

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.
UTU-68625

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK **DRILL** **DEEPEN** **PLUG BACK**

7. UNIT AGREEMENT NAME
N/A

1b. TYPE OF WELL
OIL WELL GAS WELL OTHER - DIRECTIONAL
SINGLE ZONE MULTIPLE ZONE

8. FARM OR LEASE NAME
Federal

2. NAME OF OPERATOR **214/750-3800 PG & E Resources Company**
6688 N. Central Expressway, Suite 1000 Dallas, TX 75206

9. WELL NO.
#9-23B

3. ADDRESS OF OPERATOR **303/452-8888 PERMITCO INC. - Agent**
13585 Jackson Drive Denver, CO 80241

10. FIELD AND POOL OR WILDCAT
Natural Buttes 630

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At Surface **2202' FNL and 514' FWL Sec. 24, T9S - R19E**
At proposed Prod. Zone **1980' FSL and 660' FEL, Sec. 23, T9S - R19E**
43-047-32446

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 24, T9S - R19E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
7 miles southwest of Ouray, UT

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)
507'

16. NO. OF ACRES IN LEASE
1667.76

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.
Approx. 2100'

19. PROPOSED DEPTH
5400' TVD, 5728' MD

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
4697' GR

22. APPROX. DATE WORK WILL START*
Upon approval of this application

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	400'	170 sx or suffic to circ to surf.
7-7/8"	5-1/2"	14#	5400' TVD, 5728' MD	500 cubic feet or sufficient to cover zones of interest.

PG & E Resources Company proposes to drill a directional well to 5400' TVD, 5728' MD to test the Green River formation. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

See Onshore Order No. 1 attached.

Please be advised that PG & E Resources Company is considered to be the Operator of the above mentioned well. PG & E Resources Company agrees to be responsible under the terms and conditons of the lease for the operations conducted upon the lease lands.

Bond coverage for this well is provided by Bond No. U-187011. The principal is PG & E Resources Company via surety consent as provided for in 43 CFR 3104.2.

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

Consultant for:
TITLE **PG & E Resources Co.**

DATE **08/31/93**

(This space for Federal or State office use)

PERMIT NO. _____
APPROVED BY
CONDITIONS OF APPROVAL, IF ANY _____

APPROVAL DATE _____

TITLE **ASSISTANT DISTRICT MANAGER MINERALS**

DATE **SEP 24 1993**

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL RELATIVE TO OPERATIONS USE.

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any persn 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 mater within its jurisdiction.

DM CGM

WELL LOCATION INFORMATION

Company/Operator: PG & E Resources Company

API Number: 43-047- 32446

Well Name & Number: 9-23B

Lease Number: U-68625

Surface Location: SWNW Sec. 24 T. 9S R. 19E

Bottom Location: NESE Sec. 23 T. 9S R. 19E

Surface Ownership: Federal Lands administered by BLM

Date NOS Received: August 23, 1993

Date APD Received: September 10, 1993

NOTIFICATION REQUIREMENTS

- | | | |
|---------------------------------|---|---|
| Location Construction | - | at least forty-eight (48) hours prior to construction of location and access roads. |
| Location Completion | - | prior to moving on the drilling rig. |
| Spud Notice | - | at least twenty-four (24) hours prior to spudding the well. |
| Casing String and Cementing | - | at least twenty-four (24) hours prior to running casing and cementing all casing strings. |
| BOP and Related Equipment Tests | - | at least twenty-four (24) hours prior to initiating pressure tests. |
| First Production Notice | - | within five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90) days. |

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

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.

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.

If this well is drilled and successfully completed in the Green River Formation in the NESE of Section 23, Township 9 South, Range 19 East then no other well will be allowed or approved in that quarter-quarter with the Green River Formation as the target formation.

A. DRILLING PROGRAM

1. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for a 3 M system.

2. Casing Program and Auxiliary Equipment

If measurement while drilling (MWD) equipment is not being utilized while drilling from the kick off point to total depth, then directional surveys must be run at a minimum of every ninety (90) ft. from the kick off point to total depth.

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the Mahogany oil shale zone, identified at \pm 2500 ft.

3. Coring, Logging and Testing Program

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

A cement bond log (CBL) will be run from the production casing shoe to \pm 2300 ft. and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

SURFACE USE PLAN OF OPERATIONS
Conditions of Approval (COAs)

ADDITIONAL SURFACE CONDITIONS OF APPROVAL

The construction of the access road and well pad needs to be monitored by a professional paleontologist/archeologist to ensure that the paleontology and archeological sites are protected as specified in the cultural resources survey conducted for this well.



August 31, 1993

RECEIVED

SEP 02 1993

DIVISION OF
OIL, GAS & MINING

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

Attn: Tammi Searing

Re: PG & E Resources Company
#9-23B Federal
2202' FNL and 514' FWL (Surf.)
Sec. 24, T9S - R19E
1980' FSL and 660' FEL (Btm. Hole)
Sec. 23, T9S - R19E
Uintah County, Utah

Dear Tammi,

Enclosed please find three copies of the Application for Permit to Drill on the above mentioned well, along with the required drilling program and the surface use plan which was filed with the Bureau of Land Management in Vernal, Utah.

Please note that a copy of the Application to Appropriate Water is attached to the back of the federal permit.

Please forward the approved copies to Jim LaFevers, PG & E Resources Company at the address shown on the A.P.D. Thanks for your assistance in this matter.

Sincerely,

PERMITCO INC.

A handwritten signature in cursive script, appearing to read "Lisa L. Smith".

Lisa L. Smith
Consultant for:
PG & E Resources Company

Enc.

cc: PG & E Resources Company - Dallas, TX
PG & E Resources Company - Vernal, UT

Permitco Incorporated
A Petroleum Permitting Company

13585 Jackson Drive Denver, Colorado 80241 (303) 452-8888

CONFIDENTIAL - EIGHT HOLE

SUBMIT IN TRIPLICATE
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

**UNITED STATES
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WELL **WELL** **OTHER - DIRECTIONAL** **ZONE** **ZONE**

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PG & E Resources Company **Suite 1000 Dallas, TX 75206**

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PERMITCO INC. - Agent **Denver, CO 80241**

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24. SIGNED _____ TITLE **PG & E Resources Co.** DATE **08/31/93**

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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#9-23B Federal

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2202' FNL and 514' FWL, Sec. 24, T9S - R19E (Surface)
1980' FSL and 660' FEL, Sec. 23, T9S - R19E (Btm. Hole)
Uintah County, Utah

ONSHORE OIL & GAS ORDER NO. 1
Approval of Operations on Onshore
Federal and Indian Oil and Gas Leases

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

1. The estimated tops of important geologic markers are as follows:

<u>Formation</u>	<u>Depth (TVD)</u>	<u>Subsea</u>
Uinta	Surface	
Green River	1061'	+3674'
Douglas Creek	4121'	+ 614'
E ₂ Marker	4653'	+ 82'
F Marker	4855'	- 120'
Basal Ls.	5205'	- 490'
Wasatch	5348'	- 613'
T.D.	5400' (5728' MD)	

2. The estimated depths at which the top and bottom of the anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are as follows:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Oil	E ₂ Marker	4795-4855'
Oil	F Marker	5010-5025'
Water	N/A	
Other Mineral Zones	N/A	

All fresh water prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

#9-23B Federal

2202' FNL and 514' FWL, Sec. 24, T9S - R19E (Surface)
1980' FSL and 660' FEL, Sec. 23, T9S - R19E (Btm. Hole)
Uintah County, Utah

DRILLING PROGRAM

Page 2

3. **PG & E's minimum specifications for pressure control equipment are as follows:**

Ram Type: 10" Hydraulic double with annular, 3000 psi w.p.

Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline in pressure of more than 10 percent in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.

Annular type preventers (if used) shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

As a minimum, the above test shall be performed:

- a. **when initially installed;**
- b. **whenever any seal subject to test pressure is broken**
- c. **following related repairs; and**
- d. **at 30-day intervals**

Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.

When testing the kill line valve(s) the check valve shall be held open or the ball removed.

Annular preventers shall be functionally operated at least weekly.

Pipe and blind rams shall be activated each trip, however, this function need not be performed more than once a day.

A BOPE pit level drill shall be conducted weekly for each drilling crew.



2202' FNL and 514' FWL, Sec. 24, T9S - R19E (Surface)
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Uintah County, Utah

Pressure tests shall apply to all related well control equipment.

All of the above described tests and/or drills shall be recorded in the drilling log.

BOP systems shall be consistent with API RP53. Pressure tests will be conducted before drilling out from under casing strings which have been set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

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

- a. **The size and rating of the BOP stack is shown on the attached diagram. Although a rig has not been chosen to drill this well, most of the equipment for this depth of hole in the area use a 10", 3000 psi working pressure blowout preventor.**
 - b. **A choke line and a kill line are to be properly installed. The kill line is not to be used as a fill-up line.**
 - c. **The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.**
 - d. **Drill string safety valve(s), to fit all tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.**
4. a. **The proposed casing and cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals. Any isolating medium other than cement shall receive approval prior to use. The casing setting depth shall be calculated to position the casing seat opposite a competent formation which will contain the**

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Uintah County, Utah

DRILLING PROGRAM

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maximum pressure to which it will be exposed during normal drilling operations. Determination of casing setting depth shall be based on all relevant factors, including; presence/absence of hydrocarbons; fracture gradients; usable water zones; formation pressures; lost circulation zones; other minerals; or other unusual characteristics. All indications of usable water shall be reported.

- b. Casing design shall assume formation pressure gradients of 0.44 to 0.50 psi per foot for exploratory wells (lacking better data).**
- c. Casing design shall assume fracture gradients from 0.70 to 1.00 psi per foot for exploratory wells (lacking better data)**
- d. Casing collars shall have a minimum clearance of 0.422 inches of all sides in the hole/casing annulus, with recognition that variances can be granted for justified exceptions.**
- e. All waiting on cement times shall be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.**
- f. All casing except the conductor casing, shall be new or reconditioned and tested used casing that meets or exceeds API standards for new casing.**
- g. The surface casing shall be cemented back to surface either during the primary cement job or by remedial cementing.**
- h. All indications of usable water shall be reported to the authorized officer prior to running the next string of casing or before plugging orders are requested, whichever occurs first.**
- i. Surface casing shall have centralizers on every fourth joint of casing starting with the shoe joint and up to the bottom of the cellar.**



2202' FNL and 514' FWL, Sec. 24, T9S - R19E (Surface)
 1980' FSL and 660' FEL, Sec. 23, T9S - R19E (Btm. Hole)
 Uintah County, Utah

- j. Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a suitable preflush fluid, inner string cement method, etc. shall be utilized to help isolate the cement from contamination by the mud fluid being displaced ahead of the cement slurry.
- k. All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or 1500 psi, whichever is greater, but not to exceed 70 percent of the minimum internal yield. If pressure declines more than 10 percent in 30 minutes, corrective action shall be taken.
- l. On all exploratory wells, and on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- m. The proposed casing program will be as follows:

<u>Purpose</u>	<u>Depth</u>	<u>Hole Size</u>	<u>O.D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>	<u>New or Used</u>
Surface	0-400'	12-1/4"	9-5/8"	36#	K-55	ST&C	New
Produc.	0-5400' TVD 0-5728' MD	7-7/8"	5-1/2"	14#	J-55	ST&C	New

- n. Casing design subject to revision based on geologic conditions encountered.
- o. The cement program will be as follows:

<u>Surface</u> 0-400'	<u>Type and Amount</u> ± 170 sx Class "A" Cement or sufficient volume to circulate to surface.
--------------------------	---

<u>Production</u>	<u>Type and Amount</u> Approx. 500 cubic feet of 50/50 Poz Mix, 14.1 ppg, 1.26 yield or sufficient
-------------------	---

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1980' FSL and 660' FEL, Sec. 23, T9S - R19E (Btm. Hole)
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to cover zones of interest (from T.D.
to approx. 2425'.

- p. Anticipated cement tops will be reported as to depth; not the expected number of sacks of cement to be used. The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.
- q. After cementing but before commencing any test, the casing string shall stand cemented until the cement has reached a compressive strength of at least 500 psi at the shoe. WOC time shall be recorded in the driller's log.
- r. The following reports shall be filed with the District Manager within 30 days after the work is completed.
 - 1. Progress reports, Form 3160-5 (formerly 9-331) "Sundry Notices and Reports on Wells", must include complete information concerning:
 - a. Setting of each string of casing, showing the size, grade, weight of casing set, hole size, setting depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of cementing tools used, casing test method and results, and the date work was done. Show the spud date on the first reports submitted.
 - b. Temperature or bond logs must be submitted for each well where the casing cement was not circulated to the surface.
- s. Auxiliary equipment to be used is as follows:
 - 1. Kelly cock
 - 2. No bit float is deemed necessary.
 - 3. A sub with a full opening valve.

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DRILLING PROGRAM

5. a. The proposed circulating mediums to be employed in drilling are as follows:

<u>Interval</u>	<u>Mud Type</u>	<u>Mud Wt.</u>	<u>Visc.</u>	<u>F/L</u>	<u>PH</u>
0-5400'	LSND	8.3-10.1	26-40	4-10	9-10

There will be sufficient mud on location to control a blowout should one occur.

A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, static filtration loss, and Ph.

- b. Mud monitoring equipment to be used is as follows:
1. Periodic checks will be made each tour of the mud system. The mud level will be checked visually.
- c. No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

6. The anticipated type and amount of testing, logging and coring are as follows:

- a. Drill stem tests will be run as warranted after log evaluation. (Straddle test).

If DST's are run, the following requirements will be adhered to:

Initial opening of drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the authorized officer. However, DST's 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 vapor-proof for safe operations). Packers can be released, but tripping shall not begin before daylight, unless prior approval is obtained



from the authorized officer. Closed chamber DSTs may be accomplished day or night.

A DST that flows to the surface with evidence of hydrocarbons shall be either reversed out of the testing string under controlled surface conditions. This would involve provided some means for reverse circulation.

Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

All engines within 100 feet of the wellbore that are required to "run" during the test shall have spark arresters or water cooled exhausts.

- b. The logging program will consist of a Dual Laterolog (2" and 5") from T.D. to base of surface casing. A Spectral Density Dual Spaced Neutron Log w/ PE curve, 5" from TD to 2500'. A Density Neutron Log, Main run with Ss (2.68) matrix, also run with dolomite matrix from 4500' - 5000'.
- c. No cores are anticipated. Rotary sidewall cores if warranted.
- d. 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).
- e. The anticipated completion program is as follows:
Perforate zones of interest and frac hydrocarbon bearing zones. Flow to tanks.



7.
 - a. The expected bottom hole pressure is 1900 psi.
 - b. No hydrogen sulfide gas is anticipated.

8.
 - a. Drilling will commence immediately upon approval of this application.
 - b. It is anticipated that the drilling of this well will take approximately 16-17 days.
 - c. The BLM in Vernal, Utah shall be notified of anticipated date of location construction commencement and of anticipated spud date.
 - d. 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.
 - e. 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.
 - f. In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 3160-6 "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed with the Vernal BLM District Office, 170 South 500 East, Vernal, UT 84078.
 - g. 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.



2202' FNL and 514' FWL, Sec. 24, T9S - R19E (Surface)
1980' FSL and 660' FEL, Sec. 23, T9S - R19E (Btm. Hole)
Uintah County, Utah

DRILLING PROGRAM
Page 10

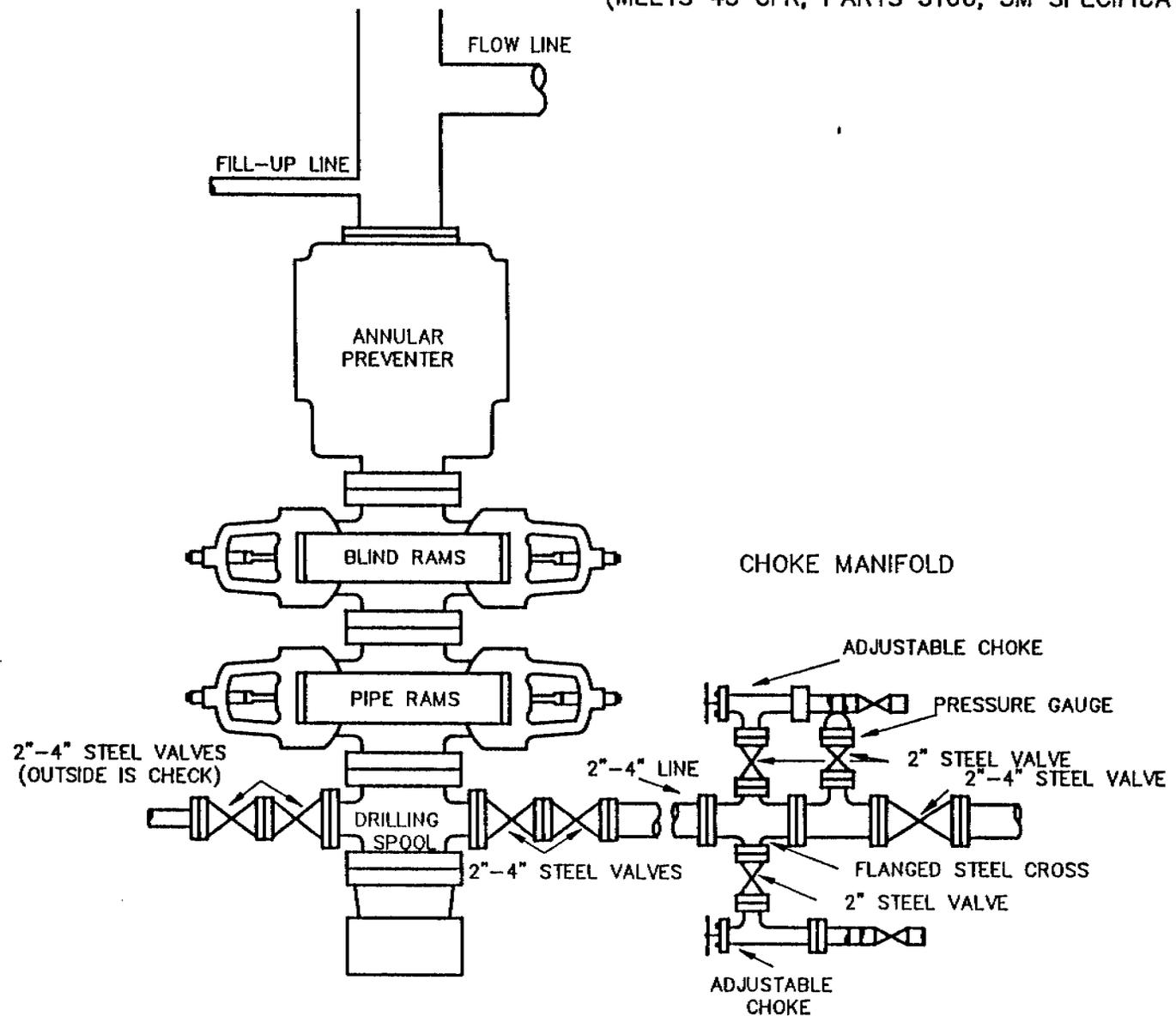
- h. If a replacement rig is contemplated for completion operations, a "Sundry Notice" Form 3160-5 to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.**
- i. Should the well be successfully 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 communications, not later than 5 days following the date on which the well is placed on production.**
- j. Pursuant to NTL-2B, with the approval of the 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.**
- k. Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during initial well evaluation tests, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the District Engineer and approval received, for any venting/flaring of gas beyond the initial 30 day or authorized test period.**
- l. A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3 and 3162.7-4 shall be submitted to the appropriate District Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in 43 CFR 3162.7 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.**
- m. A first production conference will be scheduled within 15 days after receipt of the first production notice.**

