURTHER ACTIVITY.
- 11-04-94      MIRU Western. RIH with 5½" Elder Sur-Loc csg & pkr (Lok-Set type) on 2-7/8" coated inj tbg. Drop SV, test 2-7/8" tbg to 3000 psi for 15 min (ok). Run sand line & retrieved SV. Pump 30 bbl on inhib pkr fluid down back side, set pkr at 4872' with 15,000 lbs tension. NU inj head, fill back side with inhib pkr fluid, test back side to 1500 psi for 15 min (ok). Spot 1 bbl diesel in backside. RR for freeze control. DROP UNTIL FURTHER ACTIVITY.



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~~) *Surety U1870145/80,000. "Rider to Deben" rec'd 10-3-94. \*Trust Land/Ed "Rider" Aprv. 10-5-94 # U2164274/80,000.*

- 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 <sup>*Upon compl. of routing.*</sup> and former operators' bond files.
- Yes*/  
*N/A* 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.
- DTD* 2. Copies of documents have been sent to State Lands for changes involving State leases. *2/8/94 to Ed Bonin*

FILMING

1. All attachments to this form have been microfilmed. Date: December 15 1994.

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

*941108 Bbm/s.f. Not aprv. yet!*

*941125 " Aprv.'d.*

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

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

U-49092

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT AGREEMENT NAME

Wells Draw Unit

8. FARM OR LEASE NAME

Federal

9. WELL NO.

34-33-B

10. FIELD AND POOL, OR WILDCAT

Monument Butte

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

Section 33, T8S, R16E

12. COUNTY OR PARISH

Duchesne

13. STATE

Utah

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG \***

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

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

2. NAME OF OPERATOR

DALEN Resources Oil & Gas Co.

3. ADDRESS OF OPERATOR

6688 N. Central Expwy., Suite 1000, Dallas, TX 75206

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

At surface 614' FSL & 1885' FEL SW/4 SE/4 Sec. 33

At top prod. interval reported below Same

At total depth Same

14. PERMIT NO.

43-013-31269

DATE ISSUED

03/30/90

12. COUNTY OR PARISH

Duchesne

13. STATE

Utah

15. DATE SPUNDED

04/24/90

16. DATE T.D. REACHED

05/06/90

17. DATE COMPL. (Ready to prod.)

11/04/94

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

5711' RKB

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

6400'

21. PLUG, BACK T.D., MD & TVD

6314'

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

ROTARY TOOLS

XX

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\*

4948' - 5925' (Green River Injection Interval)

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

CDL/CSN/DLL/MGRD\CBL

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#             | 305'           | 12-1/4"   | 225sx Class "G" w/additives                   | 0             |
| 5-1/2"      | 17#             | 6392'          | 7-7/8"    | 194sx HI-Lift w/additives +<br>540sx 10-0 RFC | 0             |

29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) | SIZE   | DEPTH SET (MD) | PACKER SET (MD) |
|------|----------|-------------|---------------|-------------|--------|----------------|-----------------|
|      |          |             |               |             | 2-7/8" | 4872'          | 4872'           |

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

4948' - 5049' 5879' - 5925' 0.45" Holes  
5119' - 5266'  
5564' - 5578'  
5682' - 5773'

32. ACID, SHOT, FRACTURE, CEMENT

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---------------------|----------------------------------|
|                     |                                  |
|                     |                                  |
|                     |                                  |
|                     |                                  |

33.\* PRODUCTION

| DATE FIRST PRODUCTION | PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) | WELL STATUS (Producing or shut-in) |
|-----------------------|---|------------------------------------|
|                       |   |                                    |

| 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.) |
|---------------------|-----------------|-------------------------|-----------|-----------|-------------|-------------------------|
|                     |                 |                         |           |           |             |                         |

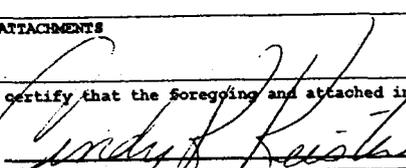
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

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

SIGNED



TITLE

Supervisor Regulatory Compliance

DATE

12/29/1994

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

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):

38.

GEOLOGIC MARKERS

| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. | NAME         | TOP         |                  |
|-----------|-----|--------|-----------------------------|--------------|-------------|------------------|
|           |     |        |                             |              | MEAS. DEPTH | TRUE VERT. DEPTH |
|           |     |        |                             | Green River  |             | 1769'            |
|           |     |        |                             | D. C. Marker |             | 4910'            |
|           |     |        |                             | Basal L.S.   |             | 6248'            |

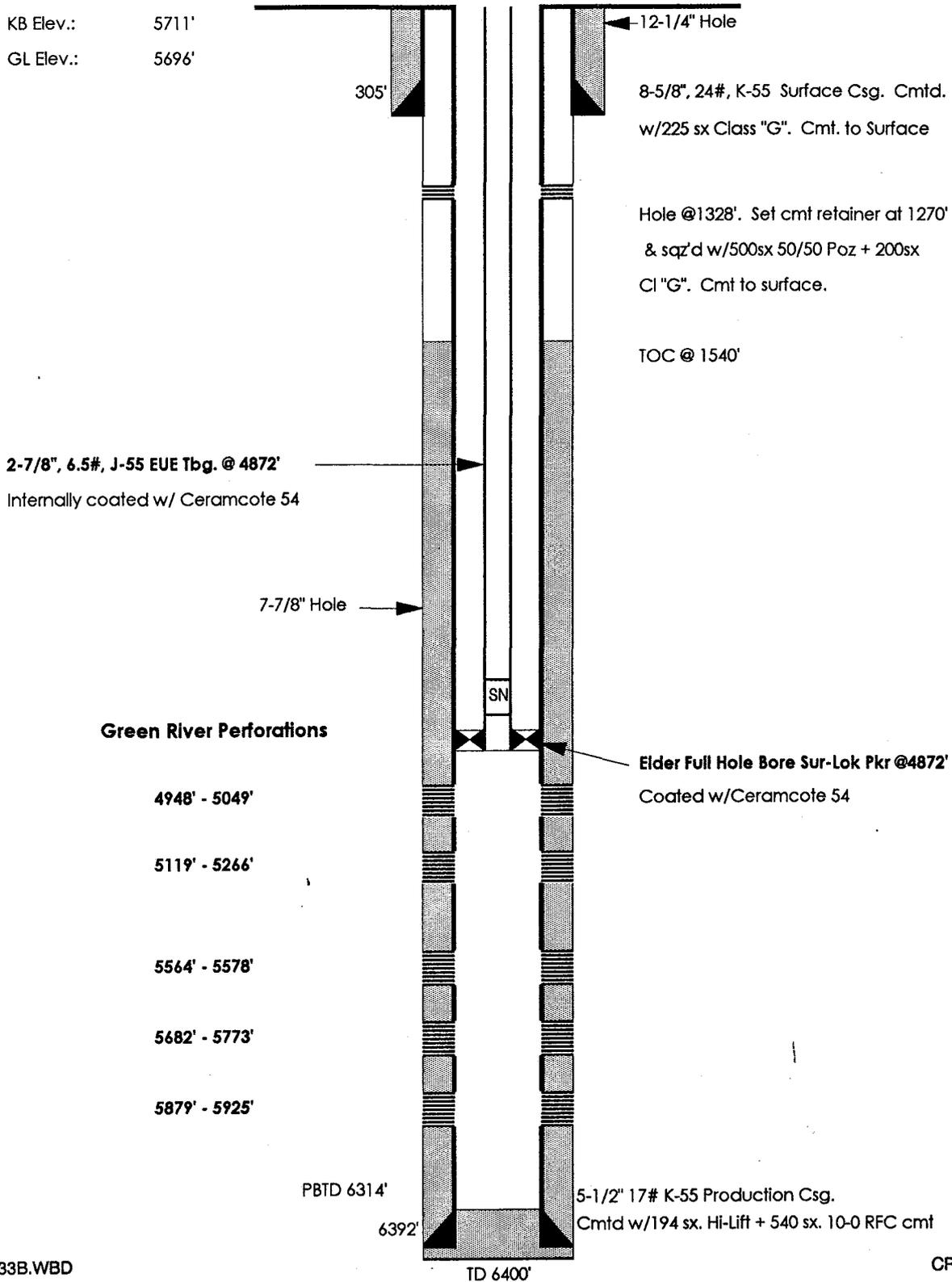
# FEDERAL 34-33B WIW

WELLS DRAW UNIT  
Duchesne County, Utah

Sec. 33, T8S-R16E  
614' FSL & 1885' FEL  
SW/4 SE/4

Spud date: 4/24/90  
TD Date: 5/6/90  
Compl. Date: 6/19/90  
Conversion Dt: 11/4/94

KB Elev.: 5711'  
GL Elev.: 5696'



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well     Gas Well     Other WIW

2. Name of Operator  
 DALEN Resources Oil & Gas Co.

3. Address and Telephone No.  
 6688 N. Central Expwy., Suite 1000, Dallas, TX 75206

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)  
 614' FSL & 1885' FEL SW/4 SE/4 Section 33, T8S-R16E

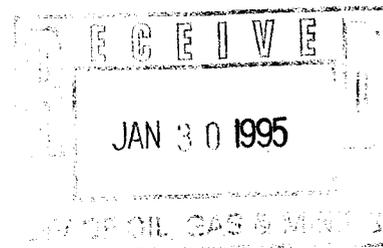
5. Lease Designation and Serial No.  
 U-49092  
 6. If Indian, Allottee or Tribe Name  
 NA  
 7. If Unit or CA, Agreement Designation  
 Wells Draw Unit  
 8. Well Name and No.  
 Federal 34-33B  
 9. API Well No.  
 43-013-31269  
 10. Field and Pool, or Exploratory Area  
 Wells Draw (GR)  
 11. County or Parish, State  
 Duchesne County, Utah

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

| TYPE OF SUBMISSION   | TYPE OF ACTION  |
|--|---|
| <input type="checkbox"/> Notice of Intent<br><input checked="" type="checkbox"/> Subsequent Report<br><input type="checkbox"/> Final Abandonment | <input type="checkbox"/> Abandonment<br><input type="checkbox"/> Recompletion<br><input type="checkbox"/> Plugging Back<br><input type="checkbox"/> Casing Repair<br><input type="checkbox"/> Altering Casing<br><input checked="" type="checkbox"/> Other <u>First water injection</u><br><input type="checkbox"/> Change of Plans<br><input type="checkbox"/> New Construction<br><input type="checkbox"/> Non-Routine Fracturing<br><input type="checkbox"/> Water Shut-Off<br><input checked="" type="checkbox"/> Conversion to Injection<br><input type="checkbox"/> Dispose Water<br><small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log from.)</small> |

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.)\*

DALEN Resources began injecting water on January 11, 1995 at a rate of 145 BWPD. We plan to increase the injection rate to 425 BWPD.



14. I hereby certify that the foregoing is true and correct  
 Signed Cindy B. Keister Title Supervisor Regulatory Compliance Date 01/24/1995  
 (This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
 Conditions of approval, if any:

CC: Utah DOGM

**ENSERCH**  
**EXPLORATION** INC

4849 Greenville Avenue, Suite 1200  
Dallas, Texas 75206-4186

January 18, 1996

State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203

Attention: Mr. Dan Jarvis

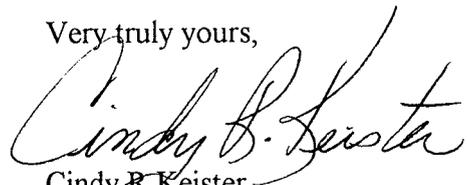
RE: Operator Changes - UIC Wells  
Pleasant Valley Unit  
Wells Draw Unit  
West Willow Creek Unit  
Duchesne & Uintah Counties, Utah

Gentlemen:

Attached is an original and one (1) copy of UIC Form 5 "Transfer of Authority to Inject" changing the operator from DALEN Resources Oil & Gas Co. to Enserch Exploration, Inc. for the water and gas injection wells in the referenced units. Also attached is a copy of the Certificate of Merger from the Secretary of the State of Texas certifying the Articles of Merger.

If you have any questions or need further information, please contact the undersigned at 214/987-6353.

Very truly yours,



Cindy R. Keister  
Regulatory Compliance Specialist

CRK/ck

Attachments

cc: Central File  
Regulatory File

**ENSERCH  
EXPLORATION** INC

4849 Greenville Ave., Suite 1200  
Dallas, Texas 75206-4186  
214/369-7893

January 11, 1996

Bureau of Land Management  
Utah State Office  
324 South State  
Salt Lake City, UT 84111

Attention: Mr. Chris Merritt

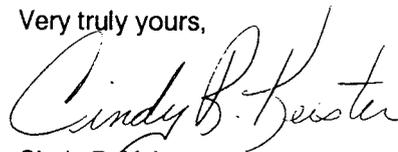
RE: Operator Name Change

Dear Mr. Merritt:

DALEN Resources Oil & Gas Co. has been merged into Enserch Exploration, Inc. effective January 1, 1996. Attached is a list of the properties that were operated by DALEN Resources and a copy of the Certificate of Merger from the Secretary of the State of Texas. Please change the operator name on these properties. Enserch Exploration, Inc. operates under Nationwide Bond No. 203826, BLM assigned No. MT-0680.

If you have any questions or need further information, please contact the undersigned at (214) 987-6363.

