

GEOLOGIC TOPS:

QUATERNARY	Star Point	Chinie	Molas
Alluvium	Wahweap	Shinarump	Manning Canyon
Lake beds	Masuk	Moenkopi	Mississippian
Pleistocene	Colorado	Sinbad	Humbug
Lake beds	Sego	PERMIAN	Brazer
TERTIARY	Buck Tongue	Kaibab	Pilot Shale
Pliocene	Castlegate 65	Cocanino	Madison
Salt Lake	<del>_____</del> Black Hawk 3354'	Cutler	Leadville
Oligocene	<del>_____</del> Kepukworth ss 4368'	Hoskinnini	Redwall
Norwood	<del>_____</del> Aberdeen ss 4159'	DeChelly	DEVONIAN
Eocene	<del>_____</del> Spring Canyon 4704'	White Rim	Upper
Duchesne River	Emery	Organ Rock	Middle
Uinta	Blue Gate	Cedar Mesa	Lower
Bridger	Ferron	Halgate Tongue	Ouray
Green River	Frontier	Phosphoria	Elbert
	Dakota	Park City	McCracken
	Burro Canyon	Rico (Goodridgel	Aneth
	Cedar Mountain	Supai	Simonson Dolomite
	Buckhorn	Wolfcamp	Sevy Dolomite
	JURASSIC	CARBONIFEROUS	North Point
Wasatch	Morrison	Pennsylvanian	SILURIAN
Stone Cabin	Salt Wash	Oquirrh	Laketown Dolomite
Colton	San Rafael Gr.	Weber	ORDOVICIAN
Flagstaff	Summerville	Morgan	Eureka Quartzite
North Horn	Bluff Sandstone	Hermosa	Pogonip Limestone
Almy	Curtis		CAMBRIAN
Paleocene	Entrada	Pardox	Lynch
Current Creek	Moab Tongue	Ismay	Bowman
North Horn	Carmel	Desert Creek	Tapeals
CRETACEOUS	Glen Canyon Gr.	Akah	Ophir
Montana	Navajo	Barker Creek	Tintic
Mesaverde	Kayenta		PRE-CAMBRIAN
Price River	Wingate		
Blackhawk	TRIASSIC	Cane Creek	

CONFIDENTIAL - TIGHT HOLE  
STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

(Other instructions on reverse side)

5. Lease Designation and Serial No.

~~433396~~ Fee

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

6. If Indian, Allottee or Tribe Name

N/A

1a. Type of Work

DRILL  DEEPEN  PLUG BACK

b. Type of Well

Oil Well  Gas Well  Other Coalbed Methane  Single Zone  Multiple Zone

7. Unit Agreement Name

N/A

2. Name of Operator 214/750-3800 5950 Berkshire Lane, #600

8. Farm or Lease Name

Jensen

PG & E Resources Company Dallas, TX 75225

9. Well No.

#9-10

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

Permitco Inc. - Agent Denver, CO 80241

10. Field and Pool, or Wildcat

Wildcat

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

At surface 2559' FSL and 909' FEL

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

At proposed prod. zone NE SE Sec. 10

Sec. 10, T12S - R10E

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

15 miles north of Price, Utah

12. County or Parrish 13. State

Carbon Utah

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest dirk. line, if any) 138'

16. No. of acres 560 17. No. of acres assigned to this well 160

18. Distance from proposed location\* to nearest well, drilling, completed, or applied for, on this lease, ft. 2200'

19. Proposed depth 5000' 20. Rotary or cable tools Rotary

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

7161' GR

22. Approx. date work will start\*

Immediately upon

23. PROPOSED CASING AND CEMENTING PROGRAM approval of this application

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12-1/4"	9-5/8"	36#	500'	265 sx or suffic to circ to surf.
7-7/8"	7" *	26#	5000'	450 sx, stage tool at 3200'

PG & E Resources Company proposes to drill a well to 5000' to test the Blackhawk and Star Point Coals for coalbed methane. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per State of Utah requirements.

See Drilling Program attached.

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

\* This well may be considered in the future for possible use as a water disposal well. If so, the appropriate UIC application will be filed with the Division of Oil, Gas & Mining.

TECHNICAL REVIEW  
Engr. [Signature] 8/5/92  
Geol. [Signature] 8/5/92  
Surface [Signature] 8/5/92

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. Consultant for PG & E Resources Company Date 7/27/92

Signature: [Signature]

Permit No. 43-007-30159

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

Approved by: [Signature]

Title: [Signature] DATE: 8-6-92

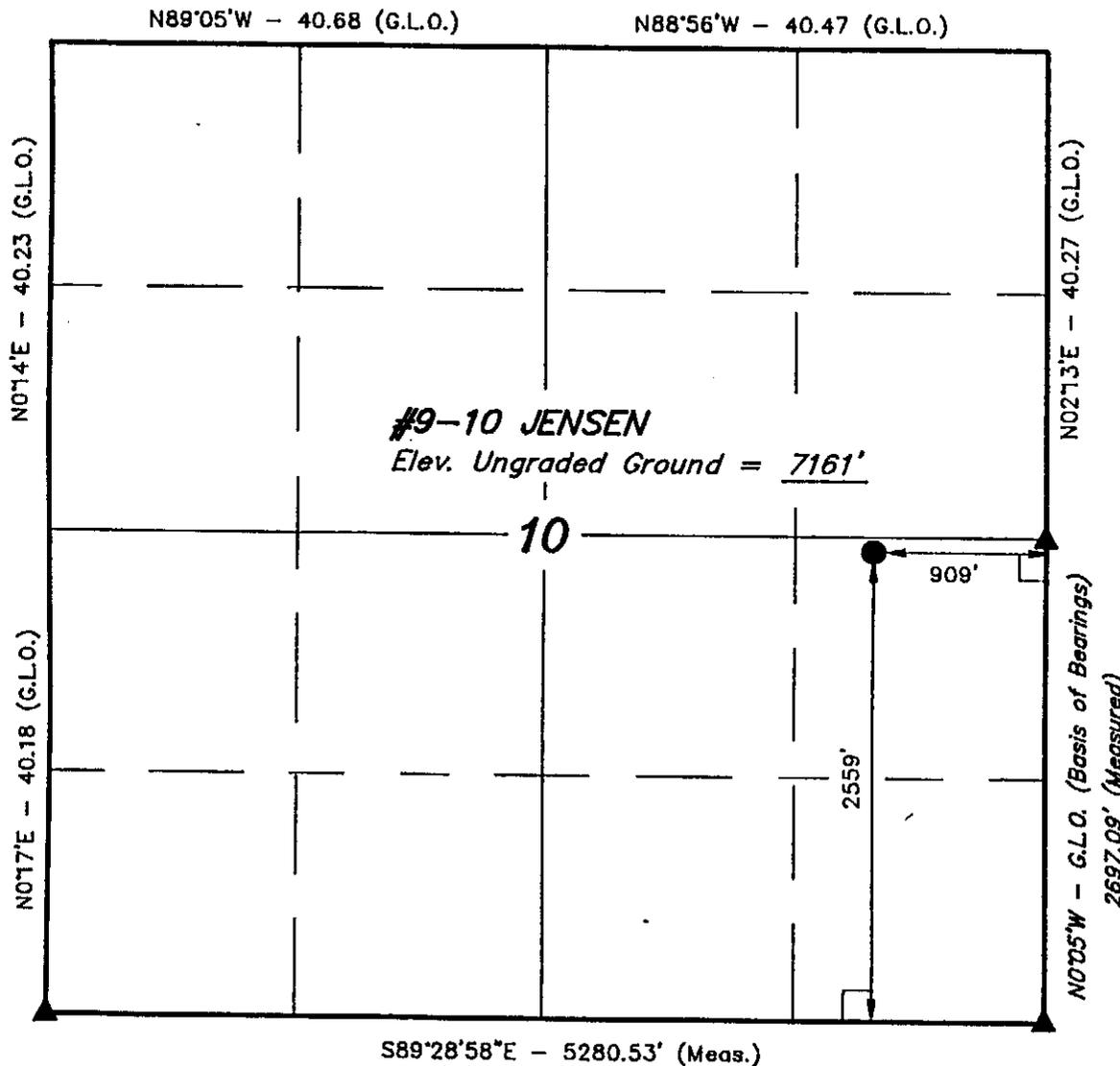
Conditions of approval, if any:

BY: [Signature] WELL SPACING: 649-3-3

# T12S, R10E, S.L.B.&M.

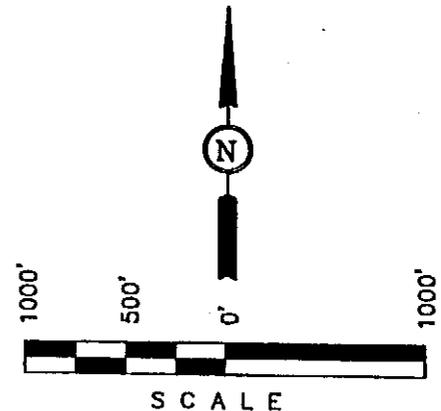
## PG&E RESOURCES COMPANY

Well location, #9-10 JENSEN, located as shown in the NE 1/4 SE 1/4 of Section 10, T12S, R10E, S.L.B.&M. Carbon County, Utah.



### BASIS OF ELEVATION

BENCH MARK 265 (1934) LOCATED IN THE NE 1/4 OF SECTION 10, T12S, R10E, S.L.B.&M. TAKEN FROM THE MATTS SUMMIT QUADRANGLE, UTAH, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 7131 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. Key  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 5709  
 STATE OF UTAH

### LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED. (1923 Brass Caps)

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

SCALE 1" = 1000'	DATE SURVEYED: 7-16-92	DATE DRAWN: 7-18-92
PARTY D.A. K.K. J.L.G.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE PG&E RESOURCES	

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

OPERATOR: PG & E RESOURCES COMPANY  
WELL NAME: JENSEN 9-10

DATE RECEIVED: 07/31/92

API NO. ASSIGNED: 43 - 007 - 30159

CONFIDENTIAL

LEASE TYPE: FEE LEASE NO: fee  
LOCATION: NESE 10 - T12S - R10E CARBON COUNTY  
FIELD: WILDCAT FIELD CODE: 001

RECEIVED AND/OR REVIEWED:

Plat  
 Bond  
(Number 80633807-80570600)  
 Potash (Y/N)  
 Oil shale (Y/N)  
 Water permit  
(Number as permit 8-6-92)  
 RDCC Review (Y/N)  
(Date: 8-4-92)

LOCATION AND SITING:

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

COMMENTS:

Permit 8-4-92 / Geology review 8-5-92

CONFIDENTIAL  
PERIOD  
EXPIRED  
ON 8-15-94

STIPULATIONS:

- the stipulation  
water permit should
- Reserve pit ~~is~~ be lined with a synthetic liner of 12 mil minimum thickness.
  - The pad will be bermed, to prevent runoff from location into nearby drainages. <sup>necessary berms should be constructed</sup>
  - This well was sent to RDCC and should <sup>stipulation</sup> result from the submittal PG & E Resources will comply.



August 6, 1992

Division of Oil, Gas & Mining  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203  
Attn: Tammi Searing

Re: PG & E Resources Company  
#9-10 Jensen  
2559' FSL and 909' FEL  
NE SE Sec. 10, T12S - R10E  
Carbon County, Utah

Dear Tammi,

This letter is to serve as our request for an exception to spacing on the above mentioned location.

The above location was staked at non-standard footages in accordance with the rules and regulations of the Division of Oil, Gas & Mining, however, PG & E Resources Company is the lease holder of all acreage within a 1/2 mile of the proposed location. Therefore, we request administrative approval for this exception location.

Thank you for your cooperation.

Sincerely,

PERMITCO INC.

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

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

Enc.

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

Permitco Incorporated  
A Petroleum Permitting Company

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

**CONFIDENTIAL - TIGHT HOLE**

**#9-10 JENSEN**  
2559' FSL and 909' FEL  
NE SE Sec. 10, T12S - R10E  
Carbon County, Utah

**Prepared For:**

**PG & E RESOURCES COMPANY**

**By:**

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

**Copies Sent To:**

- 3 - Division of Oil, Gas & Mining**
- 1 - PG & E Resources Co. - Vernal, Utah**
- 3 - PG & E Resources Co. - Dallas, TX**



**Permitco Incorporated**  
A Petroleum Permitting Company

The subject well is being drilled to test the Blackhawk and Star Point Coals for Coalbed Methane. If this well is productive, it may also be considered for use as a water disposal well. If so, the required UIC application will be filed with the Division of Oil, Gas & Mining.

1. Formation Tops

The estimated tops of important geologic markers are as follows:

<u>Formation</u>	<u>Depth</u>
Flagstaff	Surface
Price River	2674'
Castlegate	3206'
Blackhawk	3502'
Kenilworth (S.P. I)	4196'
Aberdeen (S.P. II)	4410'
Spring Canyon (S.P. III)	4540'
T.D.	5000'

2. Casing Program

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>
Surface	0-500'	12-1/4"	9-5/8"	36#	K-55
Produc.	0-5000'	7-7/8"	7"	26#	N-80

Casing design subject to revision based on geologic conditions encountered.

3. Cement Program

The cement program will be as follows:

Surface  
0-500'

Type and Amount

Cement to surface with 265 sx Premium Cement + 2% CaCl<sub>2</sub> + 0.25 #/sk Flocele (or equivalent). Centralizers will be run on bottom 3 joints plus every 4th joint to surface.

Production

Type and Amount

Two stage cement to surface w/stage tool at 3200'. First Stage: 275 sx 50/50 Pozmix + 2% Gel + .25% Flocele. Second Stage: 175 sx Silica Lite + 4% Gel + 4% CaCl<sub>2</sub>.

4. Drilling Fluids

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>FL</u>	<u>PH</u>
0-500'	Air/Spud Mud	8.4-9.0	32-50	N/C	8.0-9.0
500-3500'	FW w/Gel Sweeps	8.4-8.8	28-32	N/C	8.0-9.0
3500-5000'	FW-LSND	8.6-9.0	34-45	10-15	8.0-9.0

5. Testing, Logging and Coring

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

- a. One drill stem test is planned in the Spring Canyon (Star Point III) Sand. Estimated depth of test is 4540-4640'.



- b. The logging program will consist of a DIGL/GR/SP - 2" & 5" from T.D. to Base of Surface Casing and an SDL/DSN/GR/CAL/PE - 5" from T. D. to Base of Surface casing.
- c. Rotary sidewall cores are possible if needed after log evaluation.

6. Spud Date/Drilling Time

- a. Drilling is planned to commence on approximately August 5, 1992.
- b. It is anticipated that the drilling of this well will take approximately 20 days (4 days - Spudder rig; 16 days Drill rig).

7. Road Use/Water Source

- a. All access is located on Private or County Roads. The Carbon County Road Department has been contacted for use of County Roads. Surface use agreements will be reached with the other land owners for use of access roads and drillsite.
- b. Produced water from five producing wells in the immediate area will be used for drilling. The location of the existing water pits are as follows:
  - 1) N 540' E 1900' from SW cor., Sec. 11, T12S - R10E
  - 2) N 793' W 780' from SE cor., Sec. 11, T12S - R10E
  - 3) S 1980' E 1780' from NW cor., Sec. 14, T12S - R10E
  - 4) S 660' W 2340' from NE cor., Sec. 14, T12S - R10E
  - 5) S 1980' W 800' from NE cor., Sec. 14, T12S - R10E

The proposed water sources are located on private lands. A Temporary Change application will be filed with the Utah Division of Water Rights for use of these water sources.



8. BOP Requirements

PG & E's minimum specifications for pressure control equipment are as follows:  
Ram Type: 10" Hydraulic double, 2000 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.

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.

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

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.

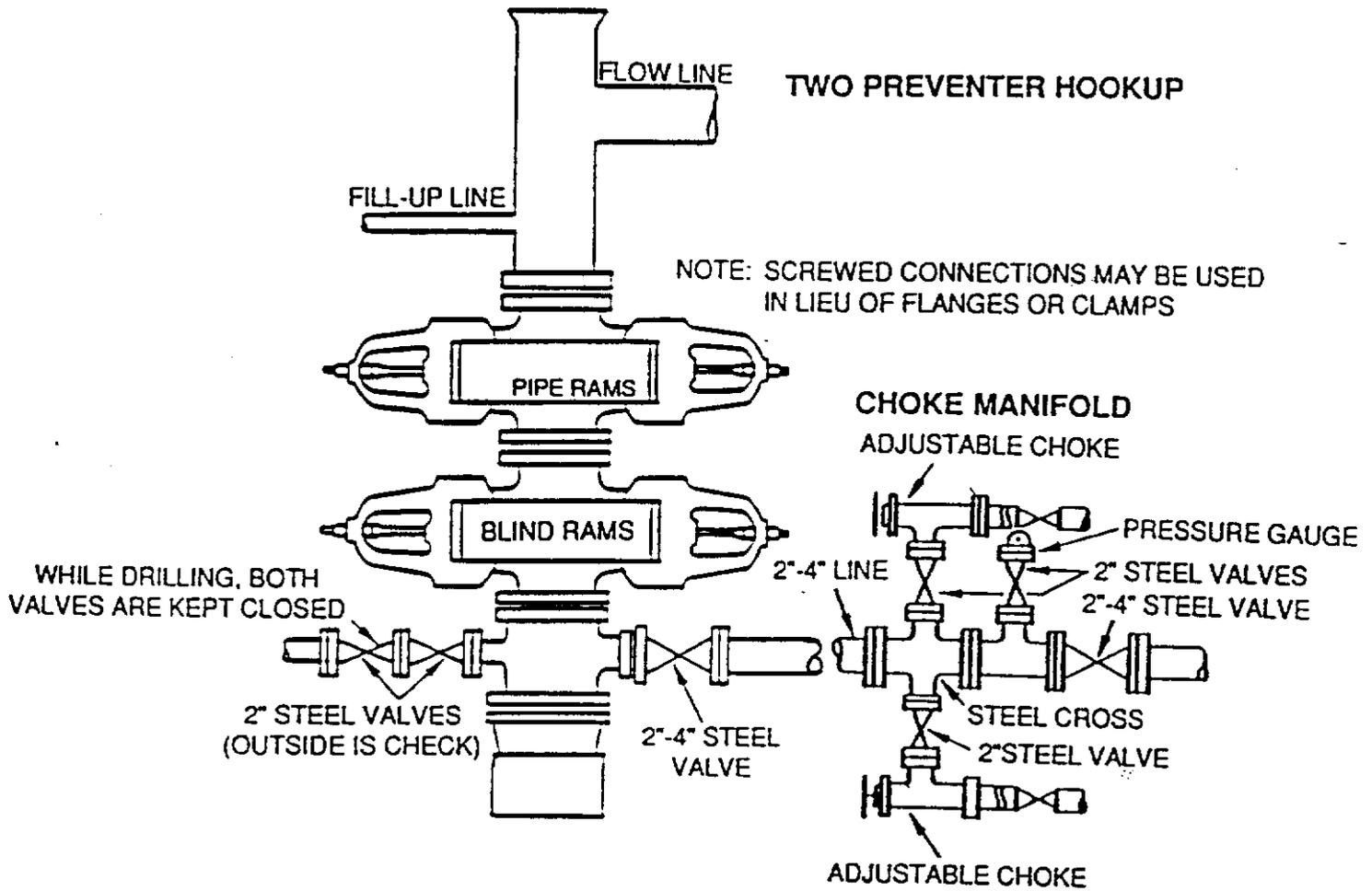
- a. The size and rating of the BOP stack is shown on the attached diagram.
- b. A choke line and a kill line are to be properly installed. The kill line is not to be used as a fill-up line.
- c. The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.
- 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.

9. Anticipated Pressures

- a. The expected maximum bottom hole pressure is 2170 psi (.434 psi/ft). The maximum surface pressure is 1070 psi (based on partially evacuated hole at 0.22 psi/ft.)
- b. No hydrogen sulfide gas or abnormal pressures are anticipated.

PG&E RESOURCES COMPANY

TYPICAL 2,000 PSI  
BLOWOUT PREVENTER SCHEMATIC



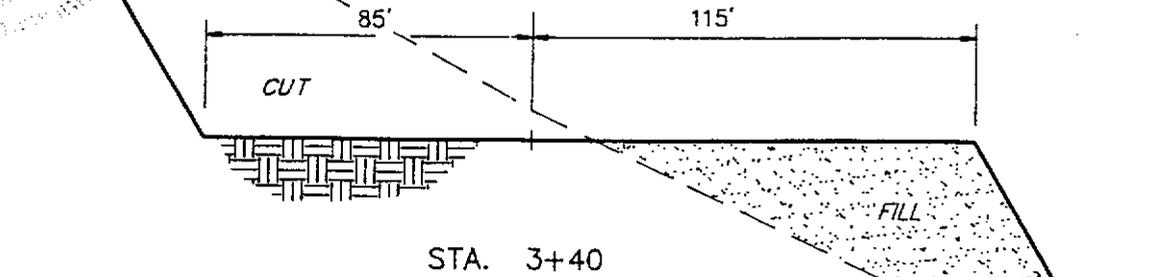
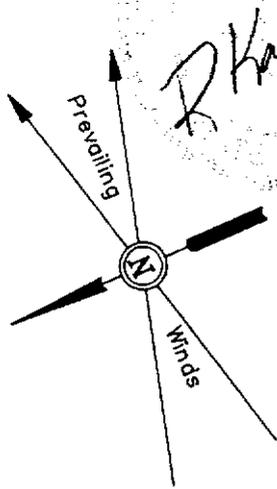
P.G.&E. RESOURCES CO.

LOCATION LAYOUT FOR

#9-10 JENSEN

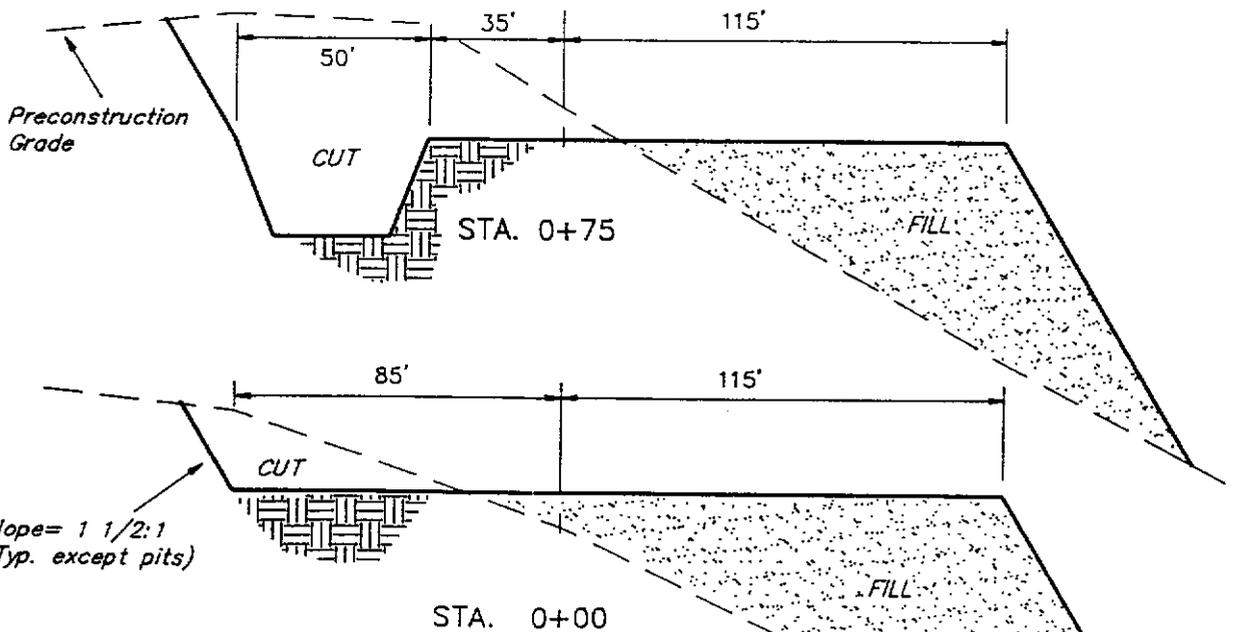
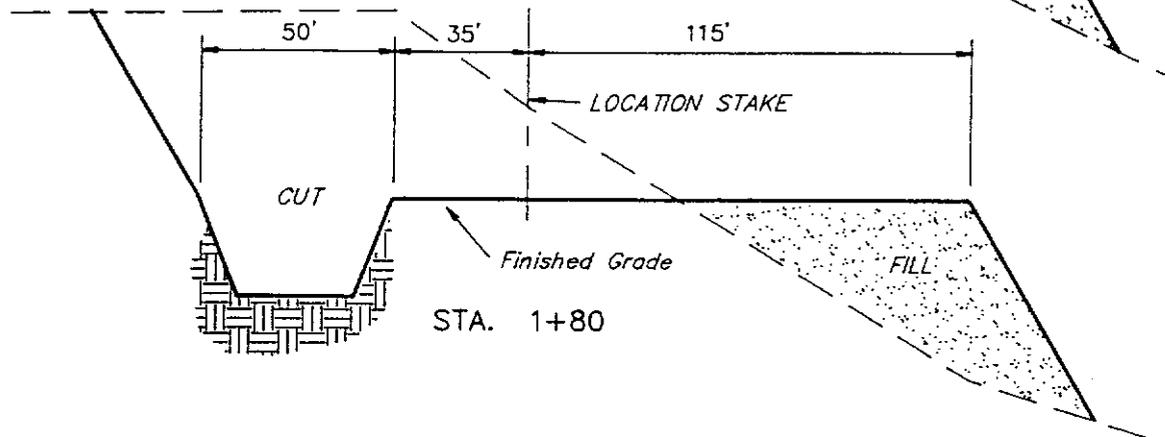
SECTION 10, T12S, R10E, S.L.B.&M.