- n. **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 SO. 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.**

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



THREE PREVENTER HOOKUP
CLASS III
(MEETS 43 CFR, PARTS 3160, 3M SPECIFICATIONS)



PG&E Resources Company
 9-23B Federal
 Riverbend Area
 Uintah County, Utah

WELLPATH DATA

Sta. Num.	M.D. Feet	Incl. Angle Deg.	Azi. Angle Deg.	Coordinates			Vert. Sec. Feet	Closure		Rate Change		Total D.L. Deg/100 Ft	TFO Deg.
				+N,-S Feet	+E,-W Feet	TVD Feet		Dist. Feet	Dire. Deg.	Incl. Deg/100 Ft	Azi. Deg/100 Ft		
1	0	0.00	226.00	0	0	0	0	0	0.0	0.00	0.00	0.0	0.0
2	100	0.00	226.00	0	0	100	0	0	0.0	0.00	0.00	0.0	0.0
3	200	0.00	226.00	0	0	200	0	0	0.0	0.00	0.00	0.0	0.0
4	300	0.00	226.00	0	0	300	0	0	0.0	0.00	0.00	0.0	0.0
5	400	0.00	226.00	0	0	400	0	0	0.0	0.00	0.00	0.0	0.0
6	500	0.00	226.00	0	0	500	0	0	0.0	0.00	0.00	0.0	0.0
7	600	0.00	226.00	0	0	600	0	0	0.0	0.00	0.00	0.0	0.0
8	700	0.00	226.00	0	0	700	0	0	0.0	0.00	0.00	0.0	0.0
9	800	0.00	226.00	0	0	800	0	0	0.0	0.00	0.00	0.0	0.0
10	900	0.00	226.00	0	0	900	0	0	0.0	0.00	0.00	0.0	0.0
11	1000	0.00	226.00	0	0	1000	0	0	0.0	0.00	0.00	0.0	0.0
12	1100	0.00	226.00	0	0	1100	0	0	0.0	0.00	0.00	0.0	0.0
KOP, BUR 1.5													
13	1122	0.00	226.00	0	0	1122	0	0	0.0	0.00	0.00	0.0	0.0
14	1222	1.50	226.00	-1	-1	1222	1	1	226.0	1.50	0.00	1.5	0.0
15	1322	3.00	226.00	-4	-4	1322	5	5	226.0	1.50	0.00	1.5	0.0
16	1422	4.50	226.00	-8	-8	1422	12	12	226.0	1.50	0.00	1.5	0.0
17	1522	6.00	226.00	-15	-15	1521	21	21	226.0	1.50	0.00	1.5	0.0
18	1622	7.50	226.00	-23	-24	1621	33	33	226.0	1.50	0.00	1.5	0.0
19	1722	9.00	226.00	-33	-34	1720	47	47	226.0	1.50	0.00	1.5	0.0
20	1822	10.50	226.00	-44	-46	1818	64	64	226.0	1.50	0.00	1.5	0.0
21	1922	12.00	226.00	-58	-60	1916	83	83	226.0	1.50	0.00	1.5	0.0
22	2022	13.50	226.00	-73	-76	2014	106	106	226.0	1.50	0.00	1.5	0.0
23	2122	15.00	226.00	-90	-94	2111	130	130	226.0	1.50	0.00	1.5	0.0
24	2222	16.50	226.00	-109	-113	2207	157	157	226.0	1.50	0.00	1.5	0.0
25	2322	18.00	226.00	-130	-134	2302	187	187	226.0	1.50	0.00	1.5	0.0
26	2422	19.50	226.00	-152	-158	2397	219	219	226.0	1.50	0.00	1.5	0.0
27	2522	21.00	226.00	-176	-182	2491	254	254	226.0	1.50	0.00	1.5	0.0
28	2622	22.50	226.00	-202	-209	2584	291	291	226.0	1.50	0.00	1.5	0.0
29	2722	24.00	226.00	-229	-238	2676	330	330	226.0	1.50	0.00	1.5	0.0
EOB, ANG 25													
30	2789	25.00	226.00	-249	-257	2736	358	358	226.0	1.50	0.00	1.5	0.0
31	2889	25.00	226.00	-278	-288	2827	400	400	226.0	0.00	0.00	0.0	0.0
32	2989	25.00	226.00	-307	-318	2918	442	442	226.0	0.00	0.00	0.0	0.0
33	3089	25.00	226.00	-337	-349	3008	485	485	226.0	0.00	0.00	0.0	0.0
34	3189	25.00	226.00	-366	-379	3099	527	527	226.0	0.00	0.00	0.0	0.0
35	3289	25.00	226.00	-395	-409	3189	569	569	226.0	0.00	0.00	0.0	0.0
36	3389	25.00	226.00	-425	-440	3280	611	611	226.0	0.00	0.00	0.0	0.0
37	3489	25.00	226.00	-454	-470	3371	654	654	226.0	0.00	0.00	0.0	0.0
38	3589	25.00	226.00	-483	-501	3461	696	696	226.0	0.00	0.00	0.0	0.0
39	3689	25.00	226.00	-513	-531	3552	738	738	226.0	0.00	0.00	0.0	0.0
40	3789	25.00	226.00	-542	-561	3643	780	780	226.0	0.00	0.00	0.0	0.0
41	3889	25.00	226.00	-572	-592	3733	823	823	226.0	0.00	0.00	0.0	0.0
42	3989	25.00	226.00	-601	-622	3824	865	865	226.0	0.00	0.00	0.0	0.0
43	4089	25.00	226.00	-630	-653	3914	907	907	226.0	0.00	0.00	0.0	0.0
44	4189	25.00	226.00	-660	-683	4005	950	950	226.0	0.00	0.00	0.0	0.0
45	4289	25.00	226.00	-689	-713	4096	992	992	226.0	0.00	0.00	0.0	0.0
46	4389	25.00	226.00	-718	-744	4186	1034	1034	226.0	0.00	0.00	0.0	0.0
47	4489	25.00	226.00	-748	-774	4277	1076	1076	226.0	0.00	0.00	0.0	0.0
48	4589	25.00	226.00	-777	-805	4368	1119	1119	226.0	0.00	0.00	0.0	0.0
49	4689	25.00	226.00	-806	-835	4458	1161	1161	226.0	0.00	0.00	0.0	0.0
50	4789	25.00	226.00	-836	-865	4549	1203	1203	226.0	0.00	0.00	0.0	0.0
51	4889	25.00	226.00	-865	-896	4640	1245	1245	226.0	0.00	0.00	0.0	0.0
52	4989	25.00	226.00	-894	-926	4730	1288	1288	226.0	0.00	0.00	0.0	0.0
53	5089	25.00	226.00	-924	-957	4821	1330	1330	226.0	0.00	0.00	0.0	0.0
54	5189	25.00	226.00	-953	-987	4911	1372	1372	226.0	0.00	0.00	0.0	0.0
55	5289	25.00	226.00	-983	-1017	5002	1414	1414	226.0	0.00	0.00	0.0	0.0
56	5389	25.00	226.00	-1012	-1048	5093	1457	1457	226.0	0.00	0.00	0.0	0.0
57	5489	25.00	226.00	-1041	-1078	5183	1499	1499	226.0	0.00	0.00	0.0	0.0
58	5589	25.00	226.00	-1071	-1109	5274	1541	1541	226.0	0.00	0.00	0.0	0.0
59	5689	25.00	226.00	-1100	-1139	5365	1583	1583	226.0	0.00	0.00	0.0	0.0
TD													
60	5728	25.00	226.00	-1112	-1151	5400	1600	1600	226.0	0.00	0.00	0.0	0.0

2202' FNL and 514' FWL (Surface Location)
SW SE Sec. 24, T9S - R19E
1980' FSL and 660' FEL (Btm. Hole Location)
NE SE Sec. 23, T9S - R19E
Uintah County, Utah

- b. A reserve pit liner has been required by the Bureau of Land Management. If a plastic liner is used, it will be a minimum of 10 mil thickness with sufficient bedding (either straw or dirt) to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. More stringent protective requirements may be deemed necessary by the A.O.
- c. Burning will not be allowed. All trash will be contained in a trash cage and its contents removed at the end of drilling operations and hauled to an approved disposal sight.
- d. After first production, produced waste water will be confined to a unlined pit or storage tank for a period not to exceed ninety (90) days. During the 90-day period, in accordance with NTL-2B, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.
- e. Drill cuttings are to be contained and buried in the reserve pit.
- f. Any salts and/or chemicals which are an integral part of the drilling system will be disposed of in the same manner as the drilling fluid.
- g. A chemical porta-toilet will be furnished with the drilling rig.
- h. The produced fluids will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas salt water or other produced fluids will be cleaned up and removed.

8. Ancillary Facilities

There are no airstrips, camps, or other facilities planned during the drilling of the proposed well.



2202' FNL and 514' FWL (Surface Location)
SW SE Sec. 24, T9S - R19E
1980' FSL and 660' FEL (Btm. Hole Location)
NE SE Sec. 23, T9S - R19E
Uintah County, Utah

SURFACE USE PLAN

Page 7

9. Well Site Layout

- a. The reserve pit will be located on the northeast side of the location.
- b. The flare pit will be located downwind of the prevailing wind direction on the southeast side, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence.
- c. The stockpiled topsoil (first six inches) will be stored along the west side of the location as shown on the attached rig layout.
- d. Access to the wellpad will be from the southeast as shown on the attached rig layout.
- e. See Location Layout for orientation of rig, cross section of drill pad and cuts and fills.
- f. The location of mud tanks; reserve pit, trash cage; pipe racks; living facilities and soil stockpiles will be shown on the Location Layout.
- g. During construction, all brush will be removed from the wellpad and access road and stockpiled separately from the topsoil.
- h. All pits will be fenced according to the following minimum standards:
 1. 39 inch net wire shall be used with at least one strand or barbed wire on top of the net wire (barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
 2. The net wire shall be no more than 2-inches above the ground. The barbed wire shall be 3-inches above the net wire. Total height of the fence shall be at least 42-inches.

2202' FNL and 514' FWL (Surface Location)
SW SE Sec. 24, T9S - R19E
1980' FSL and 660' FEL (Btm. Hole Location)
NE SE Sec. 23, T9S - R19E
Uintah County, Utah

3. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
 4. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.
 5. All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.
- i. The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until cleanup.

10. Plans for Restoration of Surface

Producing Location

- a. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash and junk not required for production.
- b. Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with 43 CFR 3162.7-1.
- c. If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.
- d. The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed and all cans, barrels, pipe, etc., will be removed.



2202' FNL and 514' FWL (Surface Location)
SW SE Sec. 24, T9S - R19E
1980' FSL and 660' FEL (Btm. Hole Location)
NE SE Sec. 23, T9S - R19E
Uintah County, Utah

SURFACE USE PLAN

Page 9

- e. The appropriate surface management agency should be contact for required seed mixture.

Dry Hole

- f. At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and BLM will attached the appropriate surface rehabilitation conditions of approval.

11. Surface Ownership

Access Roads - All roads are County maintained or are on Indian or BLM lands

Wellpad - The well pad is located on lands owned by the BLM.

12. Other Information

- a. A Class III archeological survey was conducted by Sagebrush Archeological Consultants. A copy of this report will be submitted directly to the appropriate agencies by Sagebrush Archeological Consultants.
- b. The operator is responsible for informing all persons in the areas who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer (AO). Within five working days the AO will inform the operator as to:

-whether the materials appear eligible for the National Register of Historic Places;

-the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and



2202' FNL and 514' FWL (Surface Location)
SW SE Sec. 24, T9S - R19E
1980' FSL and 660' FEL (Btm. Hole Location)
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Uintah County, Utah

SURFACE USE PLAN

Page 10

-a time frame for the AO to complete and expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate. If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

- c. The operator will control noxious weeds along rights-of-way for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds may be obtained from the BLM, or the appropriate County Extension Office. On BLM administered land it is required that a Pesticide Use Proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.
- d. Drilling rigs and/or equipment used during drilling operations on this wellsite will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without BLM authorization. However, if BLM authorization is obtained, it is only a temporary measure.
- e. All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. 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.
- f. A complete copy of the approved APD shall be on location during construction of the location and drilling activities.

PG & E Resources Company

#9-23B Federal

2202' FNL and 514' FWL (Surface Location)

SW SE Sec. 24, T9S - R19E

1980' FSL and 660' FEL (Btm. Hole Location)

NE SE Sec. 23, T9S - R19E

Uintah County, Utah

SURFACE USE PLAN

Page 11

- g. This permit will be valid for a period of one year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.
- h. The operator or his contractor shall contact the BLM Offices at 801/789-1362 48 hours prior to construction activities.
- i. The BLM Office shall be notified upon site completion prior to moving on the drilling rig.

13. Lessee's or Operator's Representative and Certification

Permit Matters

PERMITCO INC.

Lisa L. Smith

13585 Jackson Drive

Denver, CO 80241

303/452-8888

Drilling & Completion Matters

PG & E Resources Company

6688 N. Central Expressway

Suite 1000

Dallas, TX 75225

Gary Whetstine - 214/750-3800

Jim LaFevers - 214/750-3800

Certification

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 presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by PG & E Resources Company and its contractors and subcontractors in conformity with the plan and the terms and conditions under which it is approved.



ONSHORE ORDER NO. 1
PG & E Resources Company
#9-23B Federal
2202' FNL and 514' FWL (Surface Location)
SW SE Sec. 24, T9S - R19E
1980' FSL and 660' FEL (Btm. Hole Location)
NE SE Sec. 23, T9S - R19E
Uintah County, Utah

CONFIDENTIAL - TIGHT HOLE

SURFACE USE PLAN

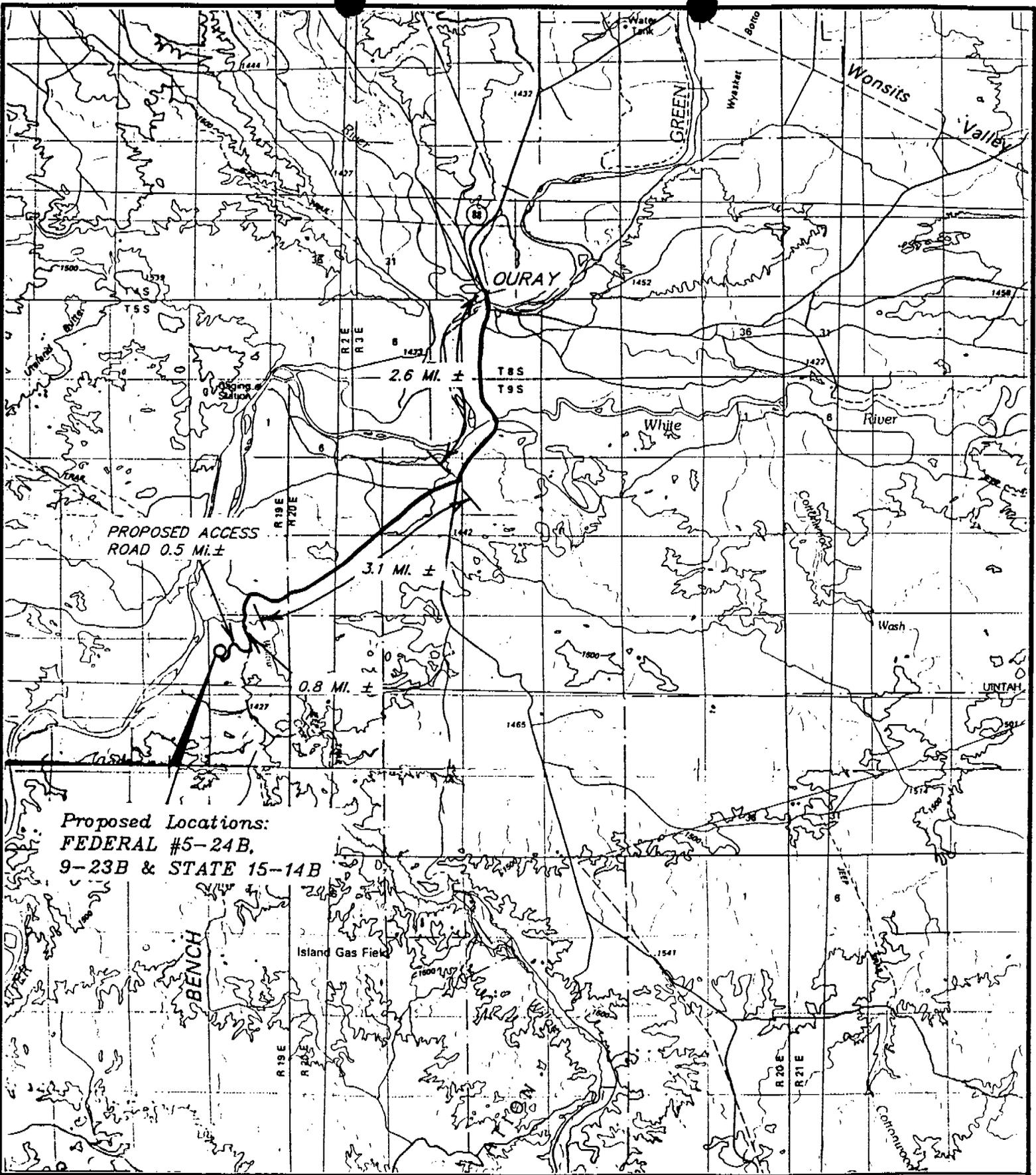
Page 12

This statement is subject to the provisions of 18.U.S.C. 1001 for the filing of a false statement.

