



July 21, 1994

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

Attn: Frank Matthews

Re: PG & E Resources Company  
Federal #21-8H  
NE NW Sec. 8, T9S - R17E  
Duchesne County, Utah

Dear Frank,

Enclosed please find three copies of the Application for Permit to Drill on the above mentioned well along with one copy of the drilling program and surface use plan which has been filed with the BLM in Vernal, Utah.

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.

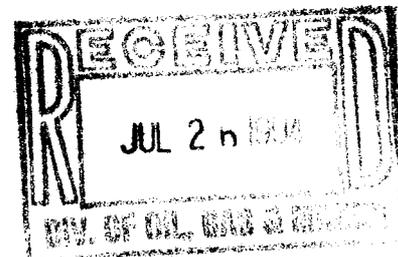
Sincerely,

PERMITCO INC.

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



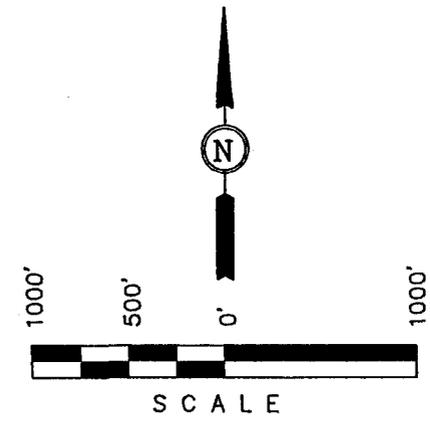
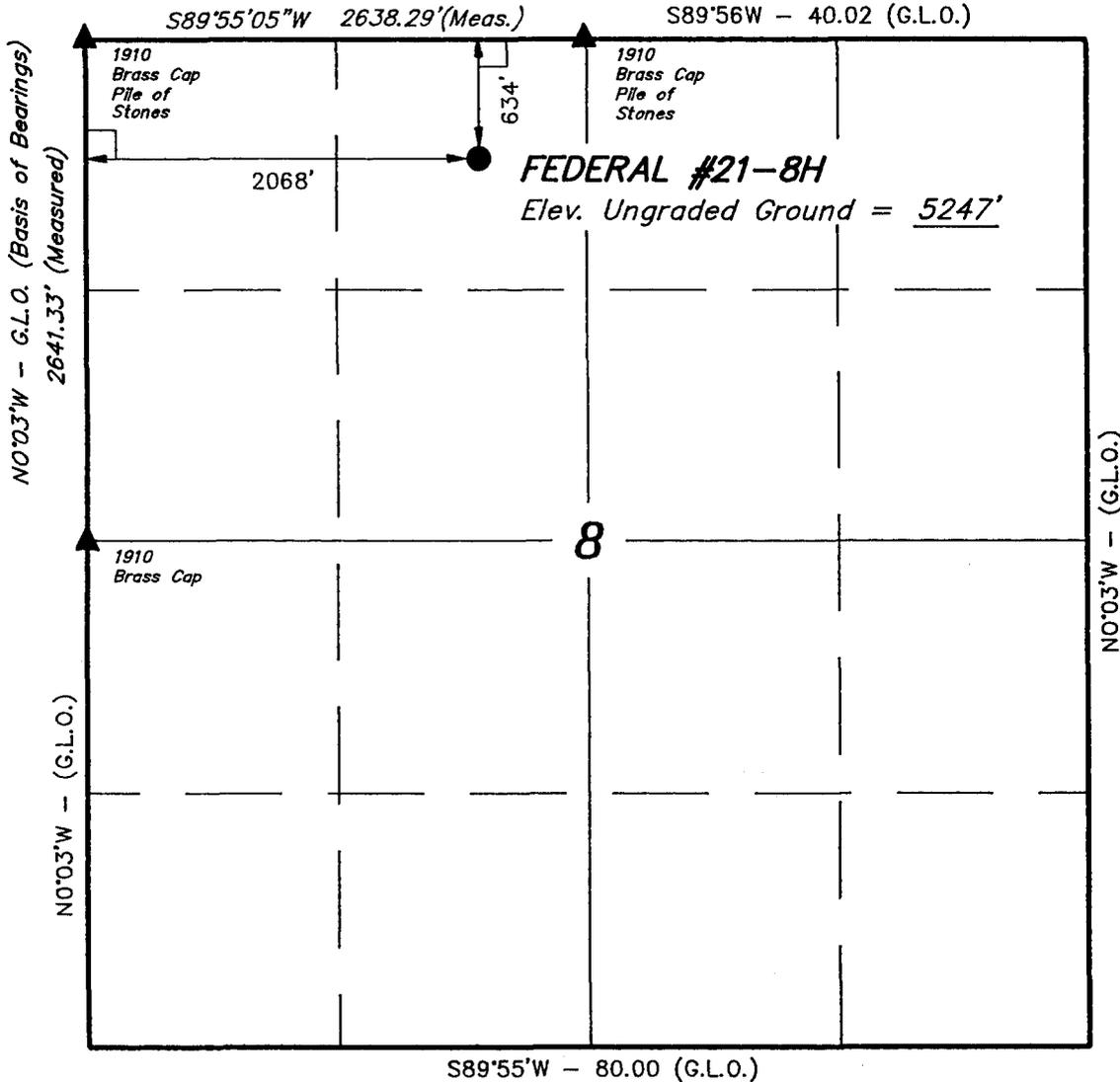
# T9S, R17E, S.L.B.&M.

## PG&E RESOURCES COMPANY

Well location, FEDERAL #21-8H, located as shown in the NE 1/4 NW 1/4 of Section 8, T9S, R17E, S.L.B.&M. Duchesne County, Utah.

### BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 8, T9N, R17E, S.L.B.&M. TAKEN FROM THE MYTON SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5265 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. Hay*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION No. 161319  
 STATE OF UTAH

### LEGEND:

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

<b>UINTAH ENGINEERING &amp; LAND SURVEYING</b>		
85 SOUTH 200 EAST - VERNAL, UTAH 84078		
(801) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 7-6-94	DATE DRAWN: 7-9-94
PARTY B.B. B.R. D.R.B.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE PG&E RESOURCES	

**ONSHORE OIL & GAS ORDER NO. 1**

**Approval of Operations on Onshore  
Federal and Indian Oil & Gas Leases**

**Federal #21-8H  
634' FNL and 2068' FWL  
NE NW Sec. 8, T9S - R17E  
Duchesne County, Utah**

**Prepared For:**

**PG & E RESOURCES COMPANY**

**By:**

**PERMITCO INC.  
13585 Jackson Drive  
Denver, Colorado 80241  
303/452-8888**

**CONFIDENTIAL - TIGHT HOLE**

**Copies Sent To:**

- 3 - BLM - Vernal, Utah**
- 1 - Utah Division of Oil, Gas & Mining - SLC, UT**
- 3 - PG & E Resources - Dallas, TX**
- 1 - PG & E Resources - Vernal, Utah**



**Permitco Incorporated**  
A Petroleum Permitting Company

August 9, 1993

Bureau of Land Management  
170 S. 500 E.  
Vernal, UT 84078

Attn: Minerals

Re: Agent Designation

Gentlemen:

This letter is to inform you that Permitco, Inc. is authorized to act as Agent and to sign documents on behalf of PG&E Resources Company when necessary for filing county, state and federal permits including Onshore Order No. 1, Right of Way applications, etc.

It should be understood that Permitco is acting as Agency only in those matters stated above and is not responsible for drilling, completion, production or compliance with regulations.

PG&E Resources Company agrees to accept full responsibility for operations including drilling, completion and production.

Yours very truly,



Jim LaFevers  
Supervisor  
Regulatory Affairs

JLF:ah

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**Federal #21-8H**

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ONSHORE ORDER NO.  
PG & E Resources Company  
Federal #21-8H  
634' FNL and 2068' FWL  
NE NW Sec. 8, T9S - R17E  
Duchesne County, Utah

CONFIDENTIAL - TIGHT HOLE

Lease No. U-10760

DRILLING PROGRAM

Page 1

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. Estimated Tops of Important Geologic Markers:

<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Uinta	Surface	
Green River	1464'	+3797'
D.C. Marker	4561'	+ 700'
"D"	4783'	+ 478'
"E"	4893'	+ 368'
"E <sub>2</sub> "	5019'	+ 242'
"F"	5451'	- 190'
Basal Ls.	5865'	- 604'
Wasatch	6029'	- 768'
T.D.	6125'	

2. Estimated Depths of Anticipated Water, Oil, Gas or Minerals Formations:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Oil	DC <sub>4</sub>	4637-4723'
Oil	E (d) Sand	4967-4987'
Oil	E (e) Sand	4987-5019'
Oil	F (1) Sand	5451-5472'
Oil	F (2) Sand	5483-5503'
Oil	F (3) Sand	5529-5545'
Water	N/A	
Other Mineral Zones	N/A	



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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.

**3. Pressure Control Equipment: (Schematic Attached)**

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.**

**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 2000 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. Proposed Casing and Cementing Program:

- 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 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.
- 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	0-350'	12-1/4"	9-5/8"	36#	K-55	ST&C	New
Produc.	0-6125'	7-7/8"	5-1/2"	<del>1#</del> 17	J-55	LT&C	New

n. Casing design subject to revision based on geologic conditions encountered.

o. The cement program will be as follows:

<u>Surface</u>	<u>Type and Amount</u>
0-350'	± 110 sx Class "A" Cement or sufficient volume to circulate to surface.

Production

Type and Amount

Approx. 1000 cubic feet of 50/50 Poz Mix, 14.1 ppg, 1.26 yield or sufficient to cover zones of interest (from T.D. to approximately 2600'.

- 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.



5. Mud Program:

- 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>
0-6125'	Water/Lime & Gel	8.4-8.6	27-36	N/C	N/C

Sufficient quantities of mud materials will be maintained or readily accessible for the purpose of assuring well control during the course of drilling operations.

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.

- d. No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

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



6. Evaluation Program:

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

- a. No drill stem tests are anticipated, however, if they are run the following 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, 1", 2" and 5" from T.D. to base of surface casing. A Spectral Density Dual-Spaced Neutron Log, 5" from T.D. to 2500'.
- c. No cores are anticipated.
- 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 and casing water frac potential hydrocarbon bearing zones.
- f. Daily drilling and completion progress reports shall be submitted to the BLM in Vernal on a weekly basis.

7. Abnormal Temperatures or Pressures

- a. No abnormal temperatures or pressures are anticipated. No H<sub>2</sub>S has been encountered in or known to exist from previous wells drilled to similar depths in the general area.
- b. The maximum anticipated bottom hole pressure will be approximately 2700 psi at T.D.

8. Anticipated Starting Dates and Notification of Operations:

- a. Drilling will commence immediately upon approval of this application.
- b. It is anticipated that the drilling of this well will take approximately 12-14 days.
- c. The Vernal District Office shall be notified, during regular work hours (7:45 a.m.-4:30 p.m, Monday through Friday except holidays), at least 24 hours prior to spudding the well.

ONSHORE ORDER NO. 1  
PG & E Resources Company  
Federal #21-8H  
634' FNL and 2068' FWL  
NE NW Sec. 8, T9S - R17E  
Duchesne County, Utah

CONFIDENTIAL - TIGHT HOLE

Lease No. U-10760

DRILLING PROGRAM

Page 10

- d. Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.
- e. The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.
- f. Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.
- g. 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.
- h. 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.



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A Petroleum Permitting Company

- i. 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.
- j. 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.
- k. 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.
- l. 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.
- m. Pursuant to Onshore Order No. 7, 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.
- n. 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.
- o. 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

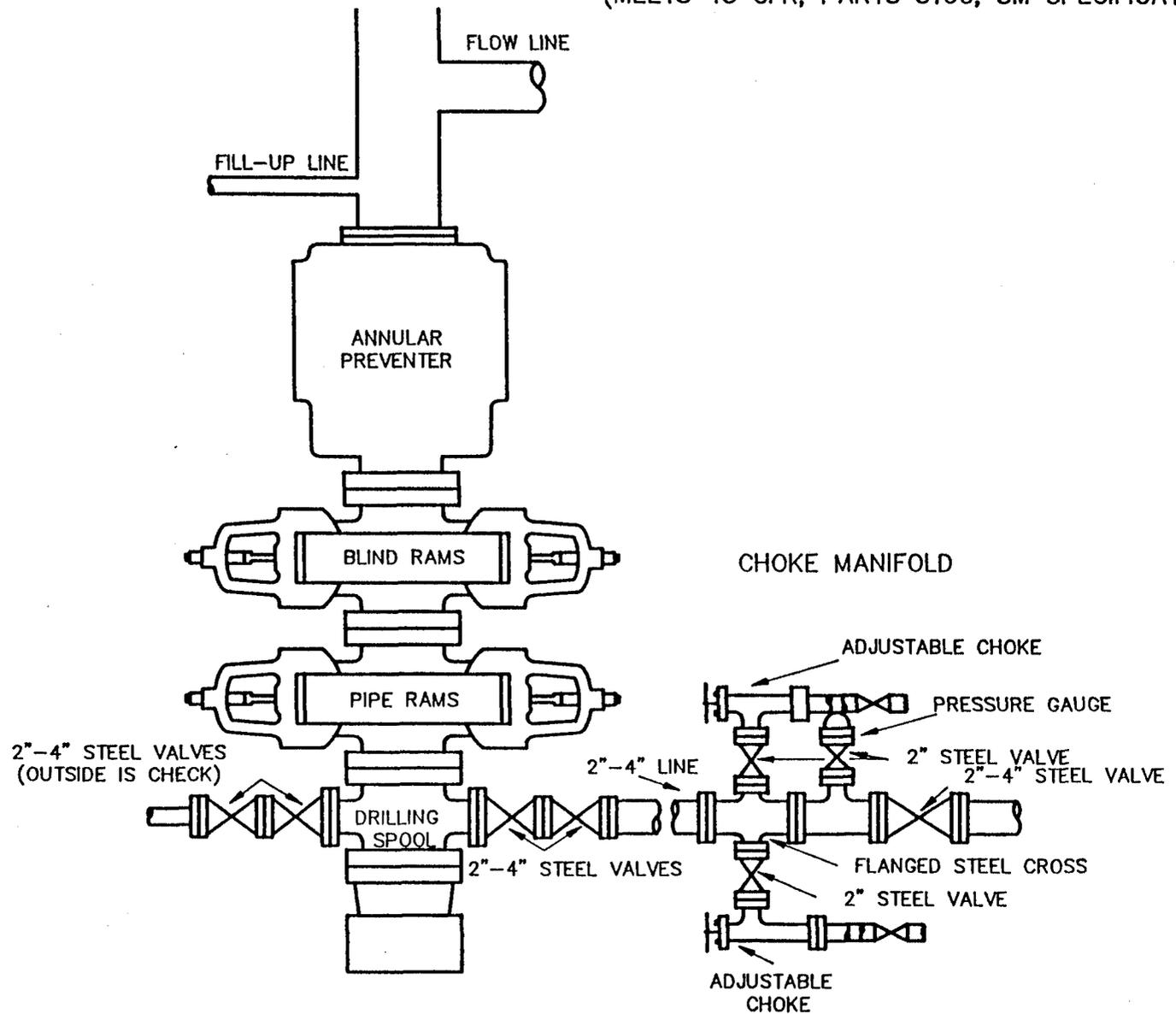


lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

- p. A first production conference will be scheduled within 15 days after receipt of the first production notice.
- q. 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.
- r. 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)



ONSHORE OIL & GAS ORDER NO. 1

NOTIFICATION REQUIREMENTS

- Location Construction - 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 - twenty-four (24) hours prior to running casing and cementing all casing strings.
- BOP and Related Equipment Tests - 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.

The onsite inspection for the subject well was conducted on Tuesday, July 12, 1994 at approximately 3:15 p.m. Weather conditions were warm and cloudy. In attendance at the onsite inspection were the following individuals:

Robert Kay  
Lisa Smith  
Ralph Brown  
Jake Neves

Uintah Engineering and Land Surveying  
Permitco Inc.  
Bureau of Land Management  
Drilling Consultant/PG & E

1. Existing Roads

- a. The proposed well site is located approximately 14 miles south of Myton, Utah.



- b. **Directions to the location from Myton, Utah are as follows:**

**From Myton proceed southwesterly on Highway 40 for 1.5 miles. Turn left onto County Road #53 and #216 and proceed southeasterly for 11.2 miles to the Castle Peak Mine. Turn right and proceed southwesterly for 0.9 miles. Turn right and proceed northerly for 0.4 miles on an existing road. Turn left and proceed northwesterly for 0.3 miles to the location.**

- c. **For location of access roads within a 2-Mile radius, see Maps A & B.**
- d. **Improvement to the existing access will not be necessary. All roads (with the exception of the last 0.7 miles) are county maintained.**
- e. **All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.**
- f. **Existing roads and newly constructed roads on surface under the jurisdiction of any Surface Managing Agency shall be maintained in accordance with the standards of the SMA.**

**2. Planned Access Roads**

- a. **Approximately 0.3 miles of new access will be required. The road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30 feet. Appropriate water control will be installed to control erosion.**
- b. **The maximum grade of the new construction will be approximately 5%.**
- c. **No turnouts are planned.**
- d. **No low water crossings will be necessary. There are no major cuts and fills. No culverts and/or bridges will be required.**
- e. **The road was centerline flagged at the time of staking.**



- f. The use of surfacing material is not anticipated, however it may be necessary depending on weather conditions.
- g. No cattleguards will be necessary.
- h. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.
- i. Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, (1989).
- j. The road will be constructed/upgraded to meet the standards of the anticipated traffic flow and all weather road requirements. Construction/upgrading shall include ditching, draining, graveling, crowing and capping the roadbed as necessary to provide a well constructed safe road. Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot right-of-way will not be allowed. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.
- k. No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.
- l. No road right of way will be required.



3. Location of Existing Wells Within a 1-Mile Radius of the Proposed Location.  
(See Map #C).

- a. Water wells - none
- b. Injection wells - none
- c. Producing wells - seven
- d. Drilling wells - none
- e. Shut-in wells - none
- f. Temporarily abandoned wells - none
- g. Disposal wells -none
- h. Abandoned wells - one
- i. Dry Holes - none

4. Location of Tank Batteries and Production Facilities.

- a. All permanent structures (onsite for six months or longer) constructed or installed (including oil well pump jacks) will be painted Desert Tan (10YR6/3). All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded.
- b. If storage facilities/tank batteries are constructed on this lease, the facility/battery or the wellpad shall surrounded by a containment dike of sufficient capacity to contain at a minimum, the entire content of the largest tank within the facility/battery, unless more stringent protective requirements are deemed necessary by the authorized officer.
- c. A Sundry Notice will be submitted showing placement of all production facilities prior to construction.



- d. All loading lines will be placed inside the berm surrounding the tank battery.
- e. Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried or anchored down from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.
- f. The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil and Gas Order No. 4 for liquid hydrocarbons and Onshore Oil and Gas Order No. 5 for natural gas measurement.
- g. If at any time the facilities located on public land and authorized by the terms of the lease are no longer included in the lease (due to a contraction in the unit or other lease or unit boundary change), BLM will process a change in authorization to the appropriate statute. The authorization will be subject to appropriate rental or other financial obligation as determined by the authorized officer.
- h. Any necessary pits will be properly fenced to prevent any wildlife entry.
- i. All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.
- j. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.
- k. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic.
- l. The road will be maintained in a safe useable condition.



5. Location and Type of Water Supply

- a. All water needed for drilling purposes will be obtained from the Hicken Pond which is located N 475' W, 40' from the South quarter corner of Section 12, T4S - R2W, Duchesne County, Utah. Permit No. 47-1437 (Dalbo).
- b. Water will be hauled to location over the roads marked on Maps A and B.
- c. No water well is to be drilled on this lease.
- d. A copy of the approved water permit is attached.

6. Source of Construction Material

- a. Surface and subsoil materials in the immediate area will be utilized.
- b. Any gravel used will be obtained from a commercial source.
- c. The use of materials under BLM jurisdiction will conform with 43 CFR 3610.2.3. Construction material will not be located on lease.
- d. No construction materials will be removed from Federal land.

7. Methods of Handling Waste Disposal

- a. The reserve pit will be constructed so as not to leak, break, or allow discharge.
- b. A 12 mil plastic nylon reinforced liner is utilized. The pit will be first lined 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 Onshore Order No. 7, 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.

9. Well Site Layout

- a. The reserve pit will be located on the south 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 on the north side of the location between points 1 and 3.
- d. Access to the wellpad will be from the east at point 3.
- e. Due to the presence of paleontological material on the laydown end of the wellpad no cut or topsoil stripping will be done in this area. Fill material will be placed on this end of the wellpad.
- f. See Location Layout for orientation of rig, cross section of drill pad and cuts and fills.
- g. The location of mud tanks; reserve pit, trash cage; pipe racks; living facilities and soil stockpiles will be shown on the Location Layout.
- h. During construction, all brush will be removed from the wellpad and access road and stockpiled separately from the topsoil.
- i. 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.
  - 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.

- j. 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. The plastic nylon reinforced liner 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 120 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.
- e. Reclamation of unused disturbed areas on the well pad/access road no longer needed for operations, such as cut slopes, and fill areas will be accomplished by grading, leveling and seeding as recommended by the Authorized Officer. The following seed mixture will be used unless another seed mixture is deemed to be more suitable for the location.



<u>Seed Mixture</u>	<u>Pounds/Acres*</u> <u>Pure Live Seed</u>
Forage Kochia ( <i>Kochia prostrata</i> )	1
Ephriam Crested Wheatgrass ( <i>Agropyron cristatum</i> Ephriam)	5
Russian Wildrye ( <i>Elymus junceus</i> )	4
Fourwing Saltbush ( <i>Atriplex canescens</i> )	2

\*Rate if drilled. If broadcast, mixture will be doubled.  
A harrow will be drug over the location to assure seed cover.

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 attach the appropriate surface rehabilitation conditions of approval.

11. Surface Ownership

Access Roads - All roads are County maintained or managed by the Bureau of Land Management.

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 under separate cover by Sagebrush Archeological Consultants.
- b. Due to the presence of paleontology on the wellpad, monitoring during construction may be required.

- c. 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
  - 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.
- d. 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.
- e. 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.