Very truly yours,



Cindy R. Keister  
Regulatory Compliance Specialist

CRK/ck

Attachments

cc: Vernal BLM Office w/attachments

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

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

FEB 12 1996

IN REPLY REFER TO:  
3100  
U-01470A et al  
UT-923

FEB 09 1996

NOTICE

Enserch Exploration, Inc. : Oil and Gas  
4849 Greenville Ave., Suite 1200 : U-01470A et al  
Dallas, Texas 75206-4186 :

Merger Recognized

Acceptable evidence has been filed in this office concerning the merger of DALEN Resources Oil & Gas Co. into Enserch Exploration, Inc. with Enserch Exploration, Inc. being the surviving entity.

For our purposes, the merger is recognized effective December 31, 1995 (Secretary of State's approval date).

The oil and gas lease files identified on the enclosed exhibit 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. If additional documentation for changes of operator are required by our Field offices, you will be contacted by them.

If you identify other leases in which the merging entity maintains an interest, please contact this office and we will appropriately document those files with a copy of this notice.

By recognition of the merger, the principal/obligor is automatically changed by operation of law from DALEN Resources Oil & Gas Co. to Enserch Exploration, Inc. on Bond No. U1870111 (BLM Bond No. WY2554). This is a nationwide bond held in the Wyoming State Office. Enserch Exploration, Inc. has a nationwide bond, No. 203826 (BLM Bond No. MT0680) on file in the Montana State Office. Only one of the bonds is required to cover liabilities for lease obligations. However, both bonds will remain in effect until the principal/obligor advises the appropriate BLM State Office which bond it wishes to maintain and which bond it wishes to have the period of liability terminated. A rider, assuming any and all liabilities of the bond you wish to terminate must be submitted for approval to the appropriate BLM State Office. If you have any questions concerning the bonding, please contact Irene Anderson at (801) 539-4108.

/s/ ROBERT LOPEZ

Chief, Branch of Mineral  
Leasing Adjudication

Enclosure

1. Exhibit (1p)

bc: State of Utah, Division of Oil, Gas & Mining, Attn: Lisha Cordova,  
3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1204  
MMS-Data Management Division, MS 3113, P.O. Box 5860, Denver, CO 80217  
Moab District Office  
Vernal District Office  
Teresa Thompson (UT-920)  
Irene Anderson (UT-923)

UTAH WELLS  
ENSERCH EXPLORATION, INC.

1/11/96

| UNIT | WELL    |         | LSE NO.     | API NO.       | QTR   | SEC. | TWN | RANGE | COUNTY   |       |
|------|---------|---------|-------------|---------------|-------|------|-----|-------|----------|-------|
| *    | Federal | 11- 4G  | U-30096     | ✓43-013-31250 | NW NW | 4    | 9S  | 16E   | Duchesne |       |
| *    | Federal | 12- 4G  | U-30096     | ✓43-013-3699  | SW NW | 4    | 9S  | 16E   | Duchesne | 30699 |
| ✓*   | Federal | 21- 4G  | U-30096     | 43-013-31272  | NE NW | 4    | 9S  | 16E   | Duchesne | (W/W) |
| *    | Federal | 31- 4G  | U-30096     | ✓43-013-31228 | NW SE | 4    | 9S  | 16E   | Duchesne |       |
| *    | Federal | 42- 4G  | U-30096     | ✓43-013-30638 | SE NE | 4    | 9S  | 16E   | Duchesne |       |
| *    | Federal | 21- 5G  | U-30096     | ✓43-013-30698 | NE NW | 5    | 9S  | 16E   | Duchesne | 30698 |
| *    | Federal | 22- 5G  | U-30096     | ✓43-013-31273 | SE NW | 5    | 9S  | 16E   | Duchesne |       |
| *    | Federal | 23- 5G  | U-30096     | ✓43-013-31207 | NE SW | 5    | 9S  | 16E   | Duchesne |       |
| *    | Federal | 31- 5G  | U-30096     | ✓43-013-31252 | NW NE | 5    | 9S  | 16E   | Duchesne |       |
| ✓*   | Federal | 32- 5G  | U-30096     | 43-013-30670  | SW NE | 5    | 9S  | 16E   | Duchesne | W/W   |
| ✓*   | Federal | 41- 5G  | U-30096     | 43-013-31205  | NE SW | 5    | 9S  | 16E   | Duchesne | W/W   |
| *    | Federal | 43- 5G  | U-034217-AV | 43-013-30858  | NE SE | 5    | 9S  | 16E   | Duchesne |       |
| *    | Federal | 13- 33B | U-49092     | ✓43-013-31277 | NW SW | 33   | 8S  | 16E   | Duchesne |       |
| ✓*   | Federal | 14- 33B | U-49092     | 43-013-31229  | SW SW | 33   | 8S  | 16E   | Duchesne | W/W   |
| *    | Federal | 23- 33B | U-49092     | ✓43-013-31251 | NE SW | 33   | 8S  | 16E   | Duchesne |       |
| *    | Federal | 24- 33B | U-49092     | ✓43-013-31214 | SE SW | 33   | 8S  | 16E   | Duchesne |       |
| *    | Federal | 33- 33B | U-49092     | ✓43-013-31268 | NW SE | 33   | 8S  | 16E   | Duchesne |       |
| ✓*   | Federal | 34- 33B | U-49092     | 43-013-31269  | SW SE | 33   | 8S  | 16E   | Duchesne | W/W   |
| ✓*   | Federal | 43- 33B | U-49092     | 43-013-31240  | NE SE | 33   | 8S  | 16E   | Duchesne | W/W   |
| *    | Federal | 44- 33B | U-49092     | ✓43-013-31270 | SE SE | 33   | 8S  | 16E   | Duchesne |       |
| *    | Federal | 13- 34B | U-47171     | ✓43-013-31271 | NW SW | 34   | 8S  | 16E   | Duchesne |       |
| ✓*   | Federal | 14- 34B | U-47171     | 43-013-31225  | SW SW | 34   | 8S  | 16E   | Duchesne | W/W   |
| *    | Federal | 23- 34B | U-47171     | ✓43-013-31241 | NE SW | 34   | 8S  | 16E   | Duchesne |       |
| **   | Federal | 14- 4   | U-07978     | ✓43-013-30671 | SW SW | 4    | 9S  | 17E   | Duchesne |       |
| **   | Federal | 34- 5   | UTU-72108   | ✓43-013-30721 | SW SE | 5    | 9S  | 17E   | Duchesne |       |
| **   | Federal | 44- 5   | UTU-72108   | ✓43-013-30913 | SE SE | 5    | 9S  | 17E   | Duchesne |       |
| **   | Federal | 12- 8H  | U-10760     | ✓43-013-30680 | SW NW | 8    | 9S  | 17E   | Duchesne |       |
| **   | Federal | 21- 8H  | U-10760     | ✓43-013-31460 | NE NW | 8    | 9S  | 17E   | Duchesne |       |
| **   | Federal | 22- 8H  | U-10760     | ✓43-013-31457 | SE NW | 8    | 9S  | 17E   | Duchesne |       |
| **   | Federal | 31- 8H  | U-10760     | ✓43-013-30679 | NW NE | 8    | 9S  | 17E   | Duchesne |       |
| **   | Federal | 32- 8H  | U-10760     | ✓43-013-30542 | SW NE | 8    | 9S  | 17E   | Duchesne |       |
| **   | Federal | 41- 8H  | U-10760     | ✓43-013-30741 | NE NE | 8    | 9S  | 17E   | Duchesne |       |
| **   | Federal | 42- 8H  | U-10760     | ✓43-013-30678 | SE NE | 8    | 9S  | 17E   | Duchesne | ORL   |
|      | Federal | 24- 15H | U-10760     | ✓43-013-30681 | SE SW | 15   | 9S  | 17E   | Duchesne |       |
| **   | Federal | 11- 9H  | U-50750     | ✓43-013-30887 | NW NW | 9    | 9S  | 17E   | Duchesne |       |
| **   | Federal | 12- 9H  | U-50750     | ✓43-013-30983 | SW NW | 9    | 9S  | 17E   | Duchesne |       |
| **   | Federal | 13- 9H  | U-50750     | ✓43-013-30656 | NW SW | 9    | 9S  | 17E   | Duchesne |       |
| **   | Federal | 14- 9H  | U-50750     | ✓43-013-31459 | SW SW | 9    | 9S  | 17E   | Duchesne |       |
|      | Federal | 32-29   | U-19267     | ✓43-047-31175 | SWNE  | 29   | 9S  | 18E   | WINSTAN  | POW   |

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

FEB - 5 1996

Well name and number: Federal 34-33B  
Field or Unit name: Wells Draw Unit API no. 43-013-31270 <sup>31269</sup>  
Well location: QQ SE section 33 township 8S range 16E county Duchesne  
Effective Date of Transfer: 01/01/96

**CURRENT OPERATOR**

Transfer approved by:

Name Cindy R. Keister Company DALEN Resources Oil & Gas Co.  
Signature Cindy R. Keister Address 6688 N. Central Expwy., Suite  
Title Regulatory Compliance Specialist Dallas, TX 75206  
Date 01/18/96 Phone ( 214 ) 987-6353

Comments: DALEN Resources was merged into Enserch Exploration, Inc.

**NEW OPERATOR**

Transfer approved by:

Name Cindy R. Keister Company Enserch Exploration, Inc.  
Signature Cindy R. Keister Address 4849 Greenville Ave., Suite 1200  
Title Regulatory Compliance Specialist Dallas, TX 75206  
Date 01/18/96 Phone ( 214 ) 987-6353

Comments:

(State use only)

Transfer approved by A. B. T. Title Environ. Manager  
Approval Date 2-13-96

**ARTICLES OF MERGER OF****DALEN Corporation****INTO****Enserch Exploration, Inc.**

|   |
|---|
| FILED<br>In the Office of the<br>Secretary of State of Texas<br><br>DEC 19 1995<br><br>Corporations Section |
|---|

Pursuant to the provisions of Article 5.16 of the Texas Business Corporation Act, Enserch Exploration, Inc., a corporation organized under the laws of the State of Texas ("Parent Corporation"), and owning at least ninety percent of the shares of DALEN Corporation, a corporation organized under the laws of the State of Delaware ("Subsidiary Corporation"), hereby executes the following Articles of Merger:

1. The name of the Parent Corporation is Enserch Exploration, Inc. The name of the Subsidiary Corporation is DALEN Corporation. Enserch Exploration, Inc. is incorporated in Texas, and DALEN Corporation is incorporated in Delaware.

2. The following is a copy of resolutions of the Board of Directors of Enserch Exploration, Inc. or Parent Corporation ("Enserch") adopted on December 5, 1995:

"WHEREAS Section 5.16 of the Texas Business Corporation Act permits short-form mergers if the subsidiary is a foreign corporation and the parent is a Texas corporation, provided that this procedure is permitted by the laws of the foreign corporation's jurisdiction of incorporation and

"WHEREAS Section 253 of the General Corporation Law of Delaware provides for short-form mergers between a domestic subsidiary corporation and a foreign parent corporation,

"RESOLVED, That DALEN Corporation, a Delaware corporation ('DALEN'), which is a wholly-owned subsidiary of Enserch, merge with and into Enserch Exploration, Inc. pursuant to Section 5.16 of the Texas Business Corporation Act (the 'Merger'), effective as of 4:55 P.M., Dallas, Texas time, on December 31, 1995, and that Enserch Exploration, Inc. assume all of the obligations of DALEN at such time; and

"FURTHER RESOLVED, That the proper officers of this Company are hereby authorized and empowered to file with the Secretary of State of the State of Texas Articles of Merger and with the Secretary of State of Delaware a Certificate of Ownership and Merger to effect the Merger of DALEN into this Company and to take, or cause to be taken, all such further action and to execute and deliver or cause to be executed and delivered, in the name of and on behalf of this Company, all such further instruments and documents as any such officer may deem to be necessary or advisable in order to effect the purpose and intent of the foregoing resolutions and to be in the best interests of this Company (as conclusively evidenced by the taking of such action or the execution and delivery of such instruments and documents, as the case may be, by or under the direction of any such officer)."

3. The number of outstanding shares of each class of the Subsidiary Corporation and the number of shares of each class owned by the surviving Parent Corporation is:

| Company                | Class  | No. of Shares Outstanding | No. of Shares Owned by Parent Corporation |
|------------------------|--------|---------------------------|---|
| Subsidiary Corporation | Common | 100                       | 100                                       |

4. The laws of Delaware, the jurisdiction under which Subsidiary Corporation is organized, permit such a merger.

Dated this 12th day of December, 1995.

ENSERCH EXPLORATION, INC.

By: J. W. Pinkerton  
 Name: J. W. Pinkerton  
 Title: Vice President and Controller,  
 Chief Accounting Officer



# The State of Texas

SECRETARY OF STATE

I, ANTONIO O. GARZA, JR., Secretary of State of Texas, DO HEREBY CERTIFY that Articles of Merger of **ENSERCH EXPLORATION, INC.** (Charter No. 1323890-00), a **TEXAS** corporation, and **DALEN CORPORATION**, a **DELAWARE (No Permit)** corporation, were filed in this office on **DECEMBER 19, 1995**, for which a certificate of merger was issued; and that according to the terms of the merger the surviving corporation is **ENSERCH EXPLORATION, INC.**, a **TEXAS** corporation.