August 31, 1993
Date:



Lisa L. Smith - PERMITCO INC.
Authorized Agent for:
PG & E Resources Company



PROPOSED ACCESS ROAD 0.5 MI. ±

3.1 MI. ±

0.8 MI. ±

2.6 MI. ±

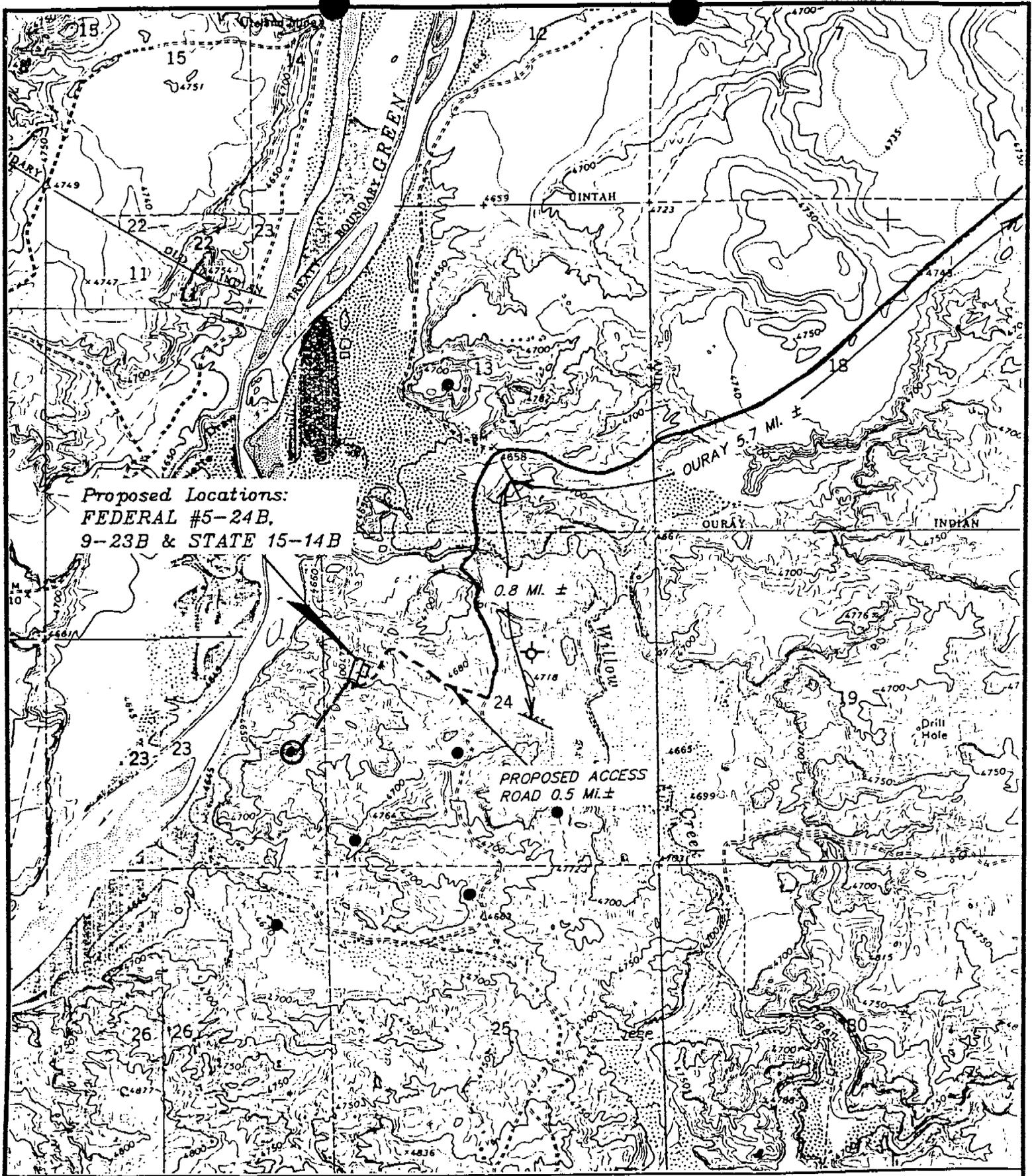
Proposed Locations:
 FEDERAL #5-24B,
 9-23B & STATE 15-14B

REVISED: 8-25-93 T.D.H.
 TOPOGRAPHIC
 MAP "A"
 DATE 8-17-93 R.E.H.



PG&E RESOURCES COMPANY

FEDERAL #5-24B, 9-23B & STATE 15-14B
 SECTION 24, T9S, R19E, S.L.B.&M.



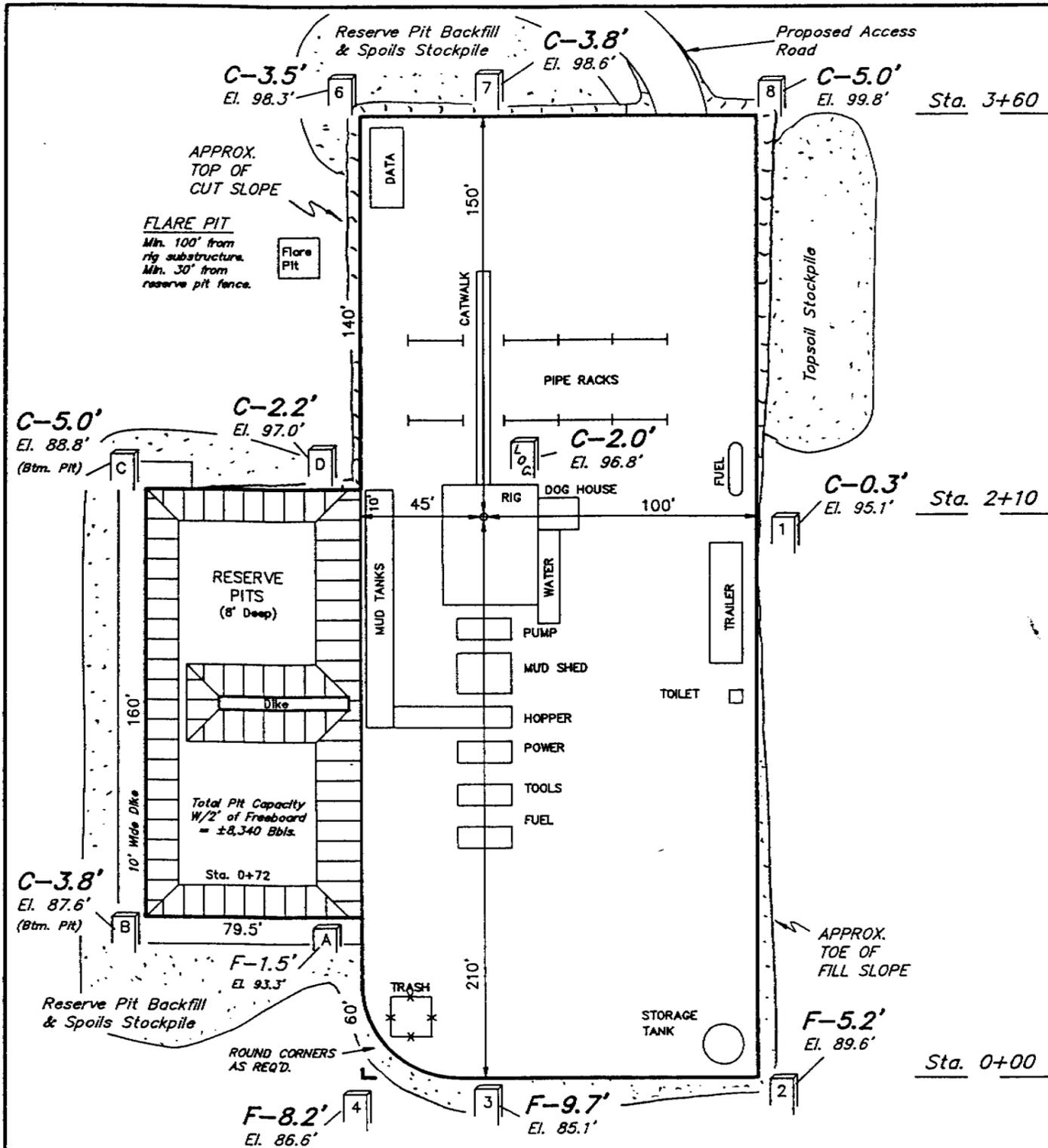
Proposed Locations:
 FEDERAL #5-24B,
 9-23B & STATE 15-14B

PROPOSED ACCESS
 ROAD 0.5 MI. ±

● Producing Wells
 ● Shut In Wells
TOPOGRAPHIC
MAP "B"
 SCALE: 1" = 2000'
 DATE 8-17-93 R.E.H.

○ Dry Holes
PG&E RESOURCES COMPANY

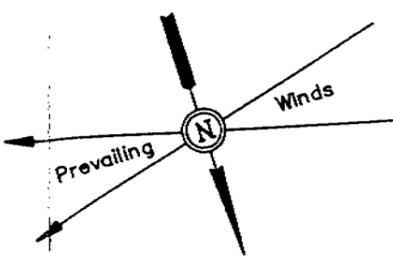
FEDERAL #5-24B, 9-23B & STATE 15-14B
 SECTION 24, T9S, R19E, S.L.B.&M.



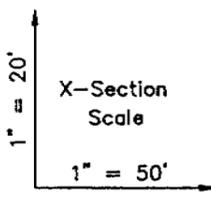
APPROXIMATE YARDAGES

CUT		EXCESS MATERIAL AFTER	
(6") Topsoil Stripping	= 1,190 Cu. Yds.	5% COMPACTION	= 2,470 Cu. Yds.
Remaining Location	= 5,350 Cu. Yds.	Topsoil & Pit Backfill	= 2,460 Cu. Yds.
		(1/2 Pit Vol.)	
TOTAL CUT	= 6,540 CU.YDS.	EXCESS MATERIAL AFTER	= 10 Cu. Yds.
FILL	= 3,870 CU.YDS.	TOPSOIL & PIT BACKFILL	HAVE BEEN REDISTRIBUTED

PG&E RESOURCES COMPANY
 LOCATION LAYOUT FOR
 FEDERAL #9-23B
 SECTION 24, T9S, R19E, S.L.B.&M.
 2202' FNL 514' FWL



SCALE: 1" = 50'
 DATE: 8-23-93
 Drawn By: T.D.H.



TYP. LOCATION LAYOUT TYP. CROSS SECTIONS

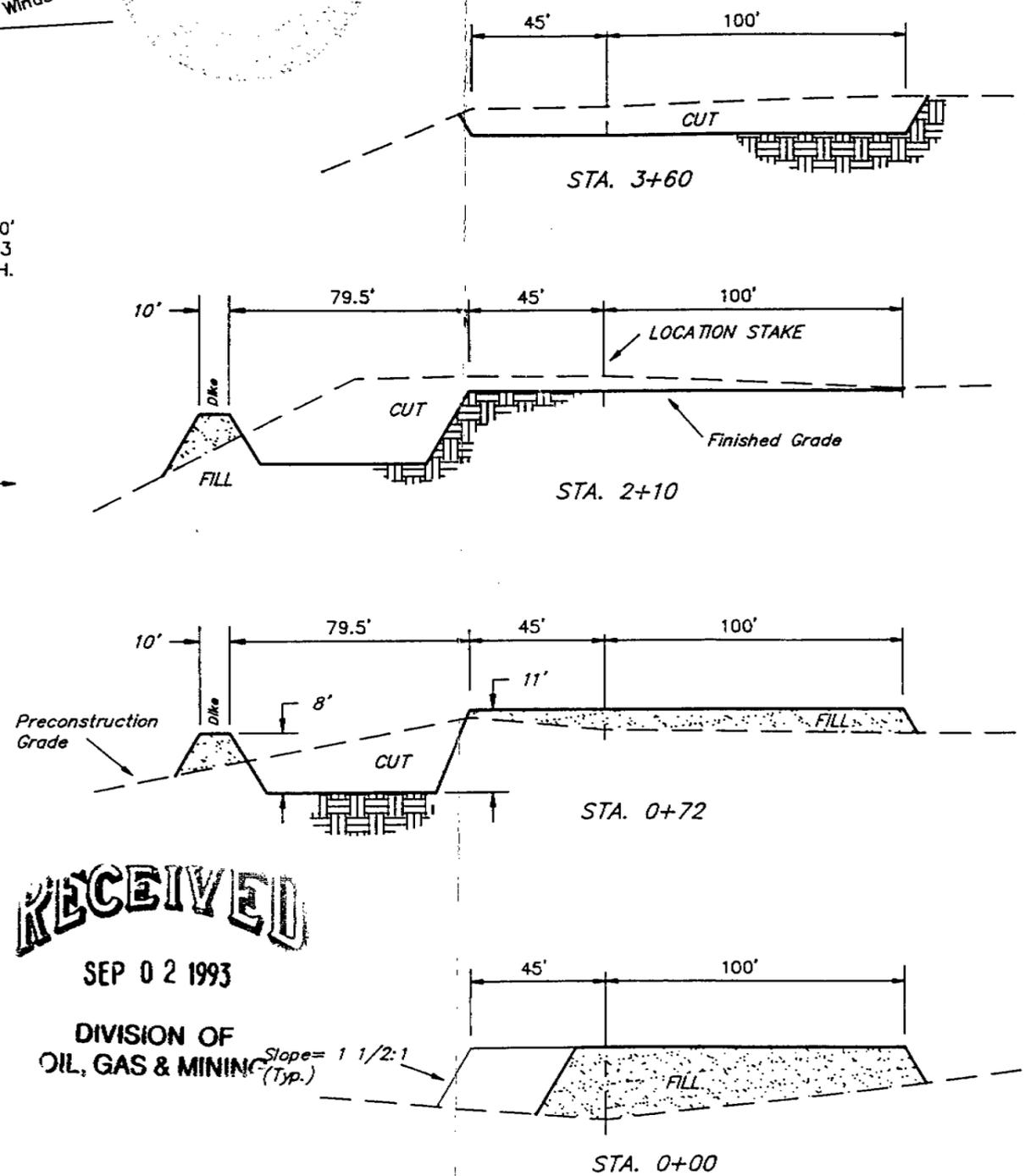
RECEIVED

SEP 02 1993

DIVISION OF OIL, GAS & MINING
 Slope = 1 1/2:1 (Typ.)

Elev. Ungraded Ground at Location Stake = 4696.8'
 Elev. Graded Ground at Location Stake = 4694.8'

UINTAH ENGINEERING & LAND SURVEYING
 85 So. 200 East Vernal, Utah



There are no federal stipulations at this time.

A Class III Archeological Survey has been conducted by Sagebrush Archeological Consultants. No significant cultural resources were found and clearance has been recommended. A copy of this report will be submitted to the appropriate agencies by Sagebrush Archeological Consultants.

A Wastewater Permit Application will be filed with the Uintah Basin District Health Department in Vernal once the drilling contractor has been determined.



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: 43 - 10370

TEMPORARY APPLICATION NUMBER: T66556

1. OWNERSHIP INFORMATION:

LAND OWNED? No

A. NAME: Jim Nebeker Trucking Co.
ADDRESS: Route 2 Box 2060, Roosevelt, UT 84066

B. PRIORITY DATE: October 27, 1992 **FILING DATE:** October 27, 1992

2. SOURCE INFORMATION:

A. QUANTITY OF WATER: 10.0 acre-feet

B. DIRECT SOURCE: Existing pond **COUNTY:** Duchesne

C. POINT OF DIVERSION -- SURFACE:
 (1) S 1320 feet W 1320 feet from NE corner, Section 32, T 6S, R 20E, SLBM
DIVERT WORKS: Pump into tank trucks
SOURCE: Existing pond

3. WATER USE INFORMATION:

OIL EXPLORATION: from Nov 1 to Oct 31. Drilling and completion of wells Fed 13-24B and 15-24B for P.G. & E.

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

BASE TOWN	RANG	SEC	NORTH-EAST				NORTH-WEST				SOUTH-WEST				SOUTH-EAST					
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE		
SL	9S	19E	24				■ ■ ■					■ ■ ■			X		■ ■ ■			X

5. EXPLANATORY:

The applicant has a letter of permission from William Brown (Water Right No. 43-9707) to access his property and haul water from his pond for the purpose of oil field use in the South Ouray oil and gas field.