- f. A silt catchment dam and basin will be constructed according to BLM specifications approximately 1/4 mile northeast of the wellpad, where flagged. A copy of the BLM specifications, "Minimum Standards for Dams Impounding Under 10 Acre Feet" is attached hereto.**
- g. 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.**
- h. A complete copy of the approved APD and ROW grant shall be on location during construction of the location and drilling activities.**
- i. There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended or abandoned will be identified in accordance with 43 CFR 3162.**
- j. "Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.**
- k. This permit will be valid for a period of one year from the date of approval. An extension period may be granted, if requested, prior to the expiration of the original approval period. After permit termination, a new application will be filed for approval for any future operations.**
- l. The operator or his contractor shall contact the BLM Offices at 801/789-1362 48 hours prior to construction activities.**
- m. The BLM Office shall be notified upon site completion prior to moving on the drilling rig.**

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

Gerald E. Kencska	Petroleum Engineer	801/781-1190
Ed Forsman	Petroleum Engineer	801/789-7077
BLM Fax Machine		801/789-3634

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 75206-3922  
Gary Whetstine - 214/750-3800  
Jim LaFevers - 214/750-3800 (Regulatory)

Certification

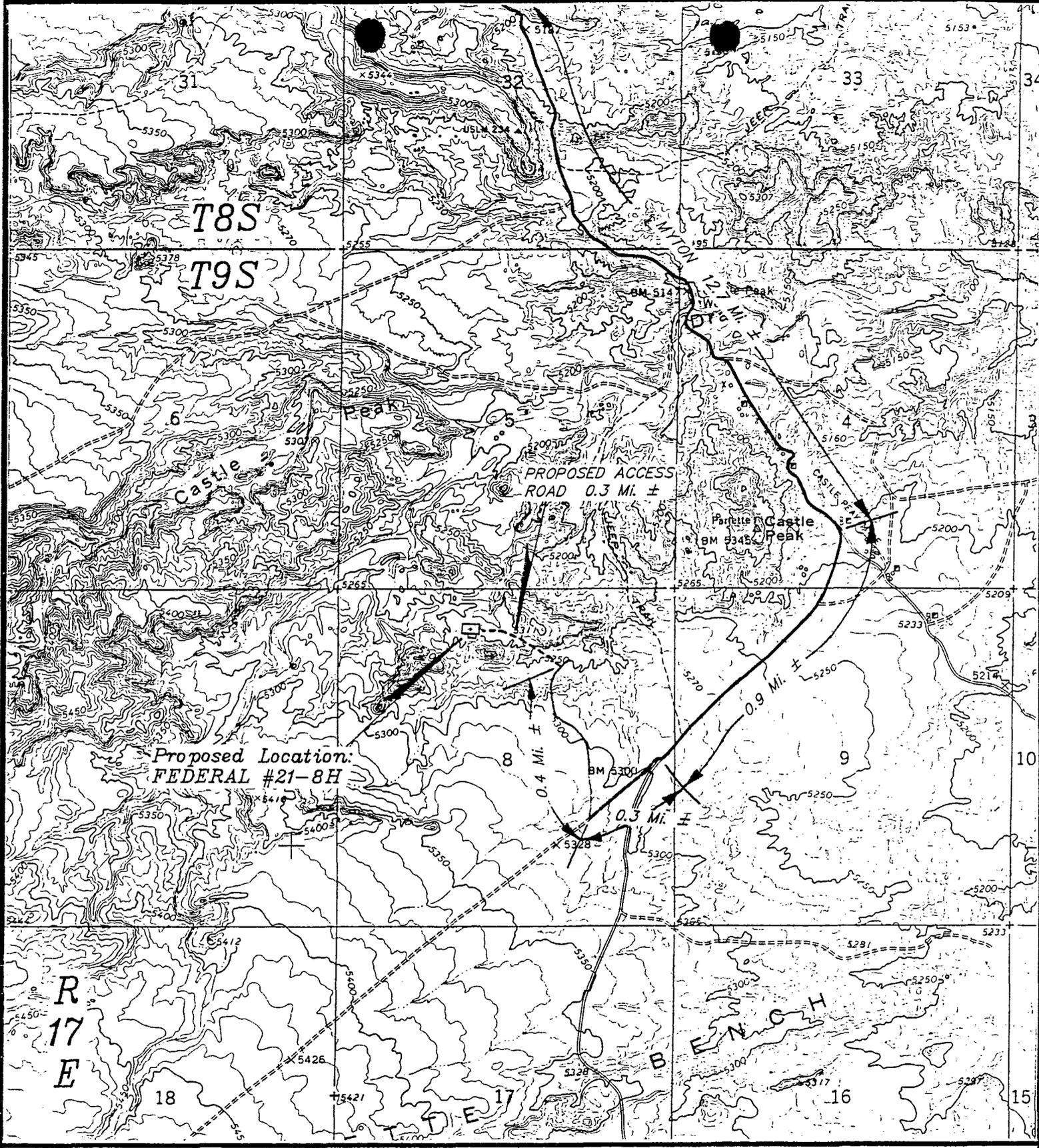
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated 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.

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

July 21, 1994  
Date:

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





TOPOGRAPHIC  
MAP " B "

SCALE: 1" = 2000'  
DATE: 7-9-94 C.B.T.



PG&E RESOURCES COMPANY

FEDERAL #21-8H  
SECTION 8, T9S, R17E, S.L.B.&M.  
634' FNL 2068' FWL



**LEGEND:**

- ⊙ = Water Wells
- = Abandoned Wells
- = Temporarily Abandoned Wells
- ⊗ = Disposal Wells
- = Drilling Wells
- = Producing Wells
- = Shut-in Wells



**PG&E RESOURCES COMPANY**

FEDERAL #21-8H  
SECTION 8, T9S, R17E, S.L.B.&M.

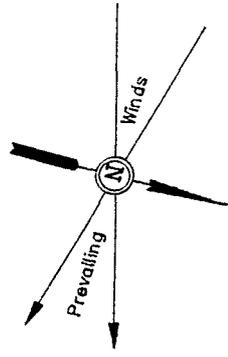
TOPO MAP "C"

DATE: 7-9-94 C.B.T.

PG&E RESOURCES COMPANY

LOCATION LAYOUT FOR

FEDERAL #21-8H  
SECTION 8, T9S, R17E, S.L.B.&M.  
634' FNL 2068' FWL



SCALE: 1" = 50'  
DATE: 7-10-94  
Drawn By: D.R.B.

**FLARE PIT**  
Min. 100' from  
rig substructure.  
Min. 30' from  
reserve pit fence.

F-0.1'  
El. 46.1'

F-0.9'  
El. 45.3'

F-0.1'  
El. 46.1'

APPROX.  
TOE OF  
FILL SLOPE

Sta. 3+00

NOTE:  
NO CUT OR  
TOPSOIL STRIPPING  
IN THIS AREA

C-9.1'  
El. 47.3'  
(Btm. Pit)

C-0.3'  
El. 46.5'

C-0.7'  
El. 46.9'

Existing  
Drainage

Sta. 1+50

Reserve Pit Backfill  
& Spoils Stockpile

RESERVE  
PITS  
(8' Deep)

Total Capacity  
W/2' of Freeboard  
= 6,300 Bbls. ±

Sta. 0+42

F-1.2'  
El. 45.0'

APPROX.  
TOP OF  
CUT SLOPE

Topsoil Stockpile

Sta. 0+00

C-10.2'  
El. 48.4'  
(Btm. Pit)

C-1.1  
El. 47.3'

C-1.2'  
El. 47.4'

F-0.7'  
El. 45.5'

Proposed Access  
Road

F-3.7'  
El. 42.5'

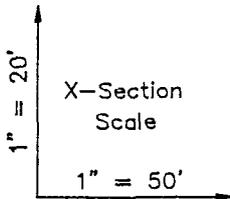
Elev. Ungraded Ground at Location Stake = 5246.9'

Elev. Graded Ground at Location Stake = 5246.2'

PG&E RESOURCES COMPANY

TYPICAL CROSS SECTIONS FOR

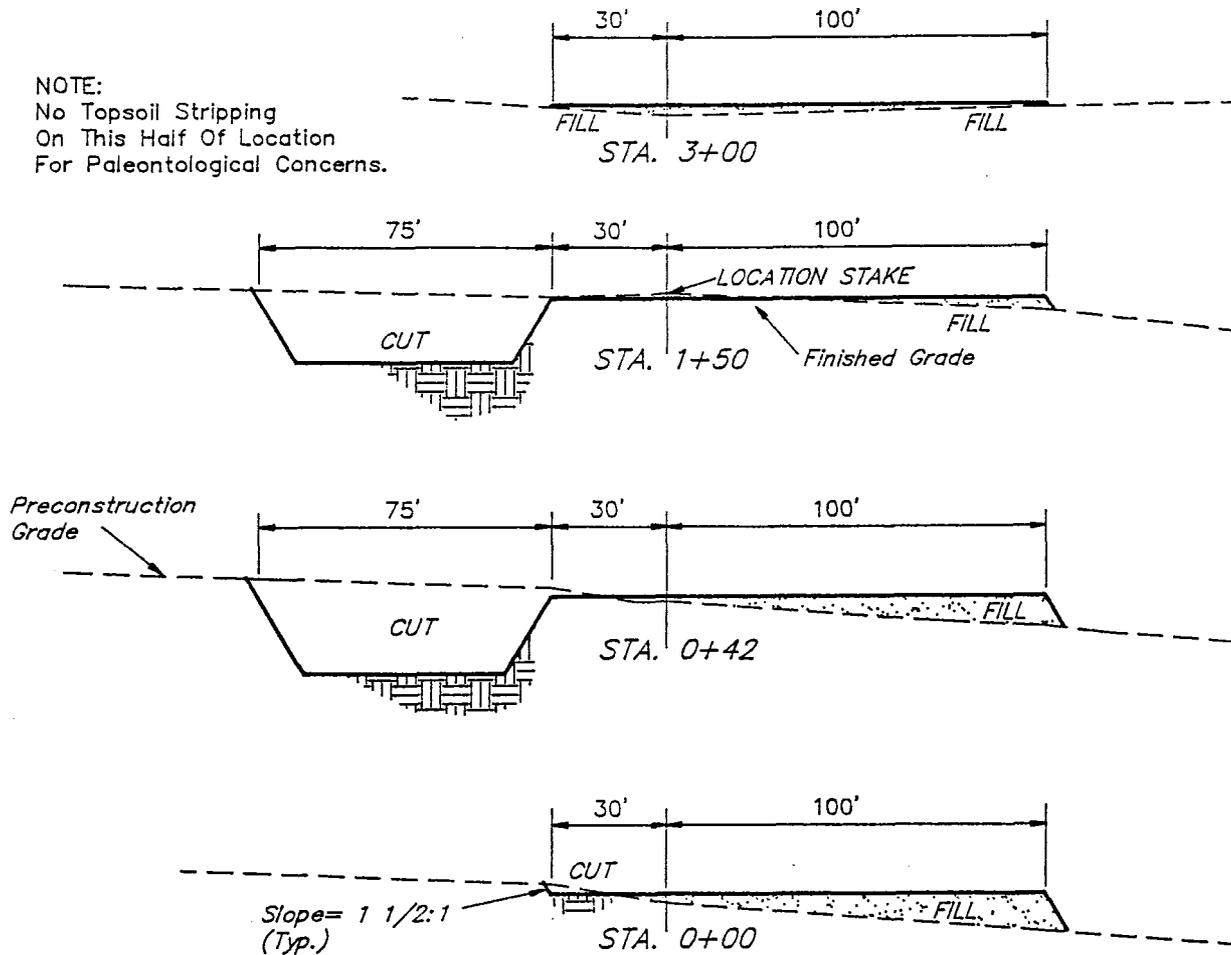
FEDERAL #21-8H  
SECTION 8, T9S, R17E, S.L.B.&M.  
634' FNL 2068' FWL



*[Handwritten signature]*

DATE: 7-10-94  
Drawn By: D.R.B.

NOTE:  
No Topsoil Stripping  
On This Half Of Location  
For Paleontological Concerns.



APPROXIMATE YARDAGES

CUT

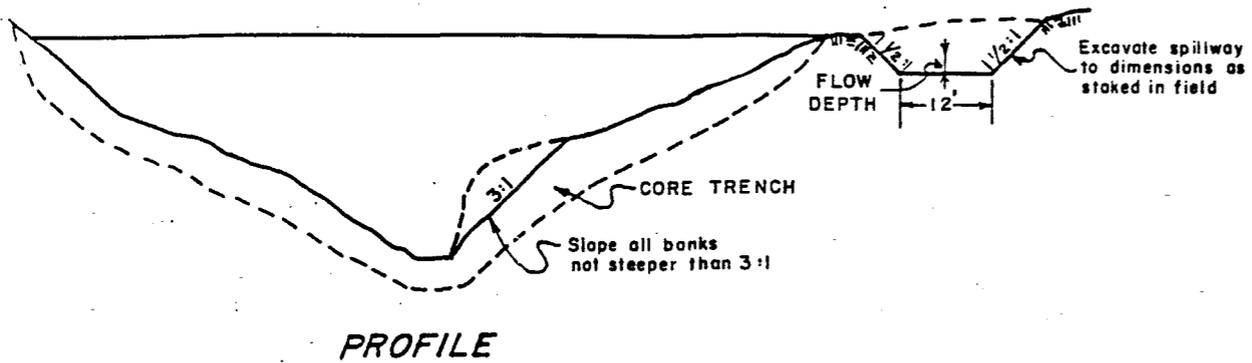
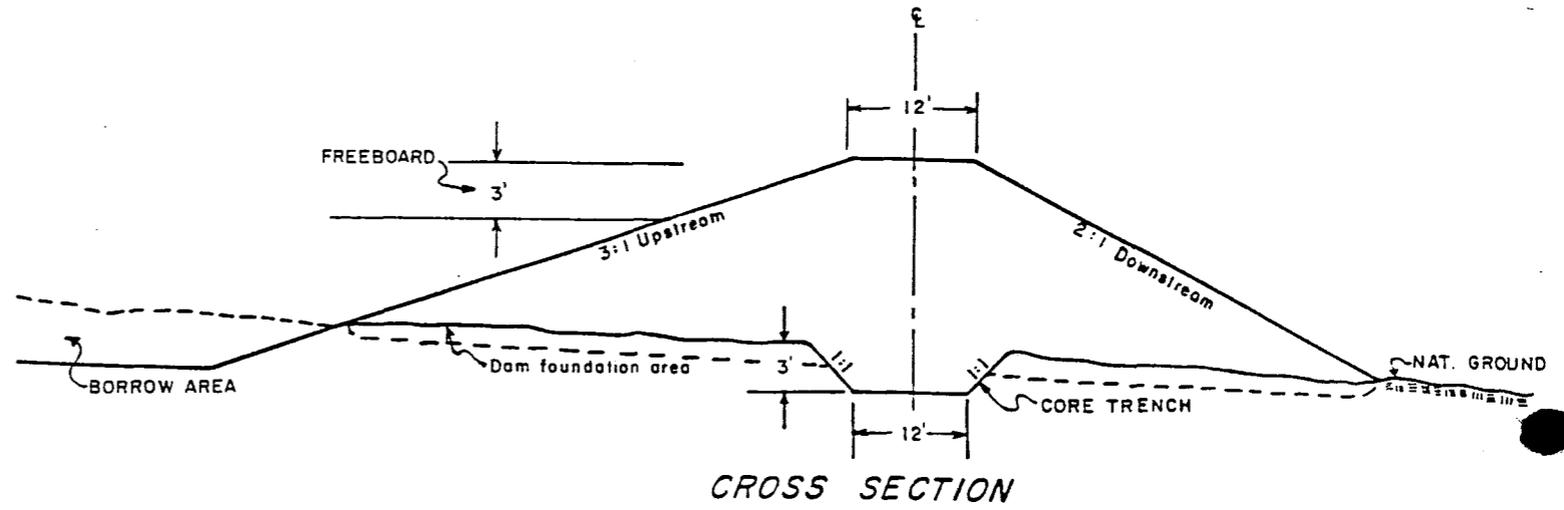
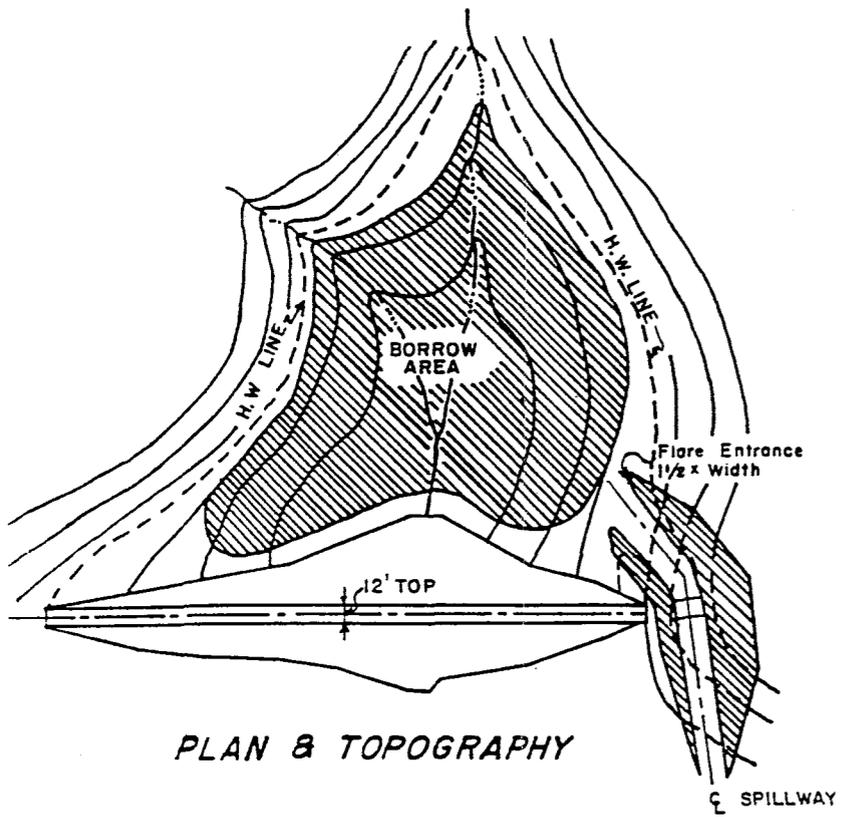
(6") Topsoil Stripping (As Note Above)	=	450 Cu. Yds.
Remaining Location	=	2,350 Cu. Yds.
<b>TOTAL CUT</b>	<b>=</b>	<b>2,800 CU.YDS.</b>
<b>FILL</b>	<b>=</b>	<b>1,300 CU.YDS.</b>

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

EXCESS MATERIAL AFTER 5% COMPACTION	=	1,430 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	1,430 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	=	0 Cu. Yds.

MINIMUM STANDARDS FOR DAMS IMPOUNDING UNDER 10 AC. FT.

- I. Site Location and Design
  - A. Authorized BLM personnel shall approve site location, fill material, foundation material, and spillway size and location.
  - B. Construction shall be per attached diagram.
  
- II. Borrow Areas
  - A. Borrow material shall be taken from within the reservoir basin below high water line whenever possible.
  - B. Vegetation, debris and topsoil shall be removed to a depth of 12 inches below natural ground line and deposited as directed.
  - C. Vegetation, debris and topsoil shall be stockpiled to be used as cover for borrow areas above the high water line or spread on downstream side of dam.
  - D. Borrow areas above the high water line shall be contoured to blend into natural ground lines.
  
- III. Core Trench and Dam Foundation
  - A. A core trench shall be constructed 12 feet wide along the full length of the dam center line to a minimum depth of 3 feet or bedrock.
  - B. Sides of the core trench shall be no steeper than 1:1 slope.
  
- IV. Dam and Core Fill
  - A. Fill shall be homogeneous material, preferably of high impervious, compactable soils (such as high clay content soil free of organic material, sand or rock).
  - B. Lifts of fill shall not exceed 6 inches when compacted.
  - C. Fill shall be built up at a consistent rate the full length of the dam.
  - D. Lifts shall be compacted by at least one pass of the crawler tractor over the entire width of the lift.
  - E. Downstream side of the dam shall be no steeper than 2:1 slope. Upstream side of the dam shall be no steeper than 3:1 slope.
  - F. Top of the dam shall be a minimum of 12 feet wide.
  - G. Maximum water depth against the dam shall be 10 feet when constructed with a crawler tractor.
  
- V. Spillway
  - A. Spillway shall be constructed through natural material.
  - B. Spillway shall be constructed to divert overflow away from fill material or natural material that is an integral part of the dam.
  - C. Incorporate in-place rock or hauled-in rock in spillway and at discharge point below spillway to prevent "down cutting" and "blowout" holes, when possible.
  - D. Construct spillway so there is a minimum of 3 feet of freeboard on the dam.



U. S. DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**RETENTION DAM  
TYPICAL PLAN & SECTION**

DESIGNED _____	RECOMM. _____
DRAWN _____	RECOMM. _____ CHIEF, DIV. OF ENG.
CHECKED _____	APPROVED _____

SCALE NOT TO SCALE

DATE \_\_\_\_\_ SHEET 1 OF 1

DRAWING NO. \_\_\_\_\_

**A Class III Archeological Survey has been conducted by Sagebrush Archeological Consultants. A copy of this report will be submitted to the appropriate agencies by Sagebrush Archeological Consultants.**



**Permitco Incorporated**  
A Petroleum Permitting Company





## 12. SIGNATURE OF APPLICANT(S).

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 the information contained herein, at the time of filing, rests with the applicant(s).

Keith Hickman by Keith  
Signature of Applicant(s)

# UINTAH BASIN DISTRICT HEALTH DEPARTMENT

Reply To:

Uintah County Courthouse, Rm 20, Vernal, UT 84078 - (801) 781-0770   
Duchesne County Courthouse, Box 210, Duchesne, UT 84021 - (801) 738-5370   
Daggett County Courthouse, Box 156, Manila, UT 84046 - (801) 784-3494   
Roosevelt Branch Office, 57 No. 100 East (83-7), Roosevelt, UT 84066 - (801) 722-5085

Joseph B. Shaffer, M.A.  
Director  
Health Officer  
Lorraine Wilson, R.N.  
Nursing Supervisor  
Lowell Card, R.S.  
Environmental Health  
Supervisor  
Carma Preece  
Office Manager

## UINTAH BASIN DISTRICT HEALTH DEPARTMENT

Wastewater Permit Application  
for Drilling Sites

### FOR DEPARTMENT USE ONLY

Permit #: \_\_\_\_\_  
Fee (\$55.00) received \_\_\_\_\_  
Approved: \_\_\_\_\_  
Date: \_\_\_\_\_

Board of Health Members  
LaRae Sadlier  
Thomas Howells  
Alton Moon  
William Durant, M.D.  
Keith Goodspeed  
Ellen Rawlings  
Neal Domgaard  
Richard Jolley, D.D.S.

DRILLING COMPANY Nabors Drilling U.S.A. RESPONSIBLE PARTY Larry Larson  
ADDRESS 2801 Youngfield St., #178, Golden, CO PHONE NUMBER 303/234-1444  
DRILLING FOR PG & E Resources Company  
SITE LOCATION Federal #21-8H, NE NW Sec. 8, T9S - R17E, Duchesne County

APPROXIMATE DATES 8/01/94 TO 01/30/95

SERVICES: POTABLE WATER  YES  NO, SUPPLIER Rocket Sanitation  
CHEMICAL TOILETS  YES  NO, SUPPLIER Rocket Sanitation  
LIVING OR OFFICE UNITS: BUNKHOUSES 0  
MOBILE HOMES 3  
REC. VEHICLES 1

TOTAL UNITS 4  
TOTAL PERSONNEL AT SITE Approx. 8

### WASTEWATER DISPOSAL PROPOSED:

HOLDING TANK AND SCAVENGER PUMPING SERVICE If this system is used, indicate the licensed scavenger employed Rocket Sanitation

SEPTIC TANK AND ABSORPTION SYSTEM If this system is proposed, please supply the following information:  
1. A soil log prepared by a certified engineer or sanitarian using the unified soil classification system at least four feet below the intended absorption system depth.  
2. Indicate the type of absorption system intended  
[ ] Absorption field  
[ ] Seepage trench  
[ ] Seepage pit  
[ ] Absorption bed

OTHER Describe proposal in detail on an attached sheet.

In the space below provide a sketch or drawing of the site indicating:  
1. Location of water supply and plumbing  
2. Location of living units, offices etc.  
3. Proposed wastewater system layout including septic tank or holding tank and absorption system if any.

See rig layouts and topographic maps attached.

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 07/26/94

API NO. ASSIGNED: 43-013-31460

WELL NAME: FEDERAL 21-8H  
OPERATOR: PG & E RESOURCES COMPANY (N0595)

PROPOSED LOCATION:  
NENW 08 - T09S - R17E  
SURFACE: 0634-FNL-2068-FWL  
BOTTOM: 0634-FNL-2068-FWL  
DUCHESNE COUNTY  
MONUMENT BUTTE FIELD (105)

INSPECT LOCATION BY: / /		
TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: FED  
LEASE NUMBER: U-10760

PROPOSED PRODUCING FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

Plat

Bond: Federal  State  Fee   
(Number 4-187011)

Potash (Y/N)

Oil shale (Y/N)

Water permit  
(Number 47-1437)

RDCC Review (Y/N)  
(Date: \_\_\_\_\_)

LOCATION AND SITING:

\_\_\_ R649-2-3. Unit: \_\_\_\_\_

R649-3-2. General.

\_\_\_ R649-3-3. Exception.