*IN TESTIMONY WHEREOF, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in the City of Austin, on December 19, 1995.*



*Antonio O. Garza, Jr.*

Antonio O. Garza, Jr.  
Secretary of State

MAC



# The State of Texas

## SECRETARY OF STATE CERTIFICATE OF MERGER

The undersigned, as Secretary of State of Texas, hereby certifies that the attached Articles of Merger of

DALEN CORPORATION  
a Delaware no permit corporation  
with  
ENSERCH EXPLORATION, INC.  
a Texas corporation

have been received in this office and are found to conform to law. ACCORDINGLY, the undersigned, as Secretary of State, and by virtue of the authority vested in the Secretary by law, hereby issues this Certificate of Merger.

Dated December 19, 1995.

Effective December 31, 1995 04:55 PM



---

Antonio O. Garza, Jr.  
Secretary of State

Exhibit of Leases

|            |            |           |           |
|------------|------------|-----------|-----------|
| U-01470A   | U-0143521A | U-52765   | UTU-68328 |
| U-01790    | U-0147541  | U-55626   | UTU-68330 |
| U-02896A   | U-0147541A | U-58546   | UTU-68338 |
| U-03505    | U-2838     | U-61052   | UTU-68346 |
| U-03576    | U-7206     | U-61189   | UTU-68347 |
| U-013429A  | U-10291    | U-62657   | UTU-68348 |
| U-013765   | U-10760    | UTU-65218 | UTU-68388 |
| U-013766   | U-11385    | UTU-65472 | UTU-68402 |
| U-013767   | U-13905    | UTU-65615 | UTU-68544 |
| U-013769   | U-14236    | UTU-65949 | UTU-68548 |
| U-013769A  | U-15392    | UTU-66004 | UTU-68619 |
| U-013769B  | U-16535    | UTU-66027 | UTU-68624 |
| U-013769C  | U-16539    | UTU-66033 | UTU-68625 |
| U-013792   | U-16544    | UTU-66184 | UTU-68626 |
| U-013793   | U-17036    | UTU-66185 | UTU-68627 |
| U-013793A  | U-17424    | UTU-66193 | UTU-68631 |
| U-013794   | U-19267    | UTU-66484 | UTU-69024 |
| U-013818A  | U-30096    | UTU-66743 | UTU-69166 |
| U-013820   | U-39221    | UTU-67168 | UTU-69482 |
| U-013821A  | U-39713    | UTU-67841 | UTU-72104 |
| U-017713   | U-39714    | UTU-67857 | UTU-73087 |
| U-035316   | U-40026    | UTU-67996 | UTU-73089 |
| U-037164   | U-47171    | UTU-67997 | UTU-73433 |
| U-0141644  | U-49092    | UTU-68108 | UTU-73512 |
| U-0143519  | U-50750    | UTU-68109 | UTU-74805 |
| U-0143520A | U-51081    | UTU-68316 | UTU-74806 |
| U-034217A  | U-07978    | UTU-72108 | UTU-74872 |

Wells Draw Unit (UTU-72613A)  
West Willow Creek Unit (UTU-73218X)  
Pleasant Valley Unit (UTU-74477X)

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

(MERGER)

Routing:

|                          |
|--------------------------|
| 1- LEC / <del>CEP</del>  |
| 2- <del>DP371-FILE</del> |
| 3- <del>VLD-8-FILE</del> |
| 4- RJF ✓                 |
| 5- LEC                   |
| 6- SJ                    |

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

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

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 1-1-96)

|  |   |
|--|---|
| TO (new operator) <u>ENSERCH EXPLORATION INC</u> | FROM (former operator) <u>DALEN RESOURCES OIL &amp; GAS</u> |
| (address) <u>4849 GREENVILLE AVE STE 1200</u>    | (address) <u>6688 N CENTRAL EXP #1000</u>                   |
| <u>DALLAS TX 75206</u>                           | <u>DALLAS TX 75206-3922</u>                                 |
| <u>CINDY KEISTER</u>                             | <u>CINDY KEISTER</u>  |
| phone <u>(214) 987-6353</u>                      | phone <u>(214) 987-6353</u>                                 |
| account no. <u>N4940 (1-29-96)</u>               | account no. <u>N3300</u>                                    |

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

|                                 |            |               |           |           |           |                   |
|---------------------------------|------------|---------------|-----------|-----------|-----------|-------------------|
| Name: <b>** SEE ATTACHED **</b> | API: _____ | Entity: _____ | Sec _____ | Twp _____ | Rng _____ | Lease Type: _____ |
| Name: _____                     | API: _____ | Entity: _____ | Sec _____ | Twp _____ | Rng _____ | Lease Type: _____ |
| Name: _____                     | API: _____ | Entity: _____ | Sec _____ | Twp _____ | Rng _____ | Lease Type: _____ |
| Name: _____                     | API: _____ | Entity: _____ | Sec _____ | Twp _____ | Rng _____ | Lease Type: _____ |
| Name: _____                     | API: _____ | Entity: _____ | Sec _____ | Twp _____ | Rng _____ | Lease Type: _____ |
| Name: _____                     | API: _____ | Entity: _____ | Sec _____ | Twp _____ | Rng _____ | Lease Type: _____ |

**OPERATOR CHANGE DOCUMENTATION**

- 1 (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Rec'd 1-22-96)*
- 2 (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec'd 1-22-96)*
- 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: #171513. *(eff. 1-4-95)*
- 4 (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- 5 Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(2-12-96)*
- 6 Cardex file has been updated for each well listed above. *(2-12-96)*
- 7 Well file labels have been updated for each well listed above. *(2-12-96)*
- 8 Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(2-12-96)*
- 9 A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

**ENTITY REVIEW**

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

**BOND VERIFICATION (~~Fee wells only~~)** *Trustlands / bond & lease update in progress!*

- LC* 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- N/A* 2. A copy of this form has been placed in the new and former operators' bond files.
- N/A* 3. The former operator has requested a release of liability from their bond (yes/no) 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.
- N/A* 2. Copies of documents have been sent to State Lands for changes involving **State leases**.

**FILMING**

- WDR* 1. All attachments to this form have been microfilmed. Date: March 14 1996.

**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**

*960212 Blm/SL Aprv. eff. 12-31-95.*

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. -

5. Lease Designation and Serial No.

U-49092

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

Wells Draw Unit

8. Well Name and No.

Federal 34-33B

9. API Well No.

43-013-31269

10. Field and Pool, or Exploratory Area

Wells Draw (GR)

11. County or Parish, State

Duchesne County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well  Gas Well  Other WIW

2. Name of Operator

Inland Production Company

3. Address and Telephone No.

475 17th Street, Suite 1500, Denver, Colorado 80202 (303) 292-0900

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

614' FSL & 1885' FEL SW/4 SE/4 Section 33, T8S-R16E

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

TYPE OF SUBMISSION

- Notice of Intent
- Subsequent Report
- Final Abandonment

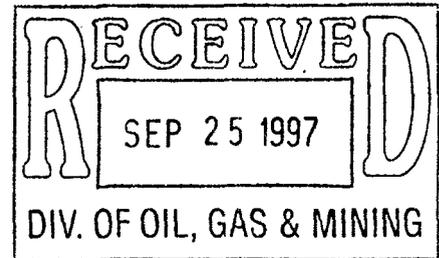
TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other Change of Operator
- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection
- Dispose Water

(Note: Report results of multiple completion on Well)

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.)\*

Inland Production Company assumes operations of the above mentioned well effective August 16, 1997. Inland Production Company operates under BLM Bond No. UT0056.



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

Signed [Signature] Title Attorney-In-Fact Date 08/14/1997

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

CC: Utah DOGM

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. --

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

5. Lease Designation and Serial No.  
U-49092

6. If Indian, Allottee or Tribe Name  
NA

7. If Unit or CA, Agreement Designation  
Wells Draw Unit

8. Well Name and No.  
Federal 34-33B

9. API Well No.  
43-013-31269

10. Field and Pool, or Exploratory Area  
Wells Draw (GR)

11. County or Parish, State  
Duchesne County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well  
 Oil Well     Gas Well     Other WIW

2. Name of Operator  
 ENSERCH EXPLORATION INC.

3. Address and Telephone No.  
 4849 Greenville Avenue, Suite 1200, Dallas, Texas 75206-4186 (214) 369-7893

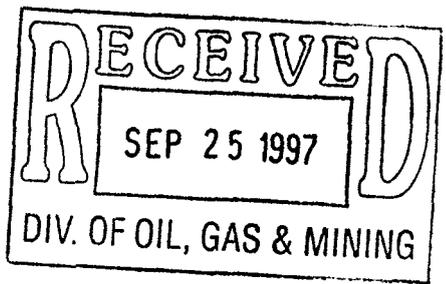
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)  
 614' FSL & 1885' FEL SW/4 SE/4 Section 33, T8S-R16E

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

| TYPE OF SUBMISSION   | TYPE OF ACTION  |
|--|---|
| <input checked="" type="checkbox"/> Notice of Intent<br><input type="checkbox"/> Subsequent Report<br><input type="checkbox"/> Final Abandonment | <input type="checkbox"/> Abandonment<br><input type="checkbox"/> Recompletion<br><input type="checkbox"/> Plugging Back<br><input type="checkbox"/> Casing Repair<br><input type="checkbox"/> Altering Casing<br><input checked="" type="checkbox"/> Other <u>Change of Operator</u><br><input type="checkbox"/> Change of Plans<br><input type="checkbox"/> New Construction<br><input type="checkbox"/> Non-Routine Fracturing<br><input type="checkbox"/> Water Shut-Off<br><input type="checkbox"/> Conversion to Injection<br><input type="checkbox"/> Dispose Water<br><small>(Note: Report results of multiple completion on Well)</small> |

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.)\*

Enserch Exploration Inc. has sold its interest in the WDU #34-44B Federal to Inland Production Company and relinquishes operations effective August 16, 1997. Inland Production Company operates under BLM Bond No. UT0056.

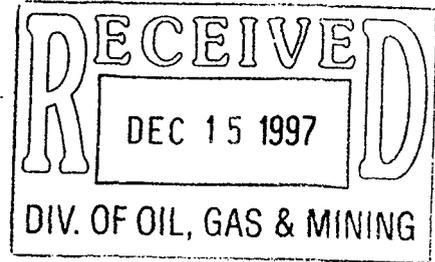


14. I hereby certify that the foregoing is true and correct  
 Signed [Signature] Title Sr. Production Analyst Date 08/14/1997

(This space for Federal or State office use)  
 Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
 Conditions of approval, if any:

CC: Utah DOGM  
 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.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING



TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: See Attached WELLS DRAW (GRRV) UNIT  
Field or Unit name: See Attached API no. See Attached  
Well location: QQ \_\_\_\_\_ section \_\_\_\_\_ township \_\_\_\_\_ range \_\_\_\_\_ county \_\_\_\_\_  
Effective Date of Transfer: See Attached

CURRENT OPERATOR

Transfer approved by:

Name DAVID R. HENDERSON Company Enserch Exploration, Inc.  
Signature *David R. Henderson* Address 4849 Greenville Ave., 1200  
Title Executive Vice President and Dallas, Texas 75206-4186  
Chief Operating Officer  
Date 11/15/97 off. 3/31/97 Phone ( 214 ) 369-7893

Comments:

NEW OPERATOR

Transfer approved by:

Name CHRIS A. POTTER Company Inland Production Company  
Signature *Chris Potter* Address 475 17th Street, Suite 1500  
Title Attorney-in-Fact Denver, Colorado 80202  
Date 11/24/97 Phone ( 303 ) 292-0900

Comments:

(State use only)