2559' FSL 909' FEL



SCALE: 1" = 50'  
DATE: 7-19-92  
Drawn By: T.D.H.

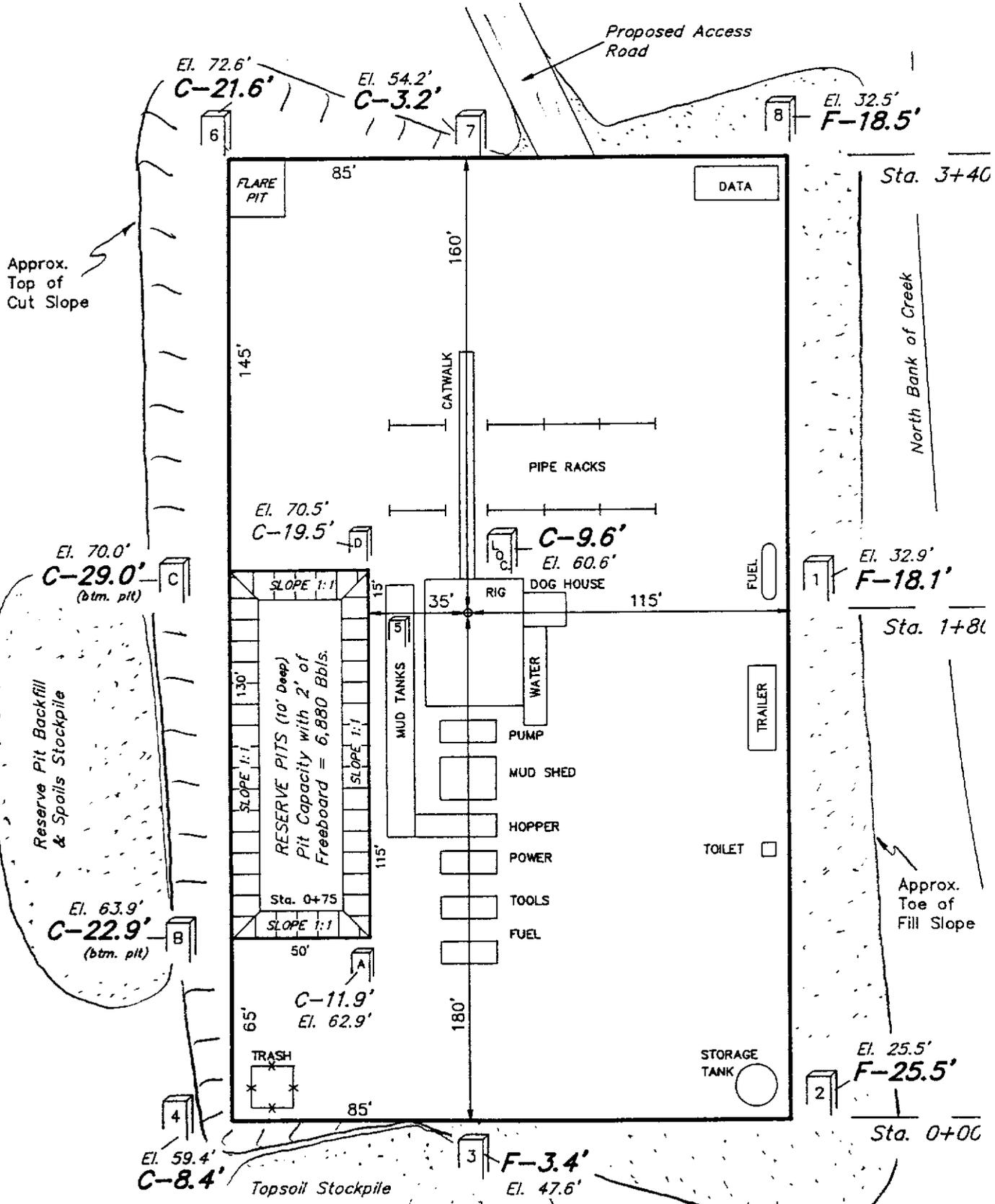
1" = 20'  
X-Section Scale  
1" = 50'



TYP. LOCATION LAYOUT

TYP. CROSS SECTIONS

V. UNGRADED GROUND AT LOC. STAKE = 7160.6'  
V. GRADED GROUND AT LOC. STAKE = 7151.0'

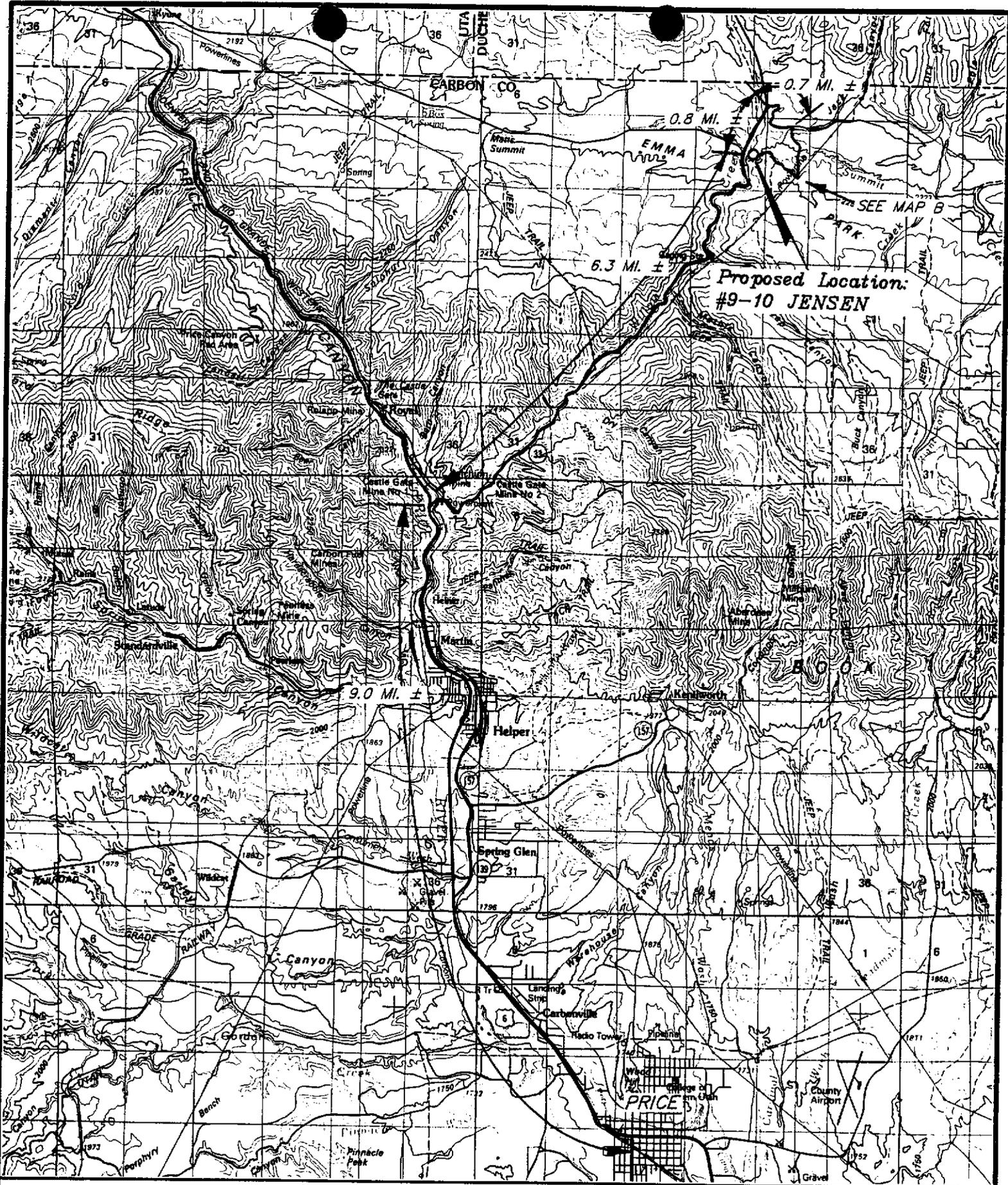


**APPROXIMATE YARDAGES**

<b>CUT</b>	
(6") Topsoil Stripping	= 1,260 Cu. Yds.
Remaining Location	= 20,430 Cu. Yds.

<b>TOTAL CUT</b>	<b>= 21,690 CU.YDS.</b>
<b>FILL</b>	<b>= 18,550 CU.YDS.</b>

<b>EXCESS MATERIAL AFTER 5% COMPACTION</b>	<b>= 2,160 Cu. Yds.</b>
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,150 Cu. Yds.
<b>EXCESS UNBALANCE (After Rehabilitation)</b>	<b>= 10 Cu. Yds.</b>



TOPOGRAPHIC  
MAP "A"

DATE 7-18-92 J.L.G.

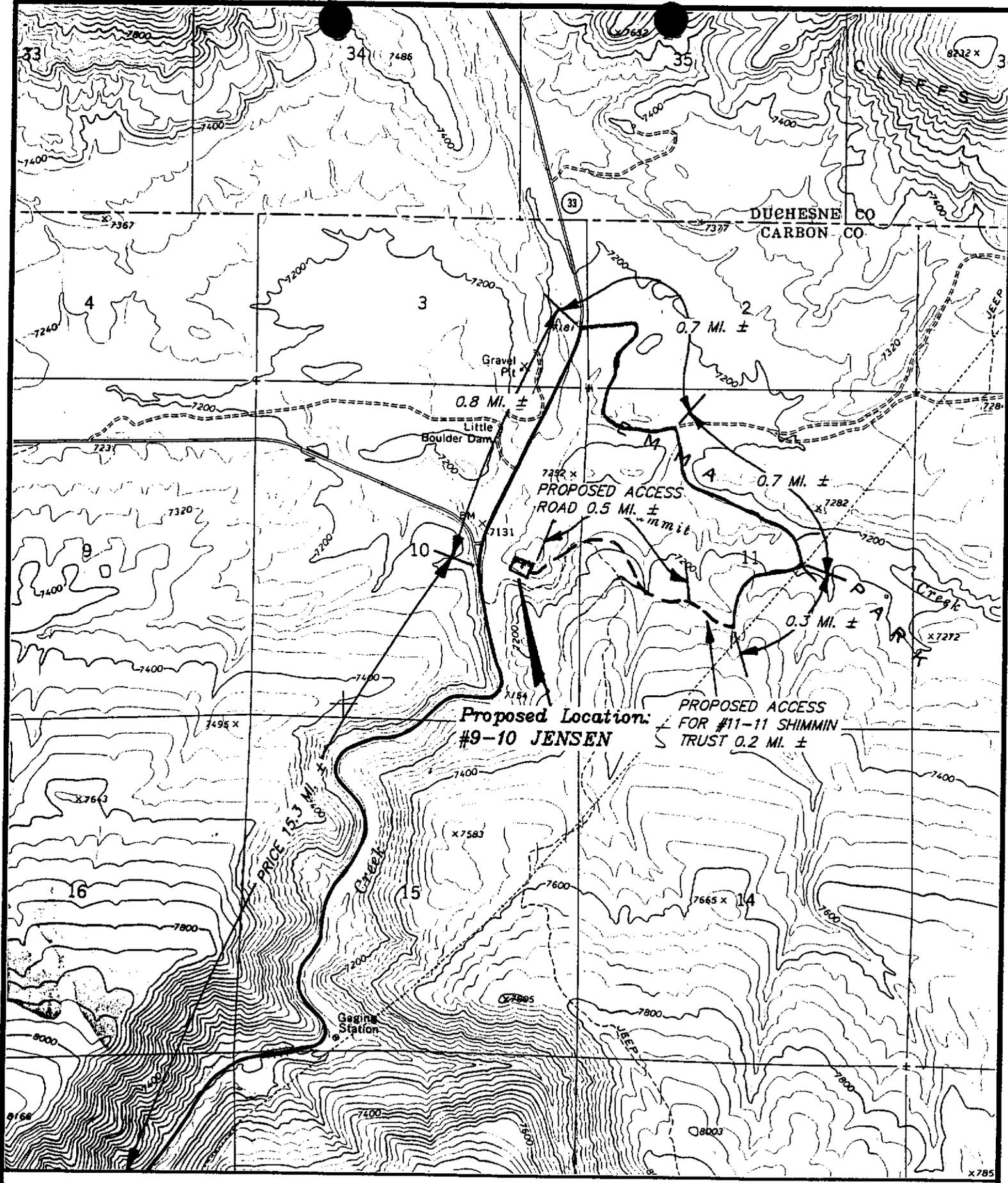


**PG&E RESOURCES COMPANY**

#9-10 JENSEN

SECTION 10, T12S, R10E, S.L.B.&M.

2559' FSL 909' FEL



TOPOGRAPHIC  
MAP "B"

SCALE: 1" = 2000'  
DATE 7-18-92 J.L.G.



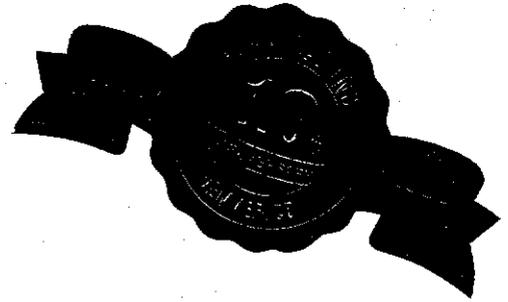
**PG&E RESOURCES COMPANY**

#9-10 JENSEN  
SECTION 10, T12S, R10E, S.L.B.&M.

2559' FSL 909' FEL



July 28, 1992



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

Attn: Tammi Searing

*Alamy*

Re: PG & E Resources Company  
#9-10 Jensen  
2559' FSL and 909' FEL  
SE SE Sec. 10, T12S - R10E  
Carbon County, Wyoming

Dear Tammi,

Enclosed please find three copies of the A.P.D. on the above mentioned well along with three copies of the drilling program. A temporary change application will be filed with the Division of Water Rights, Price, Utah for use of the proposed water sources, and a copy will be sent to your office upon approval.

Please forward approved copies of the A.P.D. to Jim LaFevers at the following address:

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

If you should need additional information, please feel free to contact me.

Sincerely,

PERMITCO INC.

A handwritten signature in cursive script that reads 'Lisa L. Smith'.

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

Enc.

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

**RECEIVED**

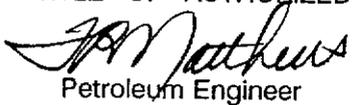
JUL 31 1992

DIVISION OF  
OIL GAS & MINING

Permitco Incorporated  
A Petroleum Permitting Company

STATE ACTIONS

Mail to:  
RDCC Coordinator  
116 State Capitol  
Salt Lake City, Utah 84114

1. ADMINISTERING STATE AGENCY  
OIL, GAS AND MINING  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203
2. STATE APPLICATION IDENTIFIER NUMBER:  
(assigned by State Clearinghouse)
3. APPROXIMATE DATE PROJECT WILL START:  
Upon approval
4. AREAWIDE CLEARING HOUSE(S) RECEIVING STATE ACTIONS:  
(to be sent out by agency in block 1)  
Southeastern Utah Association of Governments
5. TYPE OF ACTION:     Lease     Permit     License     Land Acquisition  
                           Land Sale     Land Exchange     Other \_\_\_\_\_
6. TITLE OF PROPOSED ACTION:  
Application for Permit to Drill
7. DESCRIPTION:  
PG & E Resources Company proposes to drill a wildcat well, the Jensen #9-10 well on a private lease in Carbon County, Utah. This action is being presented to RDCC for consideration of resource issues affecting state interests. The DOGM is the primary administrative agency in this case and must issue approval to drill before operations can commence.
8. LAND AFFECTED (site location map required) (indicate county)  
NE/4, SE/4, Section 10, Township 12 South, Range 10 East, Carbon County, Utah
9. HAS THE LOCAL GOVERNMENT(S) BEEN CONTACTED?  
Unknown
10. POSSIBLE SIGNIFICANT IMPACTS LIKELY TO OCCUR:  
No significant impacts are likely to occur
11. NAME AND PHONE NUMBER OF DISTRICT REPRESENTATIVE FROM YOUR AGENCY NEAR PROJECT SITE, IF APPLICABLE:
12. FOR FURTHER INFORMATION, CONTACT:    13. SIGNATURE AND TITLE OF AUTHORIZED OFFICIAL
- Frank R. Matthews  
PHONE: 538-5340
- DATE: 8-4-92
-   
Petroleum Engineer

WO1152

DRILLING LOCATION ASSESSMENT

State of Utah  
Division of Oil, Gas and Mining

OPERATOR: PG&E RESOURCES CO. WELL NAME: #9-10 JENSEN  
SECTION: 10 TWP: 12S RNG: 10E LOC: 2559 FSL 909 FEL  
QTR/QTR NE/SE COUNTY: CARBON FIELD: COALBED METHANE  
SURFACE OWNER: JERRY JENSEN  
SPACING: 460 F SECTION LINE 460 F QTR/QTR LINE 920 F ANOTHER WELL  
GEOLOGIST: BRAD HILL DATE AND TIME: 7/21/92 8:30

PARTICIPANTS: Lisa Smith-Permitco, Jerry Jensen-Landowner, Don Allred-Uintah Engineering

REGIONAL SETTING/TOPOGRAPHY: The proposed location is on the western edge of the Book Cliffs physiographic province. It is located at the base of a dip slope on the Flagstaff Limestone. The north side of the location is located on a flat hill top and the south side of the location is on a slope which ends in the Summit Creek drainage. Willow Creek is 100 yards to the west of the proposed location.

LAND USE:

CURRENT SURFACE USE: Domestic grazing and wildlife habitat.

PROPOSED SURFACE DISTURBANCE: The proposed pad is rectangular in shape with approximate dimensions of 340' X 200' including a 130' X 50' reserve pit. Approximately .5 miles of new road will be constructed for access.

AFFECTED FLOODPLAINS AND/OR WETLANDS: None

FLORA/FAUNA: Sage, Rabbitbrush, Bunch grass, Indian Ricegrass/Deer, Elk, Rabbits, Rodents, Birds

ENVIRONMENTAL PARAMETERS

SURFACE GEOLOGY

SOIL TYPE AND CHARACTERISTICS: Silty-clay with abundant limestone fragments.

SURFACE FORMATION & CHARACTERISTICS: Quaternary alluvium and Flagstaff Limestone

EROSION/SEDIMENTATION/STABILITY: No active erosion or sedimentation at present. Location should be stable.

PALEONTOLOGICAL POTENTIAL: None observed.

## SUBSURFACE GEOLOGY

OBJECTIVES/DEPTHS: Blackhawk-3502', Kenilworth-4196',  
Aberdeen-4410', Spring Canyon-4540'

ABNORMAL PRESSURES-HIGH AND LOW: None anticipated.

CULTURAL RESOURCES/ARCHAEOLOGY: NA

CONSTRUCTION MATERIALS: Onsite materials will be used for construction.

SITE RECLAMATION: As per land owner instructions.

### RESERVE PIT

CHARACTERISTICS: A rectangular reserve pit will be constructed with approximate dimensions of 130'X 50'X 10'.

LINING: The reserve pit is to be lined with a synthetic liner.

MUD PROGRAM: 0-500'-air/spud mud; 500'-3500'-FW w/Gel Sweeps;  
3500'-5000'-FW-LSND

DRILLING WATER SUPPLY: Drilling water will be from the existing Shimmins Trust wells.

### STIPULATIONS FOR APD APPROVAL

The reserve pit is to be lined with a synthetic liner of 12 mil minimum thickness.

The pad is to be bermed to prevent run off from the location getting into the nearby drainages.

### ATTACHMENTS

Photographs will be placed on file.

Evaluation Ranking Criteria and Ranking Score

Site-Specific Factors	Ranking Score	Final Ranking Score
Distance to Groundwater >200' 100 to 200' 75 to 100' 25 to 75' <25' or recharge area	0 5 10 15 20	
Distance to surface Water >1000' 300 to 1000' 200 to 300' 100 to 200' < 100'	0 2 10 15 20	
Distance to Nearest Municipal Well >5280' 1320 to 5280' 500 to 1320' <500'	0 5 10 20	
Distance to Other Wells >1320' 300 to 1320' <300'	0 10 20	
Native Soil Type: Low permeability Mod. permeability High permeability	0 10 20	

<b>Drilling Fluid</b> Air/mist Fresh Water 5000< TDS <10000 TDS > 10000 Oil Based Mud or mud containing hazardous constituents	0 5 10 15 20	0
<b>Drill Cuttings</b> Normal Rock Salt or detrimental	0 10	0
<b>Annual Precipitation</b> <10 10 to 20 >20	0 5 10	5
<b>Affected Populations</b> <10 10 to 30 30 to 50 >50	0 10 15 20	20
<b>Presence of Nearby Utility Conduits</b> Not Present Unknown Present	0 5 15	2

<b>Final Score</b>	25
--------------------	----

WIFE  
 1-1-11



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter  
Governor

Dee C. Hansen  
Executive Director

Dianne R. Nielson, Ph.D.  
Division Director

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

August 6, 1992

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

Gentlemen:

Re: Jensen #9-10 Well, 2559 feet from the south line, 909 feet from the east line,  
NE 1/4 SE 1/4, Section 10, Township 12 South, Range 10 East, Carbon County, Utah

Pursuant to Utah Admin. R. 649-3-3, Exception to 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. PG & E Resources Company, as designated operator, is the bonded principal in reference to this Application for Permit to Drill. Should this designation change or a transfer of ownership occur, liability will remain with the designated operator until the Division is notified by letter of a new bonded principal.
2. Submittal to the Division of evidence providing assurance of an adequate and approved supply of water as required by Utah Code Ann. § 73-3, Appropriations, prior to commencing drilling operations.
3. Reserve pit should be lined with a synthetic liner of 12 mil minimum thickness.
4. Necessary berms should be constructed to prevent runoff from location into nearby drainages.
5. The Application for Permit to Drill has been forwarded to the Resource Development Coordinating Committee for review of this action. PG & E Resources Company will be required to comply with any applicable recommendations resulting from the review.
6. Compliance with the requirements of Utah Admin. R. 649-1 et seq., Oil and Gas Conservation General Rules.