\_\_\_ Drilling Unit.  
Board Cause no: \_\_\_\_\_  
Date: \_\_\_\_\_

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

CONFIDENTIAL  
PERIOD  
EXPIRED  
ON 12-17-95

STIPULATIONS: \_\_\_\_\_

\_\_\_\_\_

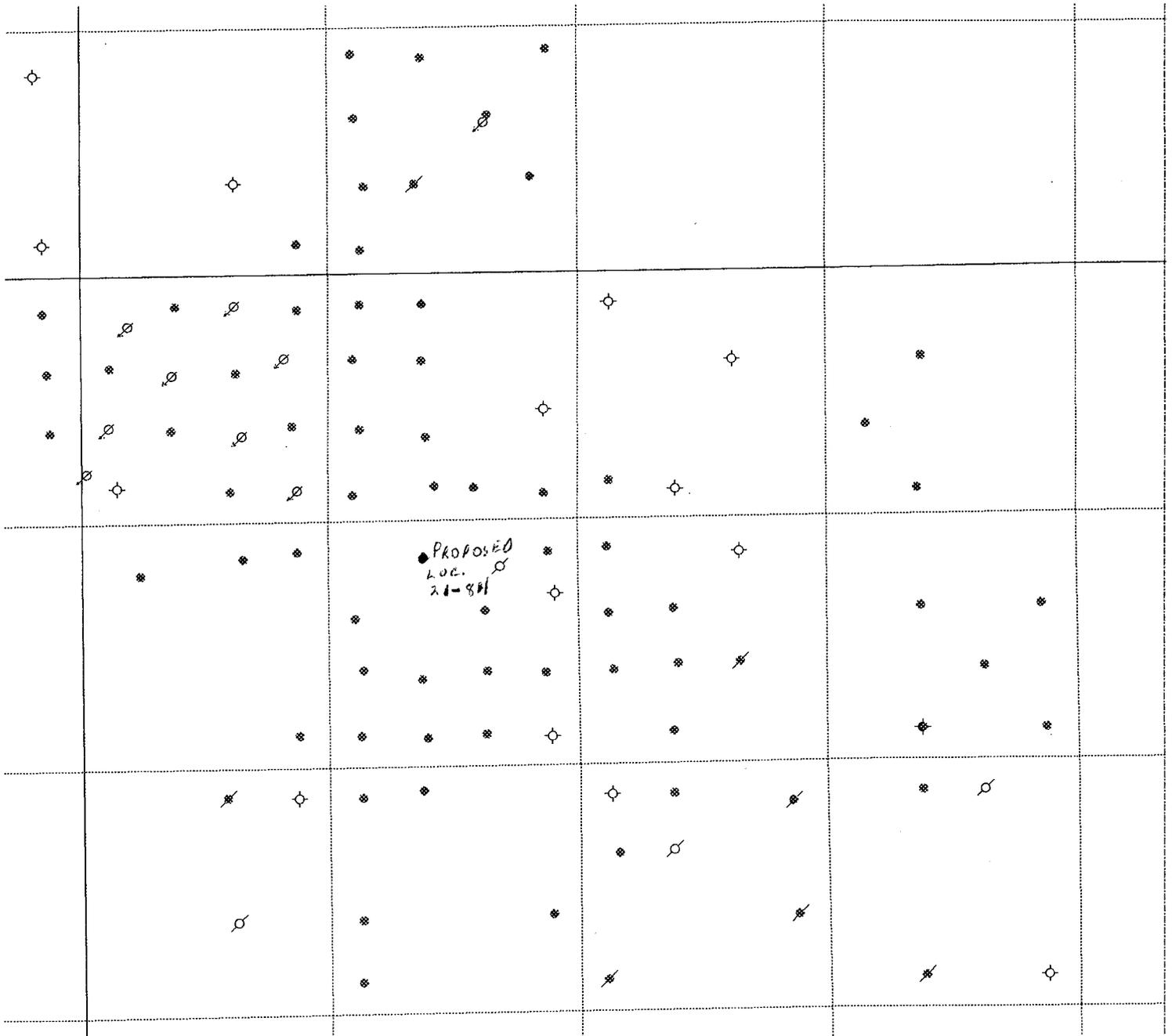
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\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# MONUMENT BUTTE LOCATIONS FOR FEDERAL 21-8H, 22-8H, 14-9H, & 21-9H



STATE OF UTAH

Operator: PG & E RESOURCES CO.	Well Name: FEDERAL 21-8H
Project ID: 43-013-31460	Location: SEC. 08 - T09S - R17E

Design Parameters:

Mud weight ( 8.60 ppg) : 0.447 psi/ft  
 Shut in surface pressure : 2378 psi  
 Internal gradient (burst) : 0.058 psi/ft  
 Annular gradient (burst) : 0.000 psi/ft  
 Tensile load is determined using buoyed weight  
 Service rating is "Sweet"

Design Factors:

Collapse : 1.125  
 Burst : 1.00  
 8 Round : 1.80 (J)  
 Buttress : 1.60 (J)  
 Other : 1.50 (J)  
 Body Yield : 1.50 (B)

Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost		
1	6,125	5.500	17.00	J-55	LT&C	6,125	4.767		
	Collapse Load (psi)	Strgth (psi)	S.F.	Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Tension Load (kips)	Strgth (kips)	S.F.
1	2736	4910	1.794	2736	5320	1.94	90.43	247	2.73 J

Prepared by : FRM, Salt Lake City, UT  
 Date : 09-20-1994  
 Remarks :

Minimum segment length for the 6,125 foot well is 1,000 feet.  
 SICP is based on the ideal gas law, a gas gravity of 0.69, and a mean gas temperature of 105°F (Surface 74°F , BHT 135°F & temp. gradient 1.000°/100 ft.)  
 The mud gradient and bottom hole pressures (for burst) are 0.447 psi/ft and 2,736 psi, respectively.

**NOTE:** The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with evacuated casing), 1.0 - Burst, 1.8 - 8 Round Tension, 1.6 - Buttress Tension, and 1.5 - Body Yield. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser. Costs for this design are based on a 1987 pricing model. (Version 1.06)

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

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

UTAH ACCOUNT NUMBER: N0595

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

REPORT PERIOD (MONTH/YEAR): 8 / 94

AMENDED REPORT  (Highlight Changes)

Well Name API Number      Entity      Location	Producing Zone	Well Status	Days Oper	Production Volumes		
				OIL(BBL)	GAS(MCF)	WATER(BBL)
✓ FEDERAL 7-24B 4304732227 11508 09S 19E 24		✓		✓ U68625	(w. willow creek?)	
✓ FEDERAL 15-24B 4304732420 11509 09S 19E 24	GRRV			✓ U68625	(west willow creek unit)	
✓ FEDERAL 5-24B 4304732447 11585 09S 19E 24	GRRV			✓ U68625	(west willow creek unit)	
✓ Blue Diamond 13-13B 4304732457 99999 9S 19E 13	Op.	✓		✓ FEE	* 10-6-94 Bond updated. (w. willow creek?)	
✓ State 15-14B 4304732450 99999 9S 19E 24	"			✓ ML45243	(w. willow creek)	
✓ Federal 7-19B 4304732479 11632 9S 19E 19	"			✓ U65218		
✓ Federal 2-19 4304732477 99999 9S 19E 19	"			✓ U65218		
✓ State 31-32 4304732500 11645 8S 18E 32	GRRV			✓ ML22058		
✓ Federal 41-29 4304732495 11646 9S 18E 29	GRRV			✓ U19267		
✓ Federal 13-20 4301331445 99999 9S 17E 20	"			✓ U13905	(Rec'd 10-21-94)	
✓ Federal 44-18 4304732498 99999 9S 17E 18	"			✓ U16544		
✓ Federal 22-8H 4301331457 11675 9S 17E 8	"			✓ U10760	"	
✓ Federal 14-9H 4301331459 11677 9S 17E 9	"			✓ U50750		
✓ Federal 21-9H 4301331458 11676 9S 17E 9	"			✓ U50750		
✓ Federal 21-8H 4301331460 99999 9S 17E 8	"			✓ U10760		
✓ State 42-32 4304732473 99999 8S 18E 32	"			✓ ML22058		
COMMENTS: ✓ Federal 23-29 4304732556 99999 9S 18E 29	"			✓ U-19267		
<b>TOTALS</b>						

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

Name and Signature: \_\_\_\_\_ Telephone Number: \_\_\_\_\_

State of Delaware  
Office of the Secretary of State

---

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

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

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



A handwritten signature in cursive script, reading "Edward J. Freel".

Edward J. Freel, Secretary of State

2261176 8100M

944175519

AUTHENTICATION:

7242629

DATE:

09-19-94

**CERTIFICATE OF OWNERSHIP  
AND MERGER**

**MERGING**

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

**INTO**

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

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

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

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

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

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

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

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

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

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

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

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

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

PG&E RESOURCES COMPANY

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



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, 1994

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

Re: Federal #21-8H Well, 634' FNL, 2068' FWL, NE NW, Sec. 8, T. 9 S., R. 17 E.,  
Duchesne 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. Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules.
2. Notification to the Division within 24 hours after drilling operations commence.
3. 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.
4. Submittal of the Report of Water Encountered During Drilling, Form 7.
5. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

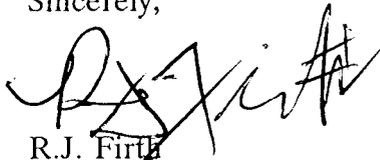


Page 2  
PG & E Resources Company  
Federal #21-8H Well  
September 20, 1994

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 K. Michael Hebertson, Reclamation Specialist, (Home) (801)269-9212.

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 43-013-31460.

Sincerely,



R.J. Firth  
Associate Director

ldc  
Enclosures  
cc: Duchesne County Assessor  
Bureau of Land Management, Vernal District Office  
WOI1

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 SEP 21 1994

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

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

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)

634' FNL & 2068' FWL  
NE/4 NW/4 Section 8, T9S-R17E

5. Lease Designation and Serial No.

U-10760

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

NA

8. Well Name and No.

Federal 21-8H

9. API Well No.

43-013-31460

10. Field and Pool, or Exploratory Area

Pleasant Valley

11. County or Parish, State

Duchesne County, Utah

CONFIDENTIAL

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

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

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log 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 spud the Federal 21-8H on September 13, 1994. 9-5/8" surface casing was run & set @ 352' & cemented as shown on the daily report.

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

Signed Cindy B. Reister Title Supervisor Regulatory Compliance Date 09/15/1994

(This space for Federal or State office use)

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

Conditions of approval, if any:

CC: UTAH DOGM

## WELL HISTORY

**Federal 22-8 H**  
Pleasant Valley Prospect  
Duchesne County, Utah  
(PG&E Resources Operated)

- 09-12-94 Building loc.
- 09-13-94 Drilled 12-1/4" hole to 350' with Bill Jr. Rathole Drilling. Survey .50° at 350'.
- 09-14-94 Run 8 jts 9-5/8", 36#, K-55 csg to 352', cmt with 200 sx Class G mixed at 15.8 ppg with 1.15 yield + .025% Cello Flake + 2% calcium chloride. Circ cmt to surf, bump plug with 400 psi, floats would not hold. WOC. Cut off 9-5/8" csg, weld on 9-5/8" x 11" 3000 starting head, test to 950 psi. Drill rat & mouse holes, make ready to move drilling rig on loc.
- 09-15-94 MIRU. Will break tower today.

**RECEIVED**  
SEP 27 1994  
DIV. OF OIL, GAS & MINING

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

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

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/> <b>PLUG BACK</b> <input type="checkbox"/>	5. LEASE DESIGNATION AND SERIAL NO. <b>U-10760</b>
1b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>	6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>N/A</b>
2. NAME OF OPERATOR <b>PG &amp; E Resources Company</b>	7. UNIT AGREEMENT NAME <b>N/A</b>
3. ADDRESS OF OPERATOR <b>PERMITCO INC. - Agent</b>	8. FARM OR LEASE NAME <b>Federal</b>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At Surface: <b>634' FNL and 2068' FWL</b> At proposed Prod. Zone: <b>NE NW Sec. 8, T9S - R17E</b>	9. WELL NO. <b>#21-8H</b>
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <b>14 miles south of Myton, Utah</b>	10. FIELD AND POOL OR WILDCAT <b>Pleasant Valley</b>
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) <b>634'</b>	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>Sec. 8, T9S - R17E</b>
16. NO. OF ACRES IN LEASE <b>760</b>	12. COUNTY OR PARISH <b>Duchesne</b>
17. NO. OF ACRES ASSIGNED TO THIS WELL <b>40</b>	13. STATE <b>Utah</b>
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT. <b>Approx. 1300'</b>	19. PROPOSED DEPTH <b>6125'</b>
20. ROTARY OR CABLE TOOLS <b>Rotary</b>	21. APPROX. DATE WORK WILL START* <b>August 1, 1994</b>
21. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>5247' GR</b>	

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#	350'	110 cubic feet, circ to surface.
7-7/8"	5-1/2"	17#	6,125'	1000 cubic feet or suffic. to cover zones of interest.

PG & E Resources Company proposes to drill a well to 6125' 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.

**CONFIDENTIAL - TIGHT HOLE**

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 conditions 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 *[Signature]* CONSULTANT FOR: PG & E Resources Co. TITLE PG & E Resources Co. DATE 07/21/94

PERMIT NO. 43-013-31460 APPROVAL DATE SEP 20 1994

APPROVED BY *[Signature]* TITLE ASSISTANT DISTRICT MANAGER MINING DATE SEP 20 1994

CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_

**NOTICE OF APPROVAL**

**RECEIVED**  
JUL 25 1994

cc: Utah Division of Oil, Gas & Mining

\*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.

**CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY**

11+080-4m-131

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: PG & E RESOURCES COMPANY

Well Name & Number: FEDERAL 21-8H

API Number: 43+013-31460

Lease Number: U-10760

Location: NENW Sec. 08 T. 9S R. 17E

**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.

### A. DRILLING PROGRAM

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

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

#### 2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a 3M system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

The Vernal District Office shall be notified, at least 24 hours prior to initiating the pressure tests, in order to have a BLM representative on location during pressure testing.

#### 3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

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, identified at  $\pm$  2789 ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

The Vernal District Office shall be notified at least 24 hours prior to the running and cementing of all casing strings, in order to have a BLM representative on location while running and cementing all casing strings.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

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

5. Coring, Logging and Testing Program

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

A cement bond log (CBL) will need to be run from the production casing shoe to  $\pm 2579$  ft.. The CBL will be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

6. Notifications of Operations

The Vernal District Office shall be notified, during regular work hours (7:45 a.m.-4:30 p.m., Monday through Friday except holidays), at least 24 hours prior to spudding the well.

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

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

Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

7. Other Information

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

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

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

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

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

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

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

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

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

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

Ed Forsman (801) 789-7077  
Petroleum Engineer

Wayne Bankert (801) 789-4170  
Petroleum Engineer

BLM FAX Machine (801) 781-4410

### 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 OPERATION**  
Conditions of Approval (COAs)

Plans for Restoration of Surface

10.e The seed mixture for reclamation work will be a sight specific mixture as recommended by the authorized officer of the BLM at the time of reclamation. Seeding will be performed in the fall after September 15 or until permanent ground freeze. Any other seeding period will require the approval of the authorized officer of the BLM.

Additional Surface Conditions of Approval

The operator or his/her contractor shall contact the BLM office at (801) 789-1362 forty-eight (48) hours prior to construction activities.

The BLM Office shall be notified upon site completion prior to moving on the drilling rig.

Wildlife: No surface disturbing activities are allowed between February 15 and August 15 annually to protect mountain plover, ferruginous hawk, and loggerhead shrike habitat and their reproductive efforts. Adopt the mountain plover management recommendations made in the "Wildlife Surveys on the Monument Butte Oil Field" completed in September 1993 by Utah Division of Wildlife Resources for EREC, Balcron Oil Division.

Paleontology: PG&E or their contractors shall have a professional paleontologist re-examine the locality and test the area of the 42DC192V find to ascertain if there are subsurface elements of the crocodile skull buried. If tests reveals no further remains then the surface fragments are to be collected. If subsurface remains are encountered and the paleontologist determines these remains are worth salvaging, then the salvage will be done prior to well pad construction. A professional paleontologist will also determine if further mammal remains are in the sediments in the area of the access road associated with the 42DC193V find. If additional remains are encountered the onsite paleontologist should determine if this material should be collected. A professional paleontological report must be submitted on any excavated paleontological material found.

If archaeological or additional paleontologic resources are found or uncovered in other areas during ground disturbing activities, PG&E will suspend all operations that would further disturb such materials and immediately contact the BLM Authorized Officer. Workers for PG&E or their contractors will not collect any paleontologic or archaeological materials.

A complete copy of the approved APD and ROW grant, if applicable, shall be on location during construction of the location and drilling activities.

DALEN Resources  
Oil & Gas Co.



October 5, 1994

OCT 11 1994

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

Re: Company Name Change

Dear Ms. Romero:

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

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

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

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

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

Sincerely,

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

Jim Johnson  
Regulatory Analyst

JJ/sw  
Enclosures

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

DALEN Resources  
Oil & Gas Co.



October 18, 1994

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

Re: Company Name Change

Dear Lisha:

In reference to our telephone conversation on October 17, I have enclosed copies of the following Sundry notices you requested.

Federal #13-20	Duchesne Co., Utah
Federal #22-8H	Duchesne Co., Utah
Federal #14-9H	Duchesne Co., Utah
Federal #21-8H	Duchesne Co., Utah
Federal #21-9H	Duchesne Co., Utah
Federal #42-32	Unitah Co., Utah
✓ Federal #32-31	Unitah Co., Utah

If you have any questions or need additional information, please contact me at (214) 706-3678.

Sincerely,

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

Jim Johnson  
Regulatory Analyst

JJ/sw  
Enclosure

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well     Gas Well     Other

2. Name of Operator

DALEN Resources Oil & Gas Co.

3. Address and Telephone No.

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

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

634' FNL & 2068' FWL  
NE/4 NW/4 Section 8, T9S-R17E

5. Lease Designation and Serial No.

U-10760

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

NA

8. Well Name and No.

Federal 21-8H

9. API Well No.

31460  
43-013-30694

10. Field and Pool, or Exploratory Area

Pleasant Valley

11. County or Parish, State

Duchesne County, Utah

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

TYPE OF SUBMISSION

- Notice of Intent
- Subsequent Report
- Final Abandonment

TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other Operator name change
- 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 changed its name to DALEN Resources Oil & Gas Co. effective 10/1/94.

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

Signed *Jim Johnson*

Title Regulatory Analyst

Date 10/11/1994

(This space for Federal or State office use)

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well     Gas Well     Other

2. Name of Operator

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)

634' FNL & 2068' FWL  
NE/4 NW/4 Section 8, T9S-R17E

5. Lease Designation and Serial No.

U-10760

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

NA

8. Well Name and No.

Federal 21-8H

9. API Well No.

43-013-31460

10. Field and Pool, or Exploratory Area

Pleasant Valley

11. County or Parish, State

Duchesne County, Utah

**CONFIDENTIAL**

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

TYPE OF SUBMISSION

TYPE OF ACTION

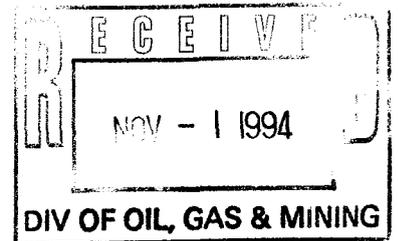
- Notice of Intent
- Subsequent Report
- Final Abandonment

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other Drilling History
- 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.)\*

See attached daily drilling reports.



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

Signed

*Cindy R. Heister*

Title

Supervisor Regulatory Compliance

Date

10/28/1994

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

CC: UTAH DOGM

## WELL HISTORY

**Federal 21-8 H**  
Pleasant Valley Prospect  
Duchesne County, Utah  
(PG&E Resources Operated)

- 10-22-94      MIRU, raise derrick.
- 10-23-94      Drilling 700', day 1, 416'/10 hrs, MW 8.5, Visc 26. Test equip, drill & survey. Survey 1° at 487'.
- 10-24-94      Drilling 1850', day 2, 1150'/21½ hrs, MW 8.5, Visc 26. Drilling & survey.
- 10-25-94      Drilling 2850', day 3, 1000'/20½ hrs, MW 8.5, Visc 26. Repair pump, drill & survey. Survey 1° at 2668'.
- 10-26-94      Drilling 3680', day 4, 830'/23 hrs, MW 8.5, Visc 26. Drill & survey. Survey ¾° at 3218'.
- 10-27-94      Drilling 4312', day 5, 632'/22½ hrs, MW 8.5, Visc 26. Drill & survey. Survey 1¾° at 4240'.
- 10-28-94      Drilling 4719', day 6, 407'/16 hrs, wtr. Trip for bit, drill ahead.

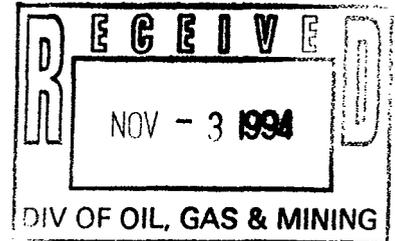
DALEN Resources  
Oil & Gas Co.



October 31, 1994

Kent E. Johnson  
Vice President  
Exploration/Development

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



Re: Name Change  
PG&E Resources Company

Gentlemen:

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

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

Very truly yours,

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

John R. Wingert  
Exploration Manager  
Northern Division

JRW:lkd

OPERATOR PG&E Resources Co.  
DALEN Resources Oil & Gas Co.  
ADDRESS 6688 N. Central Expwy., Suite 1000  
Dallas, TX 75206

OPERATOR ACCT. NO. 10595

Note: Formerly PG&E Resources Company

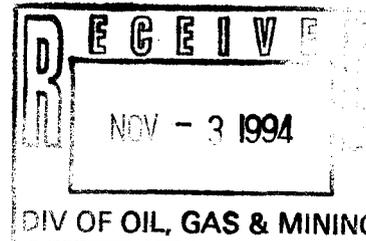
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11687	43-013-31460	Federal 21-8H	NW	8	9S	17E	Duchesne	10/13/94	
WELL 1 COMMENTS: New drilling well. <i>(Oper. Mon chg in Progress)</i> <i>Entity added 11-4-94. Jec</i>											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

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

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

(3/89)



*Cindy R. Keister*  
Signature  
Supvr. Reg. Compliance 11/01/94  
Title Date  
Phone No. (214) 750-3800

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
MAY 7 1994  
BUREAU OF OIL, GAS & MINING

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
 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)  
 634' FNL & 2068' FWL  
 NE/4 NW/4 Section 8, T9S-R17E

5. Lease Designation and Serial No.  
 U-10760

6. If Indian, Allottee or Tribe Name  
 NA

7. If Unit or CA, Agreement Designation  
 NA

8. Well Name and No.  
 Federal 21-8H

9. API Well No.  
 43-013-31460

10. Field and Pool, or Exploratory Area  
 Pleasant Valley

11. County or Parish, State  
 Duchesne County, Utah

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

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

See attached daily drilling reports.

14. I hereby certify that the foregoing is true and correct  
 Signed Cindy B. Keister Title Supervisor Regulatory Compliance Date 11/04/1994

(This space for Federal or State office use)

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

CC: UTAH DOGM

## WELL HISTORY

**Federal 21-8 H**  
Pleasant Valley Prospect  
Duchesne County, Utah  
(PG&E Resources Operated)

- 10-22-94 MIRU, raise derrick.
- 10-23-94 Drilling 700', day 1, 416'/10 hrs, MW 8.5, Visc 26. Test equip, drill & survey. Survey 1° at 487'.
- 10-24-94 Drilling 1850', day 2, 1150'/21½ hrs, MW 8.5, Visc 26. Drilling & survey.
- 10-25-94 Drilling 2850', day 3, 1000'/20½ hrs, MW 8.5, Visc 26. Repair pump, drill & survey. Survey 1° at 2668'.
- 10-26-94 Drilling 3680', day 4, 830'/23 hrs, MW 8.5, Visc 26. Drill & survey. Survey ¾° at 3218'.
- 10-27-94 Drilling 4312', day 5, 632'/22½ hrs, MW 8.5, Visc 26. Drill & survey. Survey 1¾° at 4240'.
- 10-28-94 Drilling 4719', day 6, 407'/16 hrs, wtr. Trip for bit, drill ahead. CC \$99,771.
- 10-29-94 Drilling 5336', day 7, 617'/23 hrs, MW 8.5, Visc 26. Drill & survey. Survey 4° at 5160'.
- 10-30-94 Trip for washout 5838', day 8, 502'/19½ hrs, MW 8.5, Visc 26. Trip for washout at 5629' (washout 13 stds & 1 single). Drill, trip for washout at 5838'.
- 10-31-94 RU to log 6125', day 9, 287'/10½ hrs, MW 8.5, Visc 26. Fin trip for washout (86 jts down), drill, trip for washout (101 jts down). Drill, circ for logs, pump sweep, POOH.
- 11-01-94 Cmt'g 6125', day 10, MW 8.4, Visc 26. Fin logging, TIH with bit, circ for csg. POOH LD DP. RU csg crew, run 151 jts 5½", 17#, L-80, LT&C csg, set at 6125'. RU Dowell/Schlum, circ 150 BW & cmt with 410 sx Hi-Lift mixed at 11.0 ppg with 3.91 yield, 560 sx RFC Class G + 10% D-53 Gypsum mixed at 14.2 ppg with 1.61 yield. Displace with filtered KCl wtr, bump plug with 1920 psi, floats held.
- 11-02-94 Release rig 6125', day 11. Set slips with 80,000 lbs, cut 5½" csg, ND BOPE & clean mud tanks. **RR at 11:00am 11-1. DROP UNTIL COMPLETION.**

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**

**RECEIVED**  
NOV 14 1994  
DIV OF OIL, GAS & MINING

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

SUBMIT IN TRIPLICATE

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
 PG&E Resources Company

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

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)  
 634' FNL & 2068' FWL  
 NE/4 NW/4 Section 8, T9S-R17E

5. Lease Designation and Serial No.

U-10760

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

NA

8. Well Name and No.

Federal 21-8H

9. API Well No.

43-013-31460

10. Field and Pool, or Exploratory Area

Pleasant Valley

11. County or Parish, State

Duchesne County, Utah

**CONFIDENTIAL**

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

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

See attached daily completion reports.