RECEIVED

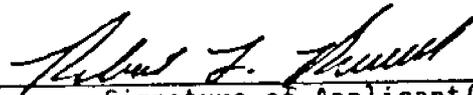
SEP 02 1993

DIVISION OF

Appropriate

5. 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).



Signature of Applicant(s)

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 09/02/93

API NO. ASSIGNED: 43-047-32446

WELL NAME: FEDERAL 9-23B
OPERATOR: PG & E RESOURCES COMPANY (NO. 9)

CONFIDENTIAL

PROPOSED LOCATION:
SWNW 24 - T09S - R19E
SURFACE: 2202-FNL-0514-FWL
BOTTOM: 1980-FSL-0660-FEL
UINTAH COUNTY
NATURAL BUTTES FIELD (630)

INSPECT LOCATION BY: / /		
TECH REVIEW	Initials	Date
Engineering	<i>JM</i>	
Geology		
Surface		

LEASE TYPE: FED
LEASE NUMBER: UTU-68625

RECEIVED AND/OR REVIEWED:

Y Plat
Y Bond *FEDERAL*
(Number *8063-38-07 + 8057-26-00*)
N Potash (Y/N)
Y Oil shale (Y/N)
Y Water permit
(Number *43-10370*)
N RDCC Review (Y/N)
(Date: _____)

LOCATION AND SITING: **CONFIDENTIAL**

_____ R649-2-3. Unit: _____ **PERIOD EXPIRES**
✓ R649-3-2. General. *ON 12-13-94*
_____ R649-3-3. Exception.
_____ Drilling Unit.
_____ Board Cause no: _____
_____ Date: _____

COMMENTS: *POSSIBLE OIL SHALE AREA FEDERAL APPROV*
9/24/93 SURFACE CASING INSPECTED 10/14/93

STIPULATIONS:

1. Submittal of a directional survey within 30 days following completion of drilling pursuant to Utah Admin. R. 649-3-11, Directional Drilling.
CC: Uintah County Assessor
Bureau of Land Management, Ternal

Lease - 68625

Covers all of 24 Sec
23 lots 9-13 & E 1/2 SE 1/4
1667.76 acres

Everything east of river.

APD RECEIVE

7-32446

WELL NAME:]
OPERATOR:]

AL

PROPOSED LOC
SWNW 24 -
SURFACE: 2:
BOTTOM: 1980-FSL-0660-FEL
UINTAH COUNTY
NATURAL BUTTES FIELD (630)

1 / 1
Date

Engineering	JM	
Geology		
Surface		

LEASE TYPE: FED
LEASE NUMBER: UTU-68625

RECEIVED AND/OR REVIEWED:

Plat
 Bond FEDERAL
 (Number 8063-38-01 + 8051-26-00)
 Potash (Y/N)
 Oil shale (Y/N)
 Water permit
 (Number 43-10370)
 RDCC Review (Y/N)
 (Date:)

LOCATION AND SITING: CONFIDENTIAL

PERIOD
EXPIRES
ON 10-13-94

R649-2-3. Unit:
 R649-3-2. General.
 R649-3-3. Exception.
 Drilling Unit.
 Board Cause no: _____
 Date: _____

COMMENTS: POSSIBLE OIL SHALE AREA FEDERAL APPROX
9/24/93 SURFACE CASING INSPECTED 10/14/93

STIPULATIONS:

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 CC: Uintah County Assessor
 Bureau of Land Management, Ternal



September 7, 1993

RECEIVED
SEP 09 1993

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

DIVISION OF
OIL, GAS & MINING

Attn: Mike Hebertson

Re: PG & E Resources Company
#9-23B Federal
2202' FNL and 514' FWL
Sec. 24, T9S - R19E (Surface)
1980' FSL and 660' FEL
Sec. 23, T9S - R19E (Btm. Hole)
Uintah County, Utah

Dear Mike,

As per our telephone conversation of this morning, enclosed please find the revised A.P.D. for the above mentioned well, showing the corrected bottom hole location.

If you should need anything further, please don't hesitate to contact me.

Sincerely,

PERMITCO INC.

A handwritten signature in cursive script, appearing to read "Lisa L. Smith".

Lisa L. Smith
Consultant for:
PG & E Resources Company

Enc.

cc: PG & E Resources - Dallas, TX
PG & E Resources - Vernal, UT

Permitco Incorporated
A Petroleum Permitting Company

13585 Jackson Drive Denver, Colorado 80241 (303) 452-8888

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

CONFIDENTIAL - TIGHT HOLE

5. Lease Designation and Serial No.
UTU-68625

6. If Indian, Allottee or Tribe Name

N/A

7. Unit Agreement Name

N/A

8. Farm or Lease Name

Federal

9. Well No.

#9-23B

10. Field and Pool, or Wildcat

Natural Buttes 630

11. Sec., T., R., M., OR Bk.

and Survey or Area

Sec. 24, T9S - R19E

12. County or Parish

Uintah

13. State

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 Directional

Single Zone

Multiple Zone

2. Name of Operator **214/750-3800**

PG & E Resources Company

6688 N. Central Expressway, Suite 1000

Dallas, TX 75206

3. Address of Operator **303/452-8888**

Permitco Inc. - Agent

13585 Jackson Drive

Denver, CO 80241

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

At surface

2202' FNL and 514' FWL Sec. 24, T9S - R19E

At proposed prod. zone

1980' FSL and 660' FEL Sec. 23, T9S - R19E

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

7 miles southwest of Ouray, UT

15. Distance from proposed* location to nearest property or lease line, ft.

(Also to nearest drlg. line, if any)

507'

16. No. of acres in lease

1667.76

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.

Approx. 2100'

19. Proposed depth

5400' TVD, 5728' MD

20. Rotary or cable tools

Rotary

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

4697' GR

22. Approx. date work will start*

Upon approval of this application

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12-1/4"	9-5/8"	36#	400'	170 sx or suffic to circ to surf.
7-7/8"	5-1/2"	14#	5400' TVD 5728' MD	500 cubic feet or suffic to cover zones of interest.

PG & E Resources Company proposes to drill a directional well to 5400' TVD, 5728' MD to test the Green River formation. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State and State of Utah requirements.

See Onshore Order No. 1 attached.

Bond coverage for this well is provided under Bond No. 8063-38-07 and 8057-26-00.

CONFIDENTIAL

SEP 09 1993

DIVISION OF
OIL, GAS & MINING

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

24. Signed [Signature]

(This space for Federal or State office use)

Consultant for:

Title **PG & E Resources Co.**

Date **08/31/93**

Permit No. 43-047-32446

Approval Date

Approved by

Conditions of approval, if any:

Title

APPROVED BY THE STAFF
OF UTAH DEPARTMENT OF
OIL, GAS AND MINING
DATE: 9-20-93
BY: [Signature]
WELL SPACING: 649-3-2

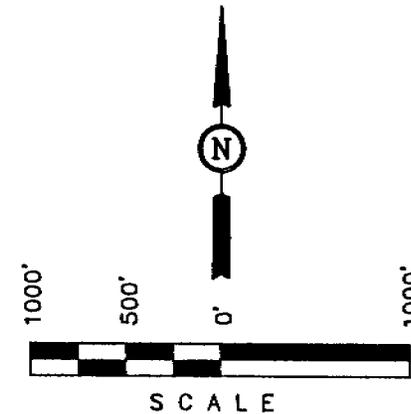
T9S, R19E, S.L.B.&M.

PG&E RESOURCES COMPANY

Well location, FEDERAL #9-23B, located as shown in the SW 1/4 NW 1/4 of Section 24, T9S, R19E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK 9EAM 1964 LOCATED IN THE SE 1/4 OF SECTION 13, T9S, R19E, S.L.B.&M. TAKEN FROM THE OURAY QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4658 FEET.

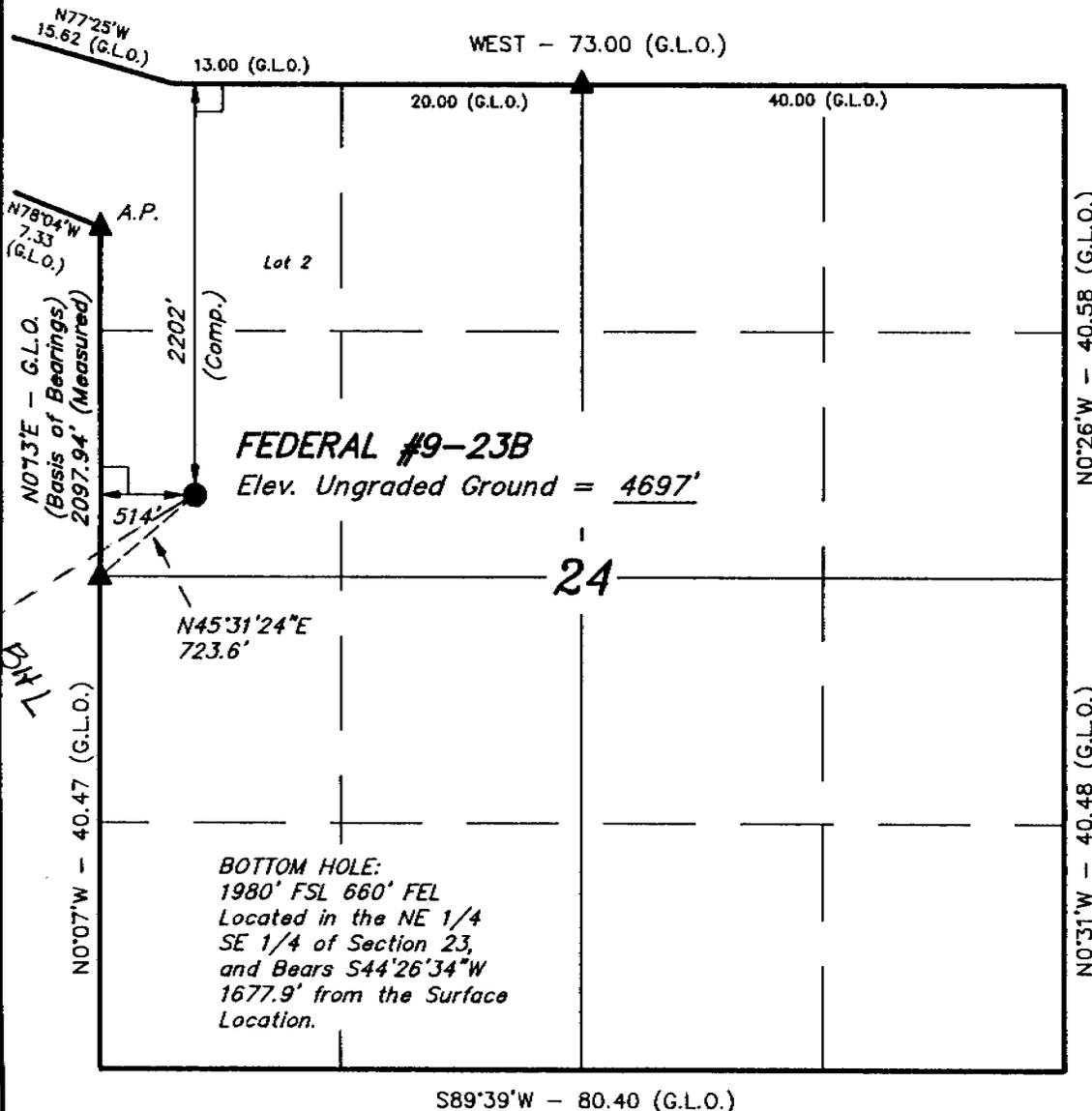


CERTIFICATE

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

UINTAH ENGINEERING & LAND SURVEYING
 85 SOUTH 200 EAST - VERNAL, UTAH 84078
 (801) 789-1017



LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED. (Brass Caps)

SCALE 1" = 1000'	DATE SURVEYED: 8-12-93	DATE DRAWN: 8-23-93
PARTY G.S. B.D. T.D.H.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE PG&E RESOURCES	

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

CONFIDENTIAL - TIGHT HOLE

5. Lease Designation and Serial No.
UTU-68625

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 **Directional** Single Zone Multiple Zone

2. Name of Operator **214/750-3800** **6688 N. Central Expressway, Suite 1000**

PG & E Resources Company **Dallas, TX 75206**

3. Address of Operator **303/452-8888** **13585 Jackson Drive**

Permitco Inc. - Agent **Denver, CO 80241**

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

2202' FNL and 514' FWL Sec. 24, T9S - R19E

At proposed prod. zone

1980' FSL and 660' FEL Sec. 23, T9S - R19E

6. If Indian, Allottee or Tribe Name

N/A

7. Unit Agreement Name

N/A

8. Farm or Lease Name

Federal

9. Well No.

#9-23B

10. Field and Pool, or Wildcat

Natural Buttes 630

11. Sec., T., R., M., OR Bk.

and Survey or Area

Sec. 24, T9S - R19E

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

7 miles southwest of Ouray, UT

12. County or Parish

Uintah

13. State

Utah

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

507'

16. No. of acres in lease

1667.76

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.

Approx. 2100'

19. Proposed depth

5400' TVD, 5728' MD

20. Rotary or cable tools

Rotary

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

4697' GR

22. Approx. date work will start*

Upon approval of this application

23. **PROPOSED CASING AND CEMENTING PROGRAM**

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12-1/4"	9-5/8"	36#	400'	170 sx or suffic to circ to surf.
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See Onshore Order No. 1 attached.

Bond coverage for this well is provided under Bond No. 8063-38-07 and 8057-26-00.

CONFIDENTIAL

SEP 09 1993

DIVISION OF
OIL, GAS & MINING

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

24. Signed *Dean L. Smeka*

Consultant for:
Title **PG & E Resources Co.** Date **08/31/93**

**APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING**

Permit No. 43-047-32446 Approval Date _____

Approved by _____ Title _____

Conditions of approval, if any: _____

DATE: _____
BY: _____
WELL SPACING: _____

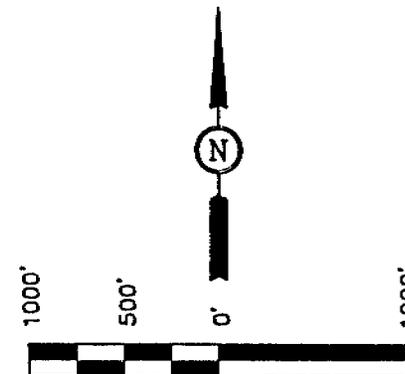
T9S, R19E, S.L.B.&M.

PG&E RESOURCES COMPANY

Well location, FEDERAL #9-23B, located as shown in the SW 1/4 NW 1/4 of Section 24, T9S, R19E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK 9EAM 1964 LOCATED IN THE SE 1/4 OF SECTION 13, T9S, R19E, S.L.B.&M. TAKEN FROM THE OURAY QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4658 FEET.



SCALE

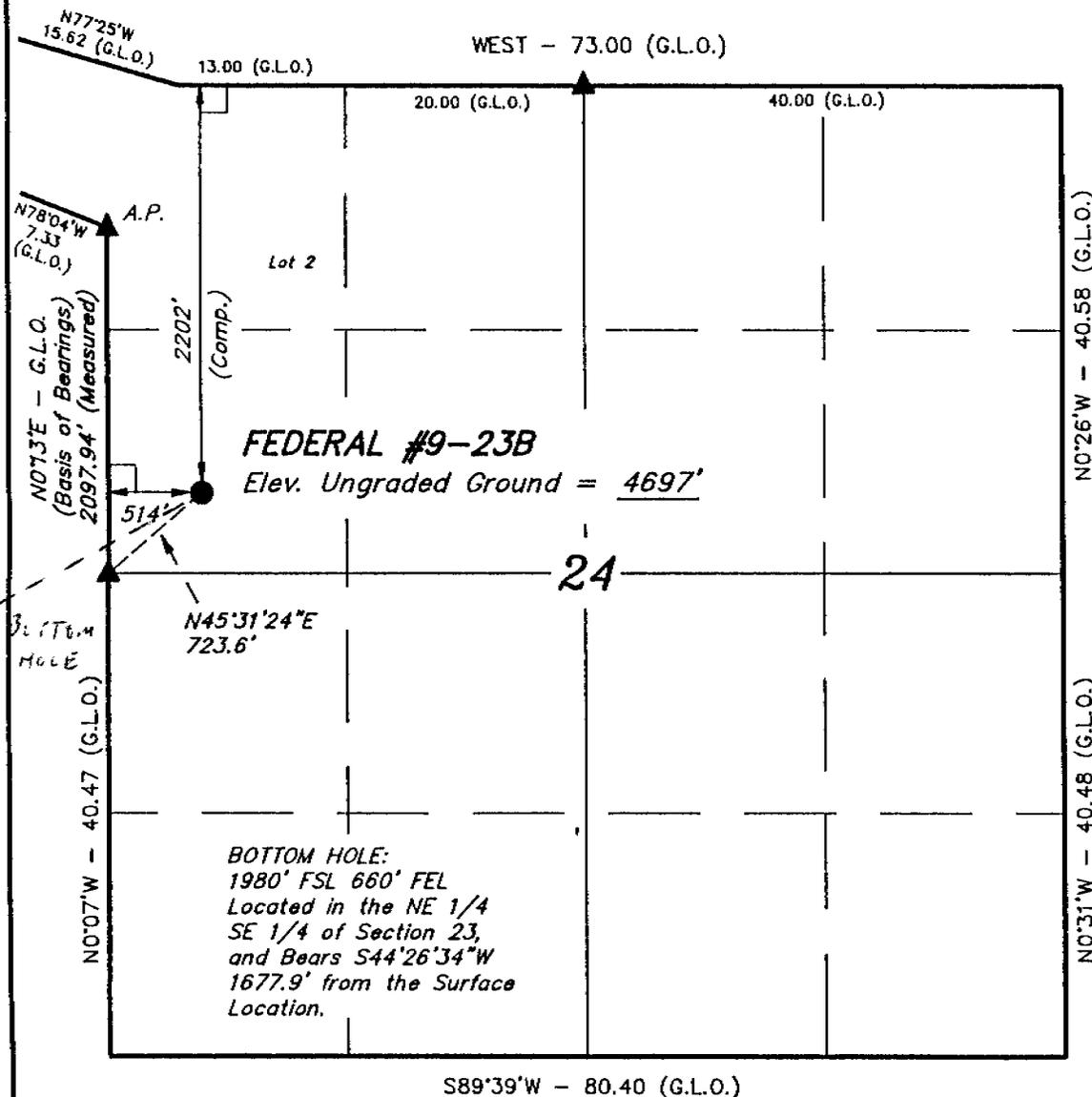
CERTIFICATE

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

UINTAH ENGINEERING & LAND SURVEYING
 85 SOUTH 200 EAST - VERNAL, UTAH 84078
 (801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 8-12-93	DATE DRAWN: 8-23-93
PARTY G.S. B.D. T.D.H.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE PG&E RESOURCES	



LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED. (Brass Caps)

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

CONFIDENTIAL - TIGHT HOLE

5. Lease Designation and Serial No.
UTU-68625

6. If Indian, Allottee or Tribe Name
N/A

7. Unit Agreement Name
N/A

8. Farm or Lease Name
Federal

9. Well No.
#9-23B

10. Field and Pool, or Wildcat
Natural Buttes 630

11. Sec., T., R., M., OR Bk.
and Survey or Area
Sec. 24, T9S - R19E

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 **Directional** Single Zone Multiple Zone

2. Name of Operator **214/750-3800 6688 N. Central Expressway, Suite 1000**
PG & E Resources Company Dallas, TX 75206
3. Address of Operator **303/452-8888 13585 Jackson Drive**
Permitco Inc. - Agent Denver, CO 80241

4. Location of Well (Report location clearly and in accordance with any State requirements. *)
At surface **2202' FNL and 514' FWL Sec. 24, T9S - R19E**
At proposed prod. zone **1980' FSL and 660' FEL Sec. 23, T9S - R19E**

14. Distance in miles and direction from nearest town or post office*
7 miles southwest of Ouray, UT

12. County or Parish **Uintah** 13. State **Utah**

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any) **507'**
16. No. of acres in lease **1667.76**
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. **Approx. 2100'**
19. Proposed depth **5400' TVD, 5728' MD**
20. Rotary or cable tools **Rotary**

21. Elevations (Show whether DF, RT, GR, etc.) **4697' GR**
22. Approx. date work will start*
Upon approval of this application

23. **PROPOSED CASING AND CEMENTING PROGRAM**

Size of Hole	Size of Casing	Weight per Foot	Casing Depth	Quantity of Cement
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See Onshore Order No. 1 attached.

Bond coverage for this well is provided under Bond No. 8063-38-07 and 8057-26-00.

CONFIDENTIAL

SEP 09 1993

DIVISION OF
OIL, GAS & MINING

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

24. Signed *[Signature]* Consultant for: PG & E Resources Co. Date 08/31/93

(This space for Federal or State office use)
Permit No. 43-047-32446 Approval Date APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING

Approved by _____ Title DATE: 9-20-93
Conditions of approval, if any: _____ BY: [Signature]
WELL SPACING: 649-3-2

LOCATION OF PG&E WELL 9-23B

R 19 E

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

T
9
S

PG&E 9-23B
O SURFACE LOCATION
2202 FNL 514 FWL
X
9-23B BOTTOM HOLE
LOCATION 1146' SOUTH
1208' WEST OF SURFACE
LOCATION.

UINTAH COUNTY

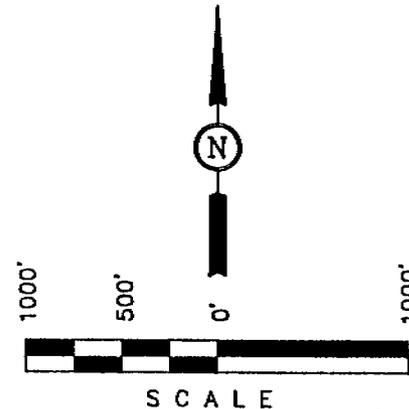
T9S, R19E, S.L.B.&M.

PG&E RESOURCES COMPANY

Well location, FEDERAL #9-23B, located as shown in the SW 1/4 NW 1/4 of Section 24, T9S, R19E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

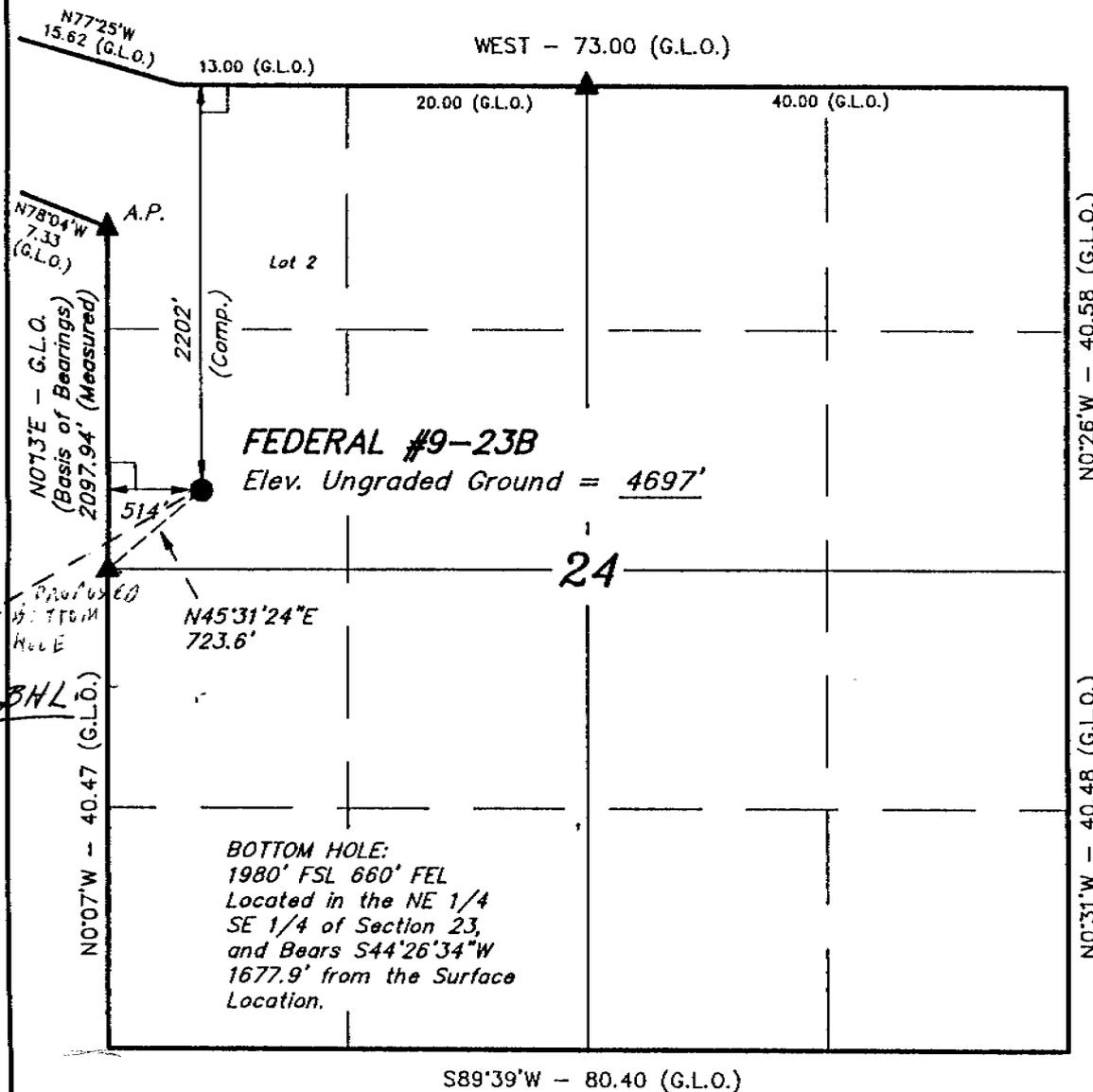
BENCH MARK 9EAM 1964 LOCATED IN THE SE 1/4 OF SECTION 13, T9S, R19E, S.L.B.&M. TAKEN FROM THE OURAY QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4658 FEET.



CERTIFICATE

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



LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED. (Brass Caps)

UINTAH ENGINEERING & LAND SURVEYING
 85 SOUTH 200 EAST - VERNAL, UTAH 84078
 (801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 8-12-93	DATE DRAWN: 8-23-93
PARTY G.S. B.D. T.D.H.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE PG&E RESOURCES	



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)

September 20, 1993

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

Re: Federal #9-23B Well, 2202' FNL, 514' FWL, SW NW, Sec. 24, T. 9 S., R. 19 E., Uintah County, Utah

Gentlemen:

Pursuant to Utah Admin. R. 649-3-2, Location and Siting of Wells and Utah Admin. R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to drill the referenced well is hereby granted.

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

1. Submittal of a directional survey within 30 days following completion of drilling pursuant to Utah Admin. R. 649-3-11, Directional Drilling.
2. Compliance with the requirements of Utah Admin. R. 649-1 et seq., Oil and Gas Conservation General Rules.
3. Notification within 24 hours after commencing drilling operations.
4. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
5. Submittal of the Report of Water Encountered During Drilling, Form 7.
6. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or R.J. Firth, Associate Director, (Home) (801)571-6068.

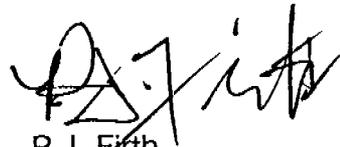
Page 2
PG & E Resources Company
Federal #9-23B Well
September 20, 1993

7. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

Trash and sanitary waste should be properly contained and transported to approved disposal locations, not retained in or disposed of in pits on location or downhole. Prior to the commencement of drilling operations, the operator should consult the local/county sanitarian and/or the Department of Environmental Quality, Division of Drinking Water/Sanitation, regarding appropriate disposal of sanitary waste.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-047-32446.

Sincerely,



R.J. Firth
Associate Director, Oil and Gas

ldc
Enclosures
cc: Uintah County Assessor
Bureau of Land Management, Vernal
WO11



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)

October 11, 1993

Mr. Jim LaFevers
PG & E Resources Company
6688 N. Central Expressway, Suite 1000
Dallas, Texas 75206

Re: Amended Approval Federal #9-23B Well, 2202' FNL, 514' FWL, SW NW, Sec. 24, T. 9 S., R. 19 E.; Location at Bottom Hole: 1980' FSL, 660' FEL, Sec. 23, T. 9 S., R. 19 E., Lease UTU-68625, Uintah County, Utah

Dear Mr. LaFevers:

Pursuant to Utah Admin. R. 649-3-2, Location and Siting of Wells and Utah Admin. R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to drill the referenced well is hereby granted.

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

1. Submittal of a certified plat for Section 23, T. 9 S., R. 19 E., depicting the proposed bottom hole location of the Federal #9-23B well.
2. Submittal of a directional survey within 30 days following completion of drilling is required pursuant to Utah Admin. R. 649-3-11, Directional Drilling.
3. Compliance with the requirements of Utah Admin. R. 649-1 et seq., Oil and Gas Conservation General Rules.
4. Notification within 24 hours after commencing drilling operations.
5. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
6. Submittal of the Report of Water Encountered During Drilling, Form 7.

Page 2
PG & E Resources Company
Federal #9-23B Well
October 11, 1993

7. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or R.J. Firth, Associate Director, (Home) (801)571-6068.
8. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

Trash and sanitary waste should be properly contained and transported to approved disposal locations, not retained in or disposed of in pits on location or downhole. Prior to the commencement of drilling operations, the operator should consult the local/county sanitarian and/or the Department of Environmental Quality, Division of Drinking Water/Sanitation, regarding appropriate disposal of sanitary waste.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-047-32446.

Sincerely,



For R.J. Firth
Associate Director, Oil and Gas

ldc
Enclosures
cc: Uintah County Assessor
Bureau of Land Management, Vernal
WO11

CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: PG & E RESOURCES

WELL NAME: FEDERAL 9-23B

API NO. 43-047-32446

Section 24 Township 9S Range 19E County UINTAH

Drilling Contractor _____

Rig # _____

SPUDDED: Date 10/13/93

Time 11:00 AM

How DRY HOLE

Drilling will commence: _____

Reported by GARY WHETSTINE

Telephone # _____

Date 10/13/93 SIGNED _____ FRM _____

OPERATOR PG&E Resources Company

OPERATOR ACCT. NO. N 0595

ADDRESS 6688 N. Central Expressway, Suite 1000

Dallas, TX 75206-3922

ENTITY ACTION FORM - FORM 6

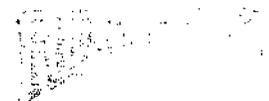
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11585	43-047-32447	Federal 5-24B	NW	24	9S	19E	Uintah	10/15/93	
WELL 1 COMMENTS: <i>Entities added 11-3-93. Jec</i>											
A	99999	11586	43-047-32446	Federal 9-23B	NW	24	9S	19E	Uintah	10/11/93	
WELL 2 COMMENTS: BHL SE 23 9S 19E											
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)



NOV 02 1993

DIVISION OF
OIL, GAS & MINING

Cindy D. Foster
Signature

Sr. Regulatory Analyst 10/29/93
Title Date

Phone No. (214) 750-3800

November 23, 1993

CONFIDENTIAL



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

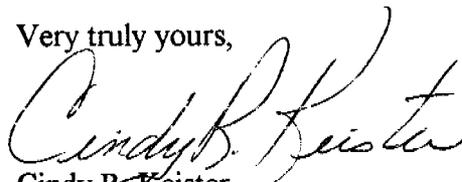
RE: Federal 9-23B
Section 24-T9S-R19E
Uintah County, Utah

Gentlemen:

Attached is an original and two (2) copies of Form 3160-5 "Sundry Notices and Reports on Wells," Subsequent Report and Form 3160-4 "Well Completion or Recompletion Report and Log" for the referenced well. The Federal 9-23B has been plugged and abandoned although the surface hole is being used to drill the Federal 5-24B.

If you have any questions or need further information, please contact the undersigned at 214/706-3640.

Very truly yours,


Cindy R. Keister
Sr. Regulatory Analyst

CRK/ck

Attachments

cc: Utah Division of Oil, Gas & Mining
Central File
Regulatory File

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.
UTU-68625

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NA

7. UNIT AGREEMENT NAME
NA

8. FARM OR LEASE NAME
Federal

9. WELL NO.
9-23B

10. FIELD AND POOL, OR WILDCAT
Natural Buttes 630

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Section 24, T9S-R19E

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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

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

2. NAME OF OPERATOR
PG&E Resources Company

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 **2202' FNL & 514' FWL SW/4 NW/4**

At top prod. interval reported below **NA**

At total depth **706' FNL & 1724' FWL NE/4 SW/4**

14. PERMIT NO. **43-047-32446** DATE ISSUED **09/24/93**

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

15. DATE SPUNDED **10/12/93** 16. DATE T.D. REACHED **11/12/93** 17. DATE COMPL. (Ready to prod.) **11-13-93 PA** 18. ELEVATIONS (OF, RKB, RT, GR, ETC.)* **4697' GL** 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD **5741' TMD** 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY **X** ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)* 25. WAS DIRECTIONAL SURVEY MADE **Yes**

26. TYPE ELECTRIC AND OTHER LOGS RUN **DIL/FDC/CNL DUL 11-16-93** 27. WAS WELL CORED **No**

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36#	405'	12-1/4"	250sx Class "G"	0

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number) 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 Cynthia Beate TITLE Sr. Regulatory Analyst DATE 11/23/1993

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

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

5. Lease Designation and Serial No.

UTU-68625

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

NA

8. Well Name and No.

Federal 9-23B

9. API Well No.

43-047-32446

10. Field and Pool, or Exploratory Area

Natural Buttes 630

11. County or Parish, State

Uintah County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other Dry Hole

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)

2202' FNL & 514' FWL
SW/4 NW/4 Sec. 24, T9S-R19E

12. **CHECK APPROPRIATE BOX(es) 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 Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection
- Dispose Water

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

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.)*

PG&E Resources Company has plugged the Federal 9-23B as shown on the attached daily report.