Page 2  
PG & E Resources Company  
Jensen #9-10 Well  
August 6, 1992

7. Notification within 24 hours after drilling operations commence.
8. 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.
9. Submittal of the Report of Water Encountered During Drilling, Form 7.
10. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or R.J. Firth, Associate Director, (Home) (801)571-6068.
11. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

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

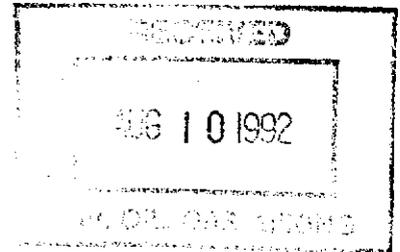
This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-007-30159.

Sincerely,



R.J. Firth  
Associate Director, Oil and Gas

ldc  
Enclosures  
cc: Bureau of Land Management  
J.L. Thompson  
WO11



August 6, 1992

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

Attn: Tammi Searing

Re: PG & E Resources Company  
Castlegate Prospect  
Application for Temporary Change  
of Water  
Carbon County, Utah

Dear Tammi,

Enclosed please find one copy of the Application for Temporary Change of Water for PG & E's Castlegate Prospect in Carbon County, Utah.

As you know, several Applications for Permit to Drill have already been submitted and several additional applications will be forthcoming.

In future applications I will reference the Change Application Number (t92-91-12 (91 Area), rather than send additional copies of this application.

If you should need additional information, please feel free to contact me.

Sincerely,

PERMITCO INC.

A handwritten signature in cursive script that reads "Lisa L. Smith".

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

Enc.

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

Permitco Incorporated  
A Petroleum Permitting Company

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



STATE OF UTAH  
NATURAL RESOURCES  
Water Rights

Norman H. Bangertor, Governor  
Dae C. Hansen, Executive Director  
Robert L. Morgan, State Engineer

Southeastern Area • 453 S. Carbon Avenue • P.O. Box 718 • Price, UT 84501-0718 • 801-637-1303

July 31, 1992

West Hazmat Oil Field Services Inc.  
Attn: Dale Price  
East Highway 40  
Roosevelt, Utah 84066

Re: Temporary Change Application #t92-91-12  
Expiration Date: November 30, 1992

Dear Mr. Price:

The above referenced Temporary Change Application is hereby approved, and a copy is enclosed for your information and records.

If you have any questions, please feel free to contact me.

Sincerely,

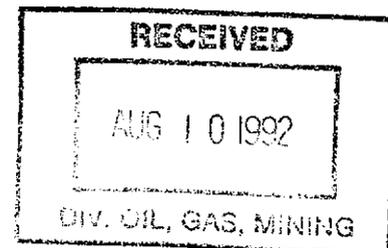
*William A. Wermack*

*for*

Mark P. Page  
Regional Engineer

cc: Bob Davis - Price River Commissioner

Enclosures  
MPP/mjk



DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: PG & E 43-007-30159

WELL NAME: 9-10

Section 10 Township 12S Range 10E County CARBON

Drilling Contractor

Rig #

SPUDDED: Date 8/9/92

Time

How DRY HOLE

**CONFIDENTIAL**

Drilling will commence

Reported by COMPANY MAN

Telephone #

Date 7/10/92 SIGNED JLT

# APPLICATION FOR TEMPORARY CHANGE OF WATER

AUG 10 1992  
DIV. OIL, GAS, MINING

RECEIVED  
STATE OF UTAH  
AUG 31 1992  
WATER RIGHTS

Rec. by \_\_\_\_\_  
Fee Paid \$ \_\_\_\_\_  
Receipt # \_\_\_\_\_  
Microfilmed \_\_\_\_\_  
Roll # \_\_\_\_\_

For the purpose of obtaining permission to make a temporary change of water in the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of Section 73-3-3 Utah Code Annotated 1953, as amended.

\*WATER RIGHT NO. 91 Area \_\_\_\_\_ \*APPLICATION NO. 92-91-12

Changes are proposed in (check those applicable)  
 point of diversion.  place of use.  nature of use.  period of use.

1. OWNER INFORMATION  
 Name: West Hazmat Oil Field Services Inc. \*Interest: \_\_\_\_\_ %  
 Address: East Highway 40  
 City: Roosevelt State: Utah Zip Code: 84066

2. \*PRIORITY OF CHANGE: July 31, 1992 \*FILING DATE: July 31, 1992  
 \*Is this change amendatory? (Yes/No): No

3. RIGHT EVIDENCED BY: 91-366, Cert.#a229, Morse Decree First Class

Prior Approved Temporary Change Applications for this right: t91-91-09; t92-91-03; t92-91-04; t92-91-05; t92-91-09; t92-91-10.

\*\*\*\*\* HERETOFORE \*\*\*\*\*

4. QUANTITY OF WATER: 7.98 cfs and/or \_\_\_\_\_ ac-ft.  
 5. SOURCE: Price River  
 6. COUNTY: Carbon  
 7. POINT(S) OF DIVERSION: \_\_\_\_\_  
S. 560 ft. & E. 680 ft. from N $\frac{1}{2}$  Cor. Sec. 1, T14S, R9E, SLB&M.

Description of Diverting Works: Concrete diversion dam, earthen ditches

8. POINT(S) OF REDIVERSION  
 The water has been rediverted from \_\_\_\_\_ at a point: \_\_\_\_\_

Description of Diverting Works: \_\_\_\_\_

9. POINT(S) OF RETURN  
 The amount of water consumed is 7.98 cfs or \_\_\_\_\_ ac-ft.  
 The amount of water returned is \_\_\_\_\_ cfs or \_\_\_\_\_ ac-ft.  
 The water has been returned to the natural stream/source at a point(s): \_\_\_\_\_

\*These items are to be completed by the Division of Water Rights.

10. NATURE AND PERIOD OF USE

Irrigation: From March 1 to November 30  
 Stockwatering: From \_\_\_\_\_ to \_\_\_\_\_  
 Domestic: From \_\_\_\_\_ to \_\_\_\_\_  
 Municipal: From \_\_\_\_\_ to \_\_\_\_\_  
 Mining: From \_\_\_\_\_ to \_\_\_\_\_  
 Power: From \_\_\_\_\_ to \_\_\_\_\_  
 Other: From \_\_\_\_\_ to \_\_\_\_\_

11. PURPOSE AND EXTENT OF USE

Irrigation: 12,576.07 acres. Sole supply of 488.10 acres.  
 Stockwatering (number and kind): \_\_\_\_\_  
 Domestic: \_\_\_\_\_ Families and/or \_\_\_\_\_ Persons.  
 Municipal (name): \_\_\_\_\_  
 Mining: \_\_\_\_\_ Mining District in the \_\_\_\_\_ Mine.  
 Ores mined: \_\_\_\_\_  
 Power: Plant name: \_\_\_\_\_ Type: \_\_\_\_\_ Capacity: \_\_\_\_\_  
 Other (describe): \_\_\_\_\_

12. PLACE OF USE

Legal description of place of use by 40 acre tract(s): Carbon Canal Delivery System

13. STORAGE

Reservoir Name: \_\_\_\_\_ Storage Period: from \_\_\_\_\_ to \_\_\_\_\_  
 Capacity: \_\_\_\_\_ ac-ft. Inundated Area: \_\_\_\_\_ acres.  
 Height of dam: \_\_\_\_\_ feet.  
 Legal description of inundated area by 40 tract(s): \_\_\_\_\_

\*\*\*\*\* THE FOLLOWING CHANGES ARE PROPOSED \*\*\*\*\*

14. QUANTITY OF WATER: \_\_\_\_\_ cfs and/or 13.0 ac-ft.  
 15. SOURCE: 1) Willow Creek 2) Underground Exploratory Wells  
 Balance of the water will be abandoned: \_\_\_\_\_, or will be used as heretofore: X  
 16. COUNTY: Carbon  
 17. POINT(S) OF DIVERSION: See Attached Sheet

Description of Diverting Works: 1) Portable pump to tank truck 2) Existing 5 1/2" casing,  
4425 to 4667 feet deep  
 \*COMMON DESCRIPTION: 10 miles NE of Helper Matts Summit Quad

18. POINT(S) OF REDIVERSION

The water will be rediverted from \_\_\_\_\_ at a point: \_\_\_\_\_  
 Description of Diverting Works: \_\_\_\_\_

19. POINT(S) OF RETURN

The amount of water to be consumed is \_\_\_\_\_ cfs or 13.0 ac-ft.  
 The amount of water to be returned is \_\_\_\_\_ cfs or \_\_\_\_\_ ac-ft.  
 The water will be returned to the natural stream/source at a point(s): \_\_\_\_\_

-20. NATURE AND PERIOD OF USE

Irrigation: From \_\_\_/\_\_\_/\_\_\_ to \_\_\_/\_\_\_/\_\_\_  
 Stockwatering: From \_\_\_/\_\_\_/\_\_\_ to \_\_\_/\_\_\_/\_\_\_  
 Domestic: From \_\_\_/\_\_\_/\_\_\_ to \_\_\_/\_\_\_/\_\_\_  
 Municipal: From \_\_\_/\_\_\_/\_\_\_ to \_\_\_/\_\_\_/\_\_\_  
 Mining: From \_\_\_/\_\_\_/\_\_\_ to \_\_\_/\_\_\_/\_\_\_  
 Power: From \_\_\_/\_\_\_/\_\_\_ to \_\_\_/\_\_\_/\_\_\_  
 Other: From 7/31/92 to 11/30/92

21. PURPOSE AND EXTENT OF USE

Irrigation: \_\_\_\_\_ acres. Sole supply of \_\_\_\_\_ acres.  
 Stockwatering (number and kind): \_\_\_\_\_  
 Domestic: \_\_\_\_\_ Families and/or \_\_\_\_\_ Persons.  
 Municipal (name): \_\_\_\_\_  
 Mining: \_\_\_\_\_ Mining District at the \_\_\_\_\_ Mine.  
 Ores mined: \_\_\_\_\_  
 Power: Plant name: \_\_\_\_\_ Type: \_\_\_\_\_ Capacity: \_\_\_\_\_  
 Other (describe): Exploration drilling, road construction, dust suppression

22. PLACE OF USE

Legal description of place of use by 40 acre tract(s): See Attached Sheet

23. STORAGE

Reservoir Name: \_\_\_\_\_ Storage Period: from \_\_\_\_\_ to \_\_\_\_\_  
 Capacity: \_\_\_\_\_ ac-ft. Inundated Area: \_\_\_\_\_ acres.  
 Height of dam: \_\_\_\_\_ feet.  
 Legal description of inundated area by 40 tract(s): \_\_\_\_\_

24. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. Include any supplemental water rights used for the same purpose. (Use additional pages of same size if necessary): \_\_\_\_\_  
This Temporary Change Application is being filed to replace t91-91-09 & t92-91-10 to correct the points of diversion and place of use. To date approximately 0.77 AF has been utilized under t91-91-09.

\*\*\*\*\*

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).

Dale Price  
 Signature of Applicant(s)

West Hazmat Oil Field Services Inc.  
Temporary Change Application  
#t92-91-12 (91 Area)  
July 31, 1992

#17 Points of Diversion:

Willow Creek:

N. 320 ft. & W. 290 ft. from SE Cor. Sec. 3, T12S, R20E, SLB&M.

Shimmin Trust Wells:

Shimmin Trust #1: N. 793 ft. & W. 780 ft. from SE Cor. Sec. 11;  
Shimmin Trust #2: S. 1980 ft. & W. 800 ft. from NE Cor. Sec. 14;  
Shimmin Trust #3: S. 1980 ft. & E. 1780 ft. from NW Cor. Sec. 14;  
Shimmin Trust #4: N. 540 ft. & E. 1900 ft. from SW Cor. Sec. 11;  
Shimmin Trust #5: S. 660 ft. & W. 2340 ft. from NE Cor. Sec. 14;  
all T12S, R10E, SLB&M.

#22 Place of Use:

1210-0806: S. 2400 ft. & E. 1769 ft. from NW Cor. Sec. 8 (SE4NW4)  
#7-9 Federal: S. 2109 ft. & W. 2038 ft. from NE Cor. Sec. 9 (SW4NE4)  
#4-15 Federal: S. 660 ft. & E. 450 ft. from NW Cor. Sec. 15 (NW4NW4)  
#4-13 Federal: S. 1174 ft. & E. 1168 ft. from NW Cor. Sec. 13 (NW4NW4)  
#9-10 Jensen: N. 2500 ft. & W. 1020 ft. from SE Cor. Sec. 10 (NE4SE4) 13-007-30159  
#2-16 State: S. 780 ft. & W. 1971 ft. from NE Cor. Sec. 16 (NW4NE4)  
#9-16 State: N. 1993 ft. & W. 702 ft. from SE Cor. Sec. 16 (NE4SE4)  
#11-10 Jensen: N. 1650 ft. & E. 1650 ft. from SW Cor. Sec. 10 (NE4SW4)  
#5-10 Jensen: S. 1680 ft. & E. 660 ft. from NW Cor. Sec. 10 (SW4NW4)  
#16-10 Jensen: N. 330 ft. & W. 330 ft. from SE Cor. Sec. 10 (SE4SE4)  
#7-15 Jensen: S. 1650 ft. & W. 1650 ft. from NE Cor. Sec. 15 (SW4NE4)  
#11-11 Shimmin Trust: N. 2350 ft. & E. 1500 ft. from SW Cor. Sec. 11 (NE4SW4)  
#10-11 Shimmin Trust: N. 2300 ft. & W. 1850 ft. from SE Cor. Sec. 11 (NW4SE4)  
#12-12 Shimmin Trust: N. 2310 ft. & E. 990 ft. from SW Cor. Sec. 12 (NW4SW4)  
#14-12 Shimmin Trust: N. 660 ft. & E. 1980 ft. from SW Cor. Sec. 12 (SE4SW4)  
#11-15 Jensen: N. 1850 ft. & E. 1650 ft. from SW Cor. Sec. 15 (NE4SW4)  
#16-9 Jensen: N. 1150 ft. & W. 1150 ft. from SE Cor. Sec. 9 (SE4SE4)  
#16-15 Federal: N. 990 ft. & W. 990 ft. from SE Cor. Sec. 15 (SE4SE4)  
#14-14 Federal: N. 990 ft. & E. 1650 ft. from SW Cor. Sec. 14 (SE4SW4)  
#14-16 Federal: N. 990 ft. & W. 990 ft. from SE Cor. Sec. 14 (SE4SE4)  
#14-13 Federal: N. 990 ft. & E. 1650 ft. from SW Cor. Sec. 13 (SE4SW4)  
All T12S, R10E, SLB&M.

Alternate Wells:

#12-9 Jensen: N. 2054 ft. & E. 592 ft. from SW Cor. Sec. 9 (NW4SW4)  
#14-9 Jensen: N. 675 ft. & E. 2170 ft. from SW Cor. Sec. 9 (SE4SW4)  
#4-16 State: S. 922 ft. & E. 750 ft. from NW Cor. Sec. 16 (NW4NW4)  
#11-16 State: N. 1980 ft. & E. 1980 ft. from SW Cor. Sec. 16 (NE4SW4)  
All T12S, R10E, SLB&M.

STATE ENGINEER'S ENDORSEMENT

TEMPORARY CHANGE APPLICATION NUMBER: t92-91-12

1. July 31, 1992      Change Application received by BW.
2. July 31, 1992      Application designated for APPROVAL by MP.
3. Comments:

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## Conditions:

This application is hereby APPROVED, dated July 31, 1992, subject to prior rights and this application will expire on November 30, 1992.

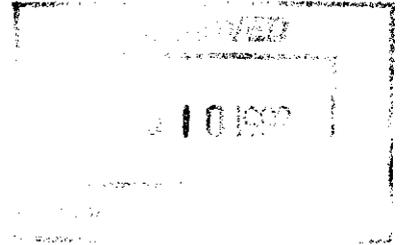
*William A. Blawieck*

*for*

Mark Page, Area Engineer

for

Robert L. Morgan, State Engineer



August 6, 1992

Division of Oil, Gas & Mining  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203  
Attn: Tammi Searing

Re: PG & E Resources Company  
#9-10 Jensen  
2559' FSL and 909' FEL  
NE SE Sec. 10, T12S - R10E  
Carbon County, Utah  
*42-007-20159*

Dear Tammi,

This letter is to serve as our request for an exception to spacing on the above mentioned location.

The above location was staked at non-standard footages in accordance with the rules and regulations of the Division of Oil, Gas & Mining, however, PG & E Resources Company is the lease holder of all acreage within a 1/2 mile of the proposed location. Therefore, we request administrative approval for this exception location.

Thank you for your cooperation.

Sincerely,

PERMITCO INC.

A handwritten signature in cursive script that reads "Lisa L. Smith".

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

Enc.

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

Permitco Incorporated  
A Petroleum Permitting Company

# SOUTHEASTERN UTAH ASSOCIATION OF LOCAL GOVERNMENT

WILLIAM D. HOWELL  
Executive Director

P. O. Drawer • Price, Utah 84501 • Telephone 637-5444  
1106

## AREAWIDE CLEARINGHOUSE A-95 REVIEW

14 01 07

NOI \_\_\_ Preapp \_\_\_ App \_\_\_ State Plan \_\_\_ State Action X Subdivision \_\_\_ (ASP # 8-86-9,10,11)

Other (indicate) \_\_\_\_\_ SAI Number UT920807-010,020,030

**Applicant (Address, Phone Number):**

Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Ste 350  
Salt Lake City, Utah 84180-1203

**Federal Funds:**

Requested: \_\_\_\_\_

**Title:**

APPLICATION FOR PERMIT TO DRILL

RECEIVED

SEP 02 1992

DIVISION OF  
OIL, GAS & MINING

- No comment
- See comments below
- No action taken because of insufficient information
- Please send your formal application to us for review. Your attendance is requested

The applicant should forward any written review comments to the funding agency. Any written response to those comments should be forwarded to the State Clearinghouse and also to the funding agency.

**Comments:**

Marilyn Van Dugan  
Authorizing Official

8-31-92  
Date

OPERATOR PG&E Resources Company

OPERATOR ACCT. NO. N0595

ENTITY ACTION FORM - FORM 6

ADDRESS 6688.N. Central Expressway, Ste 1000

Dallas, TX 75206-3922

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	11404	43-007-30159	Jensen #9-10	NE SE	10	T12S	10E	Carbon	8/10/92	8/10/92
WELL 1 COMMENTS: Well was spudded 8/10/92. <i>Entity added 9-10-92 for</i>											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

RECEIVED

SEP 08 1992

DIVISION OF  
OIL GAS & MINING

*Jim Jensen et*  
Signature  
Regulatory Affairs Supv. 9/4/92  
Title Date  
Phone No. (214) 750-3988

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.

FYI - FRM  
~~TAS~~  
- LWP

11. UT910114-010

USDA/Forest Service: Revised Notice of Intent to prepare an environmental impact statement on the Mexican Spotted Owl. Federal Register notice 7-31-92, page 33934.

V. SHORT TURNAROUND

**\*Please Note! Due to the short turnaround please comment directly to the Agency with a copy to OPB.**

A. State

12. UT920807-010

*Don*  
*[Signature]*

*PG & E Resources*

Division of Oil, Gas & Mining/Carbon County: Application for Permit to Drill - Proposal to drill a wildcat well, the Jensen No. 11-10 well, on a private lease (Sec. 10, T12S, R10E). Comments due 8-25-92.

13. UT920807-020

*PG & E*

Division of Oil, Gas & Mining/Carbon County: Application for Permit to Drill - Proposal to drill a wildcat well, the Jensen No. 9-10 well, on a private lease (Sec. 10, T12S, R10E). Comments due 8-25-92. 43-007-30154

14. UT920807-030

*PG & E*

Division of Oil, Gas & Mining/Carbon County: Application for Permit to Drill - Proposal to drill a wildcat well, the Jensen No. 5-10 well, on a private lease (Sec. 10, T12S, R10E). Comments due 8-21-92.

15. UT920810-070

*PG & E*

Division of Oil, Gas & Mining/Carbon County: Application for Permit to Drill - Proposal to drill a wildcat well, the Jensen 7-15 well, on a private lease (Sec. 15, T12S, R10E). Comments due 8-25-92.

16. UT920810-060

*PG 4 E*

Division of Oil, Gas & Mining/Carbon  
County: Application for Permit to Drill  
- Proposal to drill a wildcat well, the  
Jensen No. 16-10 well, on a private  
lease (Sec. 10, T12S, R10E).  
Comments due 8-25-92.

17. UT920810-050

*ESTATE OF  
THELMA SIMMONS  
(Re-entry)*

Division of Oil, Gas & Mining/San  
Juan County: Application for Permit to  
Drill - Proposal to drill a wildcat well,  
the 1-35-36-21 Zeke's Hole well, on  
federal lease U-57656 (Sec. 35, T36S  
R21E). Comments due 8-25-92.

B. Federal

18. UT920817-050

USDA/Forest Service/Beaver County:  
Fishlake National Forest - North  
Indian Cattle Allotment Management  
Plan - Scoping Document. Comments  
due 8-30-92.

19. UT920817-040

USDA/Forest Service/Beaver County:  
Fishlake National Forest - North  
Beaver Cattle Allotment Management  
Plan - Scoping document. Comments  
due 8-30-92.

20. UT920817-030

USDA/Forest Service: Fishlake  
National Forest - Wiffs Salvage Timber  
Sale (Sec. 34, T27S, R4E). This is not  
the complete document; if additional  
information is needed, please contact  
OPB. Comments due 8-25-92.

September 15, 1992



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

Attn: Frank Matthews

RE:Jensen #9-10  
API 43-007-30159  
Carbon County, UT

Dear Mr. Matthews:

Enclosed is Form 9 - Sundry Notice for the above referenced well.

If you should have further questions, please contact me at (214) 750-3958.

Yours very truly,

Ava Hurst  
Production Administrator  
Regulatory Affairs

/ah

Enclosure

RECEIVED

SEP 17 1992

DIVISION OF  
OIL, GAS & MINING



**CASTLEGATE PROJECT**  
**TYPICAL PRODUCING WELL COMPLETION PROCEDURE**  
**(5-1/2", 17#, N-80 CSG)**

1. MIRU WELL SERVICE UNIT.
2. GIH W/RB ON 2-7/8" TBG & D.O. DV TOOL.
3. CIRC HOLE CLEAN - TEST CSG TO 5000 PSI.
4. RUN CBL (IF REQUIRED).
5. PERFORATE LOWER STAR POINT COAL SECTION (TYPICALLY AROUND 4750' FOR ABOUT 60' OF GROSS INTERVAL, APPROX 20-30 HOLES).
6. TREAT LOWER COAL SEAM PERFS DOWN CSG W/1500 GALS 15% FE ACID W/ BALL SEALERS (TO OPEN ALL PERFS).
7. TREAT LOWER COAL SEAM PERFS DOWN CSG W/APPROX 60,000 GALS OF CMHEC CLEAN GEL SYSTEM W/90,000# 20/40 SD & 35,000# OF 100 MESH SD. EXPECT TO TREAT @ 60 BPM X 6000 PSI.
8. FORCE CLOSE FRAC.
9. FLOWBACK LOAD WATER.
10. SET RBP ON WL OVER LOWER COAL SEAM INTERVAL.
11. PERFORATE & TREAT UPPER COAL SEAM INTERVAL (TYPICALLY 4450' +/- SPREAD OVER 200'-300', 35 TOTAL HOLES).
12. DO BD ACID JOB AND FRAC AS BEFORE ON THE LOWER INTERVAL.
13. FORCE CLOSE FRACTURE.
14. FLOWBACK FRAC LOAD UP THE CSG.
15. RETRIEVE RBP W/TBG.
16. RUN MOYNO PRODUCTION PUMPING EQUIPMENT ON 2-7/8" N-80 TBG.
17. COMMENCE DE-WATERING OPERATIONS.