Transfer approved by *A. Hunt* Title *Environ. Manager*

Approval Date 1/6/98 CAUSE No. 231-1

\* Copies mailed to operators on 1-6-98. J  
JLC

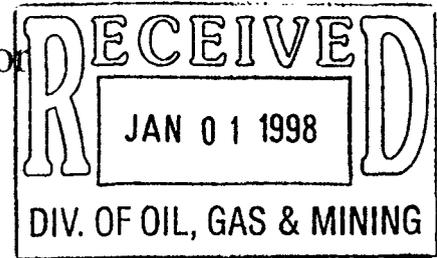
Injection Wells Formerly Operated by EEX

| <u>LEASE</u>        | <u>TWP</u> | <u>RGE</u> | <u>SEC</u> | <u>QTR</u> | <u>QTR</u> | <u>COUNTY</u> | <u>STATE</u> | <u>FIELD</u>         | <u>API</u> | <u>LEASENUM</u> |
|---------------------|------------|------------|------------|------------|------------|---------------|--------------|----------------------|------------|-----------------|
| ALLEN FED #44-5     | 09S        | 17E        | 5          | SE/SE      |            | DUCHESNE      | UT           | PLEASANT VALLEY UNIT | 4301330913 | U-020252        |
| FED #11-9H          | 09S        | 17E        | 9          | NW/NW      |            | DUCHESNE      | UT           | PLEASANT VALLEY UNIT | 4301330887 | U-50750         |
| FED #22-8H          | 09S        | 17E        | 8          | SE/NW      |            | DUCHESNE      | UT           | PLEASANT VALLEY UNIT | 4301331457 | U-10760         |
| FED #33-9H          | 09S        | 17E        | 9          | NW/SE      |            | DUCHESNE      | UT           | PLEASANT VALLEY UNIT | 4301331108 | U-61052         |
| FED NGC #22-9H      | 09S        | 17E        | 9          | SE/NW      |            | DUCHESNE      | UT           | PLEASANT VALLEY UNIT | 4301331049 | U-50750         |
| PLSNT VLY #31-8H    | 09S        | 17E        | 8          | NW/NE      |            | DUCHESNE      | UT           | PLEASANT VALLEY UNIT | 4301330679 | U-10760         |
| PLSNT VLY #42-8H    | 09S        | 17E        | 8          | SE/NE      |            | DUCHESNE      | UT           | PLEASANT VALLEY UNIT | 4301330678 | U-10760         |
| PLSNT VLY FD #13-9H | 09S        | 17E        | 9          | NW/SW      |            | DUCHESNE      | UT           | PLEASANT VALLEY UNIT | 4301330656 | U-37810         |
| PLSNT VLY FD #24-9H | 09S        | 17E        | 9          | SE/SW      |            | DUCHESNE      | UT           | PLEASANT VALLEY UNIT | 4301330682 | U-50750         |
| NGC FED 32-5G       | 09S        | 16E        | 5          | SW/NE      |            | DUCHESNE      | UT           | WELLS DRAW UT        | 4301330670 | U-30096         |
| WD FED 14-33-B      | 08S        | 16E        | 33         | SW/SW      |            | DUCHESNE      | UT           | WELLS DRAW UT        | 4301331229 | U-49092         |
| WD FED 14-34-B      | 08S        | 16E        | 34         | NW/SW      |            | DUCHESNE      | UT           | WELLS DRAW UT        | 4301331225 | U-47171         |
| WD FED 21-4-G       | 09S        | 16E        | 4          | NE/NW      |            | DUCHESNE      | UT           | WELLS DRAW UT        | 4301331272 | U-30096         |
| WD FED 34-33-B      | 08S        | 16E        | 33         | SW/SE      |            | DUCHESNE      | UT           | WELLS DRAW UT        | 4301331269 | U-49092         |
| WD FED 41-5-G       | 09S        | 16E        | 5          | NE/NE      |            | DUCHESNE      | UT           | WELLS DRAW UT        | 4301331205 | U-30096         |
| WD FED 43-33-B      | 08S        | 16E        | 33         | NE/SE      |            | DUCHESNE      | UT           | WELLS DRAW UT        | 4301331240 | U-49092         |



United States Department of the Interior

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



December 31, 1997

Inland Production Company  
c/o UnitSource Incorporated  
11184 Huron Street, Suite 16  
Denver, Colorado 80234

Re: Wells Draw (Green River) Unit  
Duchesne County, Utah

Gentlemen:

On December 30, 1997, we received an indenture dated September 1, 1997, whereby Enserch Exploration, Inc. resigned as Unit Operator and Inland Production Company was designated as Successor Unit Operator for the Wells Draw (Green River) Unit, Duchesne County, Utah.

The indenture was approved by all required parties and the parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective December 31, 1997. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Wells Draw (Green River) Unit Agreement.

Your statewide (Utah) oil and gas bond No. 0056 will be used to cover all operations within the Wells Draw (Green River) Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ George Diwachak

for Robert A. Henricks  
Chief, Branch of Fluid Minerals

Enclosure

bcc: District Manager - Vernal (w/enclosure)  
~~Division of Oil, Gas & Mining~~  
Minerals Adjudication Group U-932  
File - Wells Draw (Green River) Unit (w/enclosure)  
MMS - Data Management Division  
Agr. Sec. Chron  
Fluid Chron

UT931:TAThompson:tt:12/31/97



OPERATOR INLAND PRODUCTION CO

OPERATOR ACCT. NO. N 5160

ADDRESS \_\_\_\_\_

| ACTION CODE  | CURRENT ENTITY NO. | NEW ENTITY NO. | API NUMBER | WELL NAME | WELL LOCATION |    |    |    |          | SPUD DATE | EFFECTIVE DATE |
|--|--------------------|----------------|------------|-----------|---------------|----|----|----|----------|-----------|----------------|
|  |                    |                |            |           | QQ            | SC | TP | RG | COUNTY   |           |                |
| D  |                    | 12276          |            |           |               |    |    |    | DUCHESNE |           | 8-16-97        |
| WELL 1 COMMENTS: <b>*SEE ATTACHED LIST;OP CHG FR N4940 EFF 8-16-97 (WELLS DRAW (GRRV) UNIT) OPERATOR REQ CHG FOR TAX &amp; ROYALTY; &amp; DISPOSITION REPORTING.</b> |                    |                |            |           |               |    |    |    |          |           |                |
| WELL 2 COMMENTS:   |                    |                |            |           |               |    |    |    |          |           |                |
| WELL 3 COMMENTS:   |                    |                |            |           |               |    |    |    |          |           |                |
| WELL 4 COMMENTS:   |                    |                |            |           |               |    |    |    |          |           |                |
| WELL 5 COMMENTS:   |                    |                |            |           |               |    |    |    |          |           |                |

- ACTION CODES (See instructions on back of form)
- A - Establish new entity for new well (single well only)
  - B - Add new well to existing entity (group or unit well)
  - C - Re-assign well from one existing entity to another existing entity
  - D - Re-assign well from one existing entity to a new entity
  - E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

L. CORDOVA (DOGM)  
Signature  
ADMIN. ANALYST 1-2-98  
Title Date  
Phone No. ( )

INLAND PRODUCTION COMPANY  
(N5160)

| CURRENT ENTITY | NEW ENTITY | API NUMBER   | WELL NO. | SEC-T-R    | EFF. DATE |
|----------------|------------|--------------|----------|------------|-----------|
| 02043          | 12276      | 43-013-30858 | 43-5     | 05-09S-16E | 8-16-97   |
| 06100          | "          | 43-013-30699 | 12-4G    | 04-09S-16E | "         |
| 06105          | "          | 43-013-30698 | 21-5G    | 05-09S-16E | "         |
| 06105          | "          | 43-013-31207 | 23-5-G   | 05-09S-16E | "         |
| 06115          | "          | 43-013-30638 | 42-4     | 04-09S-16E | "         |
| 10913          | "          | 43-013-31214 | 24-33-B  | 33-08S-16E | "         |
| 10979          | "          | 43-013-31228 | 31-4-G   | 04-09S-16E | "         |
| 11041          | "          | 43-013-31241 | 23-34-B  | 34-08S-16E | "         |
| 11046          | "          | 43-013-31250 | 11-4-G   | 04-09S-16E | "         |
| 11047          | "          | 43-013-31251 | 23-33-B  | 33-08S-16E | "         |
| 11054          | "          | 43-013-31252 | 31-5-G   | 05-09S-16E | "         |
| 11084          | "          | 43-013-31270 | 44-33-B  | 33-08S-16E | "         |
| 11086          | "          | 43-013-31268 | 33-33-B  | 33-08S-16E | "         |
| 11092          | "          | 43-013-31277 | 13-33-B  | 33-08S-16E | "         |
| 11103          | "          | 43-013-31273 | 22-5-G   | 05-09S-16E | "         |
| 11104          | "          | 43-013-31271 | 13-34-B  | 34-08S-16E | "         |
| 10988          | "          | 43-013-31229 | 14-33-B  | 33-08S-16E | "         |
| 11007          | "          | 43-013-31240 | 43-33-B  | 33-08S-16E | "         |
| 11079          | "          | 43-013-31269 | 34-33-B  | 33-08S-16E | "         |
| 10980          | "          | 43-013-31225 | 14-34-B  | 34-08S-16E | "         |
| 11107          | "          | 43-013-31272 | 21-4-G   | 04-09S-16E | "         |
| 10859          | "          | 43-013-31205 | 41-5-G   | 05-09S-16E | "         |
| 06110          | "          | 43-013-30670 | 32-5G    | 05-09S-16E | "         |

**OPERATOR CHANGE WORKSHEET**

|           |          |
|-----------|----------|
| Routing   |          |
| 1-REC ✓   | 6-REC ✓  |
| 2-CLERK ✓ | 7-KAS ✓  |
| 3-DPS ✓   | 8-SI ✓   |
| 4-VLD ✓   | 9-FILE ✓ |
| 5-IRB ✓   |          |

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: 8-16-97

**TO:** (new operator) INLAND PRODUCTION CO      **FROM:** (old operator) ENSERCH EXPLORATION INC  
 (address) PO BOX 1446      (address) 4849 GREENVILLE AVE #1200  
ROOSEVELT UT 84066      DALLAS TX 75206-4145  
 Phone: (801)722-5103      Phone: (214)987-7859  
 Account no. N5160      Account no. N4940

**\*WELLS DRAW (GREEN RIVER) UNIT**

WELL(S) attach additional page if needed:

|                               |                          |               |         |         |         |              |
|-------------------------------|--------------------------|---------------|---------|---------|---------|--------------|
| Name: <b>**SEE ATTACHED**</b> | API: <u>43-013-31269</u> | Entity: _____ | S _____ | T _____ | R _____ | Lease: _____ |
| Name: _____                   | API: _____               | Entity: _____ | S _____ | T _____ | R _____ | Lease: _____ |
| Name: _____                   | API: _____               | Entity: _____ | S _____ | T _____ | R _____ | Lease: _____ |
| Name: _____                   | API: _____               | Entity: _____ | S _____ | T _____ | R _____ | Lease: _____ |
| Name: _____                   | API: _____               | Entity: _____ | S _____ | T _____ | R _____ | Lease: _____ |
| Name: _____                   | API: _____               | Entity: _____ | S _____ | T _____ | R _____ | Lease: _____ |

**OPERATOR CHANGE DOCUMENTATION**

- Sec 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form). *(rec'd 9-25-97)*
- Sec 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). *(rec'd 9-25-97)*
- 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: \_\_\_\_\_
- Sec 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.
- Sec 5. Changes have been entered in the **Oil and Gas Information System** (3270) for each well listed above. *(1-2-98) X UIC DBase & QuaHro Pro.*
- Sec 6. **Cardex** file has been updated for each well listed above. *(1-2-98)*
- Sec 7. Well **file labels** have been updated for each well listed above. *(1-2-98)*
- Sec 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. *(1-2-98)*
- Sec 9. A folder has been set up for the **Operator Change file**, and a copy of this page has been placed there for reference during routing and processing of the original documents.

**ENTITY REVIEW**

- Yes 1. (r649-8-7) **Entity assignments have been reviewed** for all wells listed above. Were entity changes made? (yes/no) yes If entity assignments were changed, attach copies of Form 6, Entity Action Form.
- Yes 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.
- Yes 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.
- N/A 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated     19    , of their responsibility to notify all interest owners of this change.

**FILMING**

- Yes 1. All attachments to this form have been **microfilmed**. Today's date: 1-20-98.

**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**

980102 BLM/SL Aprv. Wells Draw (GREV) Unit 4A. 12-31-97.

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

|   |  |  |                        |
|---|--|--|------------------------|
| 1. <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.<br>Use "APPLICATION FOR PERMIT-" for such proposals.) |  | 5. LEASE DESIGNATION AND SERIAL NO.<br><b>U-49092</b>                                  |                        |
| 2. NAME OF OPERATOR<br><b>INLAND PRODUCTION COMPANY</b>   |  | 6. IF INDIAN, ALLOTTEE OR TRIBAL NAME<br><br><b>N/A</b>                                |                        |
| 3. ADDRESS OF OPERATOR<br><b>Route 3, Box 3630, Myton Utah 84052</b><br><b>(435-646-3721)</b> 6+  |  | 7. UNIT AGREEMENT NAME<br><br><b>WELLS DRAW</b>  |                        |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*<br>See also space 17 below.)<br>At surface<br><b>SW/SE 0614 FSL 1885 FEL</b>                                   |  | 8. FARM OR LEASE NAME<br><b>FEDERAL 34-33-B</b>  |                        |
| 14 API NUMBER<br><b>43-013-31269</b>  |  | 9. WELL NO.<br><b>FEDERAL 34-33-B</b>  |                        |
| 15. ELEVATIONS (Show whether DF, RT, GR, etc.)<br><b>5696 GR</b>  |  | 10. FIELD AND POOL, OR WILDCAT<br><br><b>MONUMENT BUTTE</b>                            |                        |
|   |  | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA<br><b>SW/SE Section 33, T08S R16E</b> |                        |
|   |  | 12. COUNTY OR PARISH<br><b>DUCHESNE</b>  | 13. STATE<br><b>UT</b> |

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

| NOTICE OF INTENTION TO:                      |   | SUBSEQUENT REPORT OF:   |  |
|--|---|---|--|
| TEST WATER SHUT-OFF <input type="checkbox"/> | PULL OR ALTER CASING <input type="checkbox"/> | WATER SHUT-OFF <input type="checkbox"/>   | REPAIRING WELL <input type="checkbox"/>  |
| FRACTURE TREAT <input type="checkbox"/>      | MULTIPLE COMPLETE <input type="checkbox"/>    | FRACTURE TREATMENT <input type="checkbox"/>   | ALTERING CASING <input type="checkbox"/> |
| SHOOT OR ACIDIZE <input type="checkbox"/>    | ABANDON* <input type="checkbox"/>             | SHOOTING OR ACIDIZING <input type="checkbox"/>  | ABANDONMENT* <input type="checkbox"/>    |
| REPAIR WELL <input type="checkbox"/>         | <input type="checkbox"/>                      | (OTHER) <u>Perform 5 year MIT</u>   | <input type="checkbox"/>                 |
| (OTHER) <input type="checkbox"/>             | <input type="checkbox"/>                      | (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) |  |

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

The MIT was conducted on the subject well to satisfy the five year MIT. On 6-7-00 the casing was pressured up to 970 psi and charted for thirty minutes with no leak off. Mr. Dennis Ingram with the DOGM was in attendance and approved the test.