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

Signed *[Signature]* Title Sr. Regulatory Analyst Date 11/23/1993

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

WELL HISTORY

9-23B Federal
Riverbend Area
Uintah County, Utah
(PG&ER Operated)

- 10-15-93 RU Leon Ross, **spud well at 12:00 Noon 10-11.** Drilled to 420', ran 9-5/8" csg to 405' & cemented with 250 sx Class G mixed at 15.6 ppg, 11.18 yield. Rec'd 13 bbl cmt to surf, witnessed by Wayne Bankert with the BLM. Bumped plug with 100 psi. CC \$28,812. DROP FROM REPORT UNTIL RIG MOVES IN TO DRILL.
- 10-27-93 MIRU, raise derrick this morning. CC \$36,017.
- 10-28-93 Testing BOP's, day 1. Fin RU, start testing BOP's at 11:00pm 10-27. CC \$70,029.
- 10-29-93 Drilling 632', day 2, 212'/9.5 hrs, MW 8.4, Visc 27. Fin testing BOP's, hook-up flow line, PU BHA, tag cmt at 369'. Fill mud tanks, drill float equip & drill ahead. CC \$75,979.
- 10-30-93 Drilling 1191', day 3, 559'/11.5 hrs, MW 8.5, Visc 27. Change swivel packing, PU BHA, TIH & drill ahead. CC \$103,327.
- 10-31-93 Drilling 1868', day 4, 677'/19 hrs, MW 8.5, Visc 27. Drill & survey. Survey 8.6°, 1719', S25E. CC \$122,786.
- 11-01-93 Drilling 2329', day 5, 461'/19.5 hrs, MW 8.5, Visc 27. Drill (rotating & sliding) & survey. Survey 17°, 2176', S45E. CC \$136,186.
- 11-02-93 Drilling 2705', day 6, 376'/14 hrs, MW 8.5, Visc 27. Drill to 2545', POOH for new BHA, TIH, survey & drill to 2705'. Survey 18.7°, 2553', S42E. CC \$154,195.
- 11-03-93 Drilling 3000', day 7, 295'/12 hrs. Drill to 2982', TF mud, circ BU, survey & drill ahead. Survey 24°, 2922', S47W. CC \$170,166.
- 11-04-93 Drilling 3608', day 8, 608'/22.5 hrs, MW 8.8, Visc 27. Drill, circ out 3000 units gas at 3475' MD & survey. Survey 3477' MD, 3350' TVD, 30.5°, S50.3W. CC \$186,065.
- 11-05-93 Drilling 4240', day 9, 632'/22 hrs, MW 8.6, Visc 31, WL 22.4. Drill & survey. Survey 4163' MD, 3905' TVD, 29.9°, S46.7W. CC \$201,555.

WELL HISTORY

9-23B Federal
Riverbend Area
Uintah County, Utah
(PG&ER Operated)

- 11-06-93 Ream to btm, day 10, 142¹/₈ hrs, MW 8.9, Visc 32, WL 20.4. Drill to 4382', spot 160 bbl 10.0 ppg brine wtr, POOH to 2350', pump 20 bbl 10 ppg brine & POOH. Change out bit & mud motor & start in hole, set down at 3420', circ & W&R to btm. CC \$221,160.
- 11-07-93 Drilling 4743', day 11, 361¹/_{23.5} hrs, MW 9.3, Visc 37, WL 7.6. CC \$238,473.
- 11-08-93 Wiper trip, 4909', day 12, 166¹/₁₃ hrs, MW 9.2, Visc 34, WL 6.6. Drill to 4909', bit torqued up. POOH 20 stds, spot 80 bbl 10 ppg brine, FPOOH, LD motor & MWD. PU hole opener, start in hole, hit bridge at 1212'. Start working to btm. CC \$257,275.
- 11-09-93 Drilling 5020', day 13, 110¹/₆ hrs, MW 9.3, Visc 36, WL 9.4. Ream to 1555', spot 10 ppg brine, POOH, PU mud motor, TIH, wash 80' to btm & drill to 5020'. CC \$282,660.
- 11-10-93 Drilling 5410', day 14, 390¹/₂₃ hrs, MW 9.7, Visc 36, WL 9.4. CC \$299,695.
- 11-11-93 Drilling 5735', day 15, 325¹/_{15.5} hrs, MW 9.7, Visc 36, WL 9.2. Drill to 5582', pump slug, short trip, drill to 5735'. CC \$314,039.
- 11-12-93 TIH open ended 5741', day 16, 6¹/₅ hrs, MW 9.7, Visc 37, WL 10.2. Circ out, short trip, circ out, drop multi-shot. TOH to log, run DIL, FDC/CNL, LD DC. TIH open ended to P&A, called Ed Forsman at the BLM & F. Matthews with the Utah O&G for P&A. CC \$339,997.
- 11-13-93 P&A 5741', day 17. Set 112 sx Class G 5200-4900', pull to 4645', circ out & WOC. Tag plug 4180', set 196 sx Class G 2830-2305', pull 11 stds, circ out. Set 294 sx Class G 1035-400', witnessed by Jamie Sparger with the BLM. **RR at 12:00 Midnight 11-13.** CC \$375,206. FINAL REPORT - WELL P&A'd.

{Sent to Well File}

December 7, 1993

RECEIVED

DEC 09 1993

DIVISION OF
OIL, GAS & MINING

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

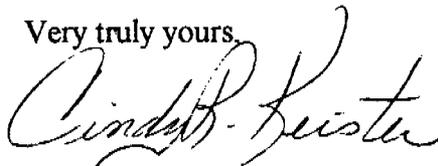
RE: Federal 9-23B
Section 24-T9S-R19E
Uintah County, Utah

Gentlemen:

Attached is an original and two (2) copies of amended Form 3160-4 "Well Completion or Recompletion Report and Log" for the referenced well. This amendment reflects the addition of log tops, corrected bottom hole location and total vertical depth. Also attached are three (3) copies of the directional survey and a computer disk containing the data from the survey.

If you have any questions or need further information, please contact the undersigned at 214/706-3640.

Very truly yours,



Cindy R. Keister
Sr. Regulatory Analyst

CRK/ck

Attachments

cc: Utah Division Oil, Gas & Mining
Regulatory File
Central Files

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

AMENDED
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.

UTU-68625

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT AGREEMENT NAME

NA

8. FARM OR LEASE NAME

Federal

9. WELL NO.

9-23B

10. FIELD AND POOL, OR WILDCAT

Natural Buttes 630

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

Section 24, T9S-R19E

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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

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

2. NAME OF OPERATOR
PG&E Resources Company

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 2202' FNL & 514' FWL SW/4 NW/4
At top prod. interval reported below NA
At total depth ~~704' FNL & 1722' FWL NE/4 SW/4~~

RECEIVED
DEC 09 1993

DIVISION OF
OIL, GAS & MINING

14. PERMIT NO. 43-047-32446 DATE ISSUED 09/24/93

12. COUNTY OR PARISH Uintah 13. STATE Utah

15. DATE SPUDDED 10/12/93 16. DATE T.D. REACHED 11/12/93 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DS, RKB, RT, GR, ETC.)* 4697' GL 19. ELEV. CASINGHEAD

5375'

20. TOTAL DEPTH, MD & TVD TVD 5742' TMD 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY ROTARY TOOLS X CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)* 25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN DIL/FDC/CNL 27. WAS WELL CORED No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36#	405'	12-1/4"	250sx Class "G"	0

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number) 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 Cindy B. Heister TITLE Sr. Regulatory Analyst DATE 12/03/1993

*(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		1,040'
				Basal Limestone (Green River		5,532
				Wasatch		5,690'

Survey Report

Date: 11/29/93
 Time: 1:59 pm
 Wellpath ID: SURVEY
 Date Surveyed: 11/2/93
 Last Revision: 11/29/93

Calculated using the Minimum Curvature Method
 Computed by the HDS Win-CADDS
 Vertical Section Plane: S 46.92° W

RECEIVED

DEC 09 1993

Survey Reference: WELLHEAD
 Vertical Section Reference: WELLHEAD
 Closure Reference: WELLHEAD
 TVD Reference: WELLHEAD

P.G. & E. RESOURCES
 FEDERAL #9-23B
 SEC 23-T09S-R19E
 Uintah County, Utah

DIVISION OF
 OIL, GAS & MINING

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	Closure Dist. (ft)	Dir. (deg)	TOTAL Rectangular Offsets (ft)	Build Rate (dg/100ft)	Walk Rate (dg/100ft)	DLS (dg/100ft)
0.00	0.00	N 0.00 E	0.00	0.00	0.00	0.00@	N 0.00 E	0.00 N 0.00 E	0.00	0.00	0.00
KOP - BHA #1 - STEERABLE ASSEMBLY											
632.00	2.09	S 51.70 E	632.00	631.86	-1.73	11.53@	S 51.70 E	7.14 S 9.04 E	0.33	0.00	0.33
696.00	2.30	S 51.70 E	64.00	695.81	-2.09	13.98@	S 51.70 E	8.66 S 10.97 E	0.33	0.00	0.33
787.00	3.80	S 38.70 E	91.00	786.68	-2.14	18.75@	S 49.63 E	12.15 S 14.29 E	1.65	14.29	1.80
882.00	5.50	S 21.10 E	95.00	881.37	-0.19	25.99@	S 43.51 E	18.85 S 17.89 E	1.79	18.53	2.32
976.00	6.50	S 3.20 W	94.00	974.87	5.34	34.27@	S 34.12 E	28.37 S 19.22 E	1.06	25.85	2.88
1070.00	6.90	S 25.00 W	94.00	1068.24	14.42	42.18@	S 23.08 E	38.80 S 16.54 E	0.43	23.19	2.72
1162.00	5.90	S 45.70 W	92.00	1159.68	24.28	48.34@	S 12.93 E	47.11 S 10.82 E	-1.09	22.50	2.71
1255.00	3.40	S 44.30 W	93.00	1252.37	31.81	52.71@	S 5.95 E	52.43 S 5.47 E	-2.69	-1.51	2.69
1346.00	3.90	S 4.90 W	91.00	1343.20	36.81	57.54@	S 3.31 E	57.44 S 3.32 E	0.55	-43.30	2.75
1439.00	5.60	S 1.80 E	93.00	1435.87	42.15	65.21@	S 2.80 E	65.13 S 3.19 E	1.83	-7.20	1.92
1533.00	6.50	S 11.60 W	94.00	1529.35	49.52	74.96@	S 1.73 E	74.93 S 2.27 E	0.96	14.26	1.78
1627.00	7.20	S 22.80 W	94.00	1622.69	59.24	85.58@	S 0.73 W	85.57 S 1.09W	0.74	11.91	1.60
1719.00	8.60	S 25.30 W	92.00	1713.81	70.90	97.30@	S 3.69 W	97.10 S 6.26W	1.52	2.72	1.57
1808.00	10.60	S 29.50 W	89.00	1801.56	84.89	111.02@	S 6.80 W	110.24 S 13.14W	2.25	4.72	2.38
1900.00	12.30	S 34.80 W	92.00	1891.73	102.55	127.73@	S 10.33 W	125.66 S 22.90W	1.85	5.76	2.17
1994.00	14.90	S 38.30 W	94.00	1983.09	124.29	147.84@	S 14.14 W	143.37 S 36.10W	2.77	3.72	2.90
2084.00	15.70	S 43.20 W	90.00	2069.90	147.89	169.38@	S 17.74 W	161.33 S 51.61W	0.89	5.44	1.69
2176.00	17.00	S 45.70 W	92.00	2158.18	173.76	192.85@	S 21.21 W	179.79 S 69.76W	1.41	2.72	1.61
2269.00	19.00	S 47.50 W	93.00	2246.62	202.49	219.15@	S 24.44 W	199.52 S 90.65W	2.15	1.94	2.23
2362.00	19.20	S 47.50 W	93.00	2334.50	232.92	247.43@	S 27.20 W	220.08 S 113.09W	0.22	0.00	0.22
2454.00	18.30	S 46.00 W	92.00	2421.62	262.49	275.47@	S 29.26 W	240.33 S 134.63W	-0.98	-1.63	1.11
BHA #2 - STEERABLE ASSEMBLY											
2545.00	18.66	S 42.50 W	91.00	2507.93	291.39	303.42@	S 30.66 W	260.99 S 154.75W	0.40	-3.85	1.28
2553.00	18.70	S 42.20 W	8.00	2515.51	293.84	305.93@	S 30.76 W	262.88 S 156.47W	0.50	-3.75	1.30
2645.00	18.70	S 47.50 W	92.00	2602.66	323.29	334.58@	S 31.99 W	283.77 S 177.25W	0.00	5.76	1.85
2738.00	20.30	S 49.90 W	93.00	2690.32	354.31	364.41@	S 33.40 W	304.24 S 200.59W	1.72	2.58	1.92
2830.00	21.90	S 51.70 W	92.00	2776.15	387.35	396.13@	S 34.83 W	325.15 S 226.26W	1.74	1.96	1.88
2922.00	24.00	S 47.80 W	92.00	2860.87	423.16	430.89@	S 36.05 W	348.36 S 253.59W	2.28	-4.24	2.82
2982.00	24.70	S 47.00 W	60.00	2915.53	447.90	455.17@	S 36.67 W	365.11 S 271.80W	1.17	-1.33	1.29
3013.00	25.10	S 47.40 W	31.00	2943.65	460.95	468.01@	S 36.96 W	373.97 S 281.38W	1.29	1.29	1.40
3103.00	27.10	S 46.70 W	90.00	3024.47	500.54	507.03@	S 37.74 W	400.96 S 310.35W	2.22	-0.78	2.25
3196.00	29.60	S 48.20 W	93.00	3106.31	544.69	550.60@	S 38.52 W	430.80 S 342.85W	2.69	1.61	2.79
3290.00	29.70	S 48.90 W	94.00	3188.00	591.18	596.45@	S 39.30 W	461.58 S 377.75W	0.11	0.74	0.38
3384.00	28.70	S 48.50 W	94.00	3270.06	637.01	641.73@	S 39.97 W	491.84 S 412.20W	-1.06	-0.43	1.08
3477.00	30.50	S 50.30 W	93.00	3350.92	682.90	687.08@	S 40.59 W	521.72 S 447.09W	1.94	1.94	2.16
3572.00	32.50	S 51.70 W	95.00	3431.92	732.40	735.95@	S 41.29 W	552.94 S 485.67W	2.11	1.47	2.24
3666.00	33.80	S 51.70 W	94.00	3510.62	783.63	786.56@	S 41.97 W	584.80 S 526.01W	1.38	0.00	1.38
3758.00	32.90	S 48.20 W	92.00	3587.47	834.11	836.65@	S 42.45 W	617.32 S 564.72W	-0.98	-3.80	2.31
3852.00	32.20	S 46.40 W	94.00	3666.71	884.68	887.05@	S 42.73 W	651.60 S 601.89W	-0.74	-1.91	1.27

Halliburton Drilling Systems

Survey Report

Page 2
Date: 11/29/93
Wellpath ID: SURVEY

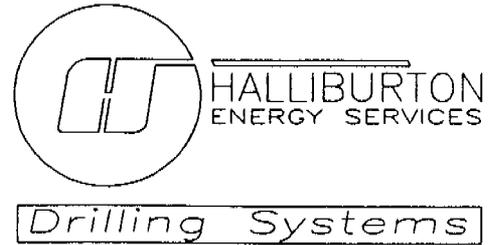
Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	Closure Dist. (ft)	Dir. (deg.)	TOTAL		Build Rate (dg/100ft)	Walk Rate (dg/100ft)	DLS (dg/100ft)
								Rectangular (ft)	Offsets (ft)			
3946.00	31.30	S 43.20 W	94.00	3746.65	934.09	936.47@	S 42.84 W	686.68 S	636.75W	-0.96	-3.40	2.03
4038.00	30.80	S 44.60 W	92.00	3825.47	981.48	983.91@	S 42.89 W	720.87 S	669.65W	-0.54	1.52	0.95
4131.00	29.90	S 46.70 W	93.00	3905.72	1028.45	1030.84@	S 43.02 W	753.72 S	703.23W	-0.97	2.26	1.50
4225.00	29.60	S 47.10 W	94.00	3987.33	1075.09	1077.38@	S 43.18 W	785.59 S	737.29W	-0.32	0.43	0.38
4317.00	28.10	S 46.80 W	92.00	4067.91	1119.48	1121.68@	S 43.33 W	815.89 S	769.73W	-1.63	-0.33	1.64
BIIA #3 - STEERABLE ASSEMBLY												
4382.00	27.25	S 49.22 W	65.00	4125.48	1149.66	1151.77@	S 43.45 W	836.09 S	792.16W	-1.31	3.72	2.17
4410.00	26.90	S 50.30 W	28.00	4150.41	1162.39	1164.44@	S 43.52 W	844.33 S	801.89W	-1.25	3.86	2.16
4504.00	28.70	S 55.50 W	94.00	4233.57	1205.95	1207.66@	S 43.86 W	870.70 S	836.86W	1.91	5.53	3.21
4598.00	29.00	S 59.10 W	94.00	4315.91	1250.54	1251.80@	S 44.35 W	895.19 S	875.01W	0.32	3.83	1.88
4691.00	28.90	S 60.50 W	93.00	4397.29	1294.42	1295.25@	S 44.88 W	917.83 S	913.97W	-0.11	1.51	0.74
4785.00	29.10	S 61.50 W	94.00	4479.50	1338.62	1339.08@	S 45.42 W	939.92 S	953.77W	0.21	1.06	0.56
4846.00	28.30	S 60.80 W	61.00	4533.01	1367.02	1367.30@	S 45.75 W	954.06 S	979.43W	-1.31	-1.15	1.42
BIIA #4 - REAMING ASSY. BIIA #5 - STEERABLE ASSY.												
4909.00	26.70	S 60.20 W	63.00	4588.89	1395.29	1395.45@	S 46.06 W	968.38 S	1004.75W	-2.54	-0.95	2.58
5016.00	24.00	S 59.00 W	107.00	4685.58	1439.97	1440.02@	S 46.48 W	991.54 S	1044.27W	-2.52	-1.12	2.57
5202.00	18.50	S 53.00 W	186.00	4858.88	1506.37	1506.37@	S 46.92 W	1028.81 S	1100.31W	-2.96	-3.23	3.18
5386.00	17.50	S 46.00 W	184.00	5033.90	1563.06	1563.07@	S 47.02 W	1065.60 S	1143.53W	-0.54	-3.80	1.29
THE FOLLOWING SURVEY IS PROJECTED TO TOTAL DEPTH												
5742.00	16.37	S 30.62 W	356.00	5374.63	1664.79	1664.83@	S 46.50 W	1146.00 S	1207.62W	-0.32	-4.32	1.29