September 16, 1992



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

Re: Jensen #9-10  
Carbon County, Utah

Gentlemen:

Attached is Form 9 (in triplicate) to inform you of the spud and casing set on the above referenced well.

If you should have any further questions, please contact me at (214) 750-3958.

Yours very truly,

Ava Hurst  
Production Administrator  
Regulatory Affairs

/ah

Attachment

RECEIVED

SEP 21 1992

DIVISION OF  
OIL GAS & MINING





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

Form 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

6. Lease Designation and Serial Number	433396
7. Indian Allottee or Tribe Name	N/A
8. Unit or Communitization Agreement	N/A
9. Well Name and Number	Jensen #9-10
10. API Well Number	43-007-30159
11. Field and Pool, or Wildcat	Wildcat

Type of Well  
 Oil Well  
 Gas Well  
 Other (specify) CBM

Name of Operator  
 PG&E Resources Company

Address of Operator  
 6688 N. Central Expressway, Dallas, TX 75206

Location of Well  
 Footage : 2559' FSL & 909' FEL  
 QQ, Sec. T., R., M. : NE SE, Sec. 10, T12S-R10E

4. Telephone Number  
 (214) 750-3958

County : Carbon  
 State : UTAH

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

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

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

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

- Abandonment \*
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other Continued Injection Testing
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

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

Date of Work Completion \_\_\_\_\_

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

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

PG&E Resources Company respectfully requests approval to continue injection testing to gather additional data regarding the injection potential of the Spring Canyon Sand by conducting daily injection rate and surface pressure monitoring. The proposed testing would require approval to inject up to 1500 bbl per day of produced water for a period of 30 days. Injection rates and surface pressures will be recorded and used to evaluate injection potential further.

**APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING**  
DATE: 10-26-92  
BY: [Signature]

I hereby certify that the foregoing is true and correct

Name & Signature Ava Hurst Title Regulatory Affairs Date 10/27/92

State Use Only

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

6. Lease Designation and Serial Number 433396
7. Indian Allottee or Tribe Name N/A
8. Unit or Communitization Agreement N/A
9. Well Name and Number Jensen #9-10
10. API Well Number 43-007-30159
11. Field and Pool, or Wildcat Wildcat

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

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other (specify) CBM
2. Name of Operator PG&E Resources Company
3. Address of Operator 6688 N. Central Expressway, Dallas, TX 75206
4. Telephone Number (214) 750-3958
5. Location of Well Footage : 2559' FSL & 909' FEL County : Carbon QQ, Sec, T., R., M. : NE SE, Sec. 10, T12S-R10E State : UTAH

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

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

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

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

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

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

Date of Work Completion \_\_\_\_\_

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

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

PG&E Resources Company respectfully requests approval to continue injection testing to gather additional data regarding the injection potential of the Spring Canyon Sand by conducting daily injection rate and surface pressure monitoring. The proposed testing would require approval to inject up to 1500 bbl per day of produced water for a period of 30 days. Injection rates and surface pressures will be recorded and used to evaluate injection potential further.

RECEIVED  
OCT 30 1992  
DIVISION OF  
OIL, GAS & MINING

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

Name & Signature Ava Hurst    Ava Hurst    Title Regulatory Affairs    Date 10/27/92  
(State Use Only)

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<b>WELL COMPLETION OR RECOMPLETION REPORT AND LOG</b>						5. LEASE DESIGNATION AND SERIAL NO. 433396
1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other <u>CBM</u>						6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
1b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____						7. UNIT AGREEMENT NAME N/A
2. NAME OF OPERATOR PG&E Resources Company						8. FARM OR LEASE NAME Jensen
3. ADDRESS OF OPERATOR 6688 N. Central Expressway, Dallas, TX 75206-1822						9. WELL NO. #9-10
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 2559' FSL & 909' FEL At top prod. interval reported below same At total depth same						10. FIELD AND POOL, OR WILDCAT Wildcat
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>RECEIVED</b>  <b>OCT 30 1992</b>  <b>DIVISION OF OIL GAS &amp; MINING</b> </div>						11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA Se. 10, T12S-R10E
						14. API NO. 43-007-30159
15. DATE SPUNDED 8/10/92	16. DATE T.D. REACHED 8/27/92	17. DATE COMPL. (Ready to prod.) Pending (Plug & Abd.)	18. ELEVATIONS (DF, RES, AT, GR, ETC.)	19. ELEV. CASINGHEAD		
20. TOTAL DEPTH, MD & TVD 4930'	21. PLUG BACK T.D., MD & TVD 4832'	22. IF MULTIPLE COMPL., HOW MANY	23. INTERVALS DRILLED BY →	ROTARY TOOLS X	CABLE TOOLS	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)						25. WAS DIRECTIONAL SURVEY MADE Yes
26. TYPE ELECTRIC AND OTHER LOGS RUN <u>9-24-92</u> CBL SPECTRAL DENSITY DUAL SPACED NEUTRON DUAL IRRADIATION GUARD MICROLOG						27. GAS WELL CORED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> (Submit analysis) DRILL STEM TEST YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> (See reverse side)
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# J-55	498'	12 1/4"	275 sx C1 G +2% CaCl		0
7"	29 & 26#N-80	4930'	7 7/8"	400 sx 50/50 Poz +add		0
29. LINER RECORD						
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD) PACKER SET (MD)
					2 7/8"	4810'
31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		
4853'-4774' (84 holes)				DEPTH INTERVAL (MD)		
4705'-4746' (164 holes)				AMOUNT AND KIND OF MATERIAL USED		
1 spf						
33. PRODUCTION						
DATE FIRST PRODUCTION Pending		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)			WELL STATUS (Producing or shut-in)	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL. GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	→	OIL—BBL.	GAS—MCF.	WATER—BBL. OIL GRAVITY-API (CORR.)
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)						TEST WITNESSED BY
35. LIST OF ATTACHMENTS						
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records						
SIGNED <u>Ava Hurst</u>		TITLE <u>Regulatory Affairs</u>			DATE <u>10/27/92</u>	

## INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachments.

ITEMS 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

ITEM 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

ITEM 33: Submit a separate completion report on this form for each interval to be separately produced (see instruction for items 22 and 24 above).

37. SUMMARY OF POROUS ZONES: Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.				38. GEOLOGIC MARKERS		
Formation	Top	Bottom	Description, contents, etc.	Name	Top	
					Meas. Depth	True Vert. Depth
				Price River		2904'
				Castlegate		3354'
				Black Hawk		3658'
				Kenilworth		4368'
				Aberdeene		4559'
				Spring Canyon		4704'

January 29, 1993

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

Attn: Mr. Gil Hunt  
Manager

RE: Sundry Notices; Form 9  
**Jensen #9-10\***  
Carbon County, Utah

Dear Mr. Hunt:

Please find enclosed two (2) Sundry Notices (in duplicate) for the above referenced well. The Sundries reflect work performed to conduct step rate and falloff testing and the results of long-term injection testing. PG&E Resources respectfully requests this information be held confidential.

If you have any questions or need additional information, please contact the undersigned at (214) 706-3641.

Sincerely,



Michael Pierson  
Regulatory Analyst

MP\ap

cc: W. Sutton  
Central File  
Regulatory File

**RECEIVED**

FEB 01 1993

**DIVISION OF  
OIL GAS & MINING**

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

6. Lease Designation and Serial Number	433396
7. Indian Allottee or Tribe Name	N/A
8. Unit or Communitization Agreement	N/A

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

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other (specify) Coalbed Methane	
2. Name of Operator PG&E Resources Company	
3. Address of Operator 6688 N. Central Expwy., Ste 1000, Dallas, TX 75206	4. Telephone Number (214) 706-3641
5. Location of Well Footage 2559' FSL & 909' FEL QQ, Sec. T., R., M. NE SE Sec. 10, T12S-R10E County : Carbon State : UTAH	

9. Well Name and Number	Jensen #9-10
10. API Well Number	43-007-30159
11. Field and Pool, or Wildcat	Wildcat

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

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

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

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

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

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

Date of Work Completion \_\_\_\_\_

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

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

An extended injection test was conducted on the Spring Canyon sand. A total of 28,700 barrels of water were injected between November 3, 1992, and January 9, 1993. Evaluation of the results indicated good injection capacity. Daily injection volumes and tubing pressures are presented in the attached table.

**RECEIVED**

FEB 01 1993

DIVISION OF  
 OIL GAS & MINING

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

Name & Signature Michael Pierson      Michael Pierson Title Regulatory Analyst Date 1-29-93  
 (State Use Only)

**CONFIDENTIAL**

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

6. Lease Designation and Serial Number  
433396

7. Indian Allottee or Tribe Name  
N/A

8. Unit or Communitization Agreement  
N/A

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

1. Type of Well  
 Oil Well     Gas Well     Other (specify) Coalbed Methane

2. Name of Operator  
PG&E Resources Company

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

4. Telephone Number  
214-706-3641

9. Well Name and Number  
Jensen #9-10

10. API Well Number  
43-007-30159

11. Field and Pool, or Wildcat  
Wildcat

5. Location of Well  
Footage : 2559' FSL & 909' FEL  
County : Carbon  
QQ, Sec. T., R., M. : NE SE Sec. 10, T12S-R10E  
State : UTAH

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

NOTICE OF INTENT  
(Submit in Duplicate)

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

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

SUBSEQUENT REPORT  
(Submit Original Form Only)

- Abandonment \*
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other Performed steprate, falloff testing
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Date of Work Completion \_\_\_\_\_

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

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

1. MIRU well service unit. NU BOP. RIH w/6-1/8" bit, 7" csg scraper, x-over sub, (4) 3-1/2" drill collars and 2-7/8" tubing. Drilled out DV tool 3309'-3311'. Pressure tested casing to 1500 psi. CIH, cleaned out to PBD @ 4839'. Circulated hole with filtered lease water. POOH.
2. RU wireline. Ran CBL from 4840' to 500' with 1500 psi on casing. Pulled repeat section with 0 psi. POOH
3. Perforated the Spring Canyon sand from 4753' to 4774' and 4705-4746 with 4" casing guns at 4 spf.
4. RIH. Set packer at 4688'. Swab tested Spring Canyon and recovered water sample.
5. RU well testers. Performed steprate test.
6. SI well for 48 hours and obtained falloff tests.
7. POOH w/guages, packer. Ran 2-7/8" tubing open ended. ND BOP. NU well
8. RDMO.

**RECEIVED**

FEB 01 1993

DIVISION OF  
OIL GAS & MINING

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

Name & Signature Michael Pierson    Michael Pierson    Title Regulatory Analyst    Date 1-29-93

(State Use Only)

February 1, 1993

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

RECEIVED

FEB 02 1993

DIVISION OF  
OIL GAS & MINING

Attention: Mr. Gil Hunt,  
Manager

RE: Application for Water Disposal Wells  
Jensen and Shimmin Trust Leases  
Castlegate CBM Project  
Carbon County, Utah

Dear Mr. Hunt:

PG&E Resources Company respectfully requests approval to utilize the following wells for salt water disposal:

- Jensen #9-10,
- Jensen #16-10,
- Shimmin Trust #10-11,
- Shimmin Trust #11-11.

The enclosed applications have been prepared in accordance with R615-5-2 and are being submitted for your review and approval. If you have any questions or need additional information, please contact the undersigned at (214) 750-3988 or Michael Pierson at (214) 706-3641.

Sincerely,

*Jim LaFevers*

Jim LaFevers  
Supervisor,  
Regulatory Affairs

Enclosures

cc: W. Sutton/Central File  
M. Pierson  
Regulatory File

**CASTLEGATE PROJECT**  
**TYPICAL DUAL WIW**  
**COMPLETION PROCEDURE**  
(5-1/2", 26#, N-80 CSG)

1. MIRU WELL SERVICE UNIT.
2. GIH W/RB ON 2-7/8", N-80 WORKSTRING & D.O. DV TOOL.
3. CIRC HOLE CLEAN - TEST CSG TO 5000 PSI.
4. RUN CBL FROM PBD TO T.O.C.
5. PERFORATE SPRING CANYON SD (FOR INJECTION) @ APPROX 4750' +/- (60' OF NET INTERVAL, 4 SFP)
6. ACIDIZE SPRING CANYON DOWN CSG W/2000 GALS 15% HCL W/BALL SEALERS TO OPEN ALL PERFS.
7. FLOWBACK / SWAB L.A.W.
8. ESTABLISH WI RATE.
9. SET RBP OVER SPRING CANYON PERFS.
10. COMPLETE THE 2 COAL SECTIONS AS PER THE "TYPICAL PRODUCING WELL COMPLETION PROCEDURE".
11. RETRIEVE BP OVER SPRING CANYON PERFS.
12. RUN INJ PKR ON COATED 2-1/16" N-80 IJ TBG.
13. RUN MOYNO PROGRESSIVE CAVITY PUMP STATOR ON 2-7/8" N-80 PRODUCTION TBG W/TURNED DOWN COLLARS.
14. RUN MOYNO ROTOR ON 1" SR'S.
15. COMMENCE DE-WATERING AND WATER INJECTION OPERATIONS.



April 20, 1993

RECEIVED

APR 21 1993

DIVISION OF  
OIL GAS & MINING

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

Attention: Mr. Frank Mathews

RE: Castlegate CBM Project  
Carbon County, Utah

Gentlemen:

Attached is an original and one (1) copy of Form 9 "Sundry Notices and Reports on Wells," completion procedure and a schedule of the wells for the referenced project.

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

Very truly yours,

Cindy Keister  
Regulatory Analyst

CRK/ck

Attachments

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

6. Lease Designation and Serial Number	See Attached Schedule "A"
7. Indian Allottee or Tribe Name	NA
8. Unit or Communitization Agreement	NA
9. Well Name and Number	See Attached Schedule "A"
10. API Well Number	See Attached Schedule "A"
11. Field and Pool, or Wildcat	Wildcat

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. Type of Well  
 Oil Well     Gas Well     Other (specify)

2. Name of Operator  
 PG&E Resources Company

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

4. Telephone Number  
 214/750-3800

5. Location of Well  
 Footage : See Attached Schedule "A"  
 OO, Sec, T., R., M. : Jensen 9-10 Sec 10, T 12S, R 10E  
 43-007-30159 County : Carbon  
 State : UTAH

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

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

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

Approximate Date Work Will Start 05/01/93

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

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

Date of Work Completion \_\_\_\_\_

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

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

PG&E Resources Company requests approval for the attached Completion Procedure for the wells listed on Schedule "A". Daily reports will be furnished when completion operations commence.

**RECEIVED**

APR 21 1993

DIVISION OF  
OIL GAS & MINING

4-22-93  
J.M. Matthews

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

Name & Signature Cindy Keister Cindy Keister Title Regulatory Analyst Date 04/20/93  
 (State Use Only)

CASTLEGATE  
SCHEDULE 'A'

WELL NAME	LEASE SERIAL NO.	API NUMBER	Location	Qtr Sec.	Sec	Twshp	Range	County
State 2-16	UTU-65949	43-007-30133	780' FNL & 1971' FEL	NE NE	16	12S	10E	Carbon
Federal 4-13	UTU-65949	43-007-30126	1174' FNL & 1168' FWL	NW NW	13	12S	10E	Carbon
Federal 4-14	UTU-65949	43-007-30138	660' FNL & 450' FWL	NW NW	15	12S	10E	Carbon
Jensen 5-10	433396	43-007-30162	2065' FNL & 570' FWL	SW NW	10	12S	10E	Carbon
Jensen 7-15	FEE	43-007-30165	1650' FNL & 1650' FEL	SW NE	15	12S	10E	Carbon
Jensen 9-10	433396	43-007-30159	2559' FSL & 909' FEL	NE SE	10	12S	10E	Carbon
State 9-16	UTU-65949	43-007-30132	1993' FSL & 702' FEL	NE SE	16	12S	10E	Carbon
Shimmin Trust 10-11	FEE	43-007-30167	1999' FSL & 2006' FEL	NW SE	11	12S	10E	Carbon
Jensen 11-10	433396	43-007-30164	1735' FWL & 1461' FSL	NE SW	10	12S	10E	Carbon
Shimmin Trust 11-11	FEE	43-007-30166	2313' FSL & 1501' FWL	NE SW	11	12S	10E	Carbon
Jensen 11-15	FEE	43-007-30175	1896' FSL & 1709' FWL	NE SW	15	12S	10E	Carbon
Shimmin Trust 12-12	FEE	43-007-30168	2340' FSL & 1033' FWL	NW SW	12	12S	10E	Carbon
Shimmin Trust 14-12	FEE	43-007-30169	721' FSL & 2047' FWL	SE SW	12	12S	10E	Carbon
Federal 14-13	UTU-65949	43-007-30177	914' FSL & 1677' FWL	SE SW	13	12S	10E	Carbon
Federal 14-14	UTU-65949	43-007-30173	990' FSL & 1649' FWL	SE SW	14	12S	10E	Carbon
Jensen 16-9	FEE	43-007-30163	1198' FSL & 1059' FEL	SE SE	9	12S	10E	Carbon
Jensen 16-10	FEE	43-007-30161	330' FSL & 330' FEL	SE SE	10	12S	10E	Carbon
Federal 16-14	UTU-65949	43-007-30174	1124' FSL & 964' FEL	SE SE	14	12S	10E	Carbon
Federal 16-15	UTU-65949	43-007-30176	1091' FSL & 1043' FEL	SE SE	15	12S	10E	Carbon

APRIL 20, 1993

## WELL HISTORY

**9-10 Jensen**  
Castlegate Area  
Carbon County, Utah

- 08-02-92      Begin bldg road & location.
- 08-03-92      Bldg road & location.
- 08-04-92      Bldg road & location.
- 08-05-92      Bldg road & location.
- 08-06-92      Bldg location.
- 08-07-92      Bldg location.
- 08-08-92      Bldg location.
- 08-09-92      Bldg location.
- 08-10-92      Depth 215', MI Leon ROss spudder rig, drl 12-1/3" hole to 215'. SDFN.
- 08-11-92      Depth 410', Drlg 12-1/4" hole w/spudder rig. Surv @ 250' - 1/4°.
- 08-12-92      Drl 12-1/4" hole to 505' w/ spudder rig. LD DP, prep to run 9-5/8" csg, SDFN. Srvy .5° @ 500'.
- 08-13-92      Ran 9-5/8", 36#, J-55, ST&C csg to 498' GL. Cmtd to surf w/ 275 sx Class G + 2% CaCl<sub>2</sub>. Drl rat & mouse holes, prep to MI Adcor Rig #36.
- 08-14-92      MIRU Adcor #36.
- 08-15-92      MIRU Adcor #36. Install WH & NU BOPE.
- 08-16-92      Drlg 614', day 1, 96<sup>2</sup>/3 hrs, MW 8.3, Visc 26, WL N/C. Test BOPE & csg, PU DC's & drl to 614'. Trip for BHA, srvy 3° @ 570'.
- 08-17-92      Drlg 1289', day 2, 675<sup>2</sup>/22 hrs, MW 8.3, Visc 26, WL N/C. Srvy 3° @ 776' & 1150'. CC \$113,944.

## WELL HISTORY

9-10 Jensen  
Castlegate Area  
Carbon County, Utah

- 08-18-92 Drlg 2105', day 3, 816'/23 hrs, MW 8.3, Visc 26, WL N/C. Srvy 2.75° @ 1650'. CC \$118,824.
- 08-19-92 Drlg 2925', day 4, 820'/22 hrs, MW 8.3, Visc 26. Srvy 3.5° @ 2143', 4° @ 2610'. CC \$124,159.
- 08-20-92 Drlg 3290', day 5, 365'/17.5 hrs, MW 8.3, Visc 26, WL N/C. Trip for bit @ 2933', srvy 4.75° @ 3035'. CC \$133,769.
- 08-21-92 Drlg 3586', day 6, 296'/18 hrs, MW 8.7, Visc 34, WL 17. Trip for bit, rm to btm, srvy 4.5° @ 3545'. CC \$147,579.
- 08-22-92 Drlg 3970', day 7, 374'/23 hrs, MW 8.8, Visc 33, WL 15.
- 08-23-92 Depth 4270', trip for bit, day 8, 310'/22 hrs, MW 8.8, Visc 36, WL 21. Srvy 4.75° @ 4146'.
- 08-24-92 Drlg 4650', day 9, 380'/20 hrs, MW 8.9, Visc 33, WL N/C. Srvy 6° @ 4290'. CC \$169,692.
- 08-25-92 Drlg 4930', day 8, 280'/24 hrs. CC \$175,889.
- 08-26-92 Depth 4930', day 11 RU to run csg, MW 8.9, Vis 41, WL 16. Circ, TOH & log w/ HLS, TIH & cond f/csg, LD DP, RU to run 7" csg. CC \$188,640.
- 08-27-92 Depth 4930', day 12. Ran 7", 29# & 26#, N-80, LT&C csg to 4930'. Cmt 1st stage w/ 400 sx 50/50 Poz w/ add. Open DV & cmt 2nd stage w/ 292 sx Thrifty-Lite w/ add, tailed w/ 50 sx Class G. Closed DV & set slips. CC \$283,202.
- 08-28-92 RDMO RT. RR @ 9:00am 8-28-92. CC \$285,702. DROP UNTIL COMPLETION.

## WELL HISTORY

9-10 Jensen  
Castlegate Area  
Carbon County, Utah

- 09-24-92 Weld 7" bell nip on 7" csg, NU Larkin Type 'R' 2000# WP tbg head, set deadmen & tst deadmen to 20,000# pull, MIRU, SDFN. DC/CCC \$4565., CWC \$290,267.
- 09-25-92 Unload 2-7/8" tbg, NU BOP's, PU 6-1/8" bit, 7" csg scraper, x-over sub, (4) 3-1/2" DC & 99 jts 2-7/8" tbg. Tag cmt @ 3259' KB, drl 50' cmt 3259' to DV collar @ 3309' KB, drl 2' DV collar 3309-3311' KB, circ tbg clean, press tst csg to 1500# (ok), PU 2-7/8" tbg, tag @ 3738' KB. SDFN. CC \$29,854, CWC \$313,356.
- 09-26-92 0# SITP/SICP. PU power swivel, drl out 30' mud & cmt from 3738-3768' KB, trip in & tag @ 4832' KB, drl 6' cmt from 4832' to float collar @ 4838' KB, dsplc csg w/ 220 Bbl filtered prod wtr, trip out, LD DC, scraper & bit, SDFN. CCC \$33,534., CWC \$319,236.
- 09-27-92 Run CBL & perf w/ 4" csg gun 4853-4774' KB (84 holes) & 4705-4746' KB (164 holes), no action after perms. Trip in w/ xn-nip, pkr, 2 jts, x-nip & 146 jts. Set pkr w/ 20,000# w/ EOT @ 4688' KB. Swab tst, SDFN. CC \$42,416., CWC \$328,118.
- 09-28-92 75# SITP, 0# SICP. Swab tst 2 hrs, BFL @ 2800', rec'd 13 BW w/ show of gas, BFL @ 4615' KB, SDFN. CCC \$44,500., CWC \$330,202.
- 09-29-92 20# SITP, 0# SICP. Run bombs & PX plug assembly. Press tst lines & perform step rate tst. Set P prong in PX plug assembly @ 4615' KB, press tbg to 1400#, SDFN. CCC \$49,633., CWC \$335,335.
- 09-30-92 Well SI w/ btm hole press bombs. CCC \$50,543., CWC \$336,245.
- 10-01-92 Well SI w/ btm hole press bombs. CCC \$51,863., CWC \$337,565.