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

Signed Cindy R. Keister Title Supervisor Regulatory Compliance Date 11/11/1994

(This space for Federal or State office use)

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

Conditions of approval, if any:

CC: UTAH DOGM

## WELL HISTORY

**Federal 21-8 H**  
Pleasant Valley Prospect  
Duchesne County, Utah  
(PG&E Resources Operated)

- 11-06-94 Dressing off location to Move in frac equip.
- 11-07-94 Prep to frac. Install BOPE & spot frac tanks.
- 11-08-94 Prep to frac 11-9. Run CBL, PBTD 6071-550', TOC at 800'; good bonding with no press on csg over zones of interest. Perf F-2 Sand at 5470-02' & 5485-90' with 1 SPF; perf F-3 Sand at 5504-30' with 1 SPF.
- 11-09-94 Frac crew delayed due to snow storm.

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**

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5. Lease Designation and Serial No.

U-10760

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

NA

8. Well Name and No.

Federal 21-8H

9. API Well No.

43-013-31460

10. Field and Pool, or Exploratory Area

Pleasant Valley

11. County or Parish, State

Duchesne County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

PG&E Resources Company

3. Address and Telephone No.

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

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

634' FNL & 2068' FWL  
NE/4 NW/4 Section 8, T9S-R17E

**CONFIDENTIAL**

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TYPE OF SUBMISSION	TYPE OF ACTION
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	<input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log from.)</small>

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See attached daily completion reports.

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

Signed Cindy B. Keates Title Supervisor Regulatory Compliance Date 11/18/1994

(This space for Federal or State office use)

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

CC: UTAH DOGM

## WELL HISTORY

### Federal 21-8 H

Pleasant Valley Prospect  
Duchesne County, Utah  
(PG&E Resources Operated)

- 11-06-94 Dressing off location to Move in frac equip.
- 11-07-94 Prep to frac. Install BOPE & spot frac tanks.
- 11-08-94 Prep to frac 11-9. Run CBL, PBDT 6071-550', TOC at 800'; good bonding with no press on csg over zones of interest. Perf F-2 Sand at 5470-02' & 5485-90' with 1 SPF; perf F-3 Sand at 5504-30' with 1 SPF.
- 11-09-94 Frac crew delayed due to snow storm.
- 11-10-94 Acidize down 5½" csg with 1000 gal 7½% HCl + 55 7/8" ball sealers. Frac with 19,000 gals 35# XL Borate gel + 24,000 lbs 16/30 Ottawa sand; tail in with 12,000 lbs 16/30 Sandtrol LC curable sand.
- 11-11-94 Perf E-2 Sand at 5248-52', 5259-64' & 5266-5302' with 1 SPF. Acidize perfs with 1000 gal 7½% HCl acid & 72 7/8" ball sealers. Frac with 19,000 gal 35# XL Borate gel & 24,000 lbs 16/30 Ottawa sand. Tail in with 12,000 lbs 16/30 curable RC sand, ISIP 1897 psi, avg 2400 psi, 50 BPM. RU lubricator, run GR/JB to 5030'. TIH with RBP, set at 5000'. Test BP to 2500 psi. Perf DC-5 Sand at 4736-50', 4847-52' & 4873-79' with 1 SPF.
- 11-12-94 Frac 4736-4879', break down with 1000 gal 7½% HCl acid & 55 7/8" balls sealers. Frac down 5½" csg with 19,000 gal 35# XL Borate gel + 24,000 lbs 16/20 Ottawa sand. Tail in with 12,000 lbs 16/30 curable RC sand, avg 2450 psi, 40 BPM. Flow back 215 bbl frac fluid, 1870 BLWTR.
- 11-13-94 Prep to pull RBP's & run prod equip. Set anchors.
- 11-14-94 PU 2-7/8" tbg to retrieve BP's.
- 11-15-94 PU 2-7/8" tbg, tag sand at 4963', circ off sand to top of RBP at 5000'. TOH with RBP. RU OS & TIH, tag sand at 5337', circ sand off BP to 5370'. Latch plug, TOH 15 stds.
- 11-16-94 TIH with 2-7/8" tbg to PBDT at 5995', displace csg with 3% KCl wtr. LD 13 jts 2-7/8" tbg, set anchor with 15,000 lbs. Run pump & rods.

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

3100  
U-01470A  
(UT-923)

NOV 29 1994

CERTIFIED MAIL---Return Receipt Requested

DECISION

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

Corporate Name Change Recognized

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

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

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

/s/ ROBERT LOPEZ

Chief, Minerals  
Adjudication Section

Enclosure  
Exhibit

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

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

List of Leases Affected

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

U-034217A \*Confirmed BLM 1/5/95  
11-29-94 JLC

UTAH DIVISION OF OIL, GAS AND MINING  
EQUIPMENT INVENTORY

Operator: PG & E RESOURCES COMPANY Lease: State:      Federal: Y Indian:       
Fee:     

Well Name: FEDERAL #21-8H API Number: 43-013-31460  
Section: 08 Township: 09S Range: 17E County: DUCHESNE Field: MONUMENT  
BUTTE  
Well Status: POW Well Type: Oil: Y Gas:     

PRODUCTION LEASE EQUIPMENT: Y CENTRAL BATTERY:     

Y Wellhead      N Boiler(s)      N Compressor      N Separator(s)  
     N Dehydrator(s)      N Shed(s)      Y Line Heater(s)      N Heated  
Separator  
     N VRU      Y Heater Treater(s)

PUMPS:

     Triplex      Chemical      Centrifugal

LIFT METHOD:

Y Pumpjack      Hydraulic      Submersible      Flowing

GAS EQUIPMENT:

     N Gas Meters      Purchase Meter      Sales Meter

TANKS: NUMBER

SIZE

<u>Y</u>	<u>Oil Storage Tank(s)</u>	<u>2-400 OIL TANKS W/BURNERS</u>	
			<u>BBLs</u>
<u>Y</u>	<u>Water Tank(s)</u>	<u>1-100 WATER TANK</u>	
	<u>Power Water Tank</u>		<u>BBLs</u>
	<u>Condensate Tank(s)</u>		<u>BBLs</u>
<u>(1)</u>	<u>Propane Tank</u>		

REMARKS: IS RINNINGON CASING GAS. PROPANE TANK FOR BACKUP. NO SALES  
METERS OR LINE. GLYCOL PUMP FOR TRACE.

Location central battery: Qtr/Qtr:      Section:      Township:       
Range:     

Inspector: DENNIS INGRAM Date: 12/1/94

POE RESOURCES COMPANY

FEDERAL #21-8H

43-013-31460

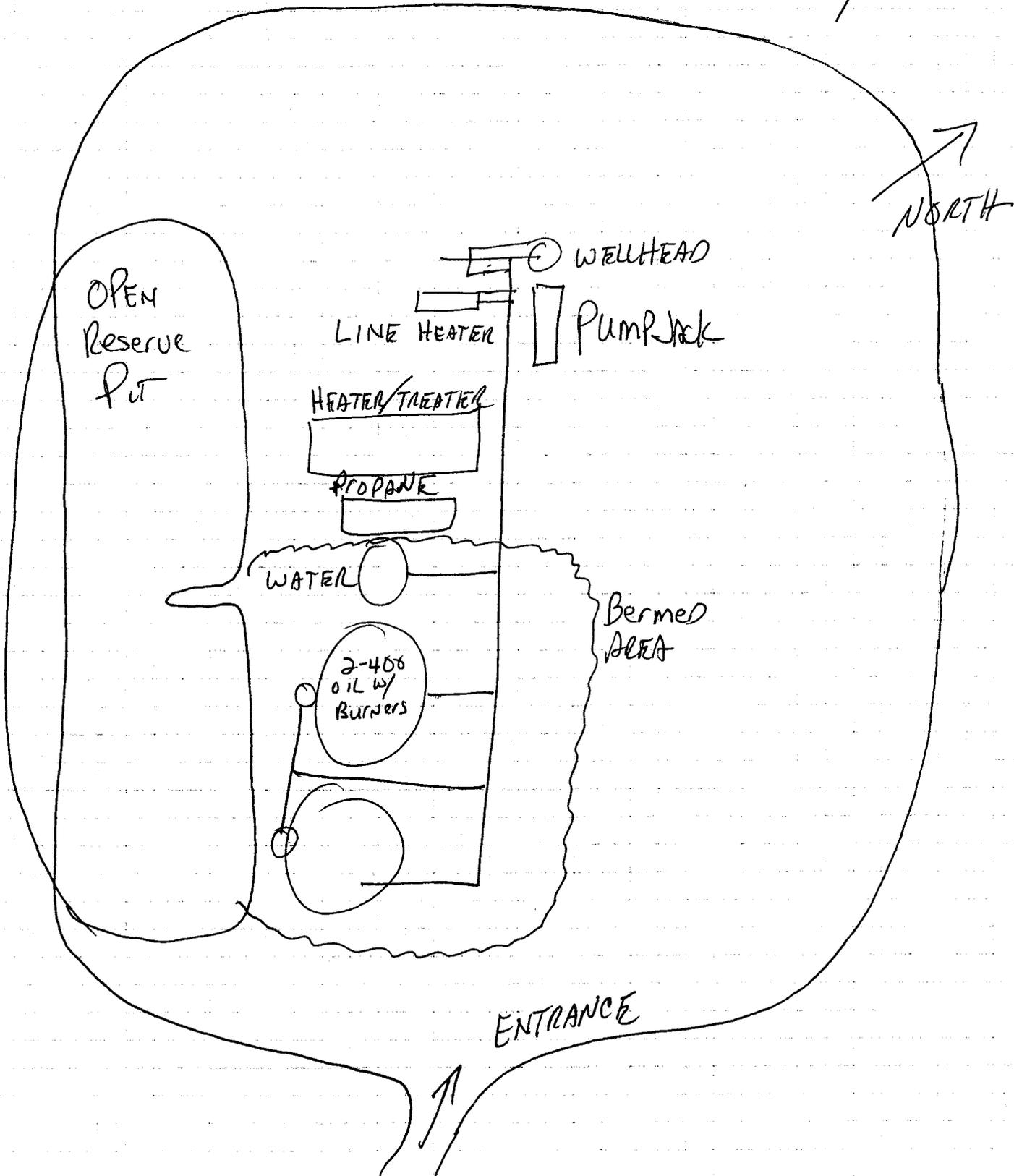
SEC 8 ; T9S ; R17E

U-10760

POW

12/1/94

Sammy Sny



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

Routing:

1	<del>LEC/QLL</del>
2	<del>LWP 7-PL</del>
3	<del>DPZB-SJ</del>
4	<del>VLCV-FILE</del>
5	RJF ✓
6	LWP ✓

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

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

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 10-1-94)

TO (new operator)	<b>DALEN RESOURCES OIL &amp; GAS CO.</b>	FROM (former operator)	<b>PG&amp;E RESOURCES COMPANY</b>
(address)	<b>6688 N CENTRAL EXP STE 1000</b>	(address)	<b>6688 N CENTRAL EXP STE 1000</b>
	<b>DALLAS TX 75206-3922</b>		<b>DALLAS TX 75206-3922</b>
	phone ( 214 ) <b>750-3800</b>		phone ( 214 ) <b>750-3800</b>
	account no. <b>N3300 (11-29-94)</b>		account no. <b>N0595</b>

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

**\*WELLS DRAW (GRRV) UNIT**  
**\*WEST WILLOW CREEK UNIT**

Name: <b>**SEE ATTACHED**</b>	API: <u>01331460</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

- Lee 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Rec'd 10-3-94)*
- Lee 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec'd 10-3-94)*
- Lee 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes) (no) \_\_\_\_ If yes, show company file number: #FN001519. "Dalen Resources Corp." eff. 6-15-94.
- Lee 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- Lee 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(11-29-94)*
- Lee 6. Cardex file has been updated for each well listed above. *12-7-94*
- Lee 7. Well file labels have been updated for each well listed above. *12-8-94*
- Lee 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(11-29-94)*
- Lee 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

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

BOND VERIFICATION (~~Fee wells only~~) *Surety U1870145/80,000 "Rider to Delen" rec'd 10-3-94. # Trust Lead/Ed "Rider" Aprv. 10-5-94 # U2164274/80,000.*

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

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A* 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated \_\_\_\_\_ 19\_\_\_\_, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.

*OTO* 2. Copies of documents have been sent to State Lands for changes involving State leases. *2/8/94 to Ed Bonn*

FILMING

- 1. All attachments to this form have been microfilmed. Date: \_\_\_\_\_ 19\_\_\_\_.

FILING

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

COMMENTS

*941108 Bbm/S.Y. Not aprv. yet!*

*941125 " Aprv.'d.*

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

**RECEIVED**  
SUBMITTED IN DUPLICATE  
(See other instructions on reverse side)  
**JAN 25 1995**

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

**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 **634' FNL & 2068' FWL NE/4 NW/4 Sec. 8**  
 At top prod. interval reported below **Same**  
 At total depth **Same**

14. PERMIT NO. **43-013-31460** DATE ISSUED **09/20/94**  
 12. COUNTY OR PARISH **Duchesne** 13. STATE **Utah**

15. DATE SPUDDED **10/14/94** 16. DATE T.D. REACHED **10/31/94** 17. DATE COMPL. (Ready to prod.) **11/17/94** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* **5260' RKB** 19. ELEV. CASINGHEAD \_\_\_\_\_

20. TOTAL DEPTH, MD & TVD **6125'** 21. PLUG, BACK T.D., MD & TVD **6071'** 22. IF MULTIPLE COMPL., HOW MANY\* \_\_\_\_\_ 23. INTERVALS DRILLED BY \_\_\_\_\_ ROTARY TOOLS **XX** CABLE TOOLS \_\_\_\_\_

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\* **4736' - 5530' Green River** 25. WAS DIRECTIONAL SURVEY MADE **No**

26. TYPE ELECTRIC AND OTHER LOGS RUN **DIL/Spectral Density Dual Spaced Neutron/CBL** 27. WAS WELL CORED **No**

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36#	360'	12-1/4"	200sx Class "G"	0
5-1/2"	17#	6125'	7-7/8"	410sx Hi Lift + 560sx CI "G"	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	5572'	NA

31. PERFORATION RECORD (Interval, size and number)  
**See Attached**

32. ACID, SHOT, FRACTURE, CEMENT  
 DEPTH INTERVAL (MD) \_\_\_\_\_ AMOUNT AND KIND OF MATERIAL USED \_\_\_\_\_  
**See Attached**

33.\* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)	WELL STATUS (Producing or shut-in)					
11/17/94	Pumping 1-3/4" insert	Producing					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BBL.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO
12/03/94	24	NA	112	TSTM	24 BLW	NA	NA
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL--BBL.	GAS--MCF.	WATER--BBL.	OIL GRAVITY-API (CORR.)	
NA		112	TSTM	24 BLW			

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) **Used for fuel.** TEST WITNESSED BY **Randy Miller**

35. LIST OF ATTACHMENTS \_\_\_\_\_

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

SIGNED Cindy R. Keister TITLE **Supervisor Regulatory Compliance** DATE **01/17/1995**

\*(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
				"A" Marker		3922'
				"B" Marker		4167'
				"C" Marker		4393'
				Douglas Creek Marker		4555'
				"D" Marker		4784'
				"E" Marker		4903'
				"F" Marker		5430'
				Basal Limestone		5842'
				Wasatch		6014'

Item No. 31

4736' - 4879'  
28 - 0.45" Holes

5248' - 5302'  
48 - 0.45" Holes

5470' - 5530'  
36 - 0.45" Holes

Item No. 32

1000 gals 7-1/2% HCL + 55 7/8" balls  
19,000 gals 35# XL Borate gel + 24,000# 16/30  
Ottawa sand + 12,000# 16-30 RC sand

1000 gals 7-1/2% HCL + 72 7/8" balls  
19,000 gals 35# XL Borate gel + 24,000# 16-30  
Ottawa sand + 12,000# 16-30 RC sand

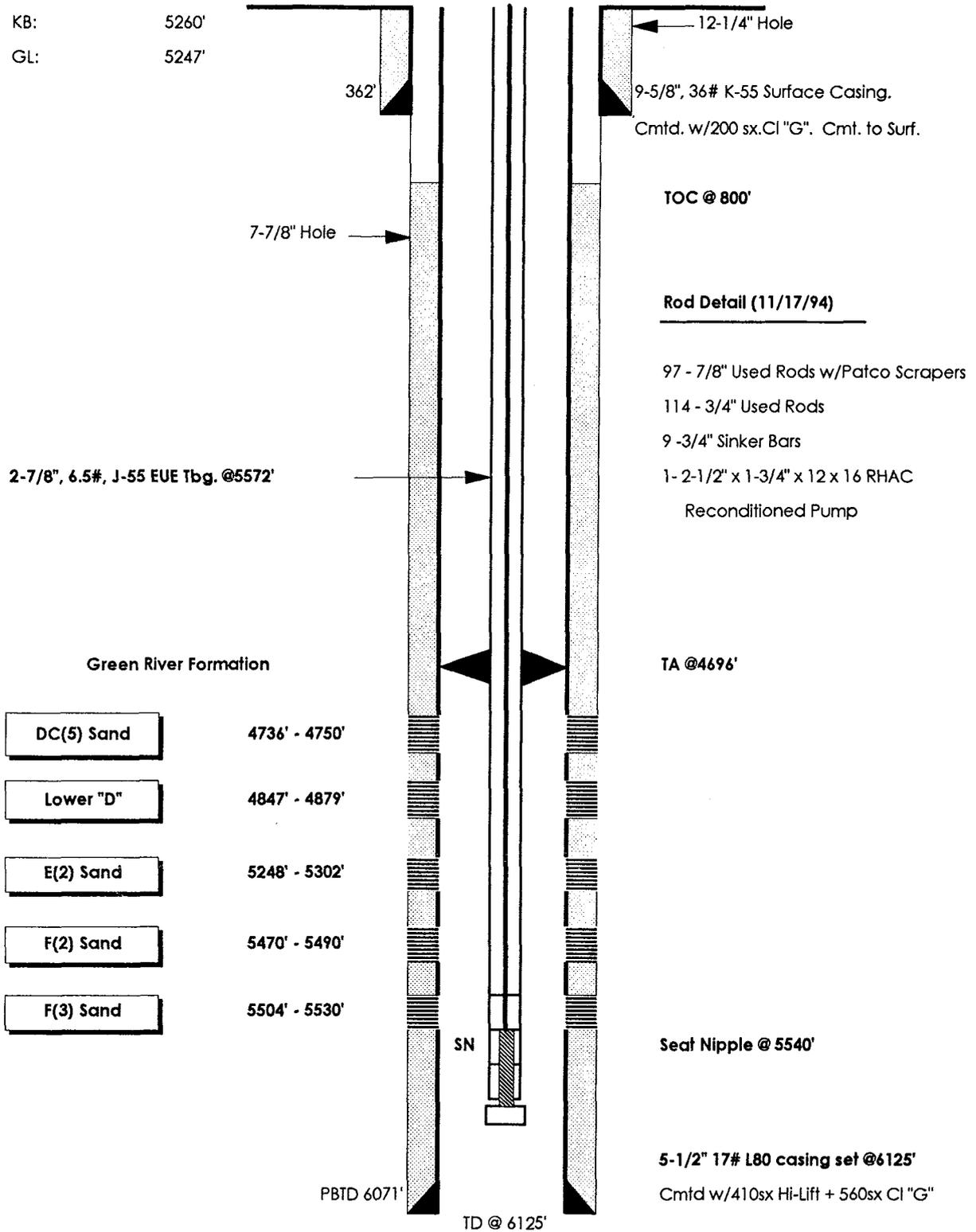
1000 gals 7-1/2% HCL + 55 7/8" ball sealers  
19,000 gals 35# XL Borate gel + 24,000# 16/30  
Ottawa sand + 12,000# 16/30 RC sand

**FEDERAL 21-8H**  
**PLEASANT VALLEY FIELD**  
 Duchesne County, Utah

Spud: 10/14/94  
 TD Date: 10/31/94  
 Compl. Date: 11/17/94

Sec 8-T9S-R17E  
 634' FNL & 2068' FWL  
 NE/4 NW/4

KB: 5260'  
 GL: 5247'





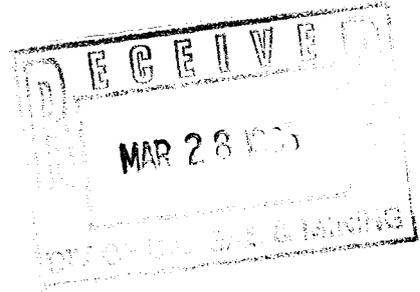
State of Utah  
 DEPARTMENT OF NATURAL RESOURCES  
 DIVISION OF OIL, GAS AND MINING

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)

February 3, 1995

Ms. Cindy R. Keister  
 DALEN Resources Oil & Gas Co.  
 6688 North Central Expressway #1000  
 Dallas, Texas 75206



Re: 095 17E 08 POW  
Federal #21-8H, API No. 43-013-31460  
Submittal of Electric and Radioactivity Logs

*CONF*

Dear Ms. Keister:

We have not received the logs for the referenced well. The Well Completion Report indicates that **DIL/Spectral Density Dual Spaced Neutron/CBL** logs were run. Please submit a copy of these logs to this office as soon as possible.

Your help in this matter will be greatly appreciated. If you have questions regarding this request, please contact me at (801) 538-5340.

Sincerely,

*Vicky Carney*

Vicky Carney  
 Production Group Supervisor

cc: R. J. Firth  
 D. T. Staley  
 L. D. Clement  
 Log File

CEMENT BOND LOG  
 SPECTRAL DENSITY DUAL SPACED NEUTRON LOG  
 DUAL LATEROLOG

*Mailed logs  
 3/24/95*



**ENSERCH  
EXPLORATION** INC

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

January 11, 1996

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

Attention: Mr. Chris Merritt

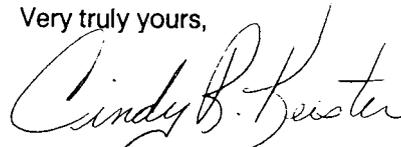
RE: Operator Name Change

Dear Mr. Merritt:

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

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

Very truly yours,



Cindy R. Keister  
Regulatory Compliance Specialist

CRK/ck

Attachments

cc: Vernal BLM Office w/attachments

UTAH WELLS  
ENSERCH EXPLORATION, INC.

1/11/96

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

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

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

FEB 12 1996

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

FEB 09 1996

### NOTICE

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

### Merger Recognized

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

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

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

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

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

**/s/ ROBERT LOPEZ**

Chief, Branch of Mineral  
Leasing Adjudication

### Enclosure

1. Exhibit (1p)

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

## Exhibit of Leases

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

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



# The State of Texas

## SECRETARY OF STATE CERTIFICATE OF MERGER

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

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

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

Dated December 19, 1995.

Effective December 31, 1995 04:55 PM



  
\_\_\_\_\_  
Antonio O. Garza, Jr.  
Secretary of State

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

FILED  
In the Office of the  
Secretary of State of Texas

DEC 19 1995

Corporations Section

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

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

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

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

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

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

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

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

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

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

Dated this 12th day of December, 1995.

ENSERCH EXPLORATION, INC.