Accepted by the  
Utah Division of  
Oil, Gas and Mining

**FOR RECORD ONLY**

18 I hereby certify that the foregoing is true and correct

SIGNED Rod Bird TITLE Production Foreman DATE 6/7/00

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\* See Instructions On Reverse Side

**RECEIVED**

JUN 09 2000

DIVISION OF  
OIL, GAS AND MINING

# Mechanical Integrity Test Casing or Annulus Pressure Test

Inland Production Company

Rt. 3 Box 3630

Myton, UT 84052

435-646-3721

Witness: Dennis Ingram Date 6/7/00 Time 9:25 (am) pm

Test Conducted by: Roy Liddell

Others Present: \_\_\_\_\_

Well: Wells DRAW 34-33B-8-16

Field: Monument Butte

Well Location: SW/SE Sec. 33, T8S, R16E API No: 43-013-31269

Duchesne Co, UT

| Time   | Casing Pressure |
|--------|-----------------|
| 0 min  | <u>970</u> psig |
| 5      | <u>970</u> psig |
| 10     | <u>970</u> psig |
| 15     | <u>970</u> psig |
| 20     | <u>970</u> psig |
| 25     | <u>970</u> psig |
| 30 min | <u>970</u> psig |
| 35     | _____ psig      |
| 40     | _____ psig      |
| 45     | _____ psig      |
| 50     | _____ psig      |
| 55     | _____ psig      |
| 60 min | _____ psig      |

Tubing pressure: 1500 psig Injecting @ 127.40 BPD

Result: Pass Fail

RECEIVED

JUN 09 2000

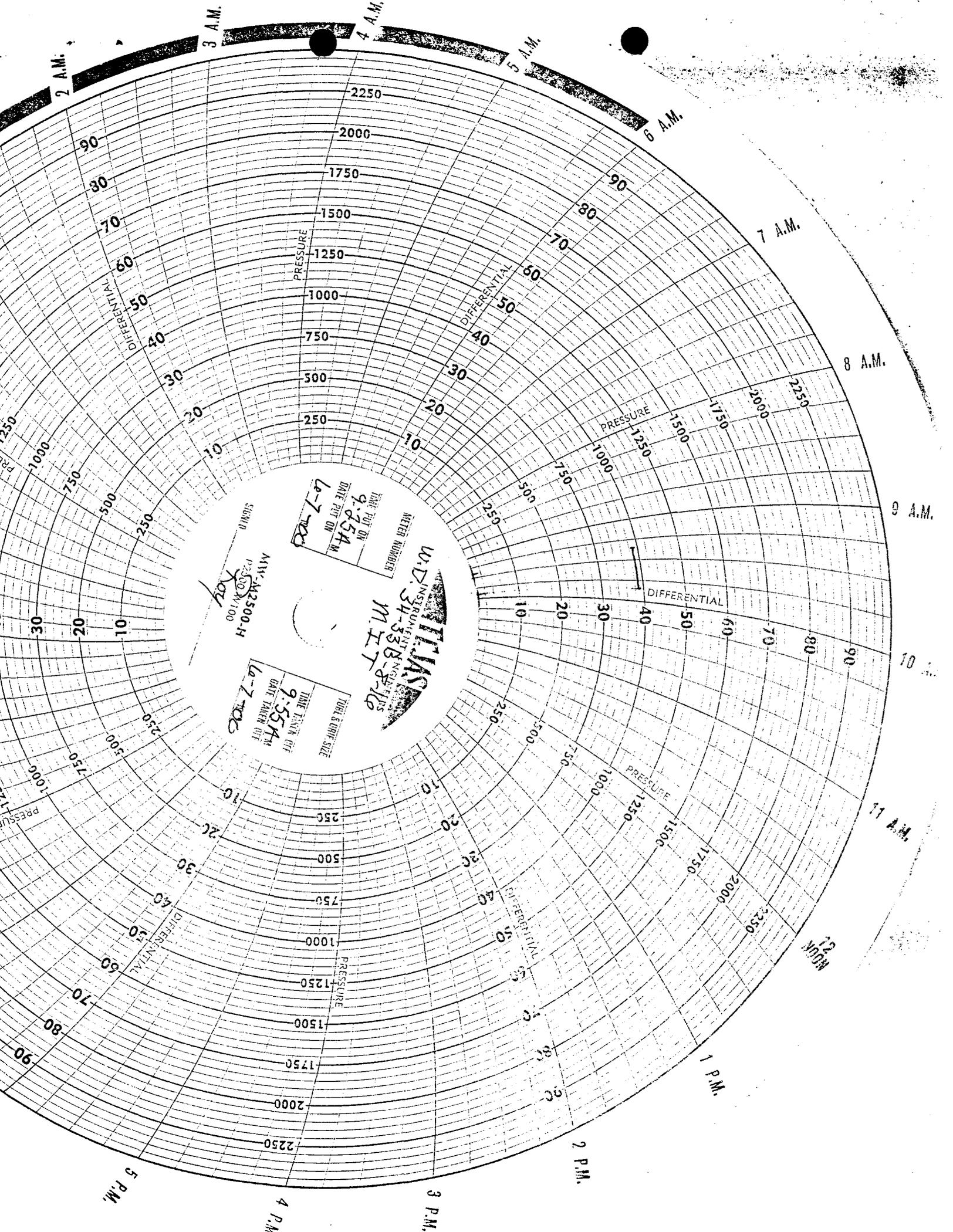
Signature of Witness:

Dennis L Ingram

DIVISION OF  
OIL, GAS AND MINING

Signature of Person Conducting Test:

Roy Liddell



TIME TAKEN ON  
DATE TAKEN ON  
9:35 AM  
10-7-70

METER NUMBER  
W.D. INSTRUMENT INSURANCE  
M.I.T.

TYPE & ORIF. SIZE  
MIV-M3500-H  
2500 M/100  
100

TIME TAKEN OFF  
DATE TAKEN OFF  
9:55 AM  
10-7-70

12  
10 MIN

INJECTION WELL - PRESSURE TEST

Well Name: WELLS DRAW 34-33 B API Number: 43-013-31269  
 Qtr/Qtr: SW/SE Section: 33 Township: 8S Range: 16E  
 Company Name: INLAND PRODUCTION COMPANY  
 Lease: State \_\_\_\_\_ Fee \_\_\_\_\_ Federal U-72613A Indian \_\_\_\_\_  
 Inspector: Penna Lopez Date: 06-07-00

Initial Conditions:

Tubing - Rate: \_\_\_\_\_ Pressure: 1500 psi  
 Casing/Tubing Annulus - Pressure: 970 psi

Conditions During Test:

| Time (Minutes) | Annulus Pressure | Tubing Pressure |
|----------------|------------------|-----------------|
| 0              | <u>970 PSI</u>   | <u>1500 PSI</u> |
| 5              | <u>970 PSI</u>   | <u>1500 "</u>   |
| 10             | <u>970 "</u>     | <u>1500 "</u>   |
| 15             | <u>970 "</u>     | <u>1500 "</u>   |
| 20             | <u>970 "</u>     | <u>1500 "</u>   |
| 25             | <u>970 "</u>     | <u>1500 "</u>   |
| 30             | <u>970 "</u>     | <u>1500 "</u>   |

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: 1500 psi  
 Casing/Tubing Annulus Pressure: 970 psi

COMMENTS: tested for 5 year rule Injecting @ 127.40 BPD.  
Recorded test on Barton Meter

TEST 9:25 am

Roy Liddell  
 Operator Representative



## Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company  
Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.



A handwritten signature in black ink, appearing to read "G. Connor".

Secretary of State

ARTICLES OF AMENDMENT  
TO THE  
ARTICLES OF INCORPORATION  
OF  
INLAND PRODUCTION COMPANY

FILED  
In the Office of the  
Secretary of State of Texas  
SEP 02 2004  
Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE – The name of the corporation is Newfield Production Company."

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1<sup>st</sup> day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs  
Susan G. Riggs, Treasurer

|         |        |        |        |       |        |
|---------|--------|--------|--------|-------|--------|
| UTSL-   | 15855  | 61052  | 73088  | 76561 |        |
| 071572A | 16535  | 62848  | 73089  | 76787 |        |
| 065914  | 16539  | 63073B | 73520A | 76808 |        |
|         | 16544  | 63073D | 74108  | 76813 |        |
|         | 17036  | 63073E | 74805  | 76954 | 63073X |
|         | 17424  | 63073O | 74806  | 76956 | 63098A |
|         | 18048  | 64917  | 74807  | 77233 | 68528A |
| UTU-    | 18399  | 64379  | 74808  | 77234 | 72086A |
|         | 19267  | 64380  | 74389  | 77235 | 72613A |
| 02458   | 26026A | 64381  | 74390  | 77337 | 73520X |
| 03563   | 30096  | 64805  | 74391  | 77338 | 74477X |
| 03563A  | 30103  | 64806  | 74392  | 77339 | 75023X |
| 04493   | 31260  | 64917  | 74393  | 77357 | 76189X |
| 05843   | 33992  | 65207  | 74398  | 77359 | 76331X |
| 07978   | 34173  | 65210  | 74399  | 77365 | 76788X |
| 09803   | 34346  | 65635  | 74400  | 77369 | 77098X |
| 017439B | 36442  | 65967  | 74404  | 77370 | 77107X |
| 017985  | 36846  | 65969  | 74405  | 77546 | 77236X |
| 017991  | 38411  | 65970  | 74406  | 77553 | 77376X |
| 017992  | 38428  | 66184  | 74411  | 77554 | 78560X |
| 018073  | 38429  | 66185  | 74805  | 78022 | 79485X |
| 019222  | 38431  | 66191  | 74806  | 79013 | 79641X |
| 020252  | 39713  | 67168  | 74826  | 79014 | 80207X |
| 020252A | 39714  | 67170  | 74827  | 79015 | 81307X |
| 020254  | 40026  | 67208  | 74835  | 79016 |        |
| 020255  | 40652  | 67549  | 74868  | 79017 |        |
| 020309D | 40894  | 67586  | 74869  | 79831 |        |
| 022684A | 41377  | 67845  | 74870  | 79832 |        |
| 027345  | 44210  | 68105  | 74872  | 79833 |        |
| 034217A | 44426  | 68548  | 74970  | 79831 |        |
| 035521  | 44430  | 68618  | 75036  | 79834 |        |
| 035521A | 45431  | 69060  | 75037  | 80450 |        |
| 038797  | 47171  | 69061  | 75038  | 80915 |        |
| 058149  | 49092  | 69744  | 75039  | 81000 |        |
| 063597A | 49430  | 70821  | 75075  |       |        |
| 075174  | 49950  | 72103  | 75078  |       |        |
| 096547  | 50376  | 72104  | 75089  |       |        |
| 096550  | 50385  | 72105  | 75090  |       |        |
|         | 50376  | 72106  | 75234  |       |        |
|         | 50750  | 72107  | 75238  |       |        |
| 10760   | 51081  | 72108  | 76239  |       |        |
| 11385   | 52013  | 73086  | 76240  |       |        |
| 13905   | 52018  | 73087  | 76241  |       |        |
| 15392   | 58546  | 73807  | 76560  |       |        |



# United States Department of the Interior



## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155  
<http://www.blm.gov>

IN REPLY REFER TO:  
3106  
(UT-924)

September 16, 2004

### Memorandum

To: Vernal Field Office  
From: Acting Chief, Branch of Fluid Minerals  
Subject: Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Michael Coulthard  
Acting Chief, Branch of  
Fluid Minerals

### Enclosure

1. State of Texas Certificate of Registration

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225  
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114  
Teresa Thompson  
Joe Incardine  
Connie Seare

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

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

|   |              |   |
|---|--------------|---|
| Well Name and Number<br>See Attached List |              | API Number                              |
| Location of Well                          |              | Field or Unit Name<br>See Attached List |
| Footage :                                 | County :     | Lease Designation and Number            |
| QC, Section, Township, Range:             | State : UTAH |   |

EFFECTIVE DATE OF TRANSFER: 9/1/2004

CURRENT OPERATOR

|   |                                       |
|---|---------------------------------------|
| Company: <u>Inland Production Company</u>   | Name: <u>Brian Harris</u>             |
| Address: <u>1401 17th Street Suite 1000</u> | Signature: <u><i>Brian Harris</i></u> |
| <u>city Denver state Co zip 80202</u>       | Title: <u>Engineering Tech.</u>       |
| Phone: <u>(303) 893-0102</u>                | Date: <u>9/15/2004</u>                |
| Comments:                                   |                                       |

NEW OPERATOR

|   |                                       |
|---|---------------------------------------|
| Company: <u>Newfield Production Company</u> | Name: <u>Brian Harris</u>             |
| Address: <u>1401 17th Street Suite 1000</u> | Signature: <u><i>Brian Harris</i></u> |
| <u>city Denver state Co zip 80202</u>       | Title: <u>Engineering Tech.</u>       |
| Phone: _____                                | Date: <u>9/15/2004</u>                |
| Comments:                                   |                                       |

(This space for State use only)

Transfer approved by: *A. Hunt*  
Title: *Perk. Services Manager*

Approval Date: 9-20-04

Comments: Note: Indian Country wells will require EPA approval.