## WELL HISTORY

**9-10 Jensen**  
Castlegate Area  
Carbon County, Utah

10-02-92 0# SITP, 50# SICP. TIH w/ fishing tools, retrieve P prong on 1st trip, PX plug assy on 2nd trip & press gauges on 3rd trip. TOH w/ tbg & pkr, TIH w/ notched collar, seat nipple & 152 jts 2-7/8", 6.5#, J-55, EUE 8rd (turned dn special clearance couplings). ND BOP, land tbg @ 4810' KB. RDMO. CCC \$62,922., CWC \$348,624. FINAL REPORT.



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

6. Lease Designation and Serial Number 433396
7. Indian Allottee or Tribe Name NA
8. Unit or Communitization Agreement NA
9. Well Name and Number Jensen 9-10
10. API Well Number 43-007-30159
11. Field and Pool, or Wildcat Wildcat
County : Carbon State : UTAH

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

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other (Specify)	
2. Name of Operator PG&E Resources Company	
3. Address of Operator 6688 N. Central Expwy., Suite 1000, Dallas, TX 75206	4. Telephone Number (214) 750-3800
5. Location of Well Footage : 2559' FSL & 909' FEL County : Carbon QQ. Sec. T., R., M. : NE/4 SE/4 Sec. 10-T12S-R10E State : UTAH	

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

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

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

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

**SUBSEQUENT REPORT**  
(Submit in Duplicate)

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

Date of Work Completion \_\_\_\_\_

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

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

See attached well history.

**RECEIVED**

JUN 21 1993

DIVISION OF  
OIL, GAS & MINING

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

Name & Signature Cindy Keister    Cindy Keister    Title Regulatory Analyst    Date 06/17/1993

(State Use Only)

## WELL HISTORY

9-10 Jensen  
Castlegate Area  
Carbon County, Utah  
(PG&ER Operated)

- 05-21-93      MIRU.
- 05-22-93      RU BOP, RIH with RBP & tubing, set RBP at 4650' KB, pressure test to 1500 psi, spot 2 sacks sand, trip out, pressure test 7" casing & bridge plug to 5800 psi for 15 minutes & SDFN.
- 05-23-93      Set frac tanks.
- 05-24-93      Well SI, waiting on frac scheduled for 6-2-93. DROP UNTIL FURTHER ACTIVITY.
- 06-01-93      0 psi SICP. RU HLS, perf lower Black Hawk Coal zones with a 4" hollow steel carrier, .45" diameter holes & perf as follows: Zone #1 - 4534', 4536', 4538', 4540', 4543' & 4544'; Zone #2 - 4479', 4481', 4483', 4485' & 4486'; Zone #3 - 4464', 4466', 4467', 4468' & 4469'; Zone #4 - 4365', 4367' & 4369'; Zone #5 - 4353', 4355', 4356' & 4358'; Zone #6 - 4332', 4333', 4334', 4336', 4338', 4341' & 4343'. Well on slight vacuum after perf. RU Western, gelling frac fluid, plan to frac 6-2-93.
- 06-02-93      Acidize with 2000 gal 1.5% FE acid, frac well with 74,046 gal 35+ CMHEC gel containing 36,040# 100 mesh sand & 108,080# 16/30 sand, 59 BPM average rate, 1500 psi average pressure. Flow back 4 hours, 98 BW recovered, 1737 BLWTR.
- 06-03-93      Flow test 9 hrs, recovered 80 BW, 1657 BLWTR. Wash sand to bridge plug, move to 4325' KB. Perf Upper Black Hawk Coal Zones, well started flowing after perfining Zone #1, communication with Lower Zones previously forced. Flow test, recovered 7 BW, 1750 BLWTR.

## WELL HISTORY

9-10 Jensen  
Castlegate Area  
Carbon County, Utah  
(PG&ER Operated)

- 06-04-93 Flow test 3 hrs, recovered 14 BW, 1736 BLWTR. Well died, SI 9 hrs. Trip in with retrieving tool, wash 5' sand off bridge plug & release bridge plug at 4325' KB, move bridge plug to 4650' KB. Trip out with retrieving head, trip in with notched collar to 4559' KB, spot 4300# 16/30 sand, trip out to 3922' KB. Wait for sand to fall, trip in & tag sand at 4444' KB, trip out to 4302' KB & spot 44# 16/30 sand. Trip out to 3670' KB, wait for sand to fall, trip in and tag sand to 4254' KB & trip out. SDFN, gelling tanks preparing to frac 6-5-93.
- 06-05-93 Slight blow SITP. RU HLS, tag sand at 4163' KB, trip in with notched collar & circulate out 100' sand form 4163' to 4263' KBN, lost 25 BW while cleaning out sand. RU & perf with a 4" hollow stall carrier, .45" diameter holes, 23 gram charges, 19" TTP bored as follows: 4244', 4241', 4239', 4237', 4255', 4199', 4197', 4194', 4192', 4190', 4152' & 4148', total 12 holes. RU stinger & Western & acidize well with 2000 gal 7.5% FE acid containing 45 ball sealers, good ball action. Frac well with 69,384 gallons of 35# CMHEC gel containing 40,640# 100 mesh sand & 102,940# 16.30 sand.
- 06-06-93 Flow test well 11 hrs, trip in with notched collar, seat nipple & tubing. Tag sand at 4206' KB, clean out sand to 4260' BP, lost 75 BW while circulating. Well flowing back at 1-2 BPM and making sand on connections. Trip out to 3891' KB, circulate tubing clean, flow test 9.5 hrs, well died. Recovered 198 BW, 2954 BLWTR. Prep to run "After Log" today.

## WELL HISTORY

9-10 Jensen  
Castlegate Area  
Carbon County, Utah  
(PG&ER Operated)

- 06-07-93 Trip in, tag sand at 4260' KB, clean out sand to 4616' KB, lost 300 BW while circulating. Trip out to 3608' KB, RU HLS, run post-frac tracer scan log, log indicated frac height 4030' to 4289' with majority at 4186' to 4257'. Flow test 1 hr, recovered 40 BW. Trip in to 4049' KB, swab test 2 hrs, BFL at surface, recovered 80 BW, FFL at 400', 3134 BWLTR. SDFN.
- 06-08-93 0 psi SITP & SICP. Swab test 6 hrs, BFL at 200', recovered 309 BW, good show of gas after 5 hrs, well started flowing. Tag sand at 4575' KB with sand line, flow test 17 hrs, 0-65 psi FTP, 3/4" choke, 0-875 psi ISCP, recovered 658 BW & no measurement of gas. Total recovered for day - 967 BW, 2167 BWLTR.
- 06-09-93 Flow test 24 hrs, 65-240 psi FTP, 1/2-3/4" choke. 875-1250 psi SICP, recovered 1381 BW, no gas, 786 BWLTR.
- 06-10-93 Killed well, WIH with retrieving tool on 2-7/8" tubing & tag sand at 4588'. Clean out to 4650', POOH with BP. WIH with notched collar on 2-7/8" tubing, tag sand at 2829', clean out to 4840' & SDFN.
- 06-11-93 0 psi SITP & SICP. WIH with 2-7/8" tubing, tag PDB at 4840'. POOH, RIH & set Otis PL packer on 2-7/8 tubing at 4655', POOH with tubing & SDFN.
- 06-12-93 0 psi SICP. RIH with 2-1/16" internally coated tubing with dual landing block. Latched onto PL packer at 4655' & landed with 4000# tension (dual landing block at 4617'). Otis set 'N' plug in packer & tested 2-1/16" tubing to 2500 psi, SI for 15 minutes & SDFN.

## WELL HISTORY

9-10 Jensen  
Castlegate Area  
Carbon County, Utah  
(PG&ER Operated)

RECEIVED

JUN 21 1993

DIVISION OF  
OIL, GAS & MINING

- 06-13-93 0 psi SITP & SICP. RIH with 2-7/8" internally coated tubing with SC Cplgs - latch into dual anchor block at 4617'. NU tree, inject filtered produced water down 2-1/16" tubing side at 2 BPM x 1000 psi. Swab tested producing side 4 hrs, recovered 160 BW (FFL at 6000') & some 16/30 frac sand on last run. SDFN.
- 06-14-93 2-1/16" - 0 psi SITP, 2-7/8" - 25 psi SITP, 420 psi SICP. Swab test 11 hrs, BFL at 500', recovered 475 BW, trace of 16/30 sand on some swab runs. EFL at 700', recovered 566 BW. 1280 psi SICP at end of day. Prep to run PC pump & KUDU drive head assembly & POP. SDFN.
- 06-15-93 2-1/16" - 0 psi TP, 2-7/8" - 50 psi TP. Swab 1 hr, received 75 BW (tag FL at 650'), killed well, NU BOP's & POOH with 2-7/8" tubing, WIH with PC pump cavity on 2-7/8", J-55 coated tubing (with SC couplings). SDFN.
- 06-16-93 2-1/16" SITP= 0, 2-7/8" SITP=0. Finish trip in w/2-7/8" tbg. Nipple down BOP. Land 2-7/8" tbg in 8000# tension at 4617' KB. Nipple up 2-1/16" tree & 2-7/8" pumping tee. Pick up pump rotor, 1 - 1" x 4' pony, 182 - 1" rods w/3 rod guides/rod, 1 - 1" x 8' pony & 1 - 1/2" x 30' polish rod. RU rotary drive head & hang well off. SWIFN.

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

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Use APPLICATION FOR PERMIT— for such proposals

6. Lease Designation and Serial Number	433396
7. Indian Allottee or Tribe Name	N/A
8. Unit or Communitization Agreement	N/A
9. Well Name and Number	Jensen #9-10
10. API Well Number	43-007-30159
11. Field and Pool, or Wildcat	

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other (specify) Coalbed Methane
2. Name of Operator PG&E Resources Company
3. Address of Operator 6688 N. Central Expressway, Dallas, TX 75206
4. Telephone Number (214) 750-3958
5. Location of Well Footage : 2559' FSL & 909' FEL County : Carbon QQ, Sec. T., R., M. : NE SE Sec. 10, T12S-R10E State : UTAH

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

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

<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction
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<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion
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<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Other _____	

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

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction
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<input type="checkbox"/> Other <u>Well History</u>	

Date of Work Completion \_\_\_\_\_

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

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

Attached is the well history for the above referenced well.

**RECEIVED**  
OCT 13 1992  
DIVISION OF  
OIL GAS & MINING

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

Name & Signature Ava Hurst Title Regulatory Affairs Date 10/7/92  
(State Use Only)

August 16, 1993



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

RE: Jensen 9-10  
Section 10, T12S-R10E  
Carbon County, Utah

Gentlemen:

Attached is an original and two copies of Form 8 "Well Completion or Recompletion Report and Log" for each completion. The Jensen 9-10 has been completed as a gas well in the Black Hawk Coal Seam and as a SWD well in the Spring Canyon.

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

Very truly yours,

Cindy R. Keister  
Sr. Regulatory Analyst

CRK/ck

Attachments

cc: Regulatory File  
Central Files

RECEIVED

AUG 18 1993

DIVISION OF  
OIL, GAS & MINING

DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NO.  
433396

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
NA

7. UNIT AGREEMENT NAME  
NA

8. FARM OR LEASE NAME  
Jensen

9. WELL NO.  
9-10

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
Sec. 10, T12S-R10E

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

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

2. NAME OF OPERATOR  
PG&E Resources Company

3. ADDRESS OF OPERATOR  
6688 N. Central Expwy., Suite 1000, Dallas, TX 75206

4. LOCATION OF (Report location clearly and in accordance with any State requirements)  
At surface 2559' FSL & 909' FEL NE/4 ME/4 SE/10  
At top prod. interval reported below Same  
At total depth Same

14. API NO. 43-007-30159 DATE ISSUED 08/06/92

12. COUNTY Carbon 13. STATE Utah

15. DATE SPUNDED 08/12/92 16. DATE T.D. REACHED 08/25/92 17. DATE COMPL. (Ready to prod., or Plug & Abd.) 07/15/93 18. ELEVATIONS (DF, RKB, RT, GR, ETC.) 7172' RKB

20. TOTAL DEPTH, MD & TVD 4930' 21. PLUG, BACK T.D., MD & TVD 4840' 22. IF MULTIPLE COMPL., HOW MANY 2 23. INTERVALS DRILLED BY 23

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)  
Spring Canyon 4705-74'

25. WAS DIRECTIONAL SURVEY MADE  
No

26. TYPE ELECTRIC AND OTHER LOGS RUN  
Dual Ind Guard/Spectral Density Dual Spaced Neutron/Microlog

27. WAS WELL CORED YES  NO  (Submit analysis)  
DRILL STEM TEST YES  NO  (See reverse side)

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#	500'	12-1/4"	275sx Class "G"	0
7"	26# & 29#	4930'	8-3/4"	400sx 50/50 Poz	0
		DV Tool 3343'		290sx Class "G" + 50sx Class "G"	

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-1/16"	4688'	4656'

31. PERFORATION RECORD (Interval, size and number)

4705-46' 84 holes  
4753-74' 164 holes

32. ACID, SHOT, FRACTURE, CEMENT

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION

DATE FIRST PRODUCTION 07/17/93 PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)

WELL STATUS (Producing or shut-in) Active

DATE OF TEST HOURS TESTED CHOKE SIZE PROD'N. FOR TEST PERIOD OIL--BBL. GAS--MCF. WATER--BBL. GAS-OIL RATIO

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

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

35. LIST OF ATTACHMENTS

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

SIGNED Cindy R. Keuster TITLE Sr. Regulatory Analyst DATE 08/16/1993

DIVISION OF OIL, GAS AND MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NO.

433396

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT AGREEMENT NAME

NA

8. FARM OR LEASE NAME

Jensen

9. WELL NO.

9-10

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 10, T12S-R10E

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_  
 b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR  Other \_\_\_\_\_

2. NAME OF OPERATOR  
 PG&E Resources Company

3. ADDRESS OF OPERATOR  
 6688 N. Central Expwy., Suite 1000, Dallas, TX 75206

4. LOCATION OF (Report location clearly and in accordance with any State requirements)\*  
 At surface 2559' FSL & 909' FEL NE/4 NE/4 Sec. 10

At top prod. interval reported below Same  
 At total depth Same

AUG 18 1993  
 DIVISION OF OIL, GAS & MINING

14. API NO. 43-007-30159 DATE ISSUED 08/06/92

12. COUNTY Carbon 13. STATE Utah

15. DATE SPUNDED 08/12/92 16. DATE T.D. REACHED 08/25/92 17. DATE COMPL. (Ready to prod. or Plug & Abd.) 07/15/93 18. ELEVATIONS (DF, RKB, RT, GR, ETC.) 7172' RKB 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 4930' 21. PLUG, BACK T.D., MD & TVD 4840' 22. IF MULTIPLE COMPL., HOW MANY 2 23. INTERVALS DRILLED BY 2 24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD) Black Hawk Coal Seam 4,144-544'

ROTARY TOOLS X CABLE TOOLS

25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Ind Guard/Spectral Density Dual Spaced Neutron/Microlog  
 27. WAS WELL CORED YES  NO  (Submit analysis)  
 DRILL STEM TEST YES  NO  (See reverse side)

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#	500'	12-1/4"	275sx Class "G"	0
7"	26# & 29#	4930'	8-3/4"	400sx 50/50 Poz	0
		DV Tool 3343'		290sx Class "G" + 50sx Class "G"	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	30. TUBING RECORD	PACKER SET (MD)
					2-7/8"	4637' Landing Block @ 4125'

31. PERFORATION RECORD (Interval, size and number)

4144-311'	0.45"	25 holes
4332-544'	0.45"	30 holes

32. ACID, SHOT, FRACTURE, CEMENT

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4332-344'	2000 gals 7-1/2% FE Acid + 45 balls 74046 gals 35# CMHEC gel + 36040# 100 mesh + 108,080# 16/30 sand

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)	WELL STATUS (Producing or shut-in)
07/15/93	Pumping - Hyland 3-1/2" OD Model 120 progressive Cavity Pump	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BBL.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO
07/15/93	13	NA	0	0	193	NA	

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL--BBL.	GAS--MCF.	WATER--BBL.	OIL GRAVITY-API (CORR.)
NA	0	0	0	0	356	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
 Well not producing measurable gas, currently dewatering.  
 TEST WITNESSED BY Mike McMican

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 Candy R. Keister TITLE Sr. Regulatory Analyst DATE 08/16/1993

## INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachments.

ITEMS 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

ITEM 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

ITEM 33: Submit a separate completion report on this form for each interval to be separately produced (see instruction for items 22 and 24 above).

37. SUMMARY OF POROUS ZONES: Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.				38. GEOLOGIC MARKERS		
Formation	Top	Bottom	Description, contents, etc.	Name	Top	
					Meas. Depth	True Vert. Depth
Black Hawk	3658'	4154'	Natural gas	Price River ss		2904'
				Castlegate ss		3354'
				Black Hawk		3658'
				Kenilworth ss		4368'
				Aberdeen ss		4559'
				Spring Canyon		4704'

## INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

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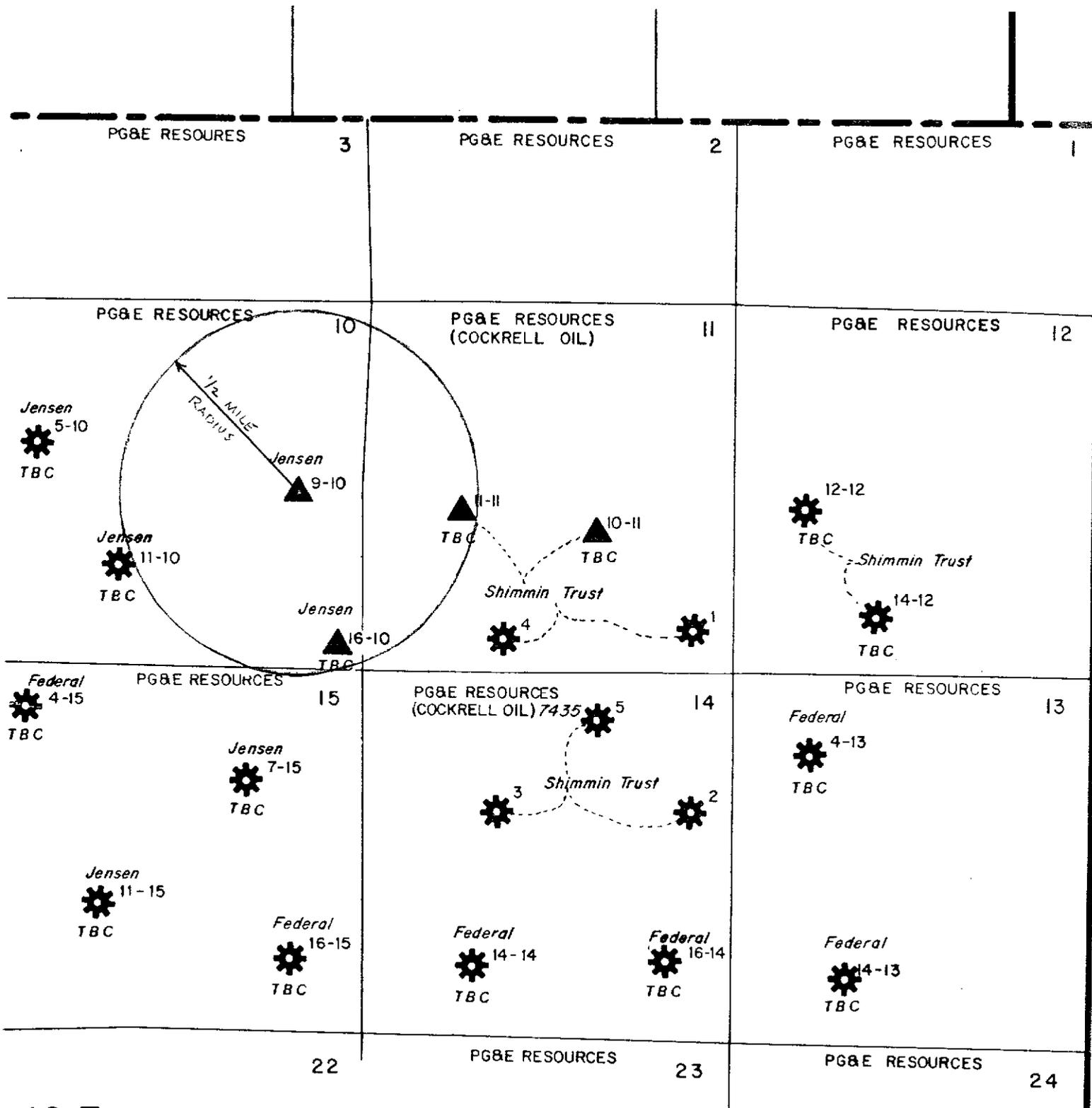
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				Castlegate ss		3354'
				Black Hawk		3658'
				Kenilworth ss		4368'
				Aberdeen ss		4559'
				Spring Canyon		4704'

B. PLATS



CARBON COUNTY

6

5

7

PG&E RESOURCES

8

PG&E RESOURCES

(COCKRELL OIL)  
1210-0806



Federal



7-9

Jens



TBC

18

17

PG&E RESOURCES 2-16



TBC



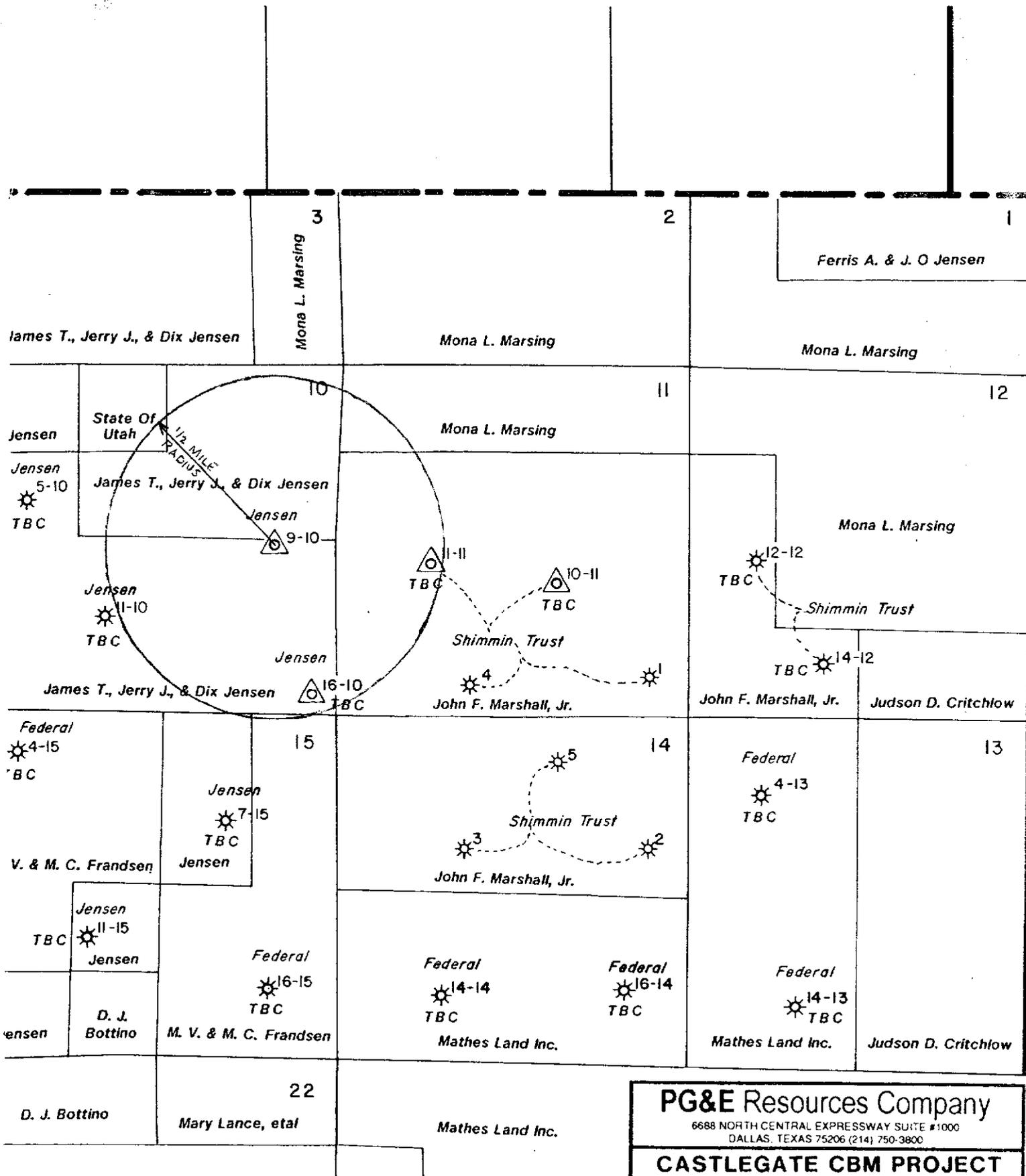
TB

19

20

State

T 12 S



10 E

COMPLETED IN 1993

**LEGEND**

☀ PRODUCING WELLS

△ SALT WATER DISPOSAL WELLS (PROPOSED)

**PG&E Resources Company**  
 6688 NORTH CENTRAL EXPRESSWAY SUITE #1000  
 DALLAS, TEXAS 75206 (214) 750-3800

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**CASTLEGATE CBM PROJECT  
 CARBON COUNTY, UTAH**

---

**SURFACE OWNERSHIP**

0                      2000                      4000  
 \_\_\_\_\_  
 SCALE IN FEET

---

GEOLOGY BY:                      CONTOUR INTERVAL:  
 DATE: DECEMBER 9, 1992                      REVISION: 12-18-92

CARBON COUNTY

6

5

U.S.A.