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



# The State of Texas

SECRETARY OF STATE

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



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

*2077.*

Antonio O. Garza, Jr.  
Secretary of State

MAC

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

(MERGER)

Routing:

1- LEC / GHS
2- DTS / FILM
3- VLD / FILE
4- RJF
5- LEC
6- SJ

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

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

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

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

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

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

**OPERATOR CHANGE DOCUMENTATION**

- 1 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Rec'd 1-22-96)*
- 2 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec'd 1-22-96)*
- 3 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? *(yes/no)* \_\_\_\_ If yes, show company file number: #171513. *(eff. 1-4-95)*
- 4 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- 5 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(2-12-96)*
- 6 6. Cardex file has been updated for each well listed above. *(2-12-96)*
- 7 7. Well file labels have been updated for each well listed above. *(2-12-96)*
- 8 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(2-12-96)*
- 9 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

**ENTITY REVIEW**

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

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

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

**LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY**

- N/A* 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated                      19    , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested. *OK 2/13/94*
- N/A* 2. Copies of documents have been sent to State Lands for changes involving State leases.

**FILMING**

- KDR* 1. All attachments to this form have been microfilmed. Date: March 13 1994

**FILING**

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

**COMMENTS**

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

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

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

JOHN W PEARCE  
 ENSERCH EXPLORATION INC  
 6688 N CENTRAL EXP #1000  
 DALLAS TX 75206-3922

UTAH ACCOUNT NUMBER: N4940

REPORT PERIOD (MONTH/YEAR): 8 / 97

AMENDED REPORT  (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
FEDERAL 13-33-B			GRRV			U-49092	Wells Draw Unit	
4301331277	11092	08S 16E 33						
FEDERAL 22-5-G			GRRV			U-30096	"	
4301331273	11103	09S 16E 5						
FEDERAL 13-34-B			GRRV			U-47171	"	
4301331271	11104	08S 16E 34						
STATE 31-32			GRRV			ML-22058		
4304732500	11645	08S 18E 32						
FEDERAL 41-29			GRRV			U-19267		
4304732495	11646	09S 18E 29						
FEDERAL 21-9H			GRRV			U-50750	Pleasant Valley Unit	
4301331458	11676	09S 17E 9						
FEDERAL 14-9H			GRRV			U-50750	"	
4301331459	11677	09S 17E 9						
FEDERAL 21-8H			GRRV			U-10760	"	
4301331460	11687	09S 17E 8						
FEDERAL 13-15H			GRRV			U-74805		
4301331698	12100	09S 17E 15						
FEDERAL 14-15H			GRRV			U-74805		
4301331695	12101	09S 17E 15						
FEDERAL 31R-9H (RE-ENTRY)			GRRV			U-50750		
4301331107	12102	09S 17E 9						
<b>TOTALS</b>								

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

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

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

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

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

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. -

*SUBMIT IN TRIPLICATE*

1. Type of Well

Oil Well     Gas Well     Other

2. Name of Operator

Inland Production Company

3. Address and Telephone No.

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

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

634' FNL & 2068' FWL  
NE/4 NW/4 Section 8, T9S-R17E

5. Lease Designation and Serial No.

U-10760

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

Pleasant Valley Unit

8. Well Name and No.

Federal 21-8H

9. API Well No.

43-013-31460

10. Field and Pool, or Exploratory Area

Monument Butte

11. County or Parish, State

Duchesne County, Utah

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

TYPE OF SUBMISSION

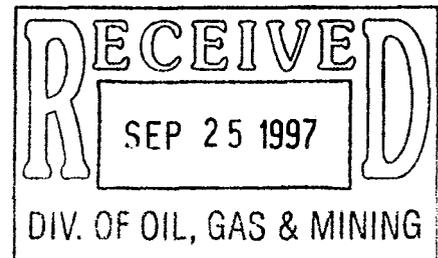
- Notice of Intent
- Subsequent Report
- Final Abandonment

TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other Change of Operator
- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection
- Dispose Water  
(Note: Report results of multiple completion on Well)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

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



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

Signed Chas. B. Potts Title Attorney-In-Fact Date 08/14/1997

(This space for Federal or State office use)

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

Conditions of approval, if any:

CC: UTAH DOGM

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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. -

SUBMIT IN TRIPLICATE

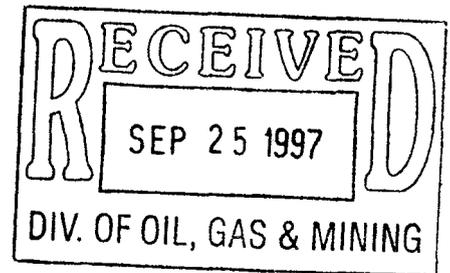
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. U-10760
2. Name of Operator ENSERCH EXPLORATION INC.	6. If Indian, Allottee or Tribe Name NA
3. Address and Telephone No. 4849 Greenville Avenue, Suite 1200, Dallas, Texas 75206-4186 (214) 369-7893	7. If Unit or CA, Agreement Designation Pleasant Valley Unit
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) 634' FNL & 2068' FWL NE/4 NW/4 Section 8, T9S-R17E	8. Well Name and No. Federal 21-8H
	9. API Well No. 43-013-31460
	10. Field and Pool, or Exploratory Area Monument Butte
	11. County or Parish, State Duchesne County, Utah

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

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Enserch Exploration Inc. has sold its interest in the PVU #21-8H Federal to Inland Production Company and relinquishes operations effective August 16, 1997. Inland Production Company operates under BLM Bond No. UT0056.



14. I hereby certify that the foregoing is true and correct  
Signed [Signature] Title Sr. Production Analyst Date 08/14/1997  
(This space for Federal or State office use)

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

Conditions of approval, if any:

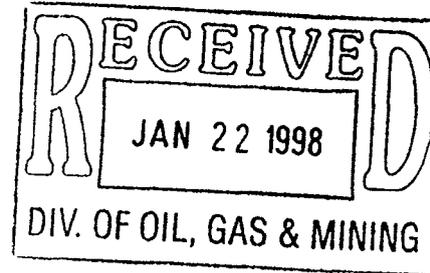
CC: UTAH DOGM



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

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



IN REPLY REFER TO  
UT-931

January 15, 1998

Inland Production Company  
475 17th Street, Suite 1500  
Denver, Colorado 80202

Re: Pleasant Valley (Green River) Unit  
Duchesne County, Utah

Gentlemen:

*Enserch Expl. Inc. /Blm mailing correction 1-22-98.*  
On January 14, 1998, we received an indenture dated September 1, 1997, whereby ~~Equitable Resources Energy Company~~ resigned as Unit Operator and Inland Production Company was designated as Successor Unit Operator for the Pleasant Valley (Green River) Unit, Duchesne County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective January 15, 1998. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under Pleasant Valley (Green River) Unit Agreement.

Your statewide (Utah) oil and gas bond No. 0056 will be used to cover all operations within the Pleasant Valley (Green River) Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks  
Chief, Branch of Fluid Minerals

Enclosure

bcc: District Manager - Vernal (w/enclosure)  
~~Division of Oil, Gas & Mining~~  
Minerals Adjudication Group U-932  
File - Pleasant Valley (Green River) Unit (w/enclosure)  
MMS - Data Management Division  
Agr. Sec. Chron  
Fluid Chron

U-931:TAThompson:tt:1/15/98

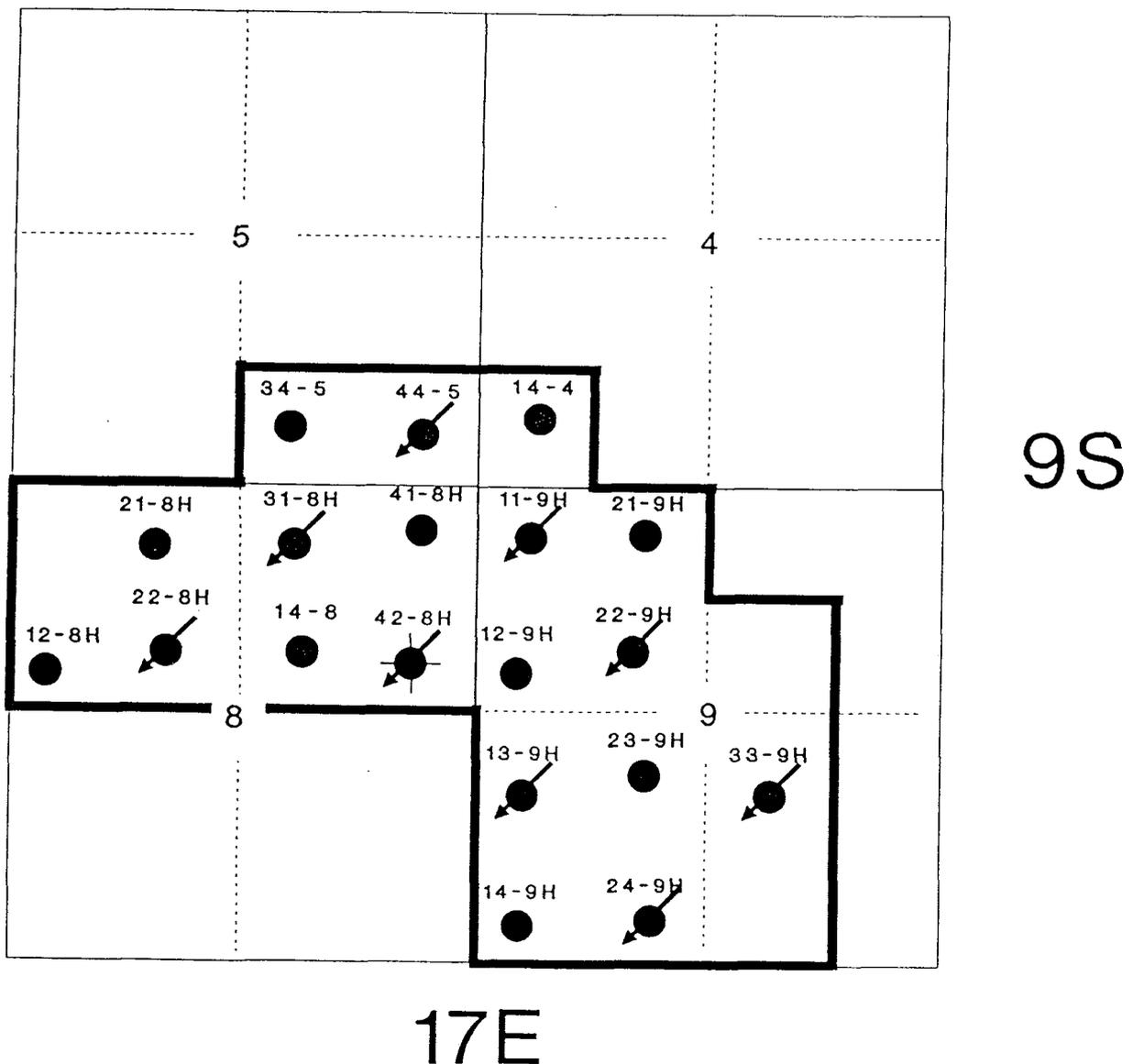
Well Status Report  
Utah State Office  
Bureau of Land Management

Lease	Api Number	Well Name	QTR	Section	Township	Range	Well Status	Operator
** Inspection Item: UTU74477X								
UTU50750	4301330887	11-9-H FEDERAL	NWNW	9	T	9S	R17E WIW	ENSERCH EXPLORATION INC
UTU10760	4301330680	12-8-H FEDERAL-NGC	SWNW	8	T	9S	R17E POW	ENSERCH EXPLORATION INC
UTU50750	4301330983	12-9-H FEDERAL	SWNW	9	T	9S	R17E POW	ENSERCH EXPLORATION INC
UTU50750	4301330656	13-9H FEDERAL	NWSW	9	T	9S	R17E WIW	ENSERCH EXPLORATION INC
UTU7978	4301330671	14-4 PIUTE-FEDERAL	SWSW	4	T	9S	R17E POW	ENSERCH EXPLORATION INC
UTU10760	4301330542	14-8 POMCO	SWNE	8	T	9S	R17E OSI	ENSERCH EXPLORATION INC
UTU50750	4301331459	14-9H	SWSW	9	T	9S	R17E POW	ENSERCH EXPLORATION INC
UTU10760	4301331460	21-8H	NENW	8	T	9S	R17E POW	ENSERCH EXPLORATION INC
UTU50750	4301331458	21-9H	NENW	9	T	9S	R17E POW	ENSERCH EXPLORATION INC
UTU10760	4301331457	22-8H	SENW	8	T	9S	R17E WIW	ENSERCH EXPLORATION INC
UTU50750	4301331049	22-9H FEDERAL NGC	SENW	9	T	9S	R17E WIW	ENSERCH EXPLORATION INC
UTU50750	4301331206	23-9-H FEDERAL	NESW	9	T	9S	R17E POW	ENSERCH EXPLORATION INC
UTU50750	4301330682	24-9-H FEDERAL-NGC	SESW	9	T	9S	R17E WIW	ENSERCH EXPLORATION INC
UTU10760	4301330679	31-8-H NGC	NWNE	8	T	9S	R17E WIW	ENSERCH EXPLORATION INC
UTU61052	4301331108	33-9H FEDERAL	NWSE	9	T	9S	R17E WIW	ENSERCH EXPLORATION INC
UTU72108	4301330721	34-5 ALLEN-FEDERAL	SWSE	5	T	9S	R17E POW	ENSERCH EXPLORATION INC
UTU10760	4301330741	41-8-H NGC-FEDERAL	NENE	8	T	9S	R17E POW	ENSERCH EXPLORATION INC
UTU10760	4301330678	42-8-H NGC	SENE	8	T	9S	R17E ABD	ENSERCH EXPLORATION INC
UTU72108	4301330913	44-5 ALLEN FEDERAL	SESE	5	T	9S	R17E WIW	ENSERCH EXPLORATION INC

# PLEASANT VALLEY (GR) UNIT

## Duchesne County, Utah

EFFECTIVE: SEPTEMBER 1, 1995



— UNIT OUTLINE (UTU74477X)

880.00 ACRES

SECONDARY  
ALLOCATION  
FEDERAL 100.00%

INLAND PRODUCTION COMPANY  
 PLEASANT VALLEY (GRRV) UNIT  
 (N5160)

CURRENT ENTITY	NEW ENTITY	API NUMBER	WELL NO.	SEC-T-R	EFF. DATE
01215	12277	43-013-30671	14-4H	04-09S-17E	09-01-97
02041	"	43-013-30721	34-5H	05-09S-17E	"
06057	"	43-013-30542	32-8H	08-09S-17E	"
06085	"	43-013-30741	41-8H	08-09S-17E	"
06140	"	43-013-30680	12-8H	08-09S-17E	"
09830	"	43-013-30983	12-9-H	09-09S-17E	"
10868	"	43-013-31206	23-9-H	09-09S-17E	"
11676	"	43-013-31458	21-9H	09-09S-17E	"
11677	"	43-013-31459	14-9H	09-09S-17E	"
11687	"	43-013-31460	21-8H	08-09S-17E	"
02044	"	43-013-30913	44-5	05-09S-17E	"
06058	"	43-013-30887	11-9H	09-09S-17E	"
11675	"	43-013-31457	22-8H	08-09S-17E	"
10674	"	43-013-31108	33-9H	09-09S-17E	"
10065	"	43-013-31049	22-9H	09-09S-17E	"
06075	"	43-013-30679	31-8H	08-09S-17E	"
06080	"	43-013-30678	42-8H	08-09S-17E	"
06185	"	43-013-30656	13-9H	09-09S-17E	"
06175	"	43-013-30682	24-9H	09-09S-17E	"

**OPERATOR CHANGE WORKSHEET**

Routing:	
1-LEC ✓	6-LEC ✓
2-GL ✓	7-KAS ✓
3-DTS ✓	8-SI ✓
4-VLD ✓	9-FILE ✓
5-JRB ✓	

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

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

The operator of the well(s) listed below has changed, effective: 8-16-97

<b>TO:</b> (new operator)	<u>INLAND PRODUCTION COMPANY</u>	<b>FROM:</b> (old operator)	<u>ENSERCH EXPLORATION INC</u>
(address)	<u>PO BOX 1446</u>	(address)	<u>6688 N CENTRAL EXP #1000</u>
	<u>ROOSEVELT UT 84066</u>		<u>DALLAS TX 75206-3922</u>
	Phone: <u>(801)722-5103</u>		Phone: <u>(214)987-7859</u>
	Account no. <u>N5160</u>		Account no. <u>N4940</u>

**\*PLEASANT VALLEY (GREEN RIVER) UNIT**

WELL(S) attach additional page if needed:

Name: <b>**SEE ATTACHED**</b>	API: <u>43-013-31460</u>	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

**OPERATOR CHANGE DOCUMENTATION**

- 1 (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form). *(rec'd 9-25-97)*
- 2 (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). *(rec'd 9-25-97)*
- N/A 3. The **Department of Commerce** has been contacted if the new operator above is not currently operating any wells in Utah. Is the company **registered with the state?** (yes/no) \_\_\_\_ If yes, show company file number: \_\_\_\_\_
- 1 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of **Federal and Indian** well operator changes should ordinarily take place prior to the division's approval, and before the completion of **steps 5 through 9** below.
- 1 5. Changes have been entered in the **Oil and Gas Information System** (3270) for each well listed above. *(1-22-98) #UIC Queatro Pro E. DBASE 1-22-98.*
- 1 6. **Cardex** file has been updated for each well listed above. *(1-22-98)*
- 1 7. Well **file labels** have been updated for each well listed above. *(1-22-98)*
- 1 8. Changes have been included on the monthly "Operator, Address, and Account Changes" **memo** for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. *(1-22-98)*
- 1 9. A folder has been set up for the **Operator Change file**, and a copy of this page has been placed there for **reference during routing and processing of the original documents.**

**ENTITY REVIEW**

- See 1. (r649-8-7) **Entity assignments have been reviewed** for all wells listed above. Were entity changes made? (yes/no)      If entity assignments were changed, attach copies of Form 6, Entity Action Form.  
*\* Operator req. that numbers remain as is until further notice. (1-22-98/Kebbie)*
- N/A See 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been **notified** through normal procedures of entity changes.  
*\* All wells to entity 12277 1-30-98 eff. 9-1-97; op. req. E. review.*

**BOND VERIFICATION - (FEE WELLS ONLY)**

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

**LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY**

- N/A 1. Copies of documents have been sent on      to      at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.  
*1/27/98*
- N/A 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated      19     , of their responsibility to notify all interest owners of this change.

**FILMING**

- VB 1. All attachments to this form have been **microfilmed**. Today's date: 3.2.98.

**FILING**

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

**COMMENTS**

980122 BLM/SY Aprv. eff. 1-15-98.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**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 a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.  
**U-10760**

6. If Indian, Allottee or Tribe Name  
**NA**

7. If Unit or CA, Agreement Designation  
**PLEASANT VALLEY**

8. Well Name and No.  
**FEDERAL 21-8H**

9. API Well No.  
**43-013-31460**

10. Field and Pool, or Exploratory Area  
**MONUMENT BUTTE**

11. County or Parish, State  
**DUCHESNE COUNTY, UTAH**

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.  
**475 17TH STREET, SUITE 1500, DENVER, COLORADO 80202 (303) 292-0900**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)  
**0634 FNL 2068 FWL                      NE/NW Section 8, T09S R17E**

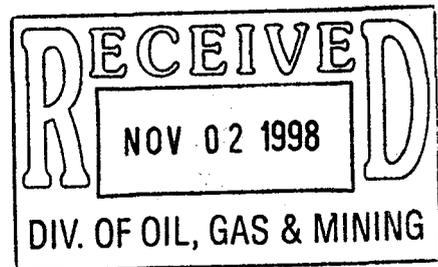
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Attached please find the site security diagram for the above referenced well.



14. I hereby certify that the foregoing is true and correct  
 Signed *Rebbie E. Knight* Title Manager, Regulatory Compliance Date 10/28/98

(This space for Federal or State office use)  
 Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:  
**CC: UTAH DOGM**

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

# Inland Production Company Site Facility Diagram

Pleasant Valley Unit 21-8H

NE/NW Sec. 8, T9S, 17E

Duchesne County

May 12, 1998

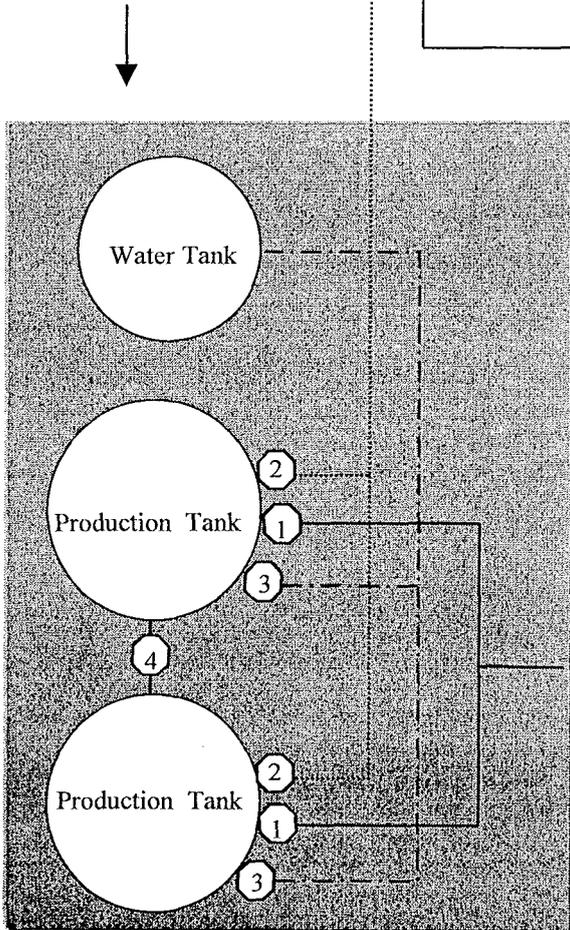
Well Head

Gas Sales Meter

Pumping Unit

Site Security Plan is held at the Roosevelt Office, Roosevelt Utah

Diked Section



### Production Phase:

- 1) Valves 1, and 3 sealed closed
- 2) Valves 2 and 4 sealed open

### Sales Phase:

- 1) Valves 2, 3, and 4 sealed closed
- 2) Valves 1 open

### Draining Phase:

- 1) Valve 3 open

### Legend

Emulsion Line	.....
Load Line	—————
Water Line	- - - - -
Gas Sales	.....

**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 a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.  
**Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)  
**0634 FNL 2068 FWL NE/NW Section 8, T9S R17E**

5. Lease Designation and Serial No.  
**U-10760**

6. If Indian, Allottee or Tribe Name  
**NA**

7. If Unit or CA, Agreement Designation  
**PLEASANT VALLEY**

8. Well Name and No.  
**FEDERAL 21-8H**

9. API Well No.  
**43-013-31460**

10. Field and Pool, or Exploratory Area  
**MONUMENT BUTTE**

11. County or Parish, State  
**DUCHESNE COUNTY, UT**

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

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

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Subject well had recompletion procedures initiated in the Green River formation on 7/12/03. Existing production equipment was pulled from well. A bit and scraper were run in well. Three new Green River intervals were perforated and hydraulically fracture treated as follows: Stage #1: CP4 sands @ 5601'-5610', 5626'-5631', 5653'-5659' (all 4 JSPF) fraced down 2 7/8" N-80 tubing w/ 45,509# 20/40 sand in 368 Bbls Viking I-25 fluid. Stage #2: A1 sands @ 4991'-5002' (4 JSPF) fraced down 2 7/8 N-80 tubing w/ 30,532# 20/40 sand in 161 Bbls Viking I-25 fluid. Stage #3: GB6 sands @ 4122'-4127' (4 JSPF) fraced down 5 1/2 casing w/ 20,840# 20/40 sand in 96 Bbls Viking I-25 fluid. Fracs were flowed back through chokes. Sand was cleaned from wellbore. New intervals were swab tested for sand cleanup. BHA & production tubing were run and anchored in well with tubing anchor @ 5570', pump seating nipple @ 5636', and end of tubing string @ 5703'. A repaired 1 1/2" bore rod pump was run in well on sucker rods. Well returned to production via rod pump on 7/19/03.