RECEIVED  
SEP 20 2004  
DIV. OF OIL, GAS & MINING



6a. (R649-9-2)Waste Management Plan has been received on: IN PLACE  
6b. Inspections of LA PA state/fee well sites complete on: waived

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA

8. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: na/

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, Transfer of Authority to Inject, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 2/23/2005

**DATA ENTRY:**

- 1. Changes entered in the Oil and Gas Database on: 2/28/2005
- 2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 2/28/2005
- 3. Bond information entered in RBDMS on: 2/28/2005
- 4. Fee/State wells attached to bond in RBDMS on: 2/28/2005
- 5. Injection Projects to new operator in RBDMS on: 2/28/2005
- 6. Receipt of Acceptance of Drilling Procedures for APD/New on: waived

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: UT 0056

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: 61BSBDH2912

**FEE & STATE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The NEW operator of any fee well(s) listed covered by Bond Number 61BSBDH2919

2. The FORMER operator has requested a release of liability from their bond on: n/a\*  
The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The FORMER operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

\*Bond rider changed operator name from Inland Production Company to Newfield Production Company - received 2/23/05

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
UTU49092

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

7. UNIT or CA AGREEMENT NAME:

WELLS DRAW UNIT

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER Injection well

8. WELL NAME and NUMBER:

FEDERAL 34-33B

2. NAME OF OPERATOR:  
Newfield Production Company

9. API NUMBER:

4301331269

3. ADDRESS OF OPERATOR:  
Route 3 Box 3630 CITY Myton STATE UT ZIP 84052

PHONE NUMBER  
435.646.3721

10. FIELD AND POOL, OR WILDCAT:  
Monument Butte

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 0614 FSL 1885 FEL

COUNTY: Duchesne

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SW/SE, 33, T8S, R16E

STATE: Utah

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

TYPE OF ACTION SubDate

| TYPE OF SUBMISSION   | TYPE OF ACTION  |   |   |
|--|---|---|---|
| <input type="checkbox"/> NOTICE OF INTENT<br>(Submit in Duplicate)<br>Approximate date work will<br>_____                      | <input type="checkbox"/> ACIDIZE                        | <input type="checkbox"/> DEEPEN                           | <input type="checkbox"/> REPERFORATE CURRENT FORMATION  |
|  | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> FRACTURE TREAT                   | <input type="checkbox"/> SIDETRACK TO REPAIR WELL       |
|  | <input type="checkbox"/> CASING REPAIR                  | <input type="checkbox"/> NEW CONSTRUCTION                 | <input type="checkbox"/> TEMPORARILY ABANDON            |
|  | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS       | <input type="checkbox"/> OPERATOR CHANGE                  | <input type="checkbox"/> TUBING REPAIR                  |
|  | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> PLUG AND ABANDON                 | <input type="checkbox"/> VENT OR FLAIR                  |
| <input checked="" type="checkbox"/> SUBSEQUENT REPORT<br>(Submit Original Form Only)<br>Date of Work Completion:<br>06/06/2005 | <input type="checkbox"/> CHANGE WELL NAME               | <input type="checkbox"/> PLUG BACK                        | <input type="checkbox"/> WATER DISPOSAL                 |
|  | <input type="checkbox"/> CHANGE WELL STATUS             | <input type="checkbox"/> PRODUCTION (START/STOP)          | <input type="checkbox"/> WATER SHUT-OFF                 |
|  | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE         | <input checked="" type="checkbox"/> OTHER: - 5 Year MIT |
|  | <input type="checkbox"/> CONVERT WELL TYPE              | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION |   |

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

On 6-6-05 Dennis Ingram with the State of Utah DOGM was contacted concerning the 5-year MIT on the above listed well. Permission was given at that time to perform the test on 6-6-05. On 6-6-05 the csg was pressured up to 1350 psig and charted for 30 minutes with 0 psi pressure loss. The well was injecting during the test. The tbg pressure was 1880 psig during the test. There was not a State representative available to witness the test. API# 43-013-31269.

Accepted by the  
Utah Division of  
Oil, Gas and Mining

Date: 06-14-05  
By: *Bradley Hill*

COPY SENT TO OPERATOR  
Date: 6-15-05  
Initials: CHD

NAME (PLEASE PRINT) Kathy Chapman TITLE Office Manager

SIGNATURE *Kathy Chapman* DATE 06/09/2005

(This space for State use only)

RECEIVED  
JUN 10 2005  
OIL, GAS & MINING

# Mechanical Integrity Test Casing or Annulus Pressure Test

Inland Production Company

Rt. 3 Box 3630  
Myton, UT 84052  
435-646-3721

Witness: \_\_\_\_\_ Date 6/6/05 Time 10:00 am pm

Test Conducted by: Matthew Bertoch

Others Present: \_\_\_\_\_

|   |                                     |
|---|-------------------------------------|
| Well: <u>34-33B-8-16</u>                      | Field: <u>Wells Draw UTU-72613A</u> |
| Well Location: <u>SW/SE Sec 33, T8S, R16E</u> | API No: _____                       |

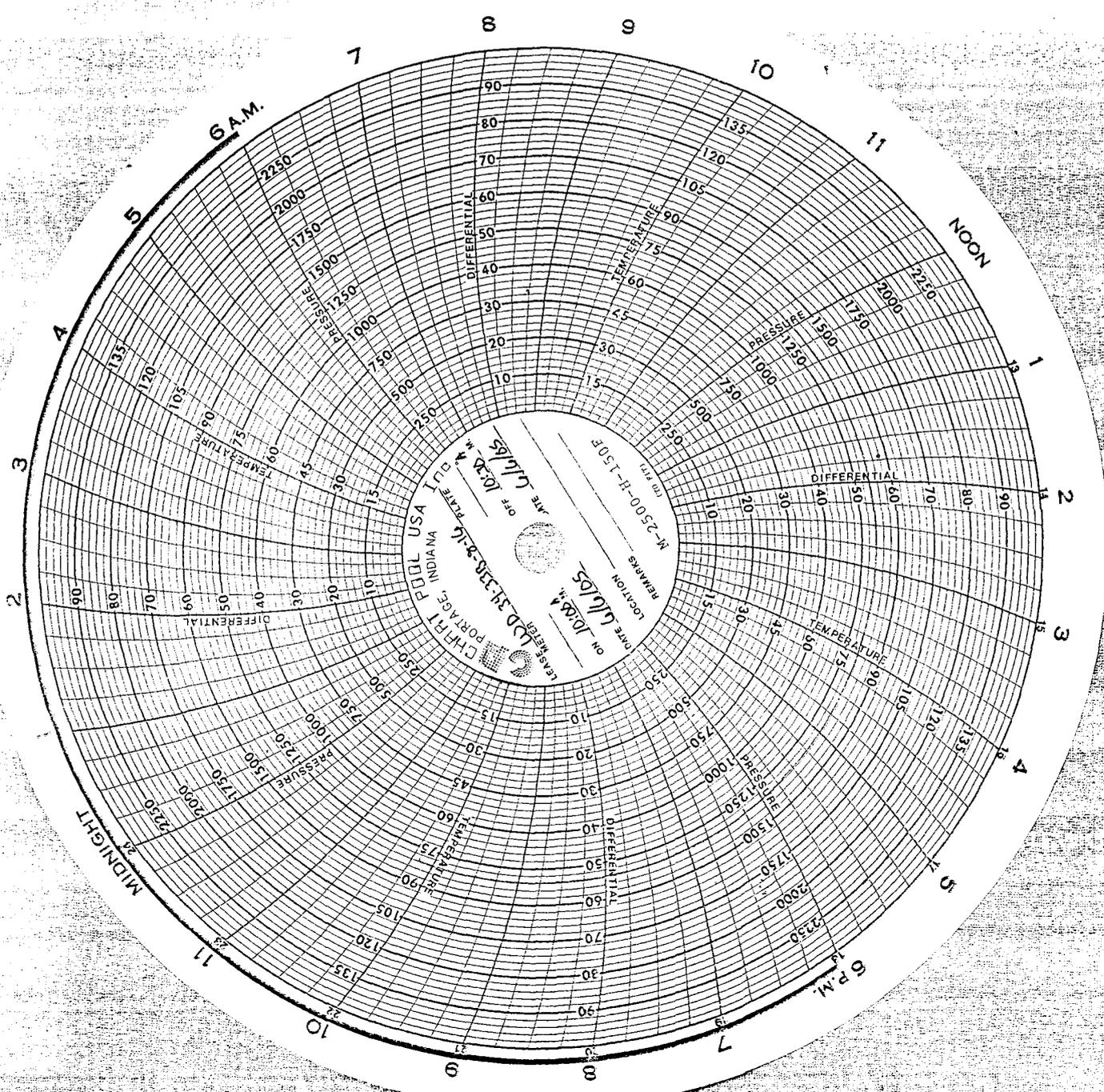
| <u>Time</u> | <u>Casing Pressure</u> |      |
|-------------|------------------------|------|
| 0 min       | <u>1350</u>            | psig |
| 5           | <u>1350</u>            | psig |
| 10          | <u>1350</u>            | psig |
| 15          | <u>1350</u>            | psig |
| 20          | <u>1350</u>            | psig |
| 25          | <u>1350</u>            | psig |
| 30 min      | <u>1350</u>            | psig |
| 35          | _____                  | psig |
| 40          | _____                  | psig |
| 45          | _____                  | psig |
| 50          | _____                  | psig |
| 55          | _____                  | psig |
| 60 min      | _____                  | psig |

Tubing pressure: 1880 psig

Result: Pass Fail

Signature of Witness: \_\_\_\_\_

Signature of Person Conducting Test: Matthew Bertoch



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

|  |
|--|
| 5. LEASE DESIGNATION AND SERIAL NUMBER:<br>USA UTU-49092 |
| 6. IF INDIAN, ALLOTTEE OR TRIBE NAME:                    |
| 7. UNIT or CA AGREEMENT NAME:<br>GMBU                    |
| 8. WELL NAME and NUMBER:<br>FEDERAL 34-33B               |
| 9. API NUMBER:<br>4301331269                             |
| 10. FIELD AND POOL, OR WILDCAT:<br>GREATER MB UNIT       |

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

3. ADDRESS OF OPERATOR:      CITY Myton      STATE UT      ZIP 84052      PHONE NUMBER 435.646.3721

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 614 FSL 1885 FEL

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWSE, 33, T8S, R16E

COUNTY: DUCHESNE

STATE: UT

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

| TYPE OF SUBMISSION   | TYPE OF ACTION  |   |  |
|--|---|---|--|
| <input type="checkbox"/> NOTICE OF INTENT<br>(Submit in Duplicate)<br><br>Approximate date work will<br>_____                      | <input type="checkbox"/> ACIDIZE                        | <input type="checkbox"/> DEEPEN                           | <input type="checkbox"/> REPERFORATE CURRENT FORMATION     |
|  | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> FRACTURE TREAT                   | <input type="checkbox"/> SIDETRACK TO REPAIR WELL          |
|  | <input type="checkbox"/> CASING REPAIR                  | <input type="checkbox"/> NEW CONSTRUCTION                 | <input type="checkbox"/> TEMPORARITLY ABANDON              |
|  | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS       | <input type="checkbox"/> OPERATOR CHANGE                  | <input type="checkbox"/> TUBING REPAIR                     |
|  | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> PLUG AND ABANDON                 | <input type="checkbox"/> VENT OR FLAIR                     |
| <input checked="" type="checkbox"/> SUBSEQUENT REPORT<br>(Submit Original Form Only)<br><br>Date of Work Completion:<br>05/05/2010 | <input type="checkbox"/> CHANGE WELL NAME               | <input type="checkbox"/> PLUG BACK                        | <input type="checkbox"/> WATER DISPOSAL                    |
|  | <input type="checkbox"/> CHANGE WELL STATUS             | <input type="checkbox"/> PRODUCTION (START/STOP)          | <input type="checkbox"/> WATER SHUT-OFF                    |
|  | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE         | <input checked="" type="checkbox"/> OTHER: - Five Year MIT |
|  | <input type="checkbox"/> CONVERT WELL TYPE              | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION |  |

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

On 05/03/2010 Dennis Ingram with the State of Utah DOGM was contacted concerning the 5 Year MIT on the above listed well. Permission was given at that time to perform the test on 05/03/2010. On 05/05/2010 the casing was pressured up to 1140 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 1914 psig during the test. There was a State representative available to witness the test. (Dennis Ingram)

API# 43-013-31269

NAME (PLEASE PRINT) Lucy Chavez-Naupoto      TITLE Administrative Assistant

SIGNATURE *Lucy Chavez-Naupoto*      DATE 05/10/2010

(This space for State use only)

**RECEIVED**  
**MAY 13 2010**  
**DIV. OF OIL, GAS & MINING**

# Mechanical Integrity Test Casing or Annulus Pressure Test

Newfield Production Company

Rt. 3 Box 3630

Myton, UT 84052

435-646-3721

Witness: DENNIS INGRAM Date 5 15 10 Time 11:00 am pm

Test Conducted by: DAVE CLOWARD

Others Present: \_\_\_\_\_

|  |                                   |
|--|-----------------------------------|
| Well: <u>FEDERAL 34-33B-8-16</u>           | Field: <u>FEDERAL 34-33B-8-16</u> |
| Well Location: <u>FEDERAL 34-33B-8-16</u>  | API No: <u>UTU 87538X</u>         |
| <u>SW/SE SEC. 33, T8S, R16E UTU 87538X</u> | <u>DUCHESTER COUNTY, UTAH</u>     |
|  | <u>43-013-31269</u>               |