James T., Jerry J., & Dix Jensen

James T., Jerry J., & Dix Jensen

James T., Jerry J., & Dix Jensen

7

8

James T., Jerry J., & Dix Jensen

James T., Jerry J. & Dix Jensen

James T., Jerry J., & Dix Jensen

U.S.A.

1210-0806



U.S.A.

Federal  
Sun 7-9

U.S.A.

Jens



TBC

James T., Jerry J., & Dix Jensen

James T., Jerry J., & Dix Jensen

James T., Jerry J., & Dix Jensen

18

17

James T., Jerry J., & Dix Jensen

James T., Jerry J., & Dix Jensen

Sun 2-16  
TBC

James T., Jerry J., & Dix Jensen



TBC

U.S.A.

U.S.A.

State Of Utah

19

20

T 12 S

C. WELL LOGS

The following well logs were run on the subject well by Halliburton Logging Services, Inc. and have been previously submitted to the Division of Oil, Gas and Mining:

<u>Date Logged</u>	<u>Type of Log</u>
August 25, 1992	Spectral Density - Dual Spaced Neutron Log
August 25, 1992	Dual Induction Guard Log

D. CEMENT BOND LOG

An Acoustic Cement Bond Log was run on the subject well by Halliburton Logging Services, Inc. on September 26, 1992 and has been previously submitted to the Division of Oil, Gas and Mining.

E. CASING PROGRAM

This well was drilled, casing was set and the well was completed in the Spring Canyon Sand (perforations 4,705' to 4,746' and 4,753' to 4,774') on October 2, 1992. This well has been used for injectivity testing. In early 1993, the well will be dually completed. Perforations will be added to the Blackhawk formation, which will be produced through the upper 2-7/8" tubing, and the existing perforations will be used for disposal of salt water into the Spring Canyon Sand through the lower 2-1/16" tubing (contingent upon receiving a disposal permit).

	<u>Surface Casing</u>	<u>Production Casing</u>	<u>DV Tool</u>
Hole Size	12-1/4"	8-3/4"	8-3/4"
Casing Size	9-5/8"	7"	7"
Weight (lbs/ft)	36	26 & 29	
Grade	J-55	N-80	
Setting Depth	498'	4,930'	3,309'
Amount of Cement	275 sacks	400 sacks	340 sacks
Type of Cement	Class G	50/50 Pozmix	Class G
Slurry Volume	327.25	508	1,095.2
Top of Cement	Surface	3,309'	Surface
Date Set	8-13-92	8-27-92	8-27-92
PBTD		4,840'	

F. CASING TEST PROGRAM

In lieu of a conventional Mechanical Integrity Test (MIT), a Radioactive Tracer

Survey will be performed. The radioactive isotope will be injected down the 2-1/16" tubing to verify the path taken by the injection fluids. This will insure that the injection fluids cannot enter any strata other than the Spring Canyon Sand and also insure integrity of the tubing and packer.

**G. INJECTION FLUID**

The injection fluid will consist of saltwater containing in excess of 6,500 mg/l TDS. The saltwater is a byproduct of gas production from the Blackhawk Coal formation. The proposed daily injection rates are: maximum - 6,500 barrels per day, average - 5,000 barrels per day.

**H. INJECTION PRESSURES**

The proposed injection pressures are: maximum - 2,000 psig, average - 1,500 psig.

**I. REVIEW OF WELLS WITHIN 1/2 MILE RADIUS**

Listed below is a review of the casing and cement programs for the three (3) offset wells which are located within a one-half (1/2) mile radius of the Jensen #9-10 well. All of these wells have been cased and cemented in a manner which will prevent migration of the injection fluids up or down the wellbore and will prevent entry of injection fluids into improper zones.

Jensen 11-10

	<u>Surface Casing</u>	<u>Production Casing</u>	<u>DV Tool</u>
Hole Size	12-1/4"	7-7/8"	7-7/8"
Casing Size	8-5/8"	5-1/2"	5-1/2"
Weight (lbs/ft)	24	17	
Grade	K-55	N-80	
Setting Depth	500'	4,612'	3,305'
Amount of Cement	370 sacks	290 sacks	330/50
Type of Cement	Premium	50/50 Pozmix	Pozmix/Class G
Slurry Volume	436.6	356.7	1,200.3
Top of Cement	Surface	3,305'	Surface
Date Set	8-29-92	9-16-92	9-16-92
PBTD		4,566'	

Jensen 16-10

	<u>Surface Casing</u>	<u>Production Casing</u>	<u>DV Tool</u>
Hole Size	12-1/4"	8-3/4"	8-3/4"
Casing Size	9-5/8"	7"	7"
Weight (lbs/ft)	36	26 & 29	
Grade	J-55	N-80	
Setting Depth	525'	4,695'	3,267'
Amount of Cement	275 sacks	290 sacks	295 sacks
Type of Cement	Class G	50/50 Pozmix	Class G
Slurry Volume	324.5	391.5	909.6
Top of Cement	Surface	3,267'	Surface
Date Set	8-26-92	9-11-92	9-11-92
PBTD		4,609'	

Shimmin Trust 11-11

	<u>Surface Casing</u>	<u>Production Casing</u>	<u>DV Tool</u>
Hole Size	12-1/4"	8-3/4"	8-3/4"
Casing Size	9-5/8"	7"	7"
Weight (lbs/ft)	36	26 & 29	
Grade	J-55	N-80	
Setting Depth	529'	4,997'	3,293'
Amount of Cement	275 sacks	400 sacks	350 sacks
Type of Cement	Class G	50/50 Pozmix	Class G
Slurry Volume	327.25	528	1,131
Top of Cement	Surface	3,293'	Surface
Date Set	9-7-92	9-25-92	9-25-92
PBTD		4,908'	

J. GEOLOGIC DATA

The proposed injection zone is the Spring Canyon sandstone, which occurs at a depth of 4,473 to 4,869 feet. The Spring Canyon is a Cretaceous age sandstone of the Mesaverde Group that consists of fine to medium grained, sub-angular to sub-rounded marine sand, interbedded with siltstone and shale. Minor fractures are also believed to exist in the Spring Canyon. Sand thickness is 58 to 129 feet, based on a minimum density porosity cutoff of 8 percent. Confinement is provided by the Mancos shale below, and the interbedded sand, shale, and siltstone of the Aberdeen and Kenilworth formations above.

With the current well control, the lateral extent of the Spring Canyon includes the entire project area, (T12S-R10E). Although not every well was drilled to the Spring

Canyon, the wells that did penetrate the sand showed a thickening to the east.

At this time, there appears to be no structural or stratigraphic limitations which would effect the conveyance and/or storage of the injected water.

**K. WELLBORE DIAGRAM**

The attached wellbore diagram indicates the configuration of the wellbore and downhole equipment once completion operations are finished in 1993.

**L. INJECTIVITY DATA**

Step Rate/Falloff Tests have been performed on the Jensen #9-10 and Shimmin Trust #2 wells. The results of these tests are attached.

**M. LABORATORY TESTS**

Laboratory analyses have been performed on the following water samples and copies are attached:

Shimmin Trust #1 - Blackhawk produced water  
Shimmin Trust #2 - Blackhawk produced water  
Shimmin Trust #3 - Blackhawk produced water  
Shimmin Trust #4 - Blackhawk produced water  
Shimmin Trust #5 - Blackhawk produced water  
Jensen #9-10 - Blackhawk produced water (injection sample)  
Jensen #9-10 - Spring Canyon formation water (swab sample)

Oilab Petroleum Laboratory and Gas Engineering, the laboratory which performed these analyses, has indicated on the Jensen #9-10 reports that the Blackhawk produced water and the Spring Canyon formation water are compatible.

N. AFFIDAVIT OF NOTIFICATION

To whom it may concern:

Copies of the UIC Form 1 application for the Jensen #9-10 well have been mailed to the following on January 29, 1993.

**OFFSET OPERATORS: NONE**

**SURFACE OWNERS:**

Melvin Vern & Mary C. Frandsen  
506 South 100 West  
American Fork, Utah 84003

James T., Jerry J. & Dix Jensen  
c/o Jensen Law Offices  
190 North Carbon Avenue  
Price, Utah 84501

John F. Marshall Trustee  
for Dean Carlyle Shimmin Trust  
1495 East 2050 North  
Provo, Utah 84604

Mona L. Marsing  
4300 East 8900 South  
Price, Utah 84501

State of Utah Land Easement No. 110  
Division of State Lands and Forestry  
3 Triad Center, Suite 320  
Salt Lake City, Utah 84180-1203

  
\_\_\_\_\_  
Signature

Jim LaFavers  
Name

Supervisor, Regulatory Affairs  
Title

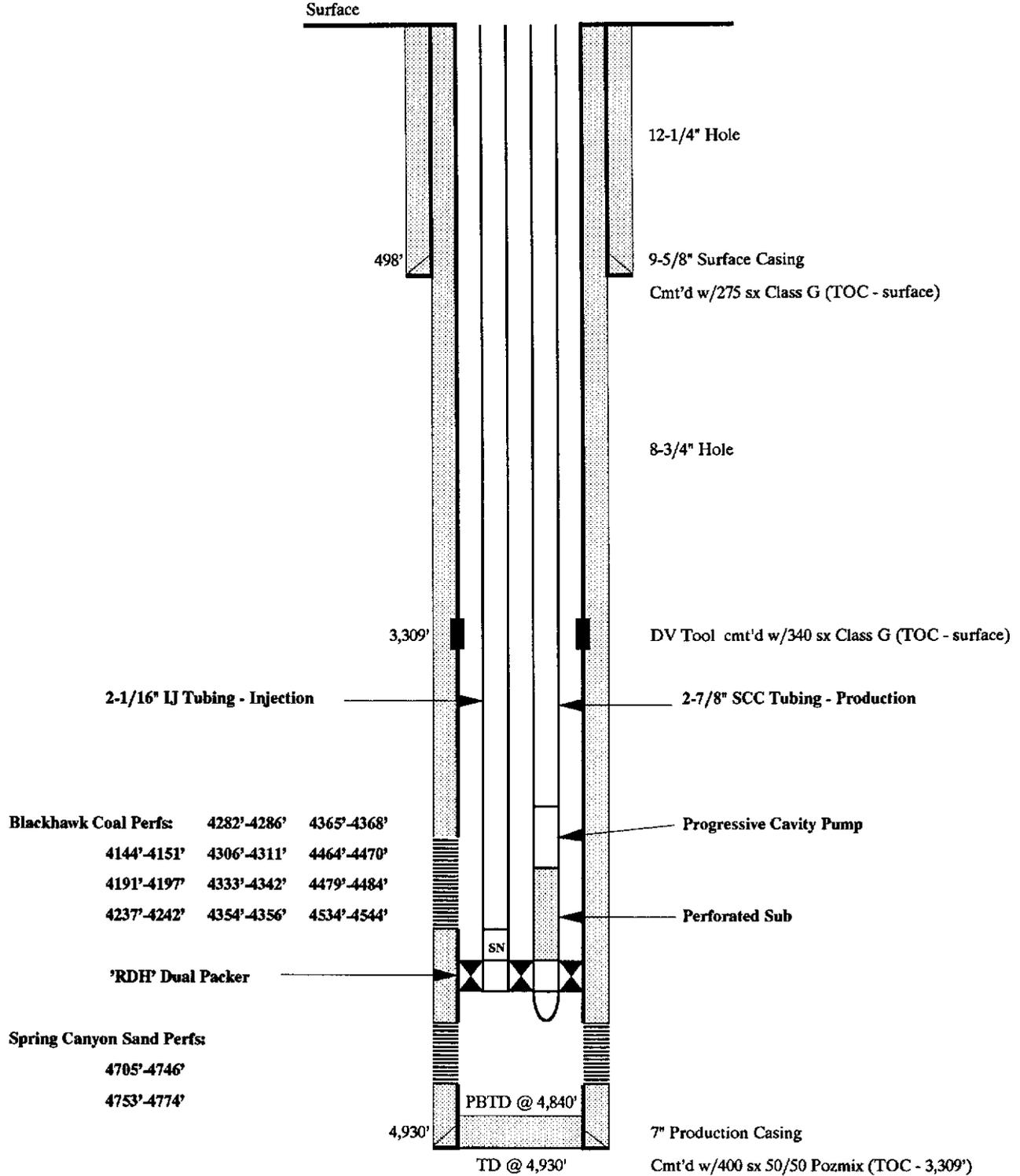
(214) 750-3988  
Telephone

February 1, 1993  
Date

# JENSEN NO. 9-10

Castlegate Field  
Carbon County, Utah

Sec 11-T12S-R10E



**Jensen #9-10**  
**Steprate/Falloff Testing Results (Spring Canyon sand)**  
**Castlegate Field**  
**Carbon County, Utah**

The Jensen No. 9-10 was perforated in the Spring Canyon sand from 4705'-46' and 4753'-74' (CNL) at 2 spf for a steprate/falloff test. A general description of the results follows and copies of pertinent graphs are attached.

A swab sample was obtained from 4705'-74'. Comparison of the Spring Canyon water analysis from the swab sample to the analysis of the coal bed produced water sample which was used for injection tests indicated the TDS is slightly higher in the Spring Canyon, 10520 mg/l vs. 8250 mg/l. Chlorides in the Spring Canyon were measured at 2610 mg/l. The waters are very similar in composition and are compatible. A complete analysis of each sample is attached.

Results from the steprate/falloff test on the Spring Canyon sand indicated a closure pressure of 2299 psi. Horner evaluation of the falloff indicated permeability of 13.2 md, skin of -5.7, and a radius of investigation of 1541 feet. Average reservoir pressure was determined to be 1953 psi. Closure pressure and average reservoir pressure were corrected to mid-perf. The final rate of the steprate test was 3.5 bbl/min or 5040 bbl/day with surface pressure of 815 psi. A total of 1512 bbls of water were injected into the Spring Canyon.

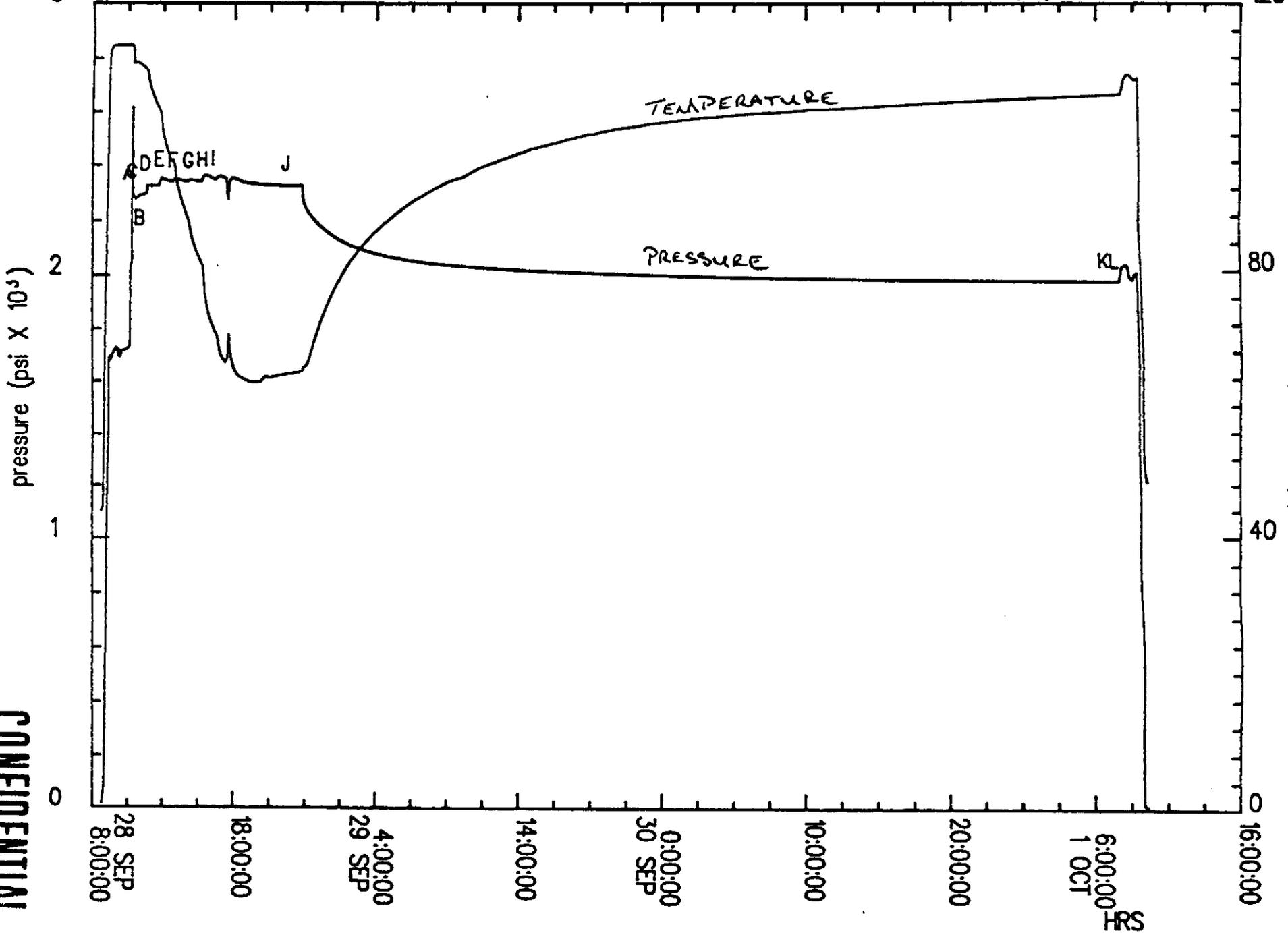
Comparison of the fracture gradients from the above closure pressures indicated that the Spring Canyon sand (0.51 psi/ft) will be bound by the shale above and below the zone which have fracture gradients (as determined from the Shimmin Trust No. 2 testing) of 0.63 psi/ft and 0.54 psi/ft, respectively.

# Pressure/Temperature History

Test No: 1  
Gauge No: 10597

Well No: 9-10  
JENSEN

Company: PG&E RESOURCES 120



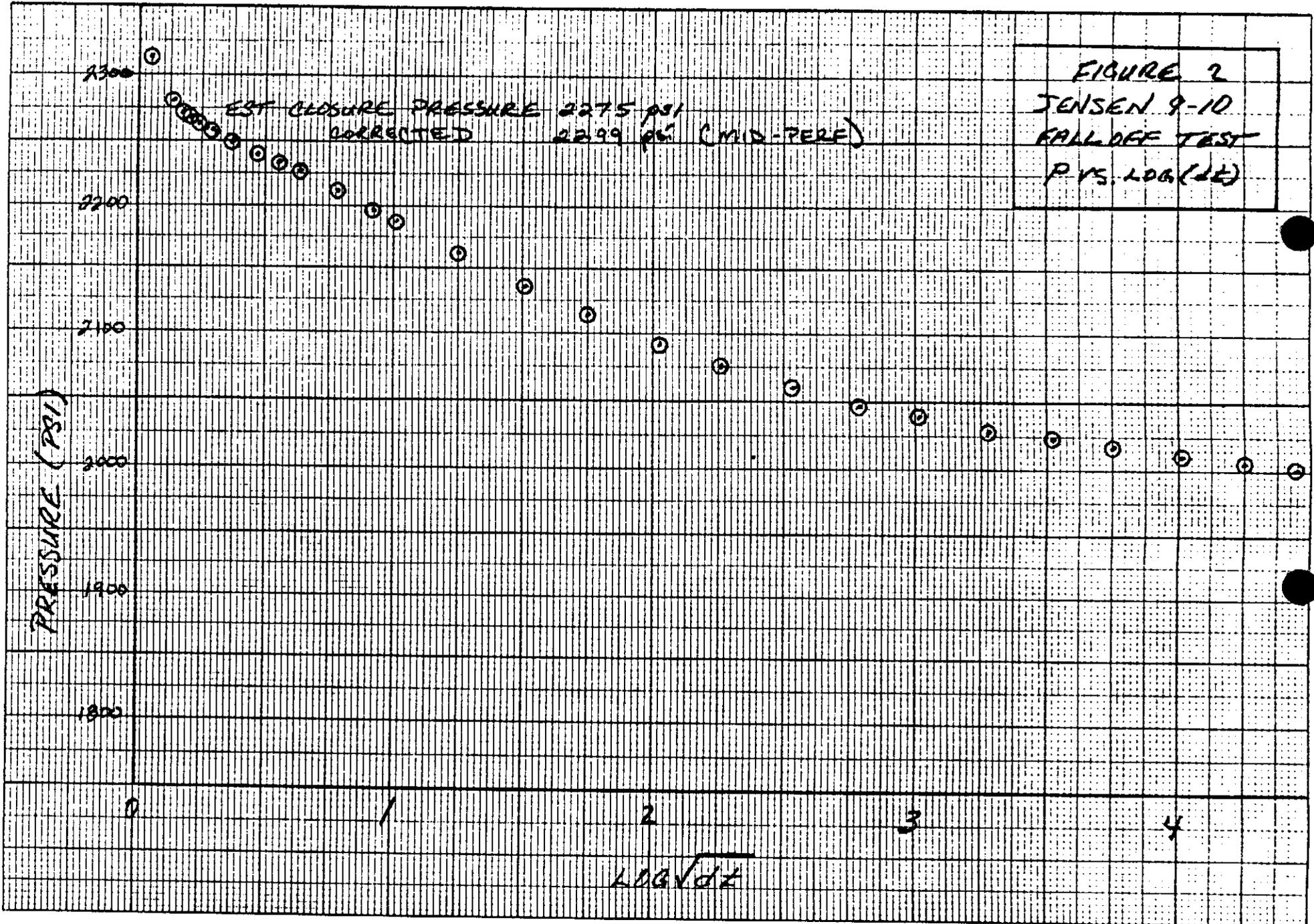
Date: 28-SEP-92

Plot No: 005134

temperature (F)