RECEIVED

DEC 09 1993

DIVISION OF
OIL, GAS & MINING

P.G. & E. RESOURCES
 FEDERAL #9-23B
 SEC 23-T09S-R19
 UINTAH CO., UTAH



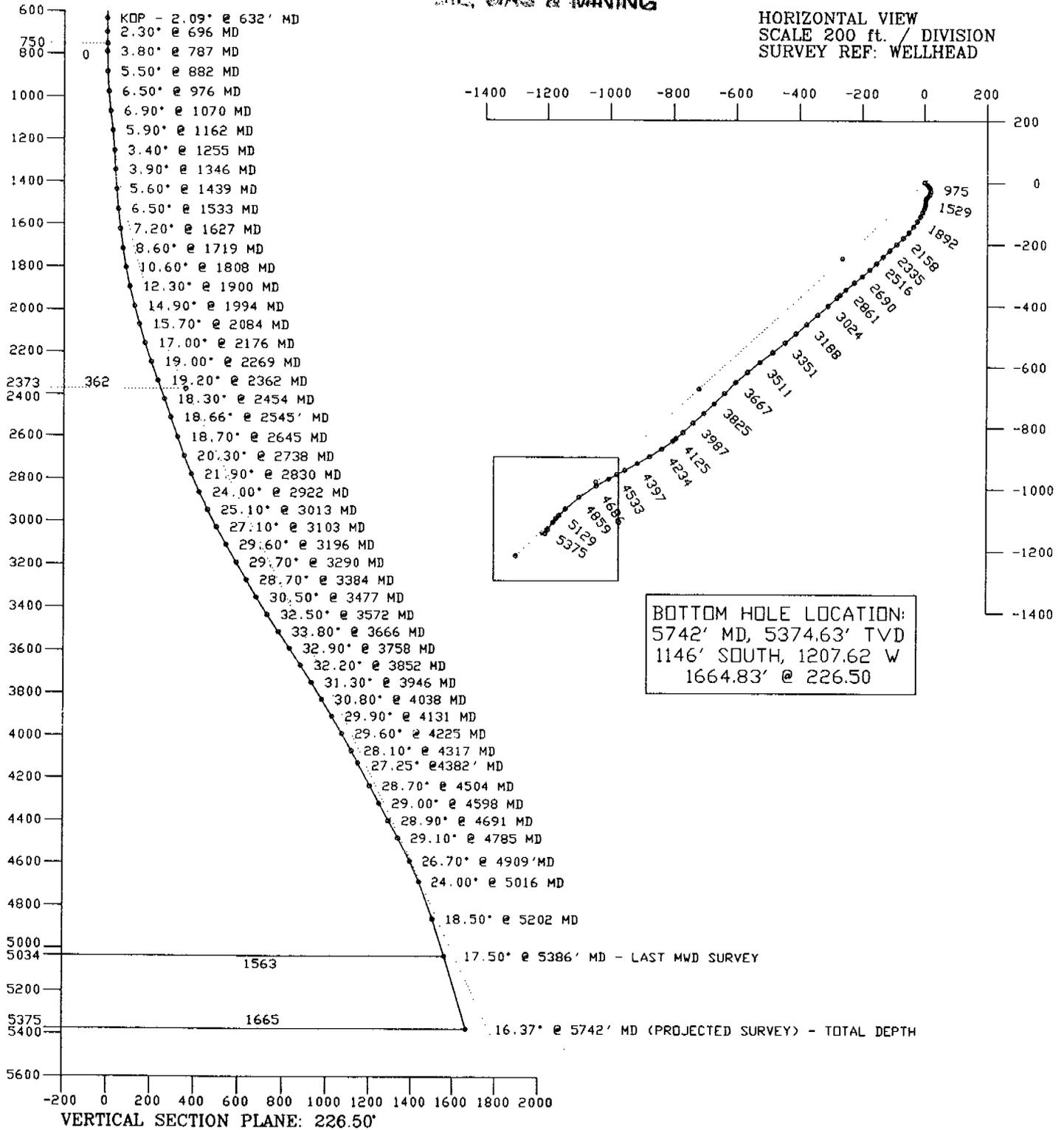
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DEC 09 1993

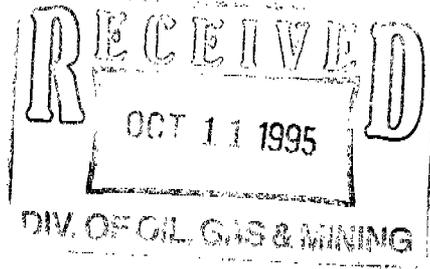
VERTICAL VIEW
 SCALE 200 ft. / DIVISION
 TVD REF: WELLHEAD
 VERTICAL SECTION REF: WELLHEAD

DIVISION OF
 OIL, GAS & MINING

HORIZONTAL VIEW
 SCALE 200 ft. / DIVISION
 SURVEY REF: WELLHEAD



DALEN Resources
Oil & Gas Co.



October 9, 1995

State of Utah Dept. of Natural Resources
Division of Oil, Gas & Mining
355 West Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84186

Attention: Mr. Frank Matthews

RE: Federal 9-23B
Section 23, T9S, R19E
Uintah County, Utah

Dear Mr. Matthews:

Attached is a copy of amended BLM Form 3160-4 for the referenced well. This completion reflects the correct bottom hole location per your request.

If you have any questions or need further information, please contact the undersigned at (214) 692-4537.

Very truly yours,

Cindy R. Keister
Regulatory Compliance Specialist

CRK/ck

Attachment

cc: BLM - Vernal
Regulatory File
Central Files

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

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

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

5. LEASE DESIGNATION AND SERIAL NO.

UTU-68625

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT AGREEMENT NAME

NA

8. FARM OR LEASE NAME

Federal

9. WELL NO.

9-23B

10. FIELD AND POOL, OR WILDCAT

Natural Buttes 630

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

Section 24, T9S-R19E

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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

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

2. NAME OF OPERATOR
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 2202' FNL & 514' FWL SW/4 Section 24
At top prod. interval reported below NA
At total depth 1965' FSL & 693' FEL SW/4 Section 23

14. PERMIT NO. 43-047-32446 DATE ISSUED 09/24/93

12. COUNTY OR PARISH Uintah 13. STATE Utah

15. DATE SPUDDED 10/12/93 16. DATE T.D. REACHED 11/12/93 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 4697' GL 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 3375' TVD 5742' TMD 21. PLUG, BACK T.D., MD & TVD 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 Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN DIL/FDC/CNL 27. WAS WELL CORED No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36#	405'	12-1/4"	250sx Class "G"	0

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number) 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) P&A

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	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 [Signature] TITLE Regulatory Compliance Specialist DATE 10/09/1995

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

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

37. SUMMARY OF POREOUS 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		1,040'
				Basal Limestone (Green River)		5,532'
				Wasatch		5,690'



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8

**1595 Wynkoop Street
DENVER, CO 80202-1129**

Phone 800-227-8917

<http://www.epa.gov/region08>

NOV 19 2009

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Eric Sundberg
Regulatory Analyst
Newfield Production Company
1001 Seventeenth Street – Suite 2000
Denver, CO 80202

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

RE: Additional Well: Sand Wash Area Permit
UIC Permit No. UT20847-00000
Well ID: UT20847-08590
Sand Wash Federal No. 12-31-8-17
NW SW Sec. 31 T8S-R17E
Duchesne County, Utah
API #43-047-32446

Dear Mr. Sundberg:

Newfield Production Company's (Newfield) request to convert the former Green River Formation oil well Sand Wash Federal No. 12-31-8-17 to an enhanced recovery injection well under the Sand Wash Area Permit is hereby authorized by the Environmental Protection Agency (EPA) under the terms and conditions of the Authorization for Additional Well.

The addition of the proposed injection well, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of 40 CFR §144.33 (c) and terms of Sand Wash Area Permit No. UT20847-00000 and subsequent modifications.

Please be aware that Newfield does not have authorization to begin injection operations into the well until all Prior to Commencing Injection requirements have been submitted and evaluated by EPA, and has received written authorization from the Director to begin injection. Please note that the Permit limits injection to the gross interval within the Green River Formation between the depths of 3,874 feet and the top of Wasatch Formation, estimated at 6,285 feet.

RECEIVED

DEC 03 2009

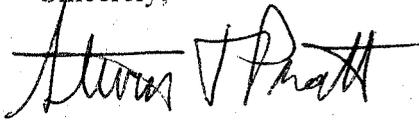
DIV. OF OIL, GAS & MINING

Prior to receiving authorization to inject into Sand Wash Federal No. 12-31-8-17, EPA requires Newfield submit for review and approval the results of a Part 1 (Internal) mechanical integrity test (MIT), a pore pressure calculation of the injection interval and an EPA Form No. 7520-12 (Well Rework Record) with a new schematic diagram. Once these requirements have been approved by EPA, the Director will provide written authorization to commence injection.

The initial Maximum Allowable Injection Pressure (MAIP) for Sand Wash Federal No. 12-31-8-17 was determined to be 925 psig. UIC Area Permit UT20847-00000 also provides the opportunity for the Permittee to request a change in the MAIP based upon results of a Step Rate Test that demonstrates that the formation breakdown pressure will not be exceeded.

If you have any questions, please call Emmett Schmitz at (303) 312-6174 or 1-(800)-227-8917 (Ext. 312-6174). Please submit the required data to Attention: Emmett Schmitz at the letterhead address, citing MAIL CODE: 8P-W-GW very prominently.

Sincerely,


for

Stephen S. Tuber
Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

Encl: Authorization for Conversion of An Additional Well
EPA Form No. 7520-12 (Well Rework Record)
Proposed Conversion Schematic: Sand Wash Federal No. 12-31-8-17
Proposed P&A Schematic: Sand Wash Federal No. 12-31-8-17
EPA Form No. 7520-13 (Plugging Record)
Newfield Production Company: Corrective Action Procedure of July 10, 1998

cc: Permit Letter:
Uintah & Ouray Business Committee:
Curtis Cesspooch, Chairman
Irene Cuch, Vice-Chairwoman
Ronald Groves, Councilman
Steven Cesspooch, Councilman
Phillip Chimburas, Councilman
Frances Poowegup, Councilwoman

Daniel Picard, Superintendent
Uintah & Ouray Indian Agency
Bureau of Indian Affairs

All Enclosures:

Ferron Secakuku
Director, Natural Resources
Ute Indian Tribe

Larry Love
Director of Energy & Minerals Dept.
Ute Indian Tribe

Gil Hunt
Associate Director
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office
BLM - Vernal Office

Michael Guinn
District Manager
Newfield Production Company
Myton, Utah



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8

1595 WYNKOOP STREET

DENVER, CO 80202-1129

Phone 800-227-8917

<http://www.epa.gov/region08>

AUTHORIZATION FOR ADDITIONAL WELL

UIC Area Permit No: UT20847-00000

The Sand Wash Final UIC Area Permit No. UT20847-00000, effective May 26, 1998 authorizes Class II authorized fluid injection for the purpose of enhanced oil recovery in the Greater Monument Butte Field. On October 12, 2009, Newfield Production Company (Newfield) notified the Director concerning the following additional enhanced recovery injection well:

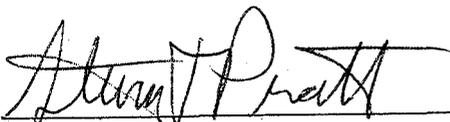
Sand Wash Federal No. 12-31-8-17
EPA Well ID Number: UT20847-08590
NW SW (2,236' FSL & 654' FWL) Section 31 – T8S – R17E
Duchesne County, Utah
API No. 43-013-32446

Pursuant to 40 CFR §144.33, Area UIC Permit No. UT20847-00000 authorizes the Permittee to construct and/or convert, or plug and abandon additional enhanced recovery injection wells within the Area Permit. This well was determined to satisfy additional well criteria required by the Permit.

This well is subject to all provisions of UIC Area Permit No. UT20847-00000, as modified and as specified in the Injection Well-Specific Requirements detailed below. This Authorization shall expire one year after the Effective Date unless the Permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

Date: NOV 19 2009


for **Stephen S. Tuber**
* Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

** The person holding this title is referred to as the Director throughout the permit and Authorization*

INJECTION WELL-SPECIFIC REQUIREMENTS

Well Name: Sand Wash Federal No. 12-31-8-17

EPA Well ID Number: UT20847-08590

Prior to Commencing Injection Operations, the Permittee shall submit the following information for Sand Wash Federal No.12-31-8-17:

1. Completed Well Rework Record (EPA Form No. 7520-12) and schematic diagram.
2. Pore pressure calculation of the proposed injection zone.
3. A successful Part I (internal) Mechanical Integrity test (MIT).

Once these records are received and approved by EPA, the Director will provide written authorization to inject.

Approved Injection Zone: Injection is approved between the top of the Garden Gulch Member of the Green River Formation (3,874 feet) to the top of the Wasatch Formation, at an estimated depth of 6,285 feet (KB).

Maximum Allowable Injection Pressure (MAIP): The initial MAIP is 925 psig, based on the following calculation:

$$\begin{aligned} \text{MAIP} &= [\text{FG} - (0.433)(\text{SG})] * \text{D}, \text{ where} \\ \text{FG} &= 0.650 \text{ psi/ft.} \quad \text{SG} = 1.015 \quad \text{D} = 4,393 \text{ feet (top perforation depth KB)} \\ \text{MAIP} &= 925 \text{ psig} \end{aligned}$$

UIC Area Permit No. UT20847-00000 provides the opportunity for the Permittee to request a change of the MAIP based upon the submitted results of a Step-Rate Test that demonstrates the formation breakdown pressure will not be exceeded.

Well Construction: Casing and Cementing: The well was constructed in compliance with existing regulatory controls for casing and cementing pursuant to 40 CFR § 146.22(c). Cement records, including Cement Bond Log, have satisfactorily demonstrated the presence of adequate Confining Zone annulus cement to prevent migration of injection fluids behind the casing from the injection zone.

Well Construction: Tubing and Packer: 2-7/8 inch or similar size injection tubing is approved; the packer shall be set at a depth no more than 100 feet above the top perforation.

Demonstration of Mechanical Integrity: A successful demonstration of Part I (Internal) Mechanical Integrity using a Casing-Tubing Annulus Pressure Test is required prior to injection, and no less than once every five years after the last successful test.

Demonstration of Financial Responsibility: The Applicant has demonstrated financial responsibility by a Financial Statement in the amount of \$59,344 that has been approved by the EPA. The Director may revise the amount required, and may require the Permittee to obtain and provide updated estimates of costs for plugging the well according to the approved Plugging and Abandonment plan.

Plugging and Abandonment: The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluids into or between USDWs. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs; however, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. A minimum 50-foot surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or Operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

PLUG NO. 1: Set a cast iron bridge plug (CIBP) no more than 50 feet above the top perforation with a minimum of 20 feet of cement plug on top of the CIBP.

PLUG NO. 2: Perforate and squeeze cement up the backside of the 5-1/2 inch casing across the Trona Zone and the Mahogany Bench from approximately 3,000 feet – 3,185 feet (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 185-foot balanced cement plug inside the 5-1/2 inch casing from approximately 3,000 feet – 3,185 feet (KB).

PLUG NO. 3: Perforate and squeeze cement up the backside of the 5-1/2 inch casing across the contact between the Uinta Formation and Green River Formation 1,575 feet – 1,695 feet (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 120-foot cement plug inside the 5-1/2 inch casing from approximately 1,575 feet – 1,695 feet (KB).

PLUG NO. 4: Set a Class "G" cement plug within the 5-1/2 inch casing to 365 feet and up the 5-1/2 inch X 8-5/8 inch casing annulus to the surface.

INJECTION WELL-SPECIFIC CONSIDERATIONS

Well Name: Sand Wash Federal No. 12-31-8-17

EPA Well ID Number: UT20847-08590

Underground Sources of Drinking Water (USDWs): USDWs in the Boundary Area Permit generally occur within the Uinta Formation. According to "*Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92,*" the base of moderately saline ground water may be found at approximately 100 feet below ground surface in Sand Wash Federal No. 12-31-8-17.

http:NRWRT1.NR.STATE.UT.US: There are no reservoirs, streams, domestic or agricultural water wells within a quarter (1/4) mile of the well.

Composition of Source, Formation, and Injectate Water: (Total Dissolved Solids [TDS]:
TDS of the produced Garden Gulch and Douglas Creek Members water: 7,797 mg/l.

The blended **injectate** (3,186 mg/l) is produced Green River Formation water, water from the Johnson Water District pipeline and/or water from the Green River pipeline, and produced water from Green River Formation wells proximate to the Sand Wash Federal No. 12-31-8-17.

Aquifer Exemption: The total dissolved solids of water produced from the proposed injection zone is less than 10,000 mg/l. EPA has evaluated additional data and information and has concluded that the original Green River Formation water was saline prior to enhanced oil recovery water flooding. The weight of evidence supports the conclusion that the occasional water sample from this area showing less than 10,000 mg/l total dissolved solids (TDS) is not representative of original Green River Formation water, and is attributed to injection of relatively fresh water during enhanced oil recovery operations. This freshening effect from water flood operations is considered by EPA to be a temporary, artificial condition. An aquifer exemption is not required for this proposed injection well.

Confining Zone: The Confining Zone, which directly overlies the Garden Gulch Member of the Green River Formation, contains 186 feet of shale and impervious carbonate between the depths of 3,688 feet and 3,874 feet (KB).

Injection Zone: The Injection Zone at this well location is approximately 2,411 feet of multiple lenticular sand units interbedded with shale, marlstone and limestone from the top of the Garden Gulch Member at 3,874 feet (KB) to the estimated top of the Wasatch Formation at 6,285 feet (KB). All formation tops are based on correlations to Newfield Production Company Federal No. 1-26-8-17 (UT20702-04671) Type Log.

Well Construction: The CBL does show 80% or greater cement bond index across the Confining Zone (3,688 feet – 3,874 feet KB). Thus, further demonstration that well cement is adequate to prevent significant migration of injection fluids behind casing is not required.

Surface Casing: 8-5/8 inch casing is set at 312 feet (KB) in a 12-1/4 inch hole, using 150 sacks Class "G" cement, cemented to the surface.