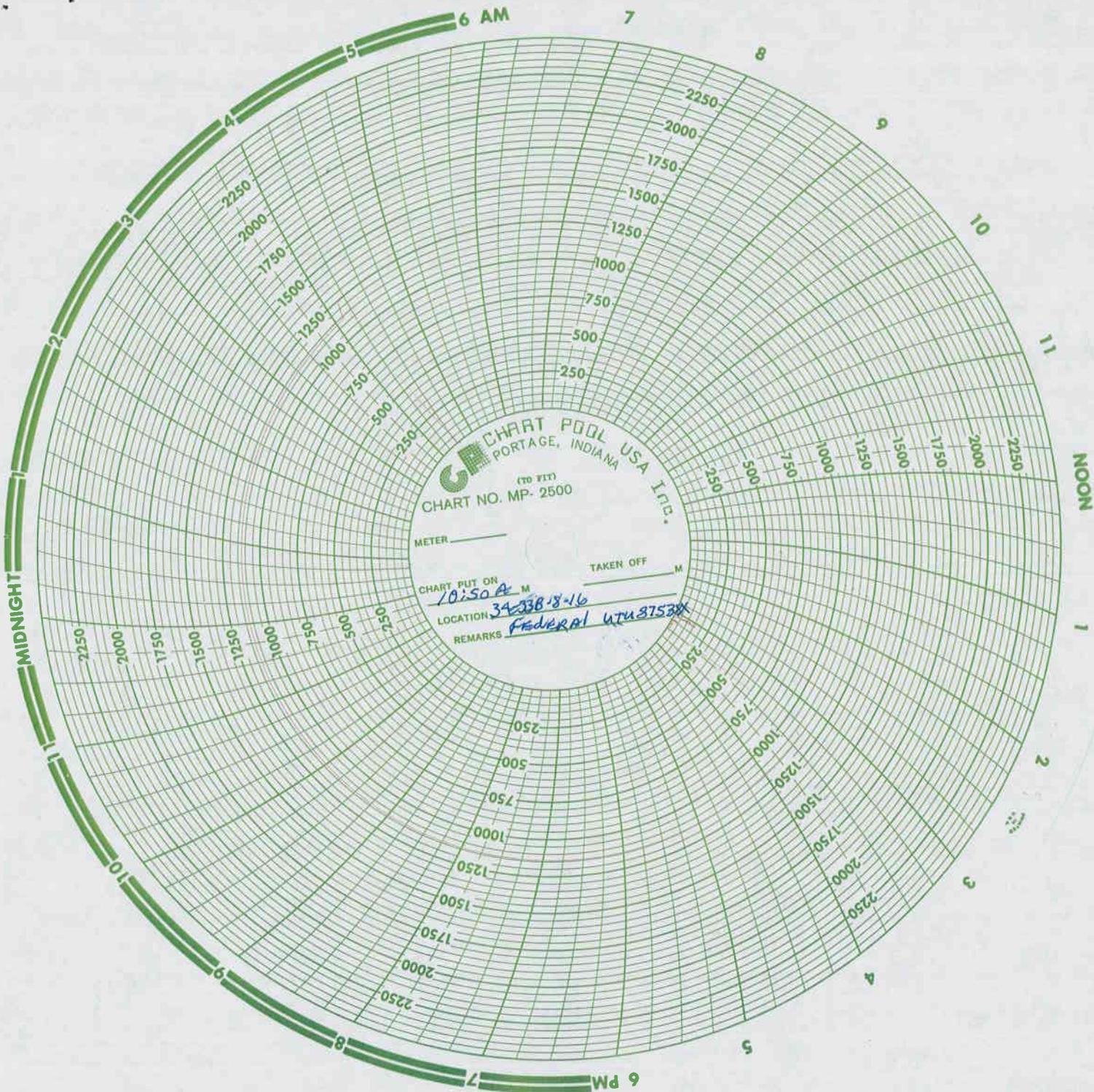
| <u>Time</u> | <u>Casing Pressure</u> |      |
|-------------|------------------------|------|
| 0 min       | <u>1140</u>            | psig |
| 5           | <u>1140</u>            | psig |
| 10          | <u>1140</u>            | psig |
| 15          | <u>1140</u>            | psig |
| 20          | <u>1140</u>            | psig |
| 25          | <u>1140</u>            | psig |
| 30 min      | <u>1140</u>            | psig |
| 35          | _____                  | psig |
| 40          | _____                  | psig |
| 45          | _____                  | psig |
| 50          | _____                  | psig |
| 55          | _____                  | psig |
| 60 min      | _____                  | psig |

Tubing pressure: 1914 psig

Result: Pass Fail

Signature of Witness: Dennis Ingram

Signature of Person Conducting Test: David Cloward



| STATE OF UTAH<br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING   |   | FORM 9  |  |
|--|---|---|--|
|  |   | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>UTU-49092   |  |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b>   |   | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  |  |
| 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.   |   | <b>7. UNIT or CA AGREEMENT NAME:</b><br>GMBU (GRRV)   |  |
| <b>1. TYPE OF WELL</b><br>Water Injection Well   |   | <b>8. WELL NAME and NUMBER:</b><br>FEDERAL 34-33-B  |  |
| <b>2. NAME OF OPERATOR:</b><br>NEWFIELD PRODUCTION COMPANY   |   | <b>9. API NUMBER:</b><br>43013312690000   |  |
| <b>3. ADDRESS OF OPERATOR:</b><br>Rt 3 Box 3630 , Myton, UT, 84052   |   | <b>9. FIELD and POOL or WILDCAT:</b><br>MONUMENT BUTTE  |  |
| <b>PHONE NUMBER:</b><br>435 646-4825 Ext   |   |   |  |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>0614 FSL 1885 FEL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: SWSE Section: 33 Township: 08.0S Range: 16.0E Meridian: S  |   | <b>COUNTY:</b><br>DUCHESNE  |  |
|  |   | <b>STATE:</b><br>UTAH   |  |
| 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  |   |   |  |
| TYPE OF SUBMISSION   | TYPE OF ACTION  |   |  |
| <input type="checkbox"/> NOTICE OF INTENT<br>Approximate date work will start:   | <input type="checkbox"/> ACIDIZE<br><br><input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br><br><input type="checkbox"/> CHANGE WELL STATUS<br><br><input type="checkbox"/> DEEPEN<br><br><input type="checkbox"/> OPERATOR CHANGE<br><br><input type="checkbox"/> PRODUCTION START OR RESUME<br><br><input type="checkbox"/> REPERFORATE CURRENT FORMATION<br><br><input type="checkbox"/> TUBING REPAIR<br><br><input type="checkbox"/> WATER SHUTOFF<br><br><input type="checkbox"/> WILDCAT WELL DETERMINATION | <input type="checkbox"/> ALTER CASING<br><br><input type="checkbox"/> CHANGE TUBING<br><br><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br><br><input type="checkbox"/> FRACTURE TREAT<br><br><input type="checkbox"/> PLUG AND ABANDON<br><br><input type="checkbox"/> RECLAMATION OF WELL SITE<br><br><input type="checkbox"/> SIDETRACK TO REPAIR WELL<br><br><input type="checkbox"/> VENT OR FLARE<br><br><input type="checkbox"/> SI TA STATUS EXTENSION | <input type="checkbox"/> CASING REPAIR<br><br><input type="checkbox"/> CHANGE WELL NAME<br><br><input type="checkbox"/> CONVERT WELL TYPE<br><br><input type="checkbox"/> NEW CONSTRUCTION<br><br><input type="checkbox"/> PLUG BACK<br><br><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br><br><input type="checkbox"/> TEMPORARY ABANDON<br><br><input type="checkbox"/> WATER DISPOSAL<br><br><input type="checkbox"/> APD EXTENSION |
| <input checked="" type="checkbox"/> SUBSEQUENT REPORT<br>Date of Work Completion:<br>4/2/2015  |   |   |  |
| <input type="checkbox"/> SPUD REPORT<br>Date of Spud:  |   |   |  |
| <input type="checkbox"/> DRILLING REPORT<br>Report Date:   |   |   |  |
|  | <input checked="" type="checkbox"/> OTHER   |   | OTHER: <input type="text" value="5 YR MIT"/>   |
| 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.   |   |   |  |
| <p>On 03/30/2015 Richard Powell with the State of Utah DOGM was contacted concerning the 5 Year MIT on the above listed well. On 04/02/2015 the casing was pressured up to 1227 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 1715 psig during the test. There was a State representative available to witness the test - Richard Powell.</p> |   |   |  |
| <p><b>Accepted by the<br/>Utah Division of<br/>Oil, Gas and Mining<br/>FOR RECORD ONLY<br/>April 07, 2015</b></p>  |   |   |  |
| <b>NAME (PLEASE PRINT)</b><br>Lucy Chavez-Naupoto  | <b>PHONE NUMBER</b><br>435 646-4874   | <b>TITLE</b><br>Water Services Technician   |  |
| <b>SIGNATURE</b><br>N/A  | <b>DATE</b><br>4/6/2015   |   |  |

# Mechanical Integrity Test Casing or Annulus Pressure Test

Newfield Production Company  
Rt. 3 Box 3630  
Myton, UT 84052  
435-646-3721

Witness: Richard Powell Date 4/21/15 Time 10:21 am pm  
Test Conducted by: Hal Rickins  
Others Present: \_\_\_\_\_

Well: Wells Draw Federal 34-33B-8-16 Field: Monument Butte  
Well Location: SW/SE SEC. 33, T8S, R16E API No: 43-013-31269

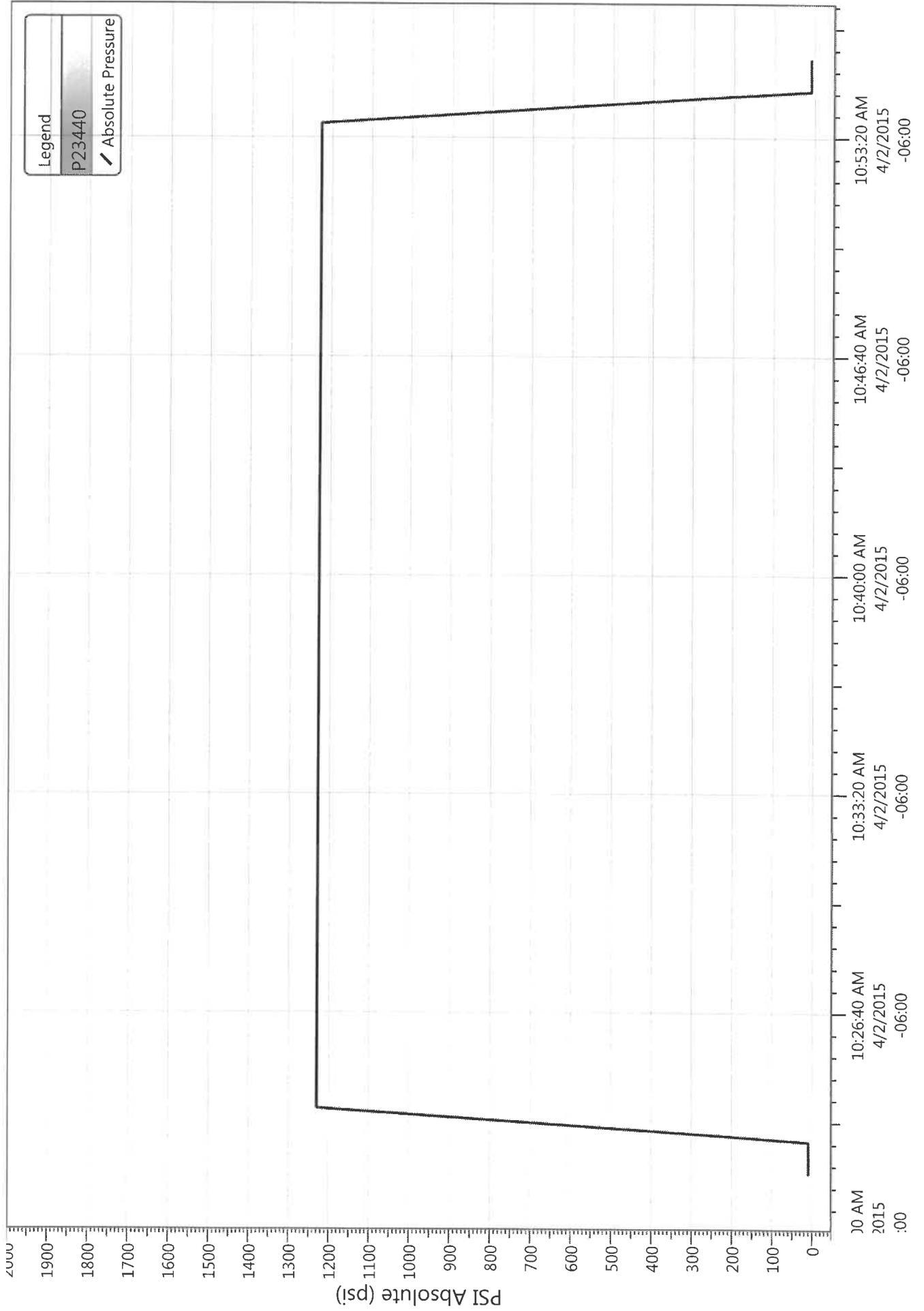
| <u>Time</u> | <u>Casing Pressure</u> |      |
|-------------|------------------------|------|
| 0 min       | <u>1229.2</u>          | psig |
| 5           | <u>1229.0</u>          | psig |
| 10          | <u>1228.4</u>          | psig |
| 15          | <u>1228.2</u>          | psig |
| 20          | <u>1228.2</u>          | psig |
| 25          | <u>1227.8</u>          | psig |
| 30 min      | <u>1227.2</u>          | psig |
| 35          | _____                  | psig |
| 40          | _____                  | psig |
| 45          | _____                  | psig |
| 50          | _____                  | psig |
| 55          | _____                  | psig |
| 60 min      | _____                  | psig |