**RECEIVED  
JUL 29 2003**

**DIV. OF OIL, GAS & MINING**

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

Signed Matthew Richmond Title Production Clerk Date 7/25/2003

CC: UTAH DOGM

(This space for Federal or State office use)

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

Conditions of approval, if any:



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155  
<http://www.blm.gov>



IN REPLY REFER TO:  
3106  
(UT-924)

September 16, 2004

### Memorandum

To: Vernal Field Office

From: Acting Chief, Branch of Fluid Minerals

Subject: Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Michael Coulthard  
Acting Chief, Branch of  
Fluid Minerals

### Enclosure

1. State of Texas Certificate of Registration

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225  
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114  
Teresa Thompson  
Joe Incardine  
Connie Seare

<b>UTSL-</b>	15855	61052	73088	76561	
071572A	16535	62848	73089	76787	
065914	16539	63073B	73520A	76808	
	16544	63073D	74108	76813	
	17036	63073E	74805	76954	63073X
	17424	63073O	74806	76956	63098A
	18048	64917	74807	77233	68528A
<b>UTU-</b>	18399	64379	74808	77234	72086A
	19267	64380	74389	77235	72613A
02458	26026A	64381	74390	77337	73520X
03563	30096	64805	74391	77338	74477X
03563A	30103	64806	74392	77339	75023X
04493	31260	64917	74393	77357	76189X
05843	33992	65207	74398	77359	76331X
07978	34173	65210	74399	77365	76788X
09803	34346	65635	74400	77369	77098X
017439B	36442	65967	74404	77370	77107X
017985	36846	65969	74405	77546	77236X
017991	38411	65970	74406	77553	77376X
017992	38428	66184	74411	77554	78560X
018073	38429	66185	74805	78022	79485X
019222	38431	66191	74806	79013	79641X
020252	39713	67168	74826	79014	80207X
020252A	39714	67170	74827	79015	81307X
020254	40026	67208	74835	79016	
020255	40652	67549	74868	79017	
020309D	40894	67586	74869	79831	
022684A	41377	67845	74870	79832	
027345	44210	68105	74872	79833	
034217A	44426	68548	74970	79831	
035521	44430	68618	75036	79834	
035521A	45431	69060	75037	80450	
038797	47171	69061	75038	80915	
058149	49092	69744	75039	81000	
063597A	49430	70821	75075		
075174	49950	72103	75078		
096547	50376	72104	75089		
096550	50385	72105	75090		
	50376	72106	75234		
	50750	72107	75238		
10760	51081	72108	76239		
11385	52013	73086	76240		
13905	52018	73087	76241		
15392	58546	73807	76560		



## Office of the Secretary of State

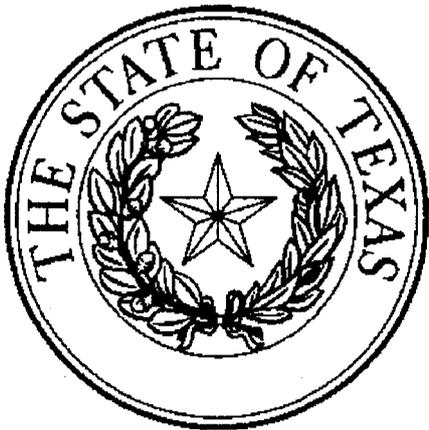
The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company  
Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.



A handwritten signature in black ink, appearing to read "G. Connor".

Secretary of State

ARTICLES OF AMENDMENT  
TO THE  
ARTICLES OF INCORPORATION  
OF  
INLAND PRODUCTION COMPANY

FILED  
In the Office of the  
Secretary of State of Texas  
SEP 02 2004  
Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

“ARTICLE ONE – The name of the corporation is Newfield Production Company.”

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1<sup>st</sup> day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs  
Susan G. Riggs, Treasurer



6a. (R649-9-2)Waste Management Plan has been received on: IN PLACE  
6b. Inspections of LA PA state/fee well sites complete on: waived

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA

8. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: na/

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 2/23/2005

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 2/28/2005  
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 2/28/2005  
3. Bond information entered in RBDMS on: 2/28/2005  
4. Fee/State wells attached to bond in RBDMS on: 2/28/2005  
5. Injection Projects to new operator in RBDMS on: 2/28/2005  
6. Receipt of Acceptance of Drilling Procedures for APD/New on: waived

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: UT 0056

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: 61BSBDH2912

**FEE & STATE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 61BSBDH2919

2. The **FORMER** operator has requested a release of liability from their bond on: n/a\*  
The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

\*Bond rider changed operator name from Inland Production Company to Newfield Production Company - received 2/23/05



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

APR 28 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 to Pleasant Valley Area Permit  
UIC Permit No. UT20771-00000  
Well ID: UT20771-08155  
Federal 21-8H-9-17  
634' FNL & 2068' FWL  
NE NW Sec. 8 T9S-R17E  
Duchesne County, Utah  
API #43-013-31460

Dear Mr. Sundberg:

The Newfield Production Company's request to convert the former Green River Formation oil well Federal 21-8H-9-17 to an enhanced recovery injection well under the Pleasant Valley Area Permit is hereby authorized by the Environmental Protection Agency (EPA) under the terms and conditions described in 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), terms of the Pleasant Valley Area Permit No. UT20771-00000, and subsequent modifications.

Please be aware that Newfield does not have authorization to begin injection operations until all Prior to Commencing Injection requirements have been submitted and evaluated by the EPA and written authorization to begin injection is given by the Director. Please note that the Permit limits injection to the gross interval within the Green River Formation between the depth of 3,590 feet and the top of the Wasatch Formation estimated to be at 5,961 feet.

Prior to receiving authorization to inject, the EPA requires that Newfield submit for review and approval: (1) a complete EPA Form No. 7520-12 (Well Rework Record) with a new schematic diagram, (2) a pore pressure calculation of the injection interval, and (3) the results of a Part I (Internal) Mechanical Integrity Test.

**RECEIVED**  
**MAY 04 2009**  
DIV. OF OIL, GAS & MINING

The initial Maximum Allowable Injection Pressure (MAIP) for the Federal 21-8H-9-17 is 1,850 psig. UIC Area Permit UT20771-00000 allows the permittee to request a change in the MAIP based upon results of a step rate test which demonstrates that the formation breakdown pressure will not be exceeded.

If you have any questions, please call Jason Deardorff at (303) 312-6583 or 1-(800)-227-8917 (Ext. 312-6583). Please submit the required data to Margo Smith at the letterhead address citing mail code 8P-W-GW.

FOR RECORD ONLY

Sincerely,



 Eddie A. Sierra  
Acting Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

Encl: Authorization for Additional Well to Area Permit  
EPA Form No. 7520-12 (Well Rework Record)  
Proposed Wellbore and P&A Schematics for Federal 21-8H-9-17  
Aquifer Exemption for Federal 21-8H-9-17

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

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

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

**UNDERGROUND INJECTION CONTROL  
AQUIFER EXEMPTION  
For  
NEWFIELD PRODUCTION COMPANY'S  
PLEASANT VALLEY AREA PERMIT UT20771-00000**

**FEDERAL 21-8H-9-17  
EPA PERMIT UT20771-08155  
NE NW SECTION 8-T9S-R17E  
DUCHESNE COUNTY, UTAH**

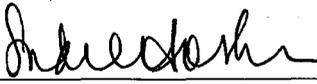
**UINTAH & OURAY INDIAN RESERVATION**

In compliance with provisions of the Safe Drinking Water Act, as amended, (42 USC § 300f-300j-11, commonly known as the SDWA) and attendant regulations incorporated by the U.S. Code of Federal Regulations, the Garden Gulch, Douglas Creek, and Basal Carbonate Members of the Green River Formation, located in the subsurface at approximately 3,590 and 5,961 feet, and within a one-quarter (1/4) mile radius of the Federal No. 21-8H-9-17 well, Duchesne County, Utah is being exempted as an underground source of drinking water (USDW) because:

- (1) The proposed injection zone does not currently serve as a source of drinking water, and
- (2) The proposed injection zone contains commercially producible quantities of hydrocarbons.

This Aquifer Exemption (AE) is granted in conjunction with the Underground Injection Control Pleasant Valley Area Permit, UT20771-00000, issued to Newfield Production Company,

Date: **APR 28 2009**

  
Eddie A. Sierra

\* Acting 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.





**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

**REGION 8**  
**1595 WYNKOOP STREET**  
**DENVER, CO 80202-1129**  
**Phone 800-227-8917**  
**http://www.epa.gov/region08**

**DRAFT AUTHORIZATION FOR ADDITIONAL WELL**

**UIC Area Permit No: UT20771-00000**

The Pleasant Valley UIC Area Permit No. UT20771-00000, effective November 6, 1995, authorizes injection for the purpose of enhanced oil recovery in the Pleasant Valley Field. On April 11, 2008, Newfield Production Company notified the Director concerning the following additional enhanced recovery injection well:

Well Name: **Federal 21-8H-9-17**  
EPA Well ID Number: **UT 20771-08155**  
Location: 634' FNL & 2068' FWL  
NE NW Sec. 8 T9S-R17E  
Duchesne County, Utah  
API #43-013-31460

Pursuant to 40 CFR §144.33, Area UIC Permit No. UT20771-00000 authorizes the permittee to construct and operate, 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. UT20771-00000, 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: **APR 28 2009**

**Eddie A. Sierra**  
\*Acting 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: **Federal 21-8H-9-17**  
EPA Well ID Number: **UT20771-08155**

### Prior to Commencing Injection Operations, the permittee shall submit the following information:

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 for a limited period of 180 days, during which time a **Radioactive Tracer Survey (RTS) is required** to demonstrate no significant upward migration of injection fluids behind the casing from the injection zone. It is intended that a maximum of 180 days of injection will allow the injection zone to adequately pressurize prior to executing the RTS.

**Approved Injection Zone:** Injection is approved between the top of the Garden Gulch Member of the Green River Formation [3,590 feet (KB)] to the top of the Wasatch Formation [5,961 feet (KB)].

**Maximum Allowable Injection Pressure (MAIP):** The initial MAIP is **1,850 psig**, based on the following calculation:

$$\begin{aligned} \text{MAIP} &= [\text{FG} - (0.433)(\text{SG})] * \text{D}, \text{ where} \\ \text{FG} &= 0.77 \text{ psi/foot} \quad \text{SG} = 1.015 \quad \text{D} = \mathbf{5,601 \text{ feet}} \text{ (top perforation depth KB)} \\ \text{MAIP} &= \mathbf{1,850 \text{ psig}} \end{aligned}$$

UIC Area Permit No. UT20771-00000 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). However, cementing records, including the cement bond log, have not satisfactorily demonstrated the presence of adequate cement to prevent the migration of injection fluids behind the casing from the injection zone.

**Well Construction: Tubing and Packer:** 2-7/8" or similar size injection tubing is approved; the packer shall be set at a depth no more than 50 feet above the top perforation.

### Demonstration of Mechanical Integrity:

(1) 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 every five years after the last successful test.

(2) Because the cementing records have not satisfactorily demonstrated the presence of adequate cement to prevent migration of injection fluids behind the casing from the injection zone, a RTS is required to confirm the presence of adequate cement. If the RTS is not run, or if the RTS does not confirm adequate cement, the permittee shall demonstrate Part II (External) Mechanical Integrity pursuant to 40 CFR §146.8(a)(2) using an approved test method such as temperature log, noise log or oxygen activation log, and the demonstration of Part II Mechanical Integrity shall be repeated no less than 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 ft. 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 ft above the top perforation with a minimum of 20 ft cement plug on top of the CIBP.

PLUG NO. 2: Perforate and squeeze cement up the backside of the 5-1/2" casing across the Trona Zone and the Mahogany Bench from approximately 2,734 ft to 2,905 ft (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 171-foot balanced cement plug inside the 5-1/2" casing from approximately 2,734 to 2,905 ft (KB).

PLUG NO. 3: Perforate and squeeze cement up the backside of the 5-1/2" casing across the contact between the Uinta Formation and Green River Formation at 1,268 ft (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 110-foot plug inside the 5-1/2" casing from approximately 1,213-1,323 ft (KB).

PLUG NO. 4: Set a Class "G" cement plug within the 5-1/2" casing to 412 ft and up the 5-1/2" x 8-5/8" casing annulus to the surface.

Cut off surface and 5-1/2" casing at least 4 ft below ground level and set P&A marker; submit Sundry Notices and all necessary data as required by

the EPA and other regulatory agencies.

## **INJECTION WELL-SPECIFIC CONSIDERATIONS**

Well Name: **Federal 21-8H-9-17**  
EPA Well ID Number: **UT20771-08155**

**Underground Sources of Drinking Water (USDWs):** USDWs in the Pleasant Valley Unit 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 158 ft below ground surface in the Federal 21-8H-9-17 well.

**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 comingled formation water from Federal 21-8H-9-17: 6,931 mg/l.

- TDS of Beluga Facility Injection System source water: 13,555.7 mg/l.

The **injectate** is culinary water comingled with produced water at the Beluga Injection Facility. The produced water originates from the Green River Formation and the culinary water is from the Johnson Water District and/or Green River supply lines.

**Aquifer Exemption:** An Aquifer Exemption is required because the TDS of water produced from the proposed injection well is less than 10,000 mg/l.

**Confining Zone:** The Confining Zone, which directly overlies the Garden Gulch Member of the Green River Formation, is approximately 200 feet of shale between the depths of 3,390 ft and 3,590 ft (KB).

**Injection Zone:** The Injection Zone at this well location is approximately 2,371 ft of multiple lenticular sand units interbedded with shale, marlstone and limestone from the top of the Garden Gulch Member at 3,590 feet (KB) to the top of the Wasatch Formation at 5,961 ft (KB). All formation tops are based on correlations to the Newfield Production Federal #1-26-8-17 (UT20702-04671) Type Log.

**Well Construction:** The CBL does not show 80% or greater cement bond in the Confining Zone (3,390 ft to 3,590 ft). Thus, further demonstration that well cement is adequate to prevent significant migration of injection fluids behind casing is required.

**Surface Casing:** 8-5/8" casing is set at 362 ft (KB) in a 12-1/4" hole, using 200 sacks Class G cement, cemented to the surface.

Longstring Casing: 5-1/2" casing is set at 6,125 ft (KB) in a 7-7/8" hole secured with 970 sacks of cement. Total driller depth 6,125 ft. Plugged back total depth is 6,071 ft. EPA calculates top of cement at the surface. Estimated CBL top of cement is 780 ft.

Perforations: Top perforation: 4,122 ft (KB) Bottom perforation: 5,659 ft (KB)

### **AREA OF REVIEW (AOR) WELL REQUIREMENTS**

Three wells that penetrate the confining zone within or proximate to a 1/4 mile radius around the Federal 21-8H-9-17 were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs.

Well: Federal 12-8H-9-17	API: 43-013-31460	SWNW Sec. 8-T9S-R17E
Well: Monument Federal 24-5-9-17	API: 43-013-31375	SESW Sec. 5-T9S-R17E
Well: Pleasant Valley 22-8-9-17	API: 43-013-31457	SENW Sec. 8-T9S-R17E

**Corrective Action Not Required:** The cementing record for Federal 12-8H-9-17 was assessed and the cement across the established areal confining was determined to be adequate to prevent the upward migration of injection fluids from the injection zone. Monument Federal 24-5-9-17 and Pleasant Valley 22-8-9-17 are previously permitted injection wells.

#### **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

*Draft Authorization for Additional Well:* UIC Area Permit UT20771-00000  
*Well:* Federal 21-8H-9-17 EPA Well ID: UT20771-08155

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.



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8**

1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917

**UNDERGROUND INJECTION CONTROL  
AQUIFER EXEMPTION  
For  
NEWFIELD PRODUCTION COMPANY'S  
PLEASANT VALLEY AREA PERMIT UT20771-00000**

**FEDERAL 21-8H-9-17  
EPA PERMIT UT20771-08155  
NE NW SECTION 8-T9S-R17E  
DUCHESNE COUNTY, UTAH**

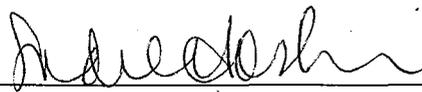
**UINTAH & OURAY INDIAN RESERVATION**

In compliance with provisions of the Safe Drinking Water Act, as amended, (42 USC § 300f-300j-11, commonly known as the SDWA) and attendant regulations incorporated by the U.S. Code of Federal Regulations, the Garden Gulch, Douglas Creek, and Basal Carbonate Members of the Green River Formation, located in the subsurface at approximately 3,590 and 5,961 feet, and within a one-quarter (1/4) mile radius of the Federal No. 21-8H-9-17 well, Duchesne County, Utah is being exempted as an underground source of drinking water (USDW) because:

- (1) The proposed injection zone does not currently serve as a source of drinking water, and
- (2) The proposed injection zone contains commercially producible quantities of hydrocarbons.

This Aquifer Exemption (AE) is granted in conjunction with the Underground Injection Control Pleasant Valley Area Permit, UT20771-00000, issued to Newfield Production Company,

Date: **APR 28 2009**

  
for **Eddie A. Sierra**  
\* Acting 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.



## Federal 21-8H-9-17

Spud Date: 10/14/1994  
 Put on Production: 11/17/1994  
 GL: 5247' KB: 5260'

### Wellbore Diagram

Initial Production: 112 BOPD,  
 GAS TSTM, 24 BWPD

#### SURFACE CASING

CSG SIZE: 9-5/8"  
 GRADE: J-55  
 WEIGHT: 36#  
 LENGTH: 7 jts. (360')  
 DEPTH LANDED: 362'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 200 sacks Class "G" cmt.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 17#  
 LENGTH: 151 jts. (6125')  
 DEPTH LANDED: 6125'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 410 sacks Hi Lift + 560 sacks Class "G" cmt.  
 CEMENT TOP AT: 780' per CBL

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 175 jts (5552.11')  
 TUBING ANCHOR: 5566.11'  
 NO. OF JOINTS: 2 jts (62.93')  
 SEATING NIPPLE: 2-7/8" (1.10")  
 SN LANDED AT: 5631.84' KB  
 NO. OF JOINTS: 2 jt (65.66')  
 TOTAL STRING LENGTH: EOT @ 5699.05' w/14' KB

#### SUCKER RODS

POLISHED ROD: 1-1/2" x 22" SM  
 SUCKER RODS: 1-4" x 7/8" pony rods, 95- 7/8" scraped rods, 125- 3/4" guided rods, 6- 1 1/2" weight bars.  
 PUMP SIZE: 2-1/2" x 1-1/2" x 16" RHAC w/SM Plunger  
 STROKE LENGTH: 74"  
 PUMP SPEED, SPM: 7 SPM

#### FRAC JOB

11/10/94	5470'-5530'	Frac as follows: 1000 gal. 7-1/2% HCL + 55-7/8" ball-sealers. 19,000 gals 35# XL Borate gel + 24,000# 16/30 Ottawa sand + 12,000# 16/30 RC sand.
11/11/94	5248'-5302'	Frac as follows: 1000 gal. 7-1/2% HCL + 72-7/8" ball-sealers. 19,000 gals 35# XL Borate gel + 24,000# 16/30 Ottawa sand + 12,000# 16/30 RC sand. Avg. treating press. 2400 psi @ 50 BPM. ISIP 1897 psi.
11/12/94	4736'-4879'	Frac as follows: 1000 gal. 7-1/2% HCL + 55-7/8" ball-sealers. 19,000 gals 35# XL Borate gel + 24,000# 16/30 Ottawa sand + 12,000# 16/30 RC sand. Avg. treating press. 2450 psi @ 40 BPM.
7/16/03	5601'-5659'	Frac CP sands as follows: 45,509# 20/40 sand in 368 bbls Viking I-25 fluid. Treated @ avg press of 3100 psi w/avg rate of 14.7 BPM. ISIP 1880 psi. Calc flush: 1433 gal. Actual flush: 1317 gal.
7/16/03	4991'-5002'	Frac A1 sands as follows: 30,532# 20/40 sand in 161 bbls Viking I-25 fluid. Treated @ avg press of 3225 psi w/avg rate of 14.4 BPM. ISIP 2120 psi. Calc flush: 1296 gal. Actual flush: 1176 gal.
08/08/01	4122'-4127'	Frac GB6 sands as follows: 20,840# 20/40 sand in 96 bbls Viking I-25 fluid. Treated @ avg press of 2460 psi w/avg rate of 24.6 BPM. ISIP 3400 psi. Calc flush: 4120 gal. Actual flush: 2688 gal. Screened out

Tubing Leak: Updated rod and tubing detail  
 Pump Change: Update rod detail  
 Parted rods: Update rod and tubing detail.  
 Tubing Leak: Updated rod & tubing detail.  
 Tubing Leak: Updated rod and tubing detail

#### PERFORATION RECORD

Date	Depth	SPF	Holes
11/08/94	5504'-5530'	1 SPF	27 holes
11/08/94	5485'-5490'	1 SPF	06 holes
11/08/94	5470'-5472'	1 SPF	03 holes
11/11/94	5266'-5303'	1 SPF	37 holes
11/11/94	5259'-5264'	1 SPF	06 holes
11/11/94	5248'-5252'	1 SPF	05 holes
11/11/94	4873'-4879'	1 SPF	07 holes
11/11/94	4847'-4852'	1 SPF	06 holes
11/11/94	4736'-4750'	1 SPF	15 holes
7/15/03	5653'-5659'	4 JSPF	24 holes
7/15/03	5626'-5631'	4 JSPF	20 holes
7/15/03	5601'-5610'	4 JSPF	36 holes
7/15/03	4991'-5002'	4 JSPF	44 holes
7/15/03	4122'-4127'	4 JSPF	20 holes

Note: Less than 80% bond through confining zone.

Base USPW @ 58'

CZ 3390'  
3590'

Top 1268' Green River

2789' - Tona  
2822'  
2827' - 2850'  
Mahogany Beach

Top 3590' Garden Gulch

4556' Douglas Creek

5460' Castle Peak

5843' Basin Carb.

EOT @ 5699'  
 Top of Fill @ 5977'  
 PBTD @ 6071'  
 SHOE/TD @ 6125'

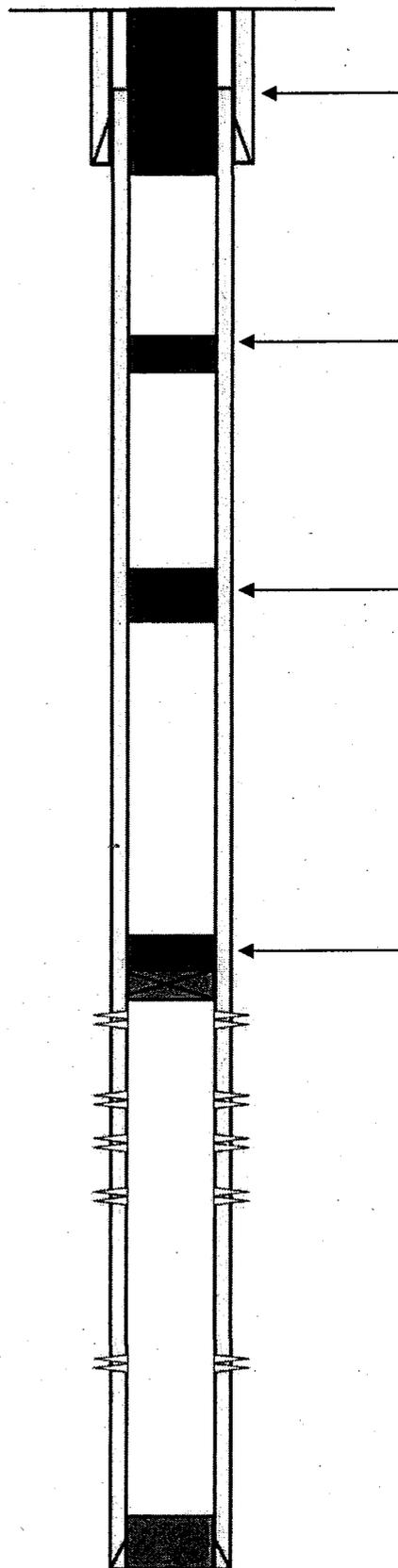
Watch @ 5961'

APR 11 2006

**NEWFIELD**

Federal 21-8H-9-17  
 634' FNL & 2068' FWL  
 NE/NW Section 8-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-31460; Lease #UTU-10760

## Plugging and Abandonment Diagram for Federal 21-8H-9-17



Plug 4: Set a Class "G" cement plug within the 5-1/2" casing beginning at 412 ft and up the 5-1/2" x 8-5/8" 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 at 1,268 ft. (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 110-foot cement plug inside the casing from approximately 1,213-1,323 ft.

Plug 2: Perforate and squeeze cement up the backside of the casing across the Trona Zone and the Mahogany Bench from approximately 2,734 ft. to 2,905 ft. (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 171-foot balanced cement plug inside the casing from approximately 2,734 - 2,905 ft.