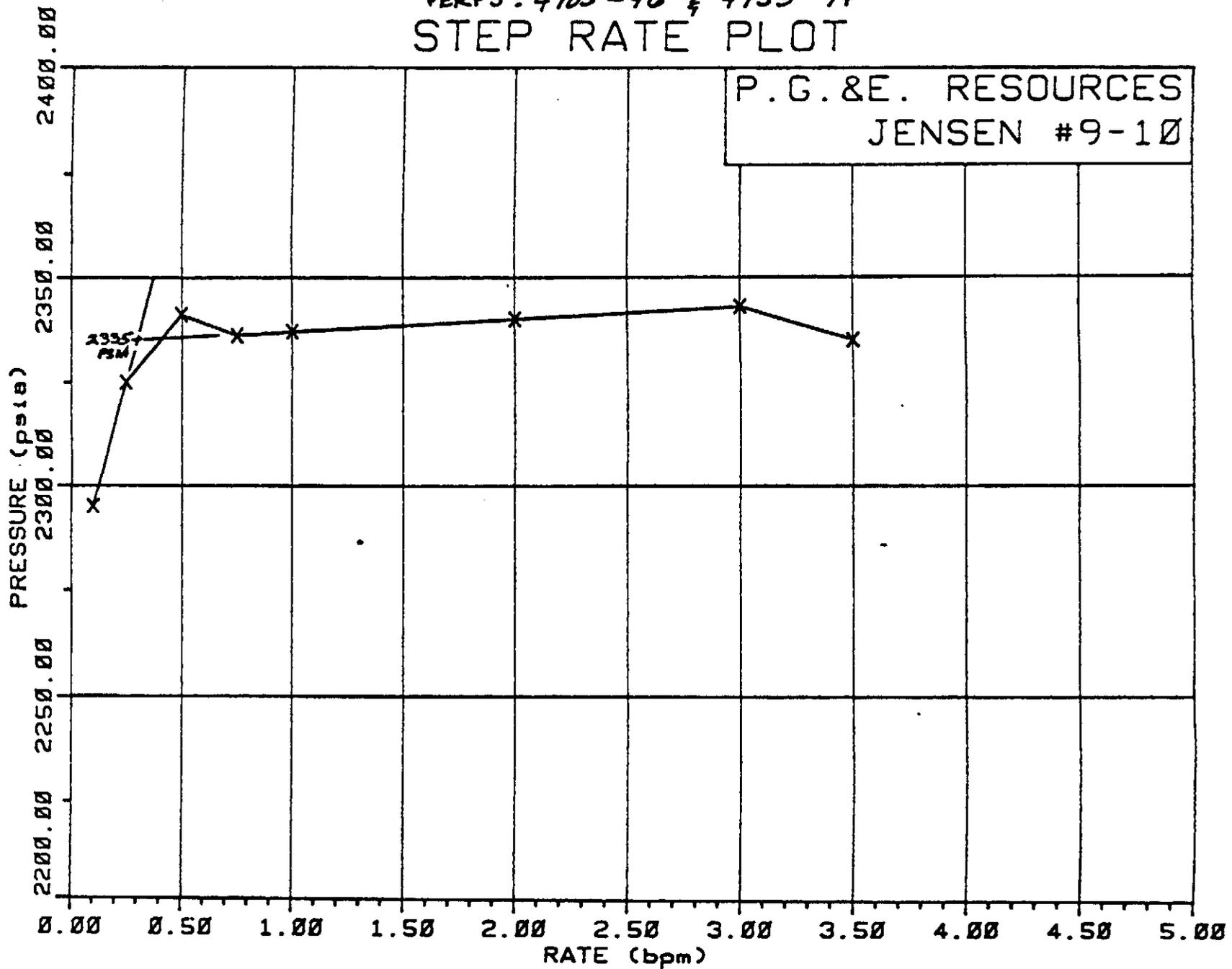
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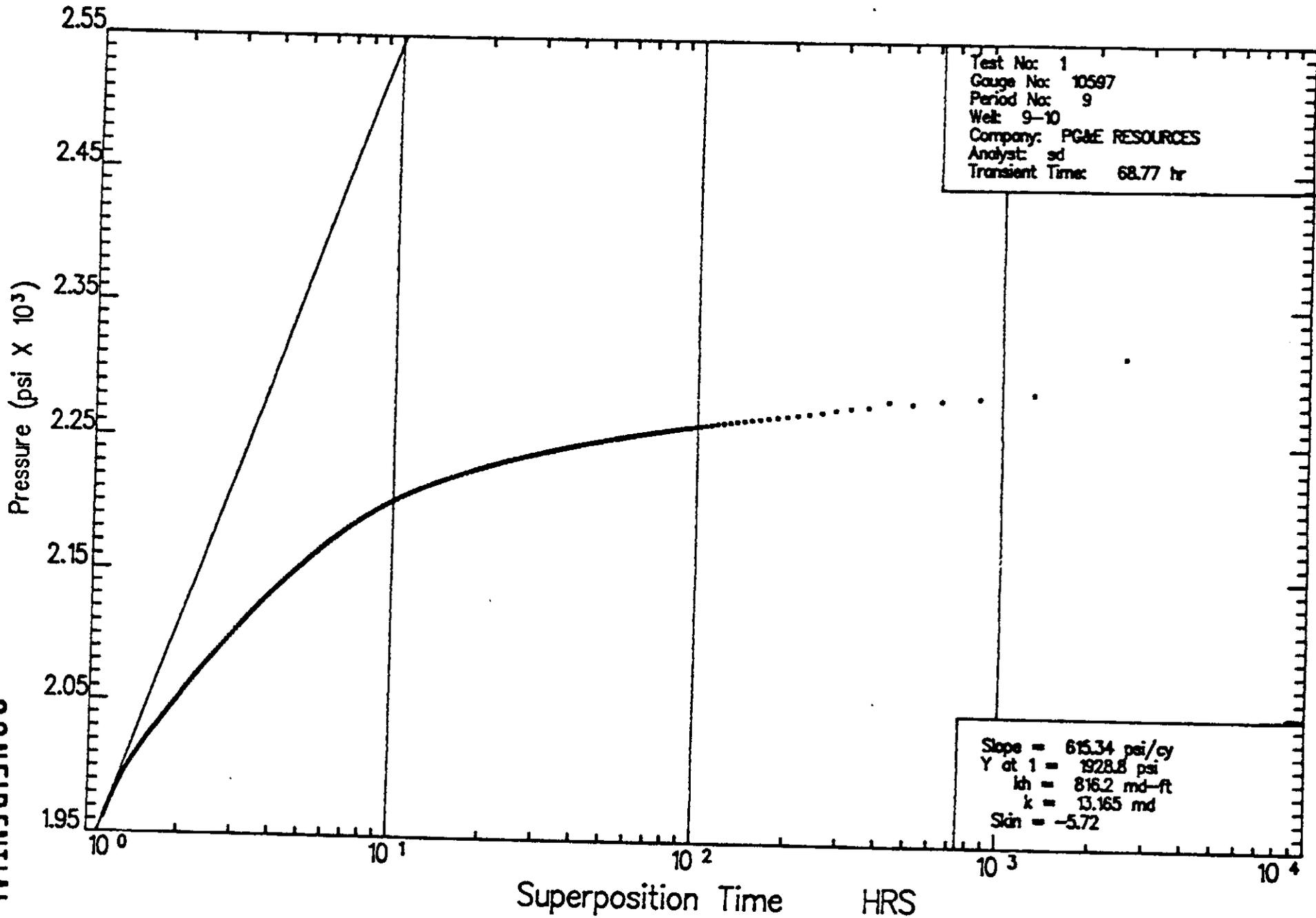
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FIGURE 3  
SPRING CANYON SAND  
PERFS: 4705'-46' & 4753'-74'  
STEP RATE PLOT



CONFIDENTIAL

FIGURE 4  
SEMI-LOG PLOT



Date: 28-SEP-92  
Ticket No: 005134  
Page: 2.20

CONFIDENTIAL



PETROLEUM LABORATORY  
AND GAS ENGINEERING

401 N.E. 46th Oklahoma City, Ok. 73105-3338  
(405) 528-8255

LABORATORY REPORT NO. 64512

WATER ANALYSIS

PACIFIC GAS & ELECTRIC RESOURCES  
CASTLEGATE PROSPECT  
JENSEN 9-10  
STATION NO. INJECTION WATER  
VERNAL, UTAH

SAMPLED BY: PG&ER  
DATE SAMPLED: 10-00-92  
DATE RUN 10-26-92  
COLOR BEFORE FILTRATION: COLORLESS  
COLOR AFTER FILTRATION: COLORLESS

\*\*\*\*\* CHEMICAL CHARACTERISTICS \*\*\*\*\*

	mg/l
CALCIUM (Ca)	18
MAGNESIUM (Mg)	13
SODIUM (Na)	2,460
POTASSIUM (K)	3
BARIUM (Ba)	<1
IRON (Fe)	0.3
SILICA (SiO2)	11
*BICARBONATE (HCO3)	4,475
CARBONATE (CO3)	0
HYDROXIDE (OH)	0
SULFATE (SO4)	115
CHLORIDE (Cl)	1,165

	mg/l
'P' ALKALINITY (AS CaCO3)	0
'M' ALKALINITY (AS CaCO3)	3,670
TOTAL HARDNESS (AS CaCO3)	96
TOTAL DISSOLVED SOLIDS	8,250

RESISTIVITY @ 77 DEG. F. 0.869  
SPECIFIC GRAVITY @ 75 DEG. F. 1.010  
PH VALUE 8.28

NOTES:

DATE RECEIVED: 10-26-92  
BORON (MG/L): 9.2  
ZINC (MG/L): 0.02  
CHROMIUM (MG/L): <0.05  
STRONTIUM (MG/L): 0.88  
THIS WATER WILL BE COMPATIBLE  
WITH THE "SWAB" SAMPLE  
\*BICARBONATE as CaCO3: 3670

CONFIDENTIAL



**PETROLEUM LABORATORY  
AND GAS ENGINEERING**  
401 N.E. 46th Oklahoma City, Ok. 73105-3338  
(405) 528-8255  
LABORATORY REPORT NO. 64512

**WATER ANALYSIS**

PACIFIC GAS & ELECTRIC RESOURCES  
CASTLEGATE PROSPECT  
JENSEN 9-10  
STATION NO. SWAB SAMPLE  
VERNAL, UTAH

SAMPLED BY: FG&ER  
DATE SAMPLED: 10-00-92  
DATE RUN 10-26-92  
COLOR BEFORE FILTRATION: LIGHT BROWN  
COLOR AFTER FILTRATION: LIGHT YELLOW

\*\*\*\*\* CHEMICAL CHARACTERISTICS \*\*\*\*\*

	mg/l
CALCIUM (Ca)	10
MAGNESIUM (Mg)	6
SODIUM (Na)	3,860
POTASSIUM (K)	2
BARIUM (Ba)	<1
IRON (Fe)	0.4
SILICA (SiO2)	10
*BICARBONATE (HCO3)	2,122
**CARBONATE (CO3)	1,628
HYDROXIDE (OH)	0
SULFATE (SO4)	280
CHLORIDE (Cl)	2,610

	mg/l
*P* ALKALINITY (AS CaCO3)	1,360
*M* ALKALINITY (AS CaCO3)	3,100
TOTAL HARDNESS (AS CaCO3)	50
TOTAL DISSOLVED SOLIDS	10,520

RESISTIVITY @ 77 DEG. F.	0.645
SPECIFIC GRAVITY @ 75 DEG. F.	1.014
PH VALUE	10.32

NOTES:

DATE RECEIVED: 10-26-92  
BORON (MG/L): 4.6  
THIS WATER WILL BE COMPATIBLE  
WITH THE 'INJECTION' WATER  
\*BICARBONATE as CaCO3: 1740  
\*\*CARBONATE as CaCO3: 2720  
ZINC (MG/L): 0.07  
CHROMIUM (MG/L): <0.05  
STRONTIUM (MG/L): 0.48

**CONFIDENTIAL**

PG&E RESOURCES				
JENSEN No. 9-10				
INJECTION HISTORY				
DATE	TBG PRESS (PSI)	VOLUME (BBLs)	CUMULATIVE BBLs	
3-Nov	350	1600	1600	
4-Nov	350	3100	4700	
5-Nov	350	3500	8200	
6-Nov	350	3300	11500	
7-Nov	350	2000	13500	
8-Nov	350	2000	15500	
9-Nov	0	0	15500	
10-Nov	0	0	15500	
11-Nov	0	0	15500	
12-Nov	0	0	15500	
13-Nov	350	1600	17100	
14-Nov	0	0	17100	
15-Nov	0	0	17100	
16-Nov	0	0	17100	
17-Nov	0	0	17100	
18-Nov	0	0	17100	
19-Nov	0	0	17100	
20-Nov	0	0	17100	
21-Nov	0	0	17100	
22-Nov	0	0	17100	
23-Nov	0	0	17100	
24-Nov	0	0	17100	
25-Nov	0	0	17100	
26-Nov	0	0	17100	
27-Nov	0	0	17100	
28-Nov	0	0	17100	
29-Nov	0	0	17100	
30-Nov	0	0	17100	
1-Dec	0	0	17100	
2-Dec	0	0	17100	
3-Dec	0	0	17100	
4-Dec	0	0	17100	
5-Dec	0	0	17100	
6-Dec	0	0	17100	
7-Dec	0	0	17100	
8-Dec	0	0	17100	
9-Dec	0	0	17100	
10-Dec	0	0	17100	
11-Dec	0	0	17100	



**Shimmin Trust No. 2  
Step-rate/Fallout Testing Results (Sand Canyon sand)  
Castlegate Field  
Carbon County, Utah**

The Shimmin Trust No. 2 was perforated in the Spring Canyon sand from 4440' - 4528' (CNL) at 2 spf for a step-rate/fallout test. Shales above and below the Spring Canyon were also perforated at 4390' (2 holes) and 4575' (2 holes) to obtain stress tests. A general description of the results follows: copies of pertinent graphs are attached for your files.

A swab sample was obtained from 4440'-4528'. Comparison of the Spring Canyon water analysis from the swab sample to the analysis of the coal bed produced water sample which was used for the injection tests indicated the TDS is slightly higher in the Spring Canyon, 10206 mg/l vs. 8755 mg/l. Chlorides in the Spring Canyon were measured at 3208 mg/l. The waters are very similar in composition and are compatible. A complete analysis of each sample is attached.

Each of the shale intervals was isolated for a stress test. The zone at 4575' did not indicate a clearly defined fracture closure pressure. However, the best estimate from the third pump-in is 2460 psi. Evaluation of the closure pressure tests at 4390' indicated good repeatability with results of 2790 psi and 2780 psi (corrected to depth), a different of less than one percent.

Results from the step-rate/fallout test on the Spring Canyon sand indicated a closure pressure of 2005 psia. Horner evaluation of the falloff indicated permeability of 2.7 md, skin of -4.2, and a radius of investigation of 522 feet. Average reservoir pressure was determined to be 1280 psia. Closure pressure and average reservoir pressure were corrected to mid-perf. The final rate of the step-rate test was 3.5 bbl/min or 5040 bbl/day with surface pressure of 325 psi. A total of 908 bbls of water were injected into the Spring Canyon.

Comparison of the fracture gradients from the above closure pressures indicates that the Spring Canyon sand (0.45 psi/ft) will be bound by the shale above and below the zone which have a fracture gradients of 0.63 psi/ft and 0.54 psi/ft, respectively.

All of the data obtained indicates the Spring Canyon sand injection to be the most economic way of disposing of the produced water from the Castlegate project. Drilling has incorporated 7" casing in four wells to allow dual completion of the coals and injection interval.

**CONFIDENTIAL**

# Pressure/Temperature History

**CONFIDENTIAL**

Test No: 1-3  
Gauge No: 10597

Well No: #2

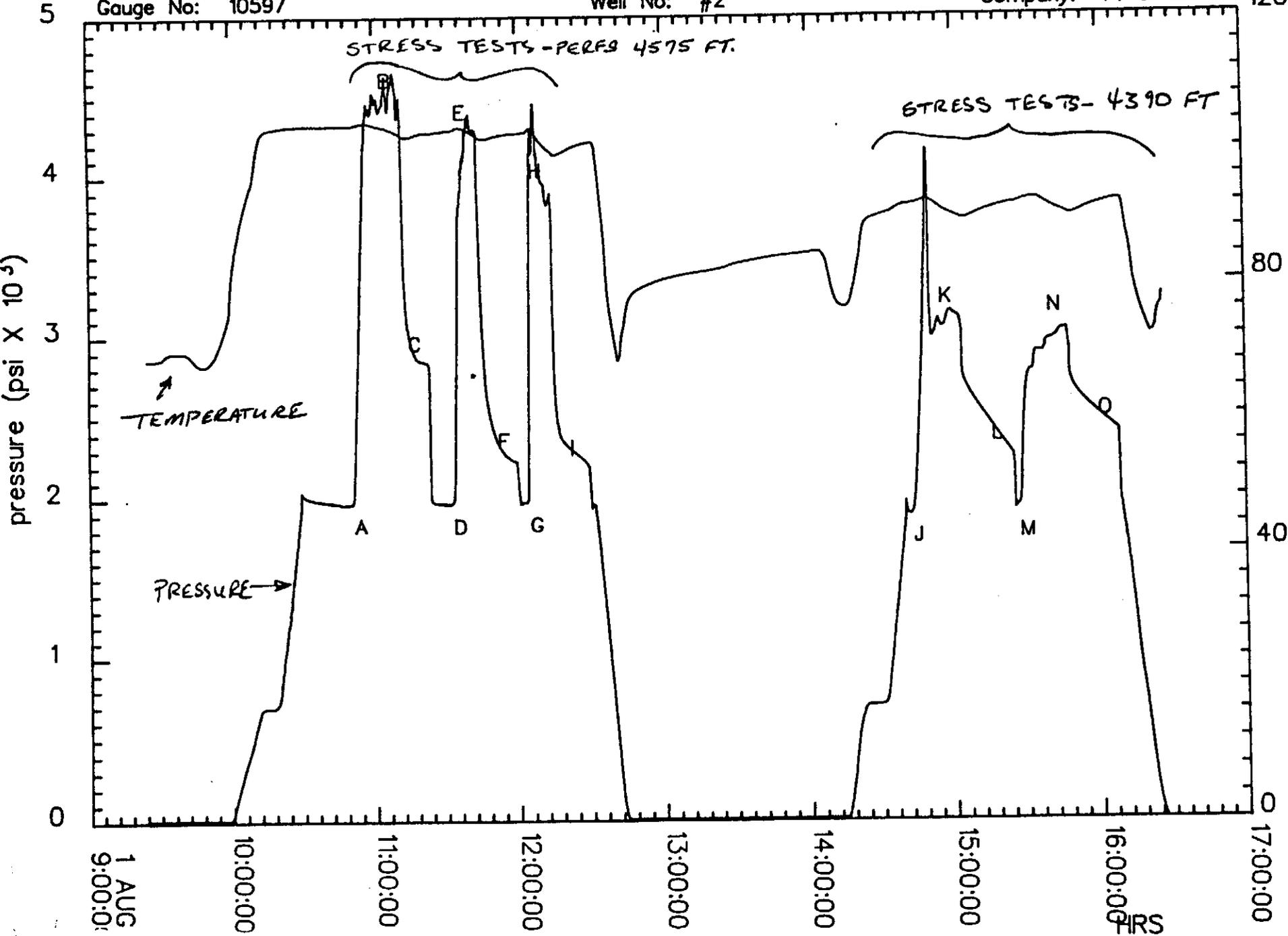
Company: P. G. & E. 120

Date: 01-AUG-92

Ticket No: 005117

temperature (F)