Tubing pressure: 1715 psig

Result: Pass Fail

Signature of Witness:   
Signature of Person Conducting Test: 

WELLS DRAW FEDERAL 34-33B-8-16 (5 YEAR M.I.T.) 4-2-2015  
4/2/2015 10:01:58 AM



**NEWFIELD**

**Schematic**

43-013-31269

Well Name: Federal 34-33B-8-16

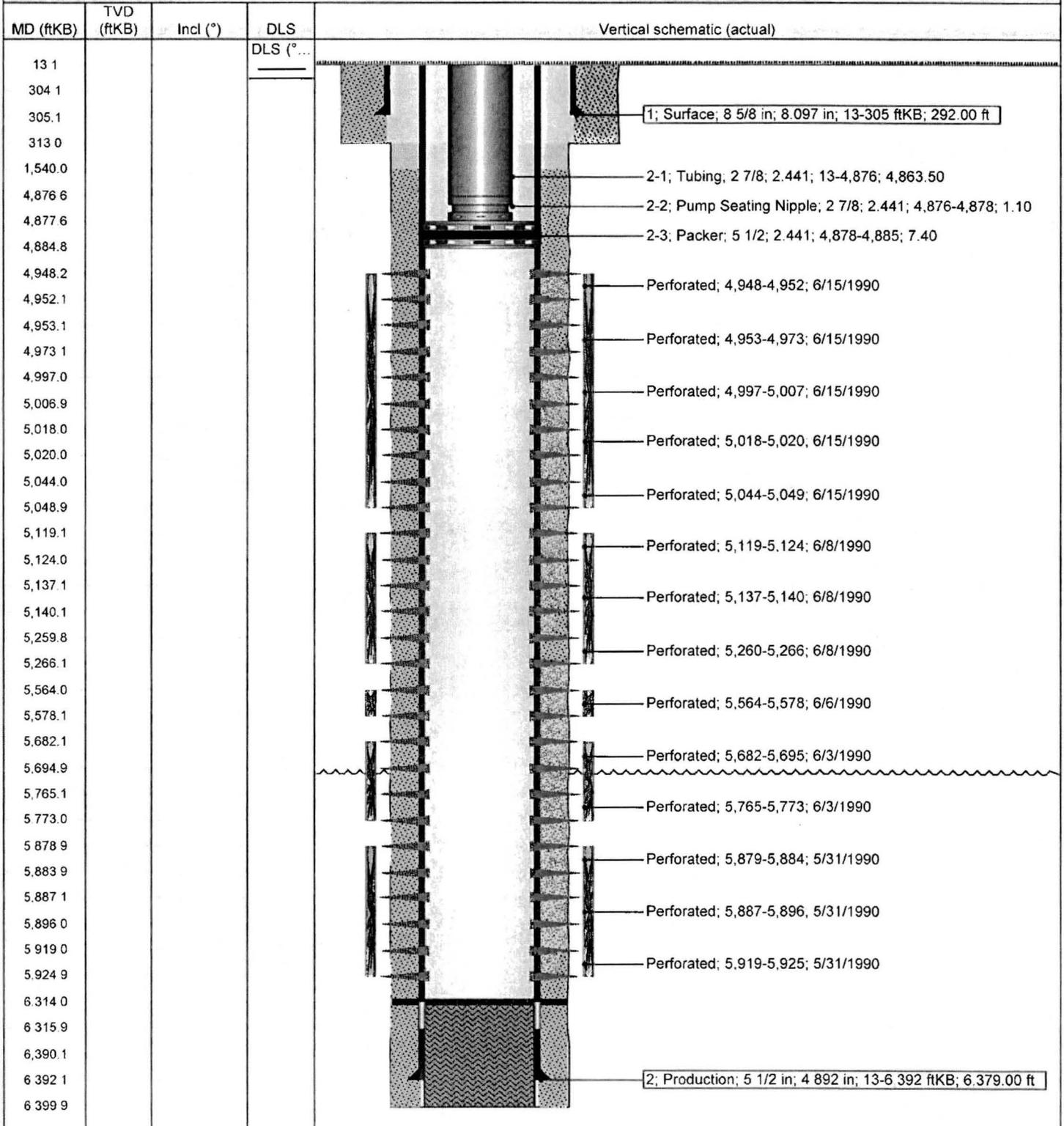
|                                     |                              |                                 |                                     |                                |                              |   |                    |
|-------------------------------------|------------------------------|---------------------------------|-------------------------------------|--------------------------------|------------------------------|---|--------------------|
| Surface Legal Location<br>33-8S-16E |                              | API/UWI<br>43013312690000       | Well RC<br>500151072                | Lease                          | State/Province<br>Utah       | Field Name<br>GMBU CTB4                     | County<br>DUCHESNE |
| Spud Date<br>4/24/1990              | Rig Release Date<br>5/8/1990 | On Production Date<br>6/19/1990 | Original KB Elevation (ft)<br>5,709 | Ground Elevation (ft)<br>5,696 | Total Depth All (TVD) (ftKB) | PBD (All) (ftKB)<br>Original Hole - 6,314.0 |                    |

**Most Recent Job**

|                         |                  |                           |                            |                          |
|-------------------------|------------------|---------------------------|----------------------------|--------------------------|
| Job Category<br>Testing | Primary Job Type | Secondary Job Type<br>N/A | Job Start Date<br>4/2/2015 | Job End Date<br>4/2/2015 |
|-------------------------|------------------|---------------------------|----------------------------|--------------------------|

TD: 6,400.0

Vertical - Original Hole, 11/11/2015 9:47:39 AM



# NEWFIELD



## Newfield Wellbore Diagram Data Federal 34-33B-8-16

|                                     |  |                                |  |  |  |
|-------------------------------------|--|--------------------------------|--|--|--|
| Surface Legal Location<br>33-8S-16E |  | API/UWI<br>43013312690000      |  | Lease  |  |
| County<br>DUCHESNE                  |  | State/Province<br>Utah         |  | Basin  |  |
| Well Start Date<br>4/24/1990        |  | Spud Date<br>4/24/1990         |  | Final Rig Release Date<br>5/8/1990           |  |
| Original KB Elevation (ft)<br>5,709 |  | Ground Elevation (ft)<br>5,696 |  | Total Depth (ftKB)<br>6,400.0                |  |
|                                     |  |                                |  | Total Depth All (TVD) (ftKB)                 |  |
|                                     |  |                                |  | PBTD (All) (ftKB)<br>Original Hole - 6,314.0 |  |

### Casing Strings

| Csg Des    | Run Date  | OD (in) | ID (in) | WtLen (lb/ft) | Grade | Set Depth (ftKB) |
|------------|-----------|---------|---------|---------------|-------|------------------|
| Surface    | 4/24/1990 | 8 5/8   | 8.097   | 24.00         | K-55  | 305              |
| Production | 5/8/1990  | 5 1/2   | 4.892   | 17.00         | K-55  | 6,392            |

### Cement

#### String: Surface, 305ftKB 4/24/1990

|                              |                          |                              |              |                              |
|------------------------------|--------------------------|------------------------------|--------------|------------------------------|
| Cementing Company            | Top Depth (ftKB)<br>13.0 | Bottom Depth (ftKB)<br>313.0 | Full Return? | Vol Cement Ret (bbl)         |
| Fluid Description<br>2% CaCl | Fluid Type<br>Lead       | Amount (sacks)<br>225        | Class<br>G   | Estimated Top (ftKB)<br>13.0 |

#### String: Production, 6,392ftKB 5/8/1990

|                   |                             |                                |                  |                                 |
|-------------------|-----------------------------|--------------------------------|------------------|---------------------------------|
| Cementing Company | Top Depth (ftKB)<br>1,540.0 | Bottom Depth (ftKB)<br>6,400.0 | Full Return?     | Vol Cement Ret (bbl)            |
| Fluid Description | Fluid Type<br>Lead          | Amount (sacks)<br>194          | Class<br>HI LIFT | Estimated Top (ftKB)<br>1,540.0 |
| Fluid Description | Fluid Type<br>Tail          | Amount (sacks)<br>540          | Class<br>RFC     | Estimated Top (ftKB)<br>3,970.0 |

### Tubing Strings

| Tubing Description<br>Tubing |     |         |         | Run Date<br>6/19/1990 | Set Depth (ftKB)<br>4,885.0 |          |            |            |
|------------------------------|-----|---------|---------|-----------------------|-----------------------------|----------|------------|------------|
| Item Des                     | Jts | OD (in) | ID (in) | Wt (lb/ft)            | Grade                       | Len (ft) | Top (ftKB) | Btm (ftKB) |
| Tubing                       | 194 | 2 7/8   | 2.441   | 6.50                  | J-55                        | 4,863.50 | 13.0       | 4,876.5    |
| Pump Seating Nipple          |     | 2 7/8   | 2.441   |                       |                             | 1.10     | 4,876.5    | 4,877.6    |
| Packer                       |     | 5 1/2   | 2.441   |                       |                             | 7.40     | 4,877.6    | 4,885.0    |

### Rod Strings

| Rod Description |     |         |            | Run Date | Set Depth (ftKB) |            |            |  |
|-----------------|-----|---------|------------|----------|------------------|------------|------------|--|
| Item Des        | Jts | OD (in) | Wt (lb/ft) | Grade    | Len (ft)         | Top (ftKB) | Btm (ftKB) |  |

### Perforation Intervals

| Stage# | Zone                | Top (ftKB) | Btm (ftKB) | Shot Dens (shots/ft) | Phasing (°) | Nom Hole Dia (in) | Date      |
|--------|---------------------|------------|------------|----------------------|-------------|-------------------|-----------|
| 5      | D, Original Hole    | 4,948      | 4,952      | 4                    | 90          |                   | 6/15/1990 |
| 5      | D, Original Hole    | 4,953      | 4,973      | 4                    | 90          |                   | 6/15/1990 |
| 5      | D, Original Hole    | 4,997      | 5,007      | 4                    | 90          |                   | 6/15/1990 |
| 5      | D, Original Hole    | 5,018      | 5,020      | 4                    | 90          |                   | 6/15/1990 |
| 5      | D, Original Hole    | 5,044      | 5,049      | 4                    | 90          |                   | 6/15/1990 |
| 4      | C, Original Hole    | 5,119      | 5,124      | 4                    | 90          |                   | 6/8/1990  |
| 4      | C, Original Hole    | 5,137      | 5,140      | 4                    | 90          |                   | 6/8/1990  |
| 4      | C, Original Hole    | 5,260      | 5,266      | 4                    | 90          |                   | 6/8/1990  |
| 3      | LODC, Original Hole | 5,564      | 5,578      | 4                    | 90          |                   | 6/6/1990  |
| 2      | LODC, Original Hole | 5,682      | 5,695      | 4                    | 90          |                   | 6/3/1990  |
| 2      | LODC, Original Hole | 5,765      | 5,773      | 4                    | 90          |                   | 6/3/1990  |
| 1      | CP, Original Hole   | 5,879      | 5,884      | 4                    | 90          |                   | 5/31/1990 |
| 1      | CP, Original Hole   | 5,887      | 5,896      | 4                    | 90          |                   | 5/31/1990 |
| 1      | CP, Original Hole   | 5,919      | 5,925      | 4                    | 90          |                   | 5/31/1990 |

### Stimulations & Treatments

| Stage# | ISIP (psi) | Frac Gradient (psi/ft) | Max Rate (bbl/min) | Max PSI (psi) | Total Clean Vol (bbl) | Total Slurry Vol (bbl) | Vol Recov (bbl) |
|--------|------------|------------------------|--------------------|---------------|-----------------------|------------------------|-----------------|
| 1      |            |                        |                    | 5,000         |                       |                        |                 |
| 2      |            |                        |                    |               |                       |                        |                 |
| 3      |            |                        | 40.0               | 4,000         |                       |                        |                 |
| 4      |            |                        |                    |               |                       |                        |                 |
| 5      |            |                        |                    |               |                       |                        |                 |

### Proppant

| Stage# | Total Prop Vol Pumped (lb) | Total Add Amount       |
|--------|----------------------------|------------------------|
| 1      |                            | Proppant Sand 140000   |
| 2      |                            | Proppant Sand 77000 lb |
| 3      |                            | Proppant Sand 69900 lb |



| Proppant |                            |                         |
|----------|----------------------------|-------------------------|
| Stage#   | Total Prop Vol Pumped (lb) | Total Add Amount        |
| 4        |                            | Proppant Sand 71900 lb  |
| 5        |                            | Proppant Sand 111200 lb |