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  
REGION 8

1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

JUN 03 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 to Pleasant Valley Area Permit  
**UIC Permit No. UT20771-00000**  
**Well ID: UT20771-08155**  
Federal 21-8H-9-17  
634' FNL & 2068' FWL  
NE NW Sec. 8 T9S-R17E  
Duchesne County, Utah  
API #43-013-31460

Dear Mr. Sundberg:

Enclosed is a replacement Authorization for Additional Well to the Pleasant Valley Area Permit, UIC permit number UT20771-08155. Because an aquifer exemption was required to authorize injection into the Federal 21-8H-9-17 well, the authorization was circulated as a DRAFT during the 30-day public comment period for the aquifer exemption. Following this period, the FINAL Authorization for Additional Well, effective April 28, 2009, was mistakenly issued with the word "draft" in the document title. The enclosed Authorization for Additional Well corrects this mistake.

We apologize for any inconvenience this may have caused. If you have any questions or comments about the enclosed Additional Well Authorization, please contact Jason Deardorff at (800) 227-8917, ext. 312-6583.

Sincerely,

Steven J. Pratt, P.E., CAPM (inactive)  
Director, Ground Water Program

Encl: Additional Well Authorization

**RECEIVED**

**JUN 08 2009**

**DIV. OF OIL, GAS & MINING**

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

Daniel Picard,  
BIA - Uintah & Ouray Indian Agency

FOR RECORD

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: UT20771-00000

The Pleasant Valley UIC Area Permit No. UT20771-00000, effective November 6, 1995, authorizes injection for the purpose of enhanced oil recovery in the Pleasant Valley Field. On April 11, 2008, Newfield Production Company notified the Director concerning the following additional enhanced recovery injection well:

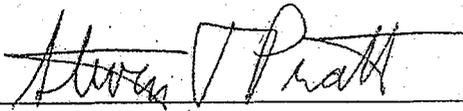
Well Name:	<u>Federal 21-8H-9-17</u>
EPA Well ID Number:	<u>UT 20771-08155</u>
Location:	634' FNL & 2068' FWL NE NW Sec. 8 T9S-R17E Duchesne County, Utah API #43-013-31460

Pursuant to 40 CFR §144.33, Area UIC Permit No. UT20771-00000 authorizes the permittee to construct and operate, 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. UT20771-00000, 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: APR 28 2009

  
for Eddie A. Sierra  
\*Acting 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

Authorization for Additional Well: UIC Area Permit UT20771-00000  
Well: Federal 21-8H-9-17 EPA Well ID: UT20771-08155

## INJECTION WELL-SPECIFIC REQUIREMENTS

Well Name: **Federal 21-8H-9-17**  
EPA Well ID Number: **UT20771-08155**

### Prior to Commencing Injection Operations, the permittee shall submit the following information:

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 for a limited period of 180 days, during which time a **Radioactive Tracer Survey (RTS) is required** to demonstrate no significant upward migration of injection fluids behind the casing from the injection zone. It is intended that a maximum of 180 days of injection will allow the injection zone to adequately pressurize prior to executing the RTS.

**Approved Injection Zone:** Injection is approved between the top of the Garden Gulch Member of the Green River Formation [3,590 feet (KB)] to the top of the Wasatch Formation [5,961 feet (KB)].

**Maximum Allowable Injection Pressure (MAIP):** The initial MAIP is **1,850 psig**, based on the following calculation:

$$\begin{aligned} \text{MAIP} &= [\text{FG} - (0.433)(\text{SG})] * \text{D}, \text{ where} \\ \text{FG} &= 0.77 \text{ psi/feet} \quad \text{SG} = 1.015 \quad \text{D} = \underline{\mathbf{5,601 \text{ feet}}} \text{ (top perforation depth KB)} \\ \text{MAIP} &= \underline{\mathbf{1,850 \text{ psig}}} \end{aligned}$$

UIC Area Permit No. UT20771-00000 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). However, cementing records, including the cement bond log, have not satisfactorily demonstrated the presence of adequate cement to prevent the migration of injection fluids behind the casing from the injection zone.

**Well Construction: Tubing and Packer:** 2-7/8" or similar size injection tubing is approved; the packer shall be set at a depth no more than 50 feet above the top perforation.

### Demonstration of Mechanical Integrity:

(1) 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 every five years after the last successful test.

(2) Because the cementing records have not satisfactorily demonstrated the presence of adequate cement to prevent migration of injection fluids behind the casing from the injection zone, a RTS is required to confirm the presence of adequate cement. If the RTS is not run, or if the RTS does not confirm adequate cement, the permittee shall demonstrate Part II (External) Mechanical Integrity pursuant to 40 CFR §146.8(a)(2) using an approved test method such as temperature log, noise log or oxygen activation log, and the demonstration of Part II Mechanical Integrity shall be repeated no less than 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 ft. 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 ft above the top perforation with a minimum of 20 ft cement plug on top of the CIBP.
- PLUG NO. 2: Perforate and squeeze cement up the backside of the 5-1/2" casing across the Trona Zone and the Mahogany Bench from approximately 2,734 ft to 2,905 ft (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 171-foot balanced cement plug inside the 5-1/2" casing from approximately 2,734 to 2,905 ft (KB).
- PLUG NO. 3: Perforate and squeeze cement up the backside of the 5-1/2" casing across the contact between the Uinta Formation and Green River Formation at 1,268 ft (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 110-foot plug inside the 5-1/2" casing from approximately 1,213-1,323 ft (KB).
- PLUG NO. 4: Set a Class "G" cement plug within the 5-1/2" casing to 412 ft and up the 5-1/2" x 8-5/8" casing annulus to the surface.

Cut off surface and 5-1/2" casing at least 4 ft below ground level and set P&A marker; submit Sundry Notices and all necessary data as required by

the EPA and other regulatory agencies.

## **INJECTION WELL-SPECIFIC CONSIDERATIONS**

Well Name: **Federal 21-8H-9-17**  
EPA Well ID Number: **UT20771-08155**

**Underground Sources of Drinking Water (USDWs):** USDWs in the Pleasant Valley Unit 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 158 ft below ground surface in the Federal 21-8H-9-17 well.

**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 comingled formation water from Federal 21-8H-9-17: 6,931 mg/l.

- TDS of Beluga Facility Injection System source water: 13,555.7 mg/l.

The **injectate** is culinary water comingled with produced water at the Beluga Injection Facility. The produced water originates from the Green River Formation and the culinary water is from the Johnson Water District and/or Green River supply lines.

**Aquifer Exemption:** An Aquifer Exemption is required because the TDS of water produced from the proposed injection well is less than 10,000 mg/l.

**Confining Zone:** The Confining Zone, which directly overlies the Garden Gulch Member of the Green River Formation, is approximately 200 feet of shale between the depths of 3,390 ft and 3,590 ft (KB).

**Injection Zone:** The Injection Zone at this well location is approximately 2,371 ft of multiple lenticular sand units interbedded with shale, marlstone and limestone from the top of the Garden Gulch Member at 3,590 feet (KB) to the top of the Wasatch Formation at 5,961 ft (KB). All formation tops are based on correlations to the Newfield Production Federal #1-26-8-17 (UT20702-04671) Type Log.

**Well Construction:** The CBL does not show 80% or greater cement bond in the Confining Zone (3,390 ft to 3,590 ft). Thus, further demonstration that well cement is adequate to prevent significant migration of injection fluids behind casing is required.

**Surface Casing:** 8-5/8" casing is set at 362 ft (KB) in a 12-1/4" hole, using 200 sacks Class G cement, cemented to the surface.

Longstring Casing: 5-1/2" casing is set at 6,125 ft (KB) in a 7-7/8" hole secured with 970 sacks of cement. Total driller depth 6,125 ft. Plugged back total depth is 6,071 ft. EPA calculates top of cement at the surface. Estimated CBL top of cement is 780 ft.

Perforations: Top perforation: 4,122 ft (KB) Bottom perforation: 5,659 ft (KB)

### AREA OF REVIEW (AOR) WELL REQUIREMENTS

Three wells that penetrate the confining zone within or proximate to a 1/4 mile radius around the Federal 21-8H-9-17 were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs.

Well: Federal 12-8H-9-17	API: 43-013-31460	SWNW Sec. 8-T9S-R17E
Well: Monument Federal 24-5-9-17	API: 43-013-31375	SESW Sec. 5-T9S-R17E
Well: Pleasant Valley 22-8-9-17	API: 43-013-31457	SENW Sec. 8-T9S-R17E

**Corrective Action Not Required:** The cementing record for Federal 12-8H-9-17 was assessed and the cement across the established areal confining was determined to be adequate to prevent the upward migration of injection fluids from the injection zone. Monument Federal 24-5-9-17 and Pleasant Valley 22-8-9-17 are previously permitted injection wells.

#### **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  
*Authorization for Additional Well: UIC Area Permit UT20771-00000*  
*Well: Federal 21-8H-9-17 EPA Well ID: UT20771-08155*

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.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

APR 10 2012

Ref: 8P-W-UIC

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

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

RECEIVED

APR 18 2012

DIV. OF OIL, GAS & MINING

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

RE: Underground Injection Control (UIC)  
Add Well to Pleasant Valley Area Permit  
EPA UIC Permit UT20771-09512  
Well: Federal 21-8H-9-17  
NENW Sec. 8-T9S-R17E  
Duchesne County, Utah  
API No.: 43-013-31460

Dear Mr. Sundberg:

The U.S. Environmental Protection Agency Region 8 hereby authorizes Newfield Production Company (Newfield) to convert the oil well Federal 21-8H-9-17 to an enhanced recovery injection well according to the terms and conditions of the enclosed Authorization for Additional Well. The addition of this 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 the Pleasant Valley Area Permit No. UT20771-00000 and subsequent modifications.

Please be aware that Newfield does not have authorization to begin well injection until all Prior to Commencing Injection requirements are met and written authorization to inject is given by the Director. Prior to receiving authorization to inject, Newfield must submit for review and approval (1) the results of a Part I (internal) Mechanical Integrity test, (2) a pore pressure calculation of the injection interval and (3) a completed EPA Form No. 7520-12 (Well Rework Record) with a new schematic diagram.

If you have any questions, please call Emmett Schmitz at (303) 312-6174 or (800) 227-8917, extension 312-6174. Please submit the required data to Jason Deardorff at the letterhead address citing mail code 8P-W-UIC.

Sincerely,



Callie A. Videtich  
Acting Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

Enclosures: Authorization for Additional Well  
Conversion Wellbore Schematic for Federal 21-8H-9-17

cc: Letter Only:

Uintah & Ouray Business Committee:

Irene Cuch, Chairman  
Ronald Wopsock, Vice-Chairman  
Frances Poowegup, Councilwoman  
Phillip Chimburas, Councilman  
Stewart Pike, Councilman  
Richard Jenks, Jr., Councilman

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

cc: All Enclosures:

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

Manual Myore  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Brad Hill  
Acting Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Reed Durfey  
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 UT20771-00000**

The Pleasant Valley Final UIC Area Permit UT20771-00000, effective November 6, 1995, authorizes injection for the purpose of enhanced oil recovery in the Monument Butte Field. On February 17, 2012, Newfield Production Company notified the Director concerning the following additional enhanced recovery injection well:

Well Name: Federal 21-8H-9-17  
EPA Permit ID Number: UT20771-09512  
Location: 634' FNL & 2068' FWL  
NENW Sec. 8-T9S-R17E  
Duchesne County, Utah  
API #43-013-31460

Pursuant to 40 CFR §144.33, Area UIC Permit UT20771-00000 authorizes the permittee to construct and operate, 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. UT20771-00000, 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: \_\_\_\_\_

*Handwritten date: 4/10/12*

*Handwritten signature of Callie A. Videtich*



**Callie A. Videtich**  
\*Acting 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: Federal 21-8H-9-17  
EPA Well ID Number: UT20771-09512

### **Prior to Commencing Injection Operations, the permittee shall submit the following information:**

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

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

Note: All depths given in this authorization reference the Kelly Bushing datum unless otherwise specified.

**Approved Injection Interval:** The injection interval is the part of the injection zone where fluids are directly emplaced. The approved injection interval for this well is from the top of the Garden Gulch Sand #2 to the top of the Wasatch Formation. Additional injection perforations may be added provided that they remain within the approved injection interval. Injection between the outermost casing protecting USDWs and the well bore is prohibited.

**Maximum Allowable Injection Pressure (MAIP):** The initial MAIP is 1,690 psig based on the calculation  $MAIP = [FG - (0.433)(SG)] * D$ , where "FG" is the fracture gradient, "SG" is the specific gravity of injectate and "D" is the Kelly Bushing depth to the shallowest casing perforation. For this well, FG is 0.85 psi/ft, SG is 1.015 and D is 4,122 ft.

UIC Area Permit No. UT20771-00000 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 parting pressure.

**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).

Cementing records, including the cement bond log, have satisfactorily demonstrated the presence of adequate cement to prevent the migration of injection fluids behind the casing from the injection zone.

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

**Demonstration of Mechanical Integrity:**

- (1) 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 every five years after the last successful test.
- (2) EPA reviewed the cementing records and determined the cement will provide an effective barrier to significant upward movement of fluids through vertical channels adjacent to the well bore pursuant to 40 CFR §146.8 (a)(2). Therefore, further demonstration of Part II (external) Mechanical Integrity is not required at this time.

**Demonstration of Financial Responsibility:** The applicant has demonstrated financial responsibility by a Surety Bond in the amount of \$42,000 and a Standby Trust Agreement that have been approved by 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 Underground Sources of Drinking Water (USDW). 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 ft. 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:

- (1) Isolate the injection zone: Remove down hole apparatus from the well and perform necessary clean out; displace well fluid with plugging gel. Set a cast iron bridge plug (CIBP) within the innermost casing string no more than 50 ft. above the top perforation with a minimum of 20 ft. cement plug on top of the CIBP.
- (2) Isolate the Trona-Bird's Nest water zone and Mahogany Oil Shale: Perforate and squeeze cement up the backside of the outermost casing string across the Mahogany Oil Shale and Trona-Bird's Nest water zone, from at least 55 ft. above the top of the Trona-Bird's Nest to at least 55 ft. below the base of Mahogany Oil Shale, unless there is existing cement across this interval.

(3) Isolate the Uinta Formation from the Green River Formation: Perforate and squeeze a minimum of 110 ft. cement up the backside of the outermost casing string to isolate the contact between the Uinta Formation and the Green River Formation, unless there is existing cement across this interval. Set a minimum 110 ft. cement plug in the innermost casing string, centered on the contact between the Green River Formation and Uinta Formation.

(4) Isolate Surface Fluid Migration Paths:

- a. If the depth of the lowermost USDW is above the base of surface casing, perforate the outermost casing string 50 ft. below the base of surface casing and circulate cement to the surface, unless there is existing cement across this interval; OR
- b. If the depth of the lowermost USDW is below the base of surface casing, perforate the outermost casing string 50 ft. below the base of the lowermost USDW and circulate cement to surface; AND
- c. Set a cement plug inside the innermost casing string from 50 ft. below the base of the surface casing to surface.

### **INJECTION WELL-SPECIFIC CONSIDERATIONS**

Well Name: Federal 21-8H-9-17  
EPA Well ID Number: UT20771-0-9512

**Underground Sources of Drinking Water (USDWs):** USDWs in the Pleasant Valley 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 250 ft. below ground surface in the Federal 21-8H-9-17 well. Water samples from the Green River Formation taken in conjunction with oil production show that USDWs do occur at deeper depths within the Humpback unit and as deep as 6,026 ft. in the Balcron Monument Federal 33-25-8-17 well. Freshening of the injection zone due to the injection of relatively fresh water for the purpose of enhanced oil recovery has been demonstrated to be occurring in parts of the Monument Butte Field, including this permit area.

**http:NRWRT1.NR.STATE.UT.US:** According to the state of Utah, any water wells present within the permit area are shallow and do not intersect the injection zone.

**Composition of Source, Formation, and Injectate Water:** A water sample analysis was not required as part of the application to add this well to the area permit because EPA considers the water quality of the injection zone to be well documented. Area UIC Permit UT20771-00000 and Statement of Basis describe originally in place formation fluid within the injection zone to be greater than 10,000 mg/l Total Dissolved Solids (TDS) content. However, due to injection of relatively fresh water for the purpose of enhanced oil recovery within the permit area, produced

*Authorization for Additional Well: UIC Area Permit UT20771-00000  
Well: Federal 21-8H-9-17 EPA Well ID: UT20771-09512*

water samples showing TDS values less than 10,000 mg/l have occurred and this occurrence has been observed to increase in frequency with time. Newfield has demonstrated and EPA has confirmed that freshening of the injection zone is occurring and that more recent water samples showing TDS values less than 10,000 mg/l are not likely representative of the original formation fluid at or near this well. EPA considers the presence of waters less than 10,000 mg/l within the injection zone to be a temporary, artificial condition and therefore does not require an aquifer exemption to allow injection to occur.

The injectate is water from a Monument Butte Field Injection Facility and consists of culinary water from the Johnson Water District and/or water from the Green River, blended with produced Green River Formation water and resulting in TDS content less than 10,000 mg/l.

**Confining Zone:** A *Confining Zone* is a geological formation, group of formations, or part of a formation that is capable of limiting fluid movement above an injection zone. The designated Confining Zone for this well consists of three interbedded, thick impervious shales, confining marlstones and siltstones. The Confining Zone extends from approximately 200 feet above the Garden Gulch Marker to the top of the Garden Gulch Number 2 Sand within the Garden Gulch Member of the Green River Formation. This interval is found between the depths of 3,970 feet to 4,466 feet in the Federal 1-26-8-17 Type Gamma Log for the Monument Butte Field.

**Injection Zone:** An *injection zone* is a geological formation, group of formations, or part of a formation that receives fluids through a well. The Injection Zone for this well consists of the lower part of the Garden Gulch member starting at the top of the Garden Gulch #2 Sand and includes the Douglas Creek and Basal Carbonate members of the Green River Formation to the top of the Wasatch Formation.

**Well Construction:** This well was constructed according to BLM requirements and controls for production wells at the time of well completion. EPA has reviewed and approved the construction and determined that it is adequate to protect USDWs.

**Surface Casing:** 8-5/8" casing is set at 362 ft. in a 12-1/4" hole, using 200 sacks Class "G" cement, cemented to the surface.

**Longstring Casing:** 5-1/2" casing is set at 6,125 ft. in a 7-7/8" hole secured with 970 sacks of cement. Total driller depth is 6,125 ft. Plugged back total depth is 6,071 ft. EPA calculates top of cement to surface. Estimated CBL top of cement is 780 ft.

**Perforations:** Top perforation: 4,122 ft.                      Bottom perforation: 5,659 ft.



**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:

- 1) Any monitoring or other information which indicates that any contaminant may cause an endangerment to an underground source of drinking water.
- 2) 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 weeks of the time such information became known.

# Federal 21-8H-9-17

Spud Date: 10/14/1994  
 Put on Production: 11/17/1994  
 GL: 5247' KB: 5260'

Initial Production: 112 BOPD,  
 GAS TSTM, 24 BWPD

## Proposed Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 9-5/8"  
 GRADE: J-55  
 WEIGHT: 36#  
 LENGTH: 7 jts. (360')  
 DEPTH LANDED: 362'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 200 sacks Class "G" cmt.

### PRODUCTION CASING

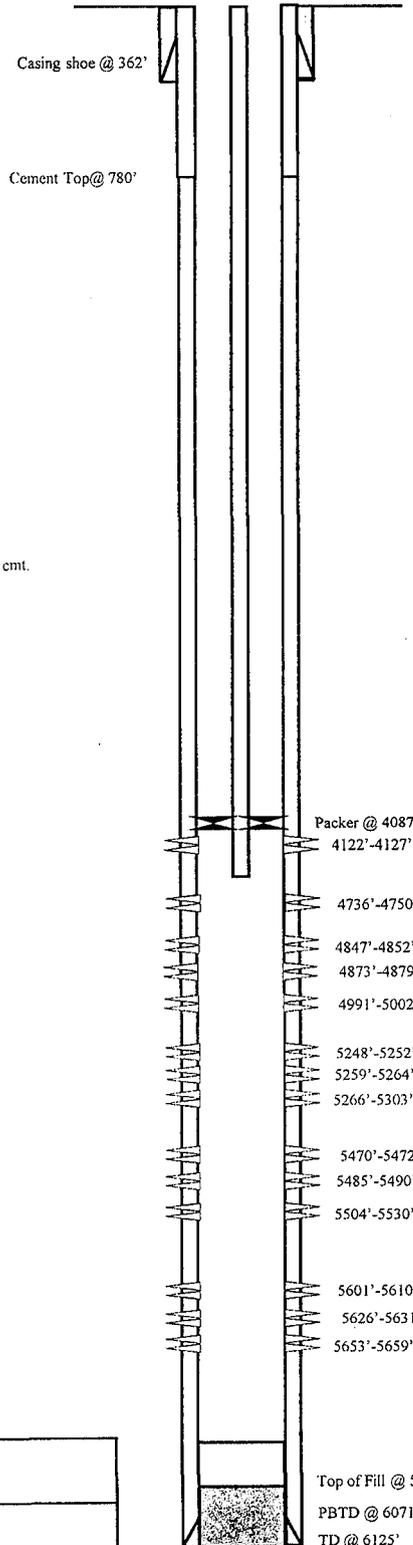
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 17#  
 LENGTH: 151 jts. (6125')  
 DEPTH LANDED: 6125'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 410 sacks Hi Lift + 560 sacks Class "G" cmt.  
 CEMENT TOP AT: 780' per CBI.

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 175 jts (5552.11')  
 TUBING ANCHOR: 5566.11'  
 NO. OF JOINTS: 2 jts (62.93')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5631.84' KB  
 NO. OF JOINTS: 2 jt (65.66')  
 TOTAL STRING LENGTH: EOT @ 5699.05' w/14' KB

### FRAC JOB

11/10/94	5470'-5530'	<b>Frac as follows:</b> 1000 gal. 7-1/2% HCL + 55-7/8" ball-sealers. 19,000 gals 35# XL Borate gel + 24,000# 16/30 Ottawa sand + 12,000# 16/30 RC sand.
11/11/94	5248'-5302'	<b>Frac as follows:</b> 1000 gal. 7-1/2% HCL + 72-7/8" ball-sealers. 19,000 gals 35# XL Borate gel + 24,000# 16/30 Ottawa sand + 12,000# 16/30 RC sand. Avg. treating press. 2400 psi @ 50 BPM. ISIP 1897 psi.
11/12/94	4736'-4879'	<b>Frac as follows:</b> 1000 gal. 7-1/2% HCL + 55-7/8" ball-sealers. 19,000 gals 35# XL Borate gel + 24,000# 16/30 Ottawa sand + 12,000# 16/30 RC sand. Avg. treating press. 2450 psi @ 40 BPM.
7/16/03	5601'-5659'	<b>Frac CP sands as follows:</b> 45,509# 20/40 sand in 368 bbls Viking I-25 fluid. Treated @ avg press of 3100 psi w/avg rate of 14.7 BPM. ISIP 1880 psi. Calc flush: 1433 gal. Actual flush: 1317 gal.
7/16/03	4991'-5002'	<b>Frac A1 sands as follows:</b> 30,532# 20/40 sand in 161 bbls Viking I-25 fluid. Treated @ avg press of 3225 psi w/avg rate of 14.4 BPM. ISIP 2120 psi. Calc flush: 1296 gal. Actual flush: 1176 gal.
7/16/03	4122'-4127'	<b>Frac GB6 sands as follows:</b> 20,840# 20/40 sand in 96 bbls Viking I-25 fluid. Treated @ avg press of 2460 psi w/avg rate of 24.6 BPM. ISIP 3400 psi. Calc flush: 4120 gal. Actual flush: 2688 gal. Screened out.
08/08/01		<b>Tubing Leak:</b> Updated rod and tubing detail.
01/12/05		<b>Pump Change:</b> Update rod detail.
11/08/05		<b>Parted rods:</b> Update rod and tubing detail.
06/23/06		<b>Tubing Leak:</b> Updated rod & tubing detail.
03/13/07		<b>Tubing Leak:</b> Updated rod and tubing detail.