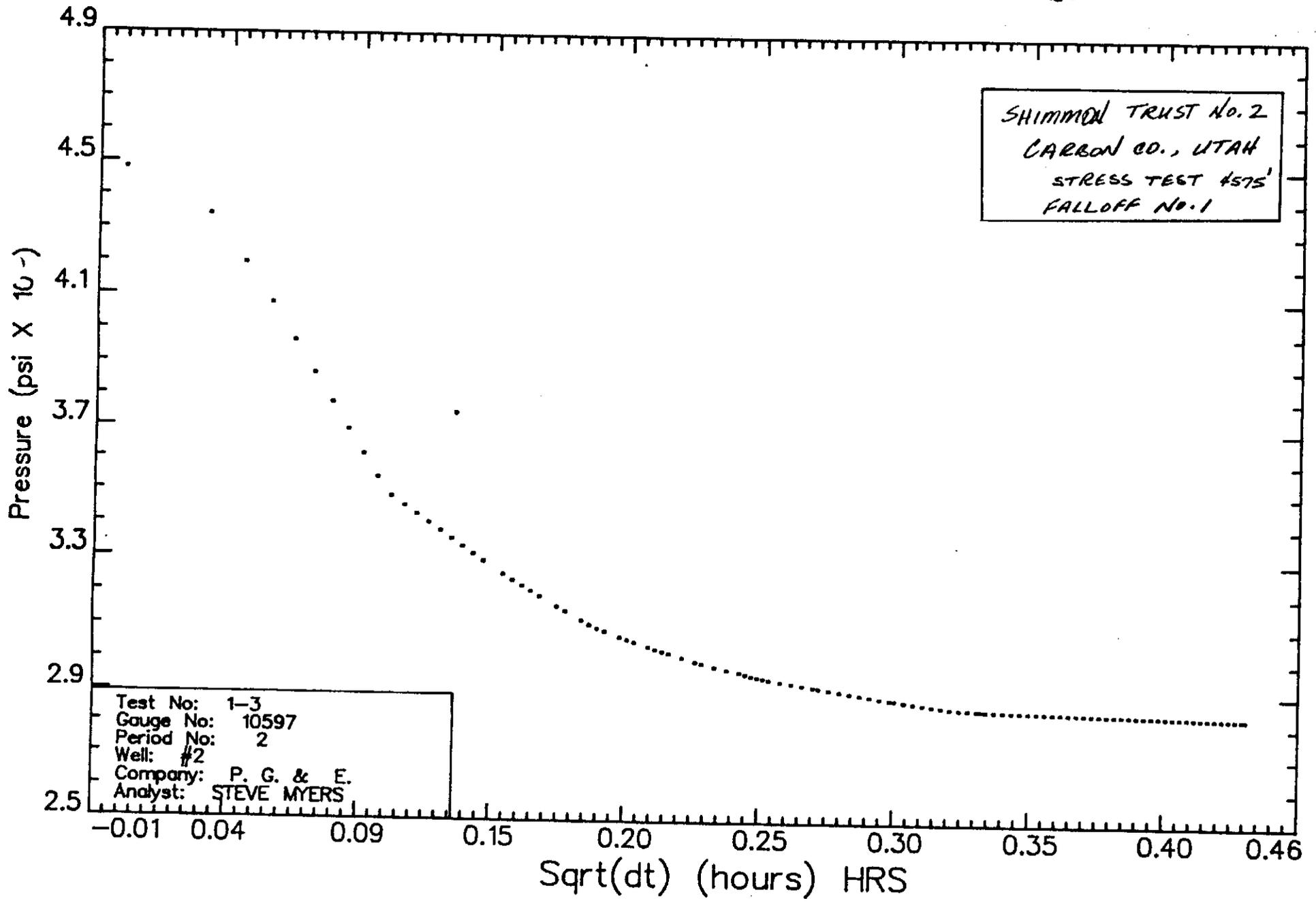
Page No: 13



# Pressure Vs Sqrt(dt)

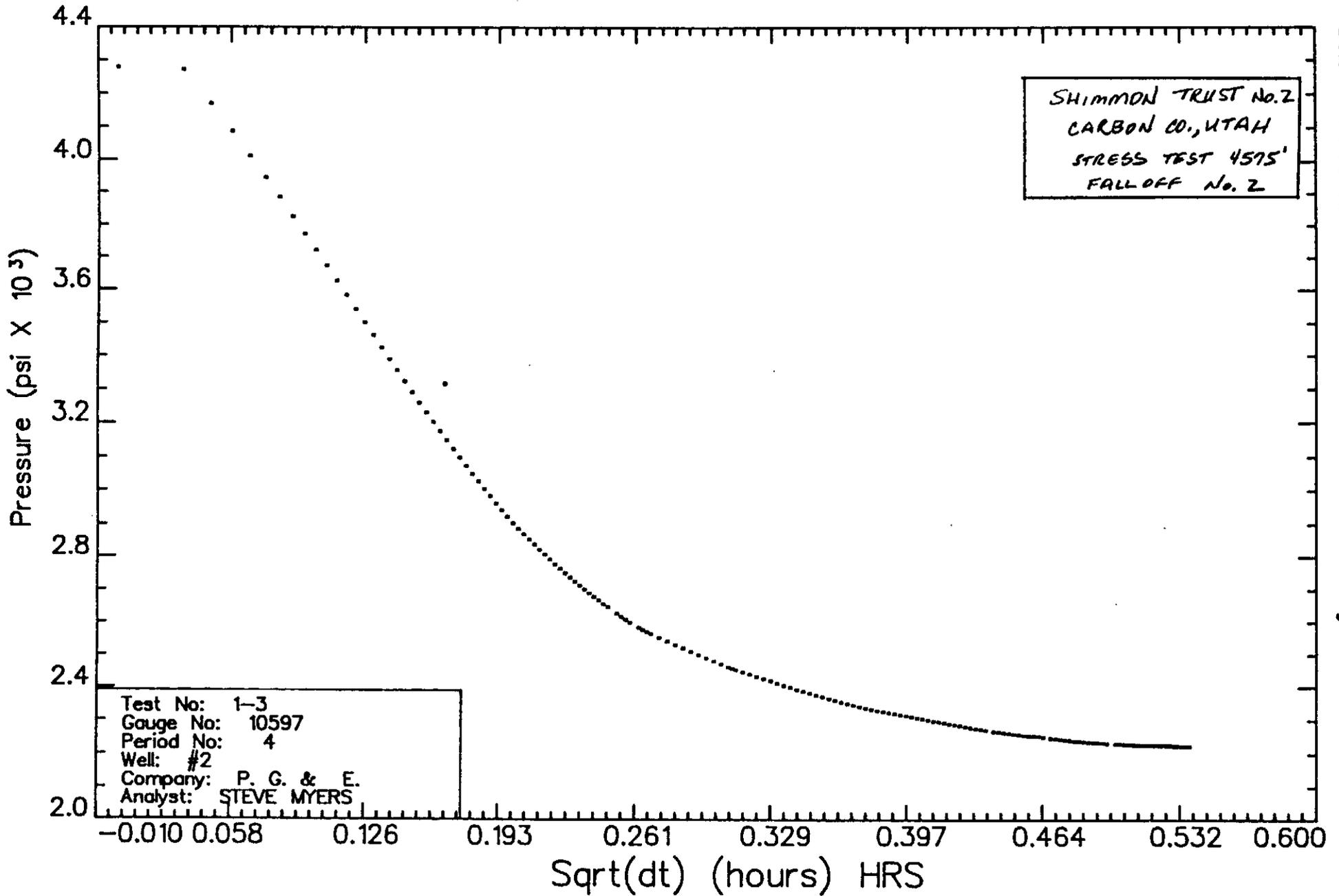
**CONFIDENTIAL**

Date: 01-AUG-92  
Ticket No: 005117  
Page No: 2.2.0



# Pressure Vs Sqrt(dt)

**CONFIDENTIAL**



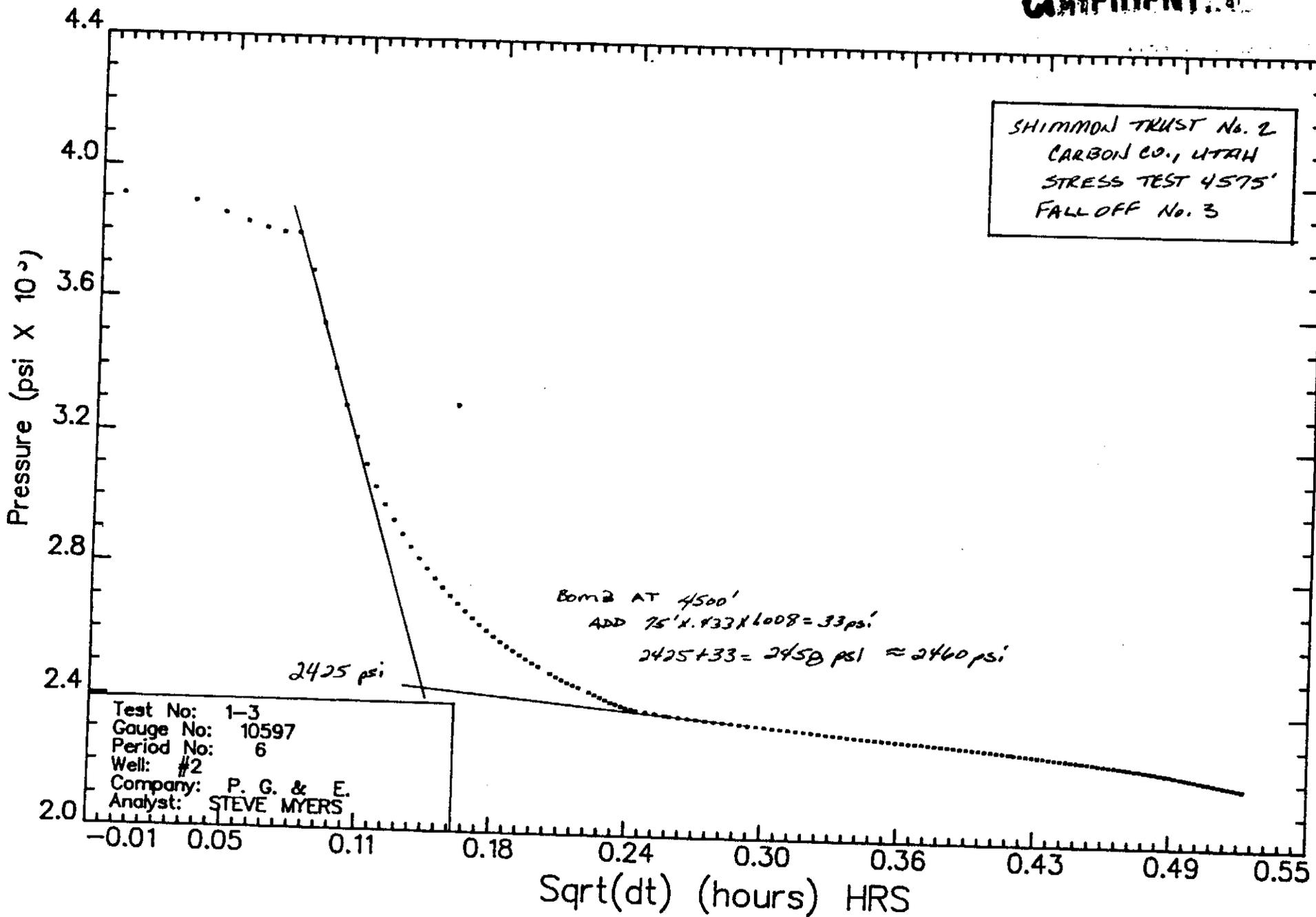
Date: 01-AUG-92

Ticket No: 005117

Page No: 2.2.1

# Pressure Vs Sqrt(dt)

**CONFIDENTIAL**



SHIMMON TRUST No. 2  
CARBON CO., UTAH  
STRESS TEST 4575'  
FALL OFF No. 3

Test No: 1-3  
Gauge No: 10597  
Period No: 6  
Well: #2  
Company: P. G. & E.  
Analyst: STEVE MYERS

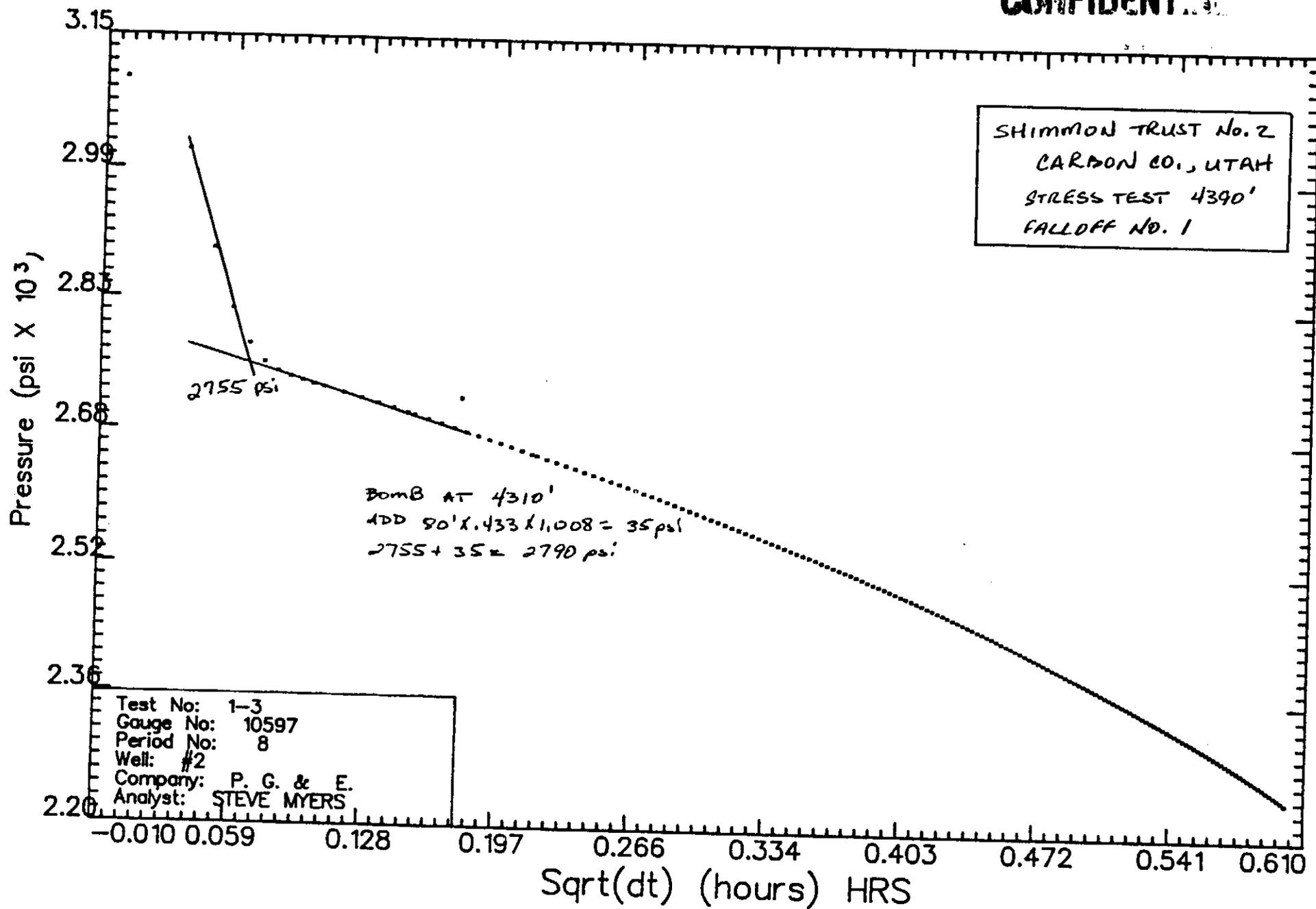
Date: 01-AUG-92

Ticket No: 005117

Page No: 2.2.2

# Pressure Vs Sqrt(dt)

**CONFIDENTIAL**



Date: 01-AUG-92

Ticket No: 005117

Page No: 2.2.3

# Pressure Vs Sqrt(dt)

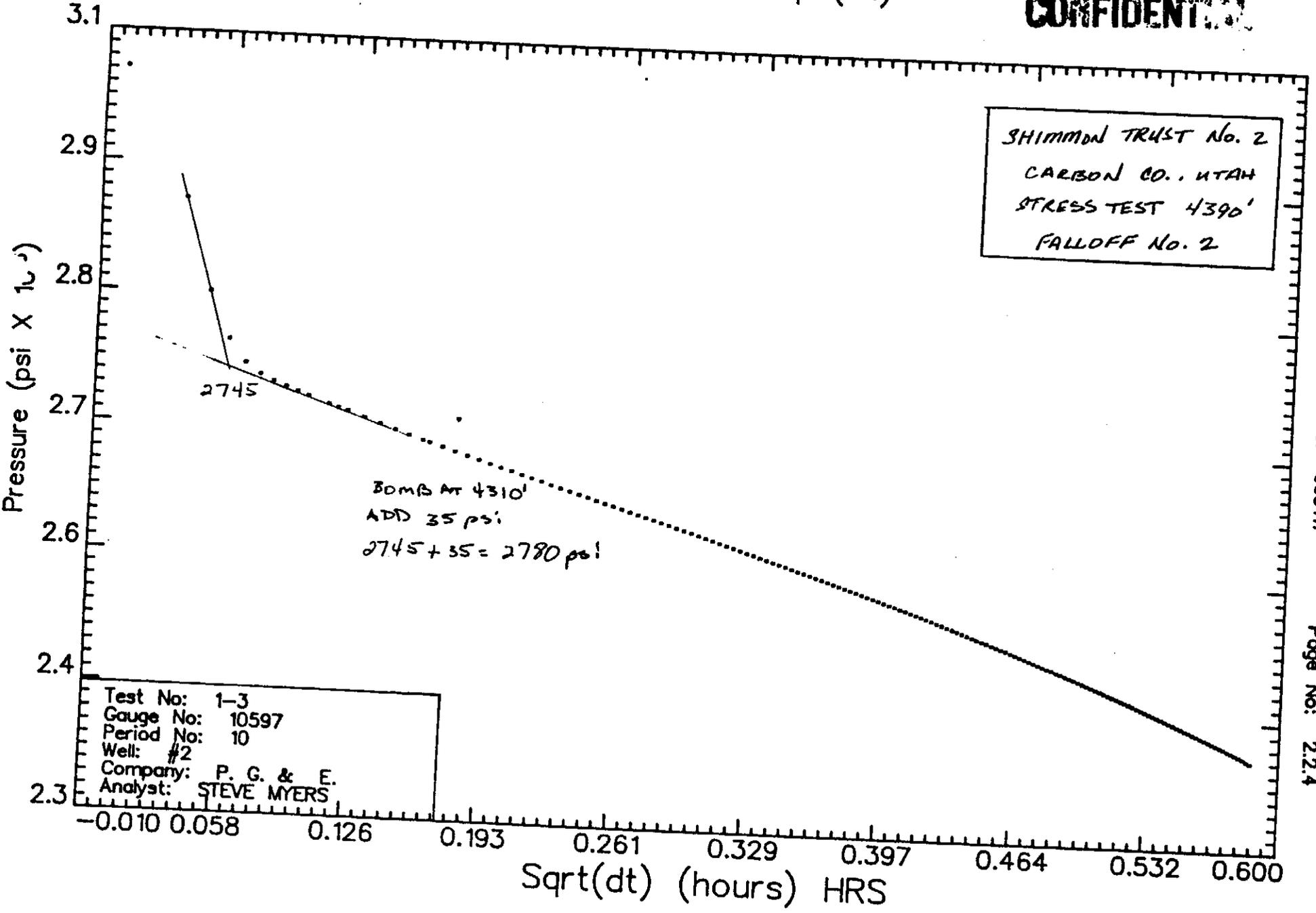
**CONFIDENTIAL**

Date: 01-AUG-92

Ticket No: 005117

Page No: 2.2.4

SHIMMON TRUST No. 2  
CARBON CO., UTAH  
STRESS TEST 4390'  
FALLOFF No. 2



# Pressure/Temperature History

**CONFIDENTIAL**

Test No: 1-3  
Gauge No: 10596

Well No: #2

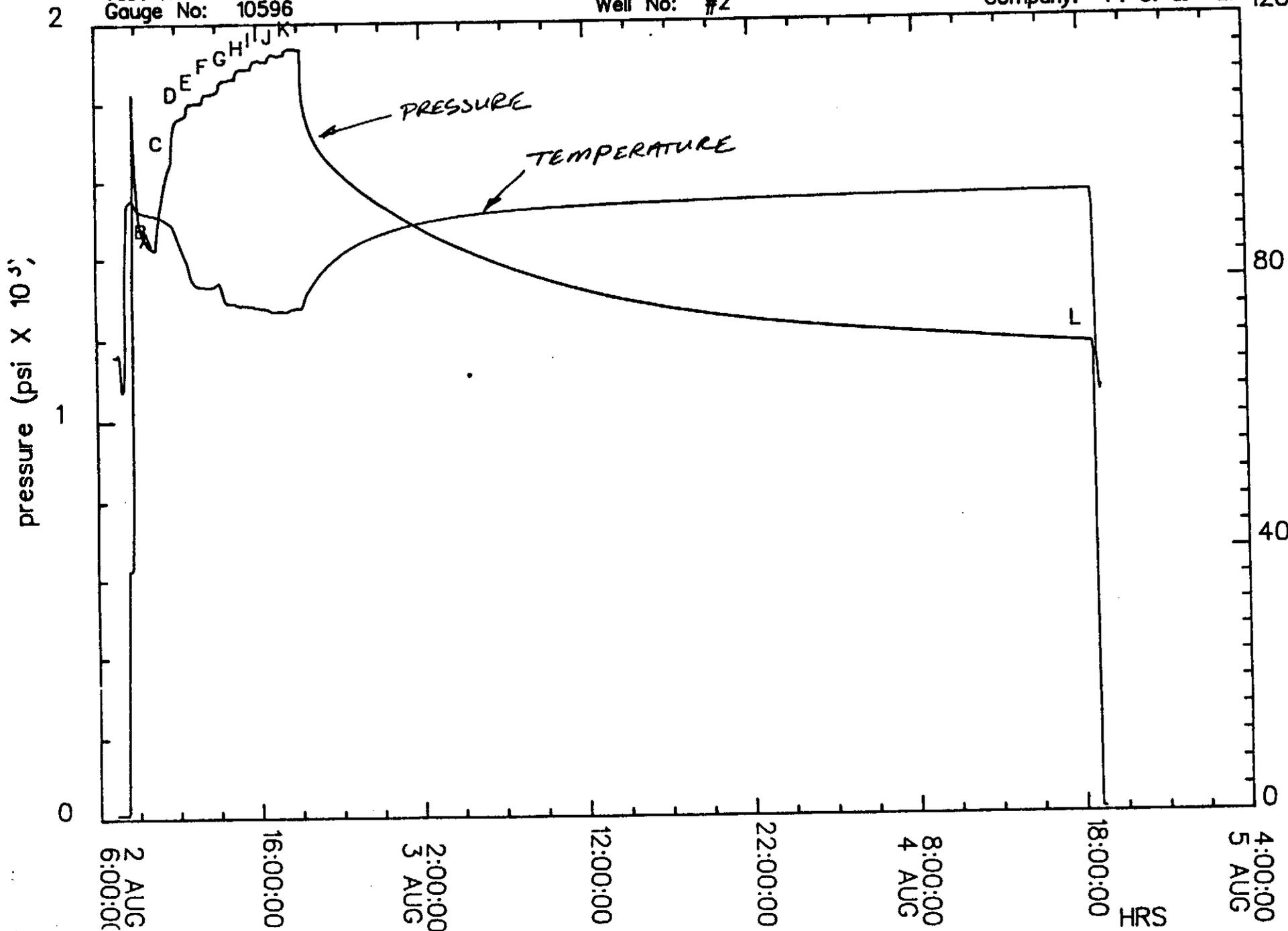
Company: P. G. & E. 120

Date: 01-AUG-92

Ticket No: 005117

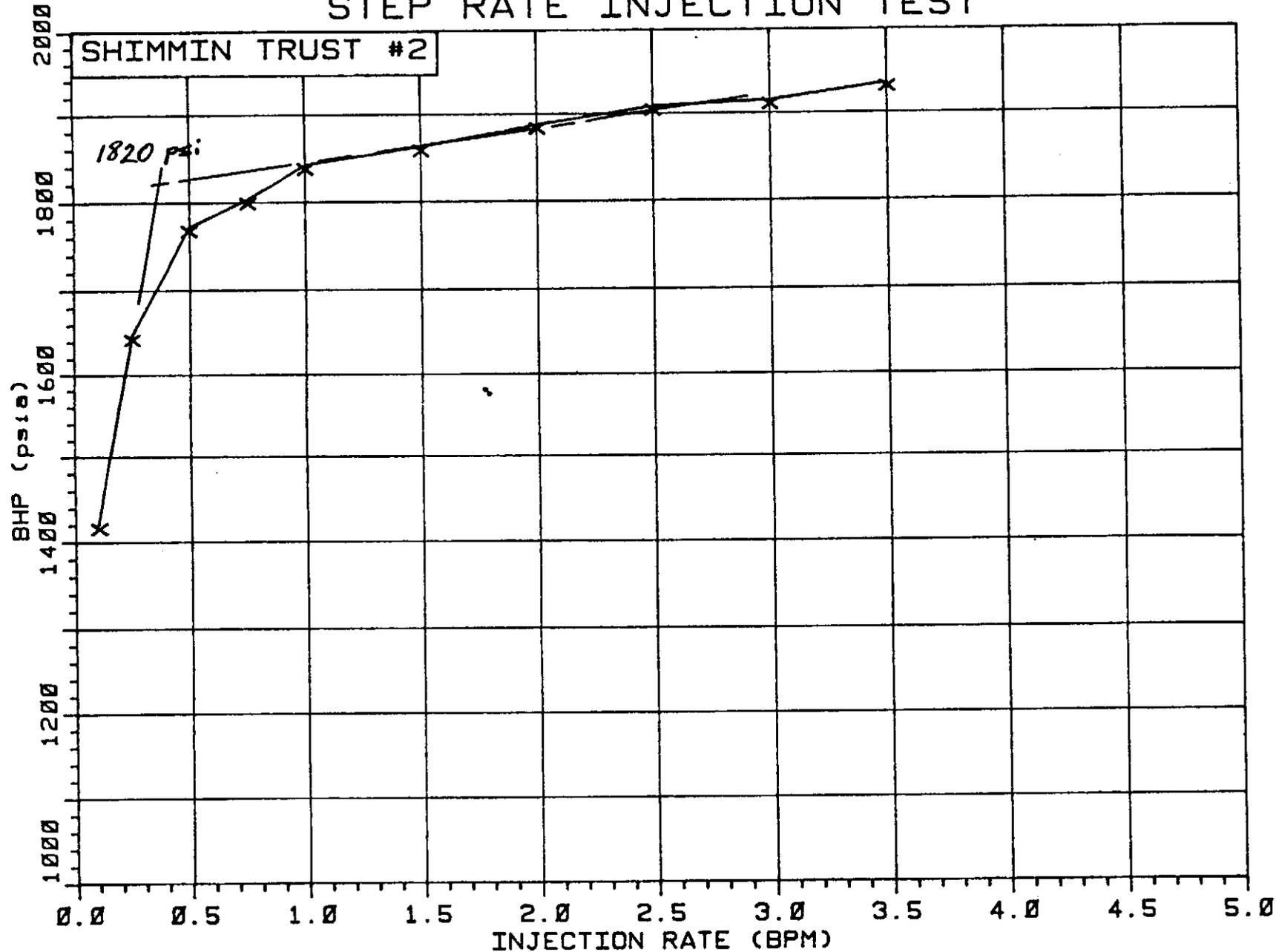
temperature (F)

Page No: 14



PERFS: 4440' - 4528'  
STEP RATE INJECTION TEST

CONFIDENTIAL