Longstring Casing: 5-1/2 inch casing is set at 6,205 feet (KB) in a 7-7/8 inch hole secured with 800 sacks of cement. Total driller depth 6,220 feet. Plugged back total depth (PBTD) is 6,161 feet. EPA calculates top of cement at 1,035 feet. CBL top of cement is surface.

Perforations: Top perforation: 4,393 feet (KB). Bottom perforation: 5,518 feet (KB).

Area-of-Review Wells: Within the one-quarter (1/4) mile Area-of-Review (AOR) are five (5) well locations. Of these, three (3) are permitted Green River Formation enhanced recovery injection wells and two (2) are Green River Formation oil wells. One of the five (5) well locations requires Corrective Action.

Monument Butte State No. 9-36-8-16 UT221099-04632 API 43-013-31572
Adequate 80% Confining Zone cement.

Tar Sands federal Mo. 5-31-8-17 UT20847-04515 API 43-013-31607
Adequate 80% Confining Zone cement.

Sand Wash Federal No. 11-31-8-17 UT20847-06746 API43-013-324444
Adequate 80% Confining Zone cement.

Sand Wash Federal No. Q-31-8-17 API 43-013-32445
Adequate 80% Confining Zone cement.

Corrective Action:

Within the one-quarter (1/4) mile AOR only Sand Wash Federal No. 13-31-8-17, a producing Green River oil well, requires attention for Corrective Action. Cement Bond Log analysis does not identify 80% cement bond within the Confining Zone. If possible fluid movement out of the injection zone is identified, either through weekly monitoring, per Newfield's July 10, 2008 procedure, or through any other means (for example, evidence of fluid flow or increased bradenhead annulus pressure readings, tubing-casing annulus pressure readings, or other evidence of a mechanical integrity failure), Permittee will shut in Sand Wash Federal No. 12-31-8-17 immediately and notify the Director. No injection into Sand Wash Federal No. 12-31-8-17 will be permitted until Permittee has notified the Director that the situation has been resolved, submitted Rework Records (EPA Form No. 7520-12) and a schematic diagram, and received authorization from the Director to re-commence injection.

Enclosed is a Newfield corrective action monitoring program, effective July 10, 2008, entitled "Procedure related to proposed Class II Enhanced Oil Recovery Injection Wells determined EPA to have specific Area of Review (AOR) wells with inadequate cement across the Confining Zone".

Reporting of Noncompliance:

- (a) Anticipated Noncompliance. The Operator shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with Permit requirements.
- (b) Compliance Schedules. Reports of compliance or noncompliance with, or any progress on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than thirty (30) days following each schedule date.
- (c) Written Notice of any noncompliance which may endanger health or the environment shall be reported to the Director within five (5) days of the time the operator becomes aware of the noncompliance. The written notice shall contain a description of the noncompliance and its cause; the period of noncompliance including dates and times; if the noncompliance has not been corrected the anticipated time it is expected to continue; and steps taken or planned to prevent or reduce recurrence of the noncompliance.

Twenty-Four Hour Noncompliance Reporting: The Operator shall report to the Director any noncompliance which may endanger health or environment. Information shall be provided, either orally or by leaving a message, within twenty-four (24) hours from the time the Operator becomes aware of the circumstances by telephoning 1-(800)-227-8917 and asking for the EPA Region 8 UIC Program Compliance and Enforcement Director, or by contacting the Region 8 Emergency Operations Center at (303)-293-1788, if calling from outside EPA Region 8. The following information shall be included in the verbal report:

- (a) Any monitoring or other information which indicates that any contaminant may cause an endangerment to a USDW.
- (b) Any noncompliance with a Permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

Oil Spill and Chemical Release Reporting: The Operator shall comply with all other reporting requirements related to oil spills and chemical releases or other potential impacts to human health or the environment by contacting the **National Response Center (NRC) 1-(800)-424-8802 or 1-(202)-267-2675**, or through the NRC website at <http://www.nrc.uscg.mil/index.htm>.

Other Noncompliance: The Operator shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted.

Other Information: Where the Operator becomes aware that he failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application, or in any report to the Director, the operator shall submit such correct facts or information within two (2) weeks of the time such information became known to him.

*Authorization for Additional Well: UIC Area Permit UT20847-00000
Well: Sand Wash Federal No. 12-31-8-17 EPA Well ID: UT20847-08590*



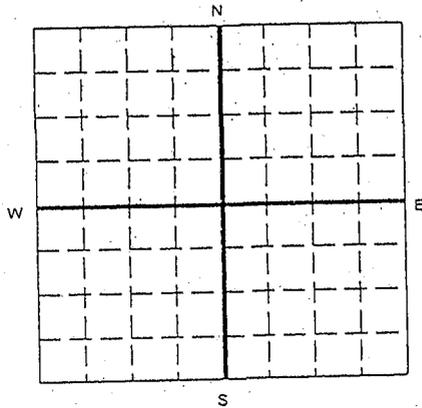
United States Environmental Protection Agency
Washington, DC 20460

WELL REWORK RECORD

Name and Address of Permittee

Name and Address of Contractor

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

County

Permit Number

Surface Location Description

1/4 of 1/4 of 1/4 of 1/4 of Section ___ Township ___ Range ___

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location ___ ft. from (N/S) ___ Line of quarter section.

and ___ ft. from (E/W) ___ Line of quarter section.

WELL ACTIVITY

- Brine Disposal
- Enhanced Recovery
- Hydrocarbon Storage

Lease Name

Total Depth Before Rework

Total Depth After Rework

Date Rework Commenced

Date Rework Completed

TYPE OF PERMIT

- Individual
- Area

Number of Wells ___

Well Number

WELL CASING RECORD -- BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

WELL CASING RECORD -- AFTER REWORK (Indicate Additions and Changes Only)

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

DESCRIBE REWORK OPERATIONS IN DETAIL
USE ADDITIONAL SHEETS IF NECESSARY

WIRE LINE LOGS, LIST EACH TYPE

Log Types

Logged Intervals

Certification

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

Name and Official Title (Please type or print)

Signature

Date Signed

UT 20847-08590
Sand Wash Federal #12-31-8-17

Spud Date: 7/14/2004
Put on Production: 8/21/2004
GL: 5362' KB: 5374'

Initial Production: BOPD,
MCFD, BWPD

Proposed Injection
Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24# *B25e MSW's* *L100'*
LENGTH: 7 jts. (303.92')
DEPTH LANDED: 311.92' KB
HOLE SIZE: 12-1/4"
CEMENT DATA: 150 sxs Class "G" cmt, est 4 bbls cmt to surf.

Green River *1636'*

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 146 jts. (6207.36')
DEPTH LANDED: 6205.36' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 350 sxs Prem. Lite II & 450 sxs 50/50 POZ.
CEMENT TOP AT: Surface

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 164 jts (5344.71') *80% Bone* *3774' - 4364'*
TUBING ANCHOR: 5347.47' KB
NO. OF JOINTS: 5 jts (162.46')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 5509.93' KB
NO. OF JOINTS: 2 jts (65.16')
TOTAL STRING LENGTH: EOT @ 5596.93' KB

Douglas Creek *4862'*

FRAC JOB

08/12/04 5383'-5518' Frac LODC and A3 sand as follows:
218,158# 20/40 sand in 1487 bbls Lightning
17 frac fluid. Treated @ avg press of 1933 psi
w/avg rate of 41.7 BPM. ISIP 2100 psi. Calc
flush: 5381 gal. Actual flush: 5376 gal.

08/17/04 5170'-5179' Frac B2 sand as follows:
33,546# 20/40 sand in 340 bbls Lightning
17 frac fluid. Treated @ avg press of 1808 psi
w/avg rate of 25.2 BPM. ISIP 2100 psi. Calc
flush: 5168 gal. Actual flush: 5208 gal.

08/17/04 5056'-5063' Frac C sand as follows:
19,266# 20/40 sand in 262 bbls Lightning
17 frac fluid. Treated @ avg press of 1978 psi
w/avg rate of 25.2 BPM. ISIP 2800 psi. Calc
flush: 5054 gal. Actual flush: 5040 gal.

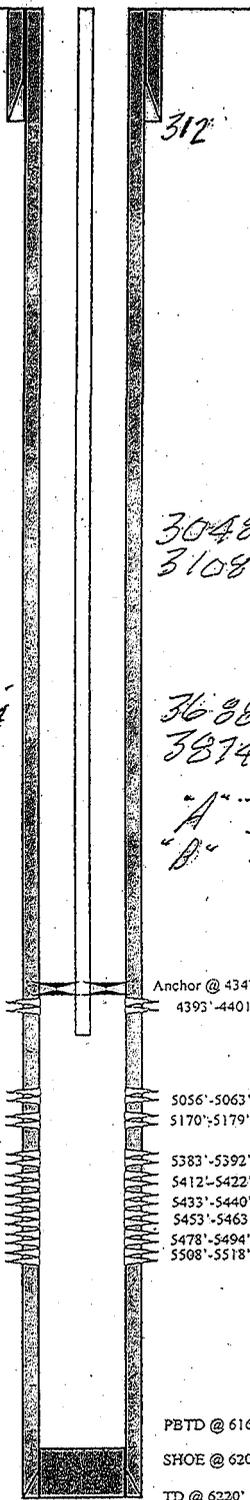
08/17/04 4393'-4401' Frac GB4 sand as follows:
15,460# 20/40 sand in 228 bbls Lightning
17 frac fluid. Treated @ avg press of 1818 psi
w/avg rate of 25.1 BPM. ISIP 1900 psi. Calc
flush: 4391 gal. Actual flush: 4389 gal.

07/24/06 Pump Change. Tubing & Rod detail updated.

3048'-3108' Trans
3108'-3132' Mahogany Bench

3688'-3874' Confining Zone
3874' Garden Gulch

A 3990'-4078'
B 4115'-4194'



PERFORATION RECORD

Date	Interval	Tool	Holes
8/12/04	5508'-5518'	4 JSPF	40 holes
8/12/04	5478'-5494'	4 JSPF	64 holes
8/12/04	5453'-5463'	4 JSPF	40 holes
8/12/04	5433'-5440'	4 JSPF	28 holes
8/12/04	5412'-5422'	4 JSPF	40 holes
8/12/04	5383'-5392'	4 JSPF	36 holes
8/17/04	5170'-5179'	4 JSPF	36 holes
8/17/04	5056'-5063'	4 JSPF	28 holes
8/17/04	4393'-4401'	4 JSPF	32 holes

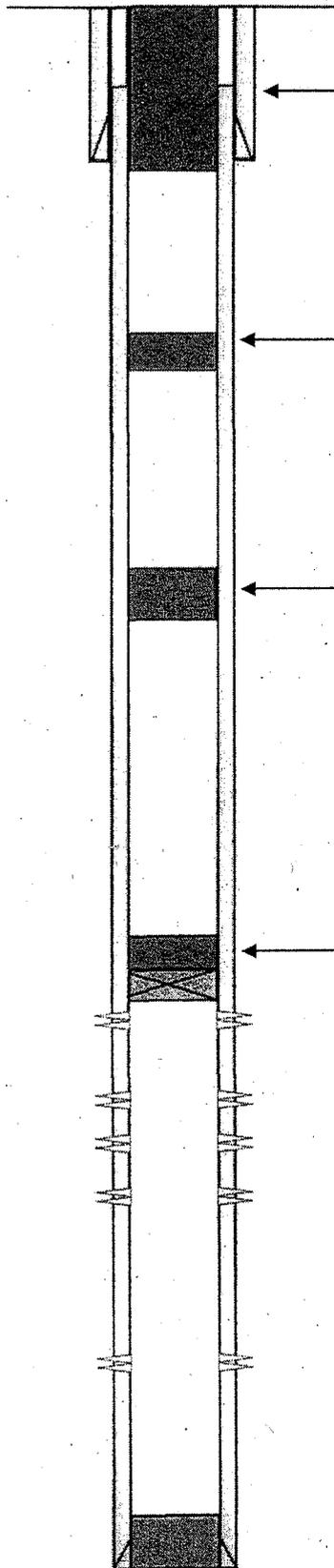
6165' Bone Cement

Est. 6125'

NEWFIELD

Sand Wash Federal #12-31-8-17
2236' FSL & 654' FWL
NW/SW Section 31-T8S-R17E
Duchesne Co, Utah
API #43-013-32446; Lease #UTU-74869

Plugging and Abandonment Diagram Sand Wash Federal No. 12-31-8-17



Plug 4: Set a Class "G" cement plug within the 5-1/2 inch casing surface to 365 feet and up the 5-1/2 inch X 8-5/8 inch casing annulus to the surface.

Plug 3: Perforate and squeeze cement up the backside of the casing across the contact between the Uinta Formation and Green River Formation 1,575 feet – 1,695 feet (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 120-foot cement plug inside the casing from approximately 1,575 feet – 1,695 feet.

Plug 2: Perforate and squeeze cement up the backside of the casing across the Trona Zone and the Mahogany Bench from approximately 3,000 feet – 3,185 feet (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 185-foot balanced cement plug inside the casing from approximately 3,000 feet – 3,185 feet.

Plug 1: Set a cast iron bridge plug (CIBP) no more than 50 ft above the top perforation with a minimum of 20 ft cement plug on top of the CIBP.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

PLUGGING RECORD

NAME AND ADDRESS OF PERMITTEE

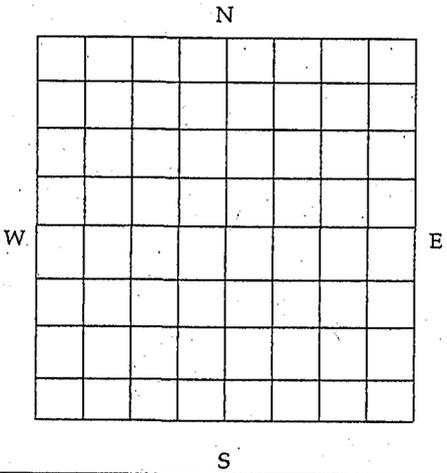
NAME AND ADDRESS OF CEMENTING COMPANY

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES

STATE

COUNTY

PERMIT NUMBER



SURFACE LOCATION DESCRIPTION

1/4 of 1/4 of 1/4 of 1/4 of Section Township Range

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location ft. from (N/S) Line of quarter section

and ft. from (E/W) Line of quarter section

TYPE OF AUTHORIZATION

- Individual Permit
- Area Permit
- Rule

Number of Wells

Lease Name

Describe in detail the manner in which the fluid was placed and the method used in introducing it into the hole

CASING AND TUBING RECORD AFTER PLUGGING

METHOD OF EMPLACEMENT OF CEMENT PLUGS

SIZE	WT(LB/FT)	TO BE PUT IN WELL(FT)	TO BE LEFT IN WELL(FT)	HOLE SIZE

- CLASS I
 - The Balance Method
- CLASS II
 - The Dump Bailer Method
 - Brine Disposal
 - The Two-Plug Method
 - Enhanced Recovery
 - Other
- CLASS III
 - Hydrocarbon Storage

CEMENTING TO PLUG AND ABANDONED DATA

PLUG #1 PLUG #2 PLUG #3 PLUG #4 PLUG #5 PLUG #6 PLUG #7

Size of Hole or Pipe in which Plug Will Be Placed (inches)								
Depth to Bottom of Tubing or Drill Pipe (ft.)								
Sacks of Cement To Be Used (each plug)								
Slurry Volume To Be Pumped (cu. ft.)								
Calculated Top of Plug (ft.)								
Measured Top of Plug (if tagged ft.)								
Slurry Wt. (Lb./Gal.)								
Type cement or other material (Class III)								

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

From	To	From	To

Signature of Cementer or Authorized Representative

Signature of EPA Representative

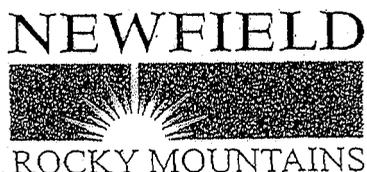
CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (REF. 40 CFR 122.22)

NAME AND OFFICIAL TITLE (Please type or print)

SIGNATURE

DATE SIGNED



RE: Procedure related to proposed Class II Enhanced Oil Recovery Injection Wells determined by the EPA to have specific Area of Review (AOR) wells with inadequate cement across the confining zone

Effective July 10, 2008 Newfield Production Company will implement the following procedure to address concerns related to protection of Underground Sources of Drinking Water (USDW) in AOR wells where the interval of cement bond index across the confining zone behind pipe has been determined to be inadequate. The procedure is intended to meet the corrective action requirements found in the UIC Class II permit, as well as provide data that could be used to detect and prevent fluid movement out of the proposed injection zone.

- 1) Establish baseline production casing by surface casing annulus pressures prior to water injection in subject well with a calibrated gauge.
- 2) Record the baseline pressure, report findings to Newfield engineering group and keep on file so it is available upon request
- 3) Place injection well in service. Run packer integrity and radioactive tracer logs to verify wellbore integrity and determine zones taking water.
- 4) Construct a geologic cross section showing zones taking water and their geologic equivalent zones in the AOR wells.
- 5) Submit a report of the packer integrity log, radioactive tracer log, and geologic cross section to the Newfield engineering staff for review and keep on file so it is available upon request
- 6) Weekly observations of the site will be made by Newfield during normal well operating activities. Any surface discharge of fluids will be reported immediately.
- 7) After injection well is placed in service, weekly observations of annulus pressure will be made and compared to baseline pressure and will be recorded once monthly. The recorded pressure information will be kept on file and be available upon request.
- 8) If pressure increases by more than 10% above baseline at any time in an AOR well with insufficient cement bond, Newfield will run a temperature survey log in subject well. This log, in concert with the geologic cross section, will enable the determination of water movement in the open hole by production casing annulus through a shift in geothermal gradient.
- 9) If water movement is determined in annulus, Newfield will shut in the injection well and repair the production casing by open hole annulus or leave the injection well out of service.