### PERFORATION RECORD

Date	Depth Range	SPF	Holes
11/08/94	5504'-5530'	1 SPF	27 holes
11/08/94	5485'-5490'	1 SPF	06 holes
11/08/94	5470'-5472'	1 SPF	03 holes
11/11/94	5266'-5303'	1 SPF	37 holes
11/11/94	5259'-5264'	1 SPF	06 holes
11/11/94	5248'-5252'	1 SPF	05 holes
11/11/94	4873'-4879'	1 SPF	07 holes
11/11/94	4847'-4852'	1 SPF	06 holes
11/11/94	4736'-4750'	1 SPF	15 holes
7/15/03	5653'-5659'	4 JSPF	24 holes
7/15/03	5626'-5631'	4 JSPF	20 holes
7/15/03	5601'-5610'	4 JSPF	36 holes
7/15/03	4991'-5002'	4 JSPF	44 holes
7/15/03	4122'-4127'	4 JSPF	20 holes

**NEWFIELD**

Federal 21-8H-9-17  
 634' FNL & 2068' FWL  
 NE/NW Section 8-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-31460; Lease #UTU-10760

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-10760
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Water Injection Well		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>8. WELL NAME and NUMBER:</b> FEDERAL 21-8H
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>9. API NUMBER:</b> 43013314600000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0634 FNL 2068 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENW Section: 08 Township: 09.0S Range: 17.0E Meridian: S		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/7/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

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

The above reference well was put on injection at 8:15 AM on  
05/07/2014. EPA # UT22197-10339

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**  
May 14, 2014

<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/8/2014	



April 10, 2014

Mr. Jason Deardorff  
US EPA Region 8  
8P-W- UIC  
1595 Wynkoop Street  
Denver CO 80202

RE: Injection Conversion  
Well: **Federal 21-8H-9-17**  
EPA #: UT22197-10339  
API #: 43-013-31460

Dear Mr. Deardorff:

8 95 17E

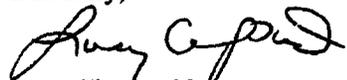
The subject well was converted from a producing oil well to a water injection well. Attached are the EPA Form 7520-12, an updated wellbore diagram, MIT Pressure Test, a copy of the chart, and Daily Activity report.

The shallowest perforation for this well is **4122'**. The Fracture Gradient for this well is **0.8625**. The MAIP for this well has been calculated to be  $1740 - \text{MAIP} = [\text{FG} - (0.433) (\text{SG})] * \text{Depth}$ .

The GG2 @ (3892') in the 21-8H-9-17 well has a calculated pore pressure of **1751.4 psia**. This is calculated using a pore pressure gradient of 0.45 psi/ft. ( $0.45 \text{ psi/ft} \times 3892' = 1751.4 \text{ psi}$ ). Since the GG2 is a normally pressured, non-depleted zone, this is a valid estimate of pore pressure. RDT pressure data collected in Greater Monument Butte also supports this calculation.

You may contact me at 435-646-4874 or [lchavez-naupoto@newfield.com](mailto:lchavez-naupoto@newfield.com) if you require further information.

Sincerely,

  
Lucy Chavez-Naupoto  
Water Services Technician

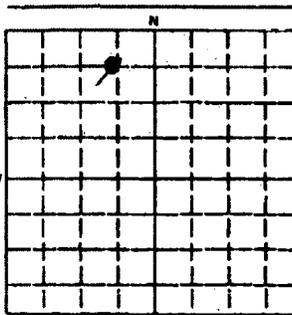


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460



**WELL REWORK RECORD**

NAME AND ADDRESS OF PERMITTEE Newfield Production Company 410 17th Street, Suite 700 Denver, Colorado 80202-4402	NAME AND ADDRESS OF CONTRACTOR Same as Permittee
---	---

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT -- 640 ACRES  	STATE Utah	COUNTY Duchesne	PERMIT NUMBER UT22197-10339
	SURFACE LOCATION DESCRIPTION 1/4 OF NE 1/4 OF NW SECTION 8 TOWNSHIP 9S RANGE 17E		
	LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT Surface Location _____ 634 ft. from (N/S) _____ N Line of quarter section and _____ 2068 ft. from (E/W) _____ W Line of quarter section		
	WELL ACTIVITY <input type="checkbox"/> Brine Disposal <input checked="" type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Hydrocarbon Storage  Lease Name  Federal	Total Depth Before Rework (ft) 6125  Total Depth After Rework (ft) 6125  Date Rework Commenced 4/4/2014  Date Rework Completed 4/8/2014	TYPE OF PERMIT <input checked="" type="checkbox"/> Individual <input type="checkbox"/> Area Number of Wells _____ Well Number _____  21-8H-9-17

**WELL CASING RECORD -- BEFORE REWORK**

Casing		Cement		Perforations (ft)		Acid or Fracture Treatment Record
Size	Depth (ft)	Sacks	Type	From	To	
8 5/8"	362	200	Class "G"	5470	5530	Perf and frac
5 1/2"	6125	410	HiLift	5248	5303	Perf and frac
		560	Class "G"	4736	4879	Perf and frac
				5601	5659	Perf and frac
				4991	5002	Perf and frac
				4122	4127	Perf and frac

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

Casing		Cement		Perforations (ft)		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
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See attached "Daily Workover Report"

**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) Lucy Chavez-Naupoto Water Services Technician	SIGNATURE 	DATE SIGNED April 10, 2014
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# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 4 18 14  
 Test conducted by: Tracy Lazenby  
 Others present: \_\_\_\_\_

Well Name: <u>Federal 218A-9-17 CTB</u>	Type: ER SWD	Status: AC TA UC
Field: <u>MBTTE</u>		
Location: <u>NE/KW</u> Sec: <u>8</u> T <u>9</u> N <u>15</u> R <u>17</u> (E) W County: <u>Duchess</u> State: <u>VT</u>		
Operator: <u>Shannon Lazenby</u>	MPT-43-013-31460	
Last MIT: <u>  /  /  </u>	Maximum Allowable Pressure: _____	PSIG

-10339

Is this a regularly scheduled test?     Yes     No  
 Initial test for permit?                 Yes     No  
 Test after well rework?                 Yes     No  
 Well injecting during test?             Yes     No      If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: 1527 / 0 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	0 psig	psig	psig
End of test pressure	0 psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	1527 psig	psig	psig
5 minutes	1529 psig	psig	psig
10 minutes	1530 psig	psig	psig
15 minutes	1532 psig	psig	psig
20 minutes	1533 psig	psig	psig
25 minutes	1534 psig	psig	psig
30 minutes	1536 psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test ?     Yes     No

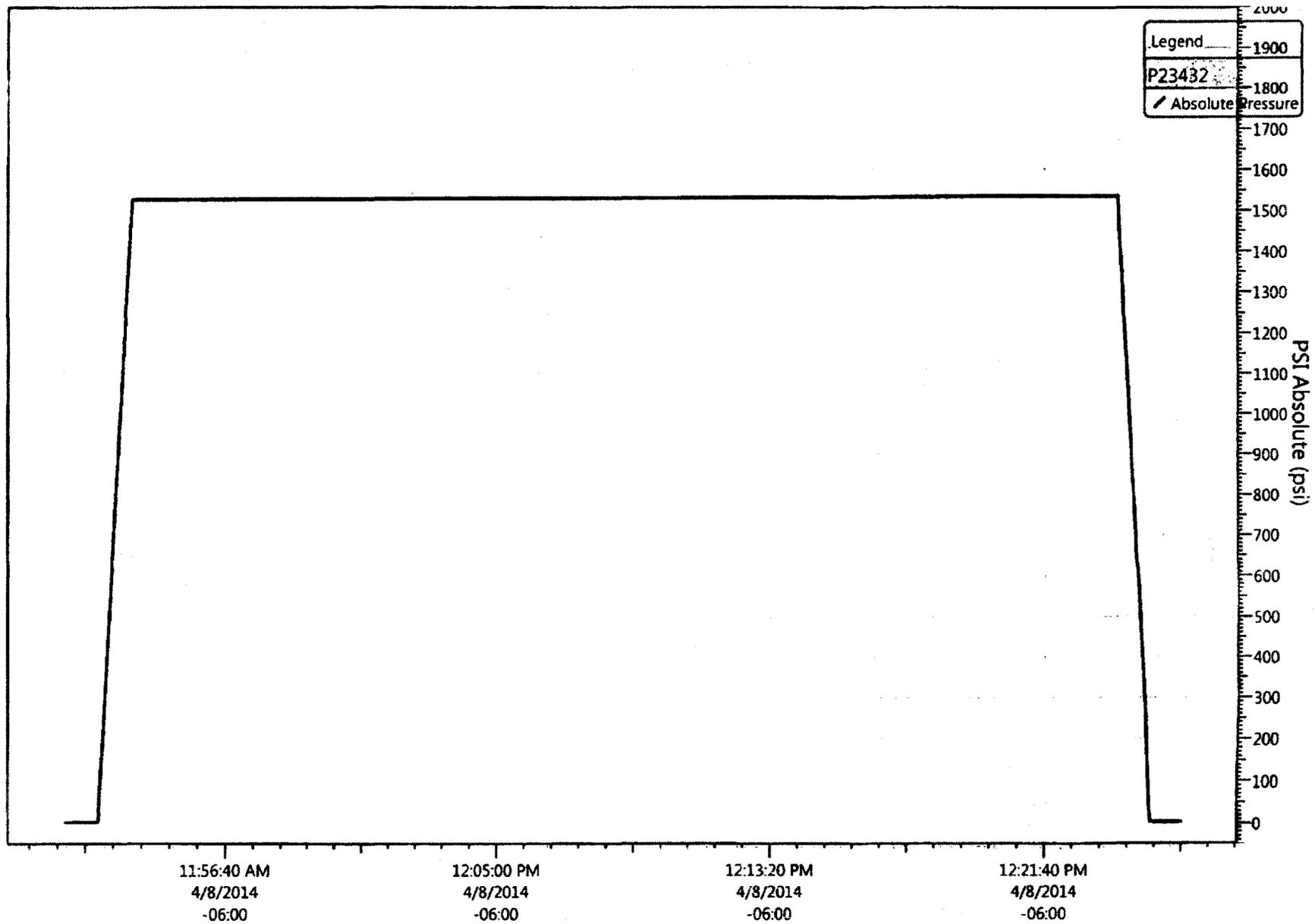
### MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: Tracy Lazenby

federal 21-8H-9-17 CTB (4-8-14) conversion

4/8/2014 11:50:45 AM





**Job Detail Summary Report**

**Well Name: Federal 21-8H-9-17**

Jobs		
Primary Job Type Conversion	Job Start Date 4/4/2014	Job End Date 4/8/2014

Daily Operations			
Report Start Date	Report End Date	24hr Activity Summary	
4/4/2014	4/4/2014	RU RIG	
Start Time	End Time	Start Time	End Time
	05:30	07:00	Comment CREW TRAVEL
Start Time	07:00	07:15	Comment JSA MTG
Start Time	07:15	09:00	Comment BLEW DOWN WELL, RU RIG, FLUSHED CSG W/ 60 BBLs@250 DEG
Start Time	09:00	10:00	Comment UNSEATED PUMP, LD POLISH ROD, LD 2-RODS, PU POLISH ROD, FLUSHED TBG W/ 40 BBLs@250DEG. SOFT SEATED PUMP, PT TBG TO 3K PSI HELD FOR 10 MIN, GOOD TEST
Start Time	10:00	14:00	Comment LD ROD STRING ON TRAILER, FLUSHED 3 TIMES FOR INSPECTION
Start Time	14:00	15:00	Comment ND WH, RELEASED TAC, NU BOP, RD RIG FLOOR
Start Time	15:00	17:30	Comment TOOH BREAKING AND RE-DOPING EACH CONNECTION W/ LIQUID O-RING 40-JTS OF TBG, SIWFN
Start Time	17:30	19:00	Comment CREW TRAVEL
Report Start Date	Report End Date	24hr Activity Summary	
4/7/2014	4/7/2014	TOOH TBG. PU INJ PKR ASSY.	
Start Time	End Time	Start Time	End Time
	05:30	07:00	Comment CREW TRAVEL
Start Time	07:00	07:15	Comment JSA SAFETY MTG
Start Time	07:15	08:00	Comment BLEW DOWN WELL
Start Time	08:00	11:00	Comment TOOH BREAKING AND RE-DOPING EVERY CONNECTION W/ LIQUID O-RING GREEN DOPE, 88-JTS OF TBG
Start Time	11:00	12:00	Comment LD 50-JTS OF TBG ONTO TRAILER(BOTTOM HALF OF STRING)
Start Time	12:00	14:00	Comment PU WEATHERFORD INJECTION PKR ASSEMBLY, TIH 128-JTS OF TBG
Start Time	14:00	16:00	Comment DROPPED SV, CHASED W/ 10 BBLs, PRESSURED UP TO 2900 PSI, THEN BROKE FREE, RI SL, WENT TO 3,000' UNABLE TO GET PAST, CIRCULATED HOLE W/ 30 BBLs@250DEG DOWN TBG, ABLE TO PUSH SV DOWN TO SN, POOH W/ SL
Start Time	16:00	17:00	Comment PT TBG TO 3K PSI HELD 100% FOR 30 MIN, GOOD TEST
Start Time	17:00	18:30	Comment CREW TRAVEL
Report Start Date	Report End Date	24hr Activity Summary	
4/8/2014	4/8/2014	RU SL, RIH W/ SL RETRIEVED SV. RU RIG FLOOR, ND BOP NU INJ WH. PERFORM INITIAL MIT	
Start Time	End Time	Start Time	End Time
	05:30	07:00	Comment CREW TRAVEL
Start Time	07:00	07:15	Comment JSA SAFETY MTG
Start Time	07:15	08:00	Comment BLEW DOWN WELL



**Job Detail Summary Report**

**Well Name: Federal 21-8H-9-17**

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Start Time	08:00	End Time	09:00	Comment
				RU SL, RIH W/ SL RETRIEVED SV, POOH
Start Time	09:00	End Time	10:00	Comment
				RU RIG FLOOR, ND BOPS, NU INJECTION WH
Start Time	10:00	End Time	11:00	Comment
				CIRCULATED 50 BBLs OF PKR FLUID. SET PKR W/ CE@4059.29
Start Time	11:00	End Time	12:00	Comment
				PT CSG TO 1400PSI HELD FOR 30 MIN 100% GOOD TEST
Start Time	12:00	End Time	13:00	Comment
				RD RIG , PRE-TRIP INSPECTION, MOSL
Start Time	13:00	End Time	15:30	Comment
				Initial MIT on the above listed well. On 04/08/2014 the casing was pressured up to 1536 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA# UT22197-10339

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**NEWFIELD**

**Schematic**

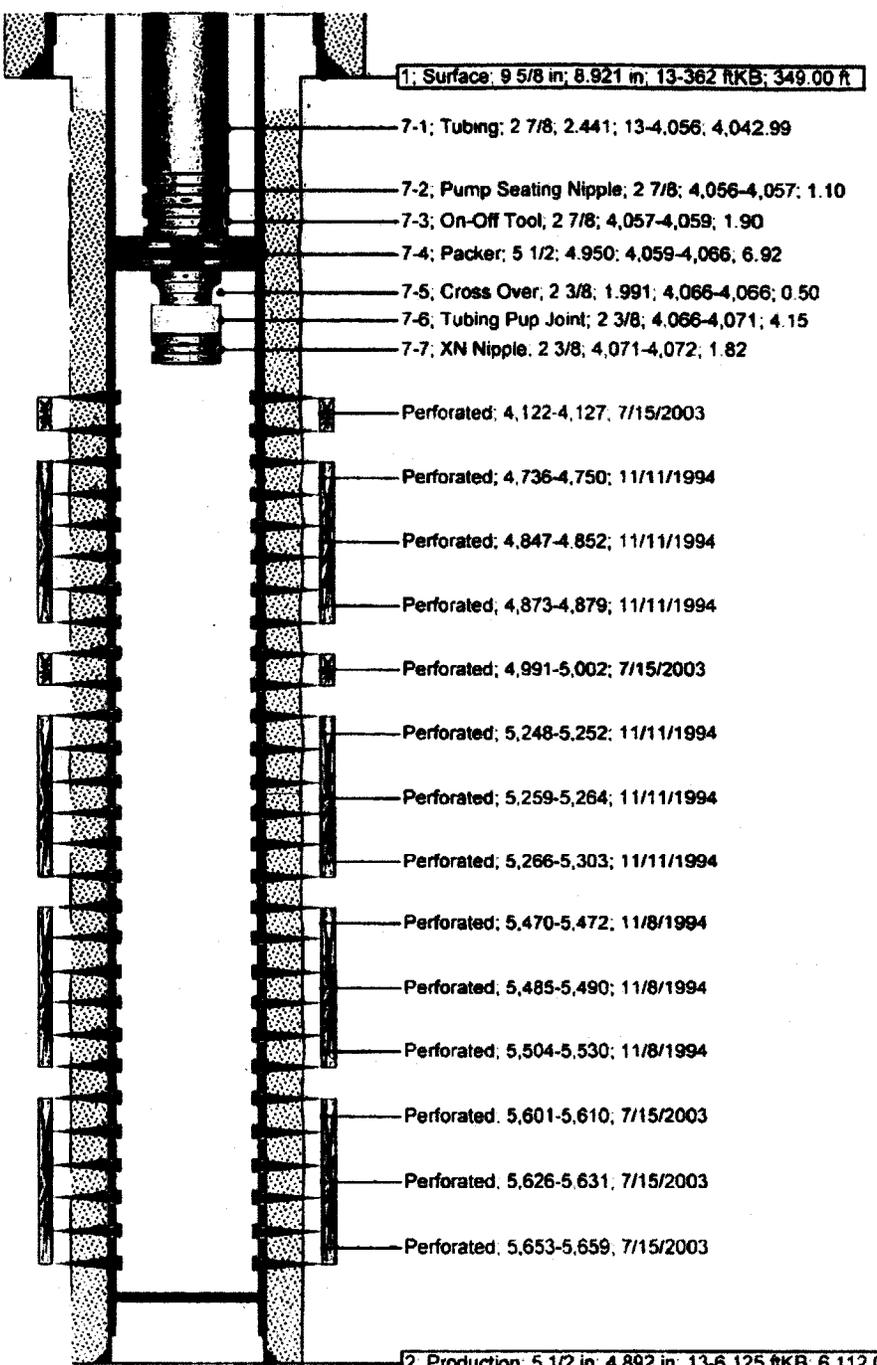
43-013-31460

**Well Name: Federal 21-8H-9-17**

Surface Legal Location 08-9S-17E	API/UWI 4301331460000	Well RC 500150864	Lease	State/Province Utah	Field Name GMBU CTB6	County DUCHESNE
Spud Date	Rig Release Date	On Production Date 11/17/1994	Original KB Elevation (ft)	Ground Elevation (ft)	Total Depth All (TVD) (ftKB)	PBTO (All) (ftKB) Original Hole - 6.071.0

<b>Most Recent Job</b>					
Job Category Production / Workover	Primary Job Type Conversion	Secondary Job Type Basic	Job Start Date 4/4/2014	Job End Date 4/8/2014	

**TD: 6,125.0** Vertical - Original Hole, 4/9/2014 11:06:38 AM

MD (ftKB)	TVD (ftKB)	Incl (°)	DLS	DLS (°)	Vertical schematic (actual)
13.1					
361.5					
361.9					
779.9					
3,000.0					
4,056.1					
4,057.1					
4,059.1					
4,065.9					
4,066.3					
4,070.5					
4,072.5					
4,122.0					
4,127.0					
4,735.9					
4,750.0					
4,847.1					
4,852.0					
4,873.0					
4,878.9					
4,991.1					
5,002.0					
5,248.0					
5,252.0					
5,258.9					
5,264.1					
5,266.1					
5,303.1					
5,470.1					
5,472.1					
5,484.9					
5,490.2					
5,503.9					
5,529.9					
5,601.0					
5,609.9					
5,626.0					
5,630.9					
5,652.9					
5,659.1					
6,070.9					
6,124.3					
6,125.0					

# NEWFIELD



## Newfield Wellbore Diagram Data Federal 21-8H-9-17

Surface Legal Location <b>08-9S-17E</b>		API/UMI <b>4301331460000</b>		Lease	
County <b>DUCHESNE</b>		State/Province <b>Utah</b>		Field Name <b>GMBU CTB6</b>	
Well Start Date <b>9/13/1994</b>		Spud Date		Final Rg Release Date	
Original KB Elevation (ft)		Ground Elevation (ft)		Total Depth (ftKB) <b>6,125.0</b>	
				Total Depth All (TVD) (ftKB)	
				PBTD (All) (ftKB) <b>Original Hole - 6,071.0</b>	

### Casing Strings

Csg Des	Run Date	OD (in)	ID (in)	WtLen (lb/ft)	Grade	Set Depth (ftKB)
Surface	10/15/1994	9 5/8	8.921	36.00	J-55	362
Production	10/30/1994	5 1/2	4.892	17.00	J-55	6,125

### Cement

#### String: Surface, 362ftKB 10/17/1994

Cementing Company		Top Depth (ftKB) <b>13.0</b>	Bottom Depth (ftKB) <b>362.0</b>	Full Return?	Vol Cement Ret (bbl)
Fluid Description		Fluid Type <b>Lead</b>	Amount (sacks) <b>200</b>	Class <b>G</b>	Estimated Top (ftKB) <b>13.0</b>

#### String: Production, 6,125ftKB 10/31/1994

Cementing Company		Top Depth (ftKB) <b>780.0</b>	Bottom Depth (ftKB) <b>3,000.0</b>	Full Return?	Vol Cement Ret (bbl)
Fluid Description		Fluid Type <b>Lead</b>	Amount (sacks) <b>410</b>	Class <b>Hi Lift</b>	Estimated Top (ftKB) <b>780.0</b>

#### String: Production, 6,125ftKB 10/31/1994

Cementing Company		Top Depth (ftKB) <b>3,000.0</b>	Bottom Depth (ftKB) <b>6,125.0</b>	Full Return?	Vol Cement Ret (bbl)
Fluid Description		Fluid Type <b>Tail</b>	Amount (sacks) <b>580</b>	Class	Estimated Top (ftKB) <b>3,000.0</b>

### Tubing Strings

Tubing Description		Run Date		Set Depth (ftKB)				
Item Des	Jts	CD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Blm (ftKB)
Tubing		4/8/2014		4,069.4				
Tubing	128	2 7/8	2.441	6.50	J-55	4,042.99	10.0	4,053.0
Pump Sealing Nipple		2 7/8				1.10	4,053.0	4,054.1
On-Off Tool		2 7/8				1.90	4,054.1	4,056.0
Packer		5 1/2	4.950			6.92	4,056.0	4,062.9
Cross Over		2 3/8	1.991			0.50	4,062.9	4,063.4
Tubing Pup Joint		2 3/8				4.15	4,063.4	4,067.6
XN Nipple		2 3/8				1.82	4,067.6	4,069.4

### Rod Strings

Rod Description		Run Date		Set Depth (ftKB)			
Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Blm (ftKB)

### Perforation Intervals

Stage#	Zone	Top (ftKB)	Blm (ftKB)	Shot Dens (shots/ft)	Phasing (")	Nom Hole Dia (in)	Date
6	GB6, Original Hole	4,122	4,127	4			7/15/2003
3		4,736	4,750	1			11/11/1994
3		4,847	4,852	1			11/11/1994
3		4,873	4,879	1			11/11/1994
5	A1, Original Hole	4,991	5,002	4			7/15/2003
2		5,248	5,252	1			11/11/1994
2		5,259	5,264	1			11/11/1994
2		5,266	5,303	1			11/11/1994
1		5,470	5,472	1			11/8/1994
1		5,485	5,490	1			11/8/1994
1		5,504	5,530	1			11/8/1994
4	CP4, Original Hole	5,601	5,610	4			7/15/2003
4	CP4, Original Hole	5,628	5,631	4			7/15/2003
4	CP4, Original Hole	5,653	5,659	4			7/15/2003

### Stimulations & Treatments

Stage#	ISIP (psi)	Frac Gradient (psi/ft)	Max Rate (bbl/min)	Max PSI (psi)	Total Clean Vol (bbl)	Total Slurry Vol (bbl)	Vol Recov (bbl)
1							
2	1,897						
3							
4	1,880	0.76	15.6	5,352			



**Stimulations & Treatments**

Stage#	ISIP (psi)	Frac Gradient (psi/ft)	Max Rate (bbf/min)	Max PSI (psi)	Total Clean Vol (bbf)	Total Slurry Vol (bbf)	Vol Recov (bbf)
5	2,120	0.85	14.4	4,345			
6	3,400		24.8	4,292			

**Proppant**

Stage#	Total Prop Vol Pumped (lb)	Total Add Amount
1		
2		
3		
4		
5		
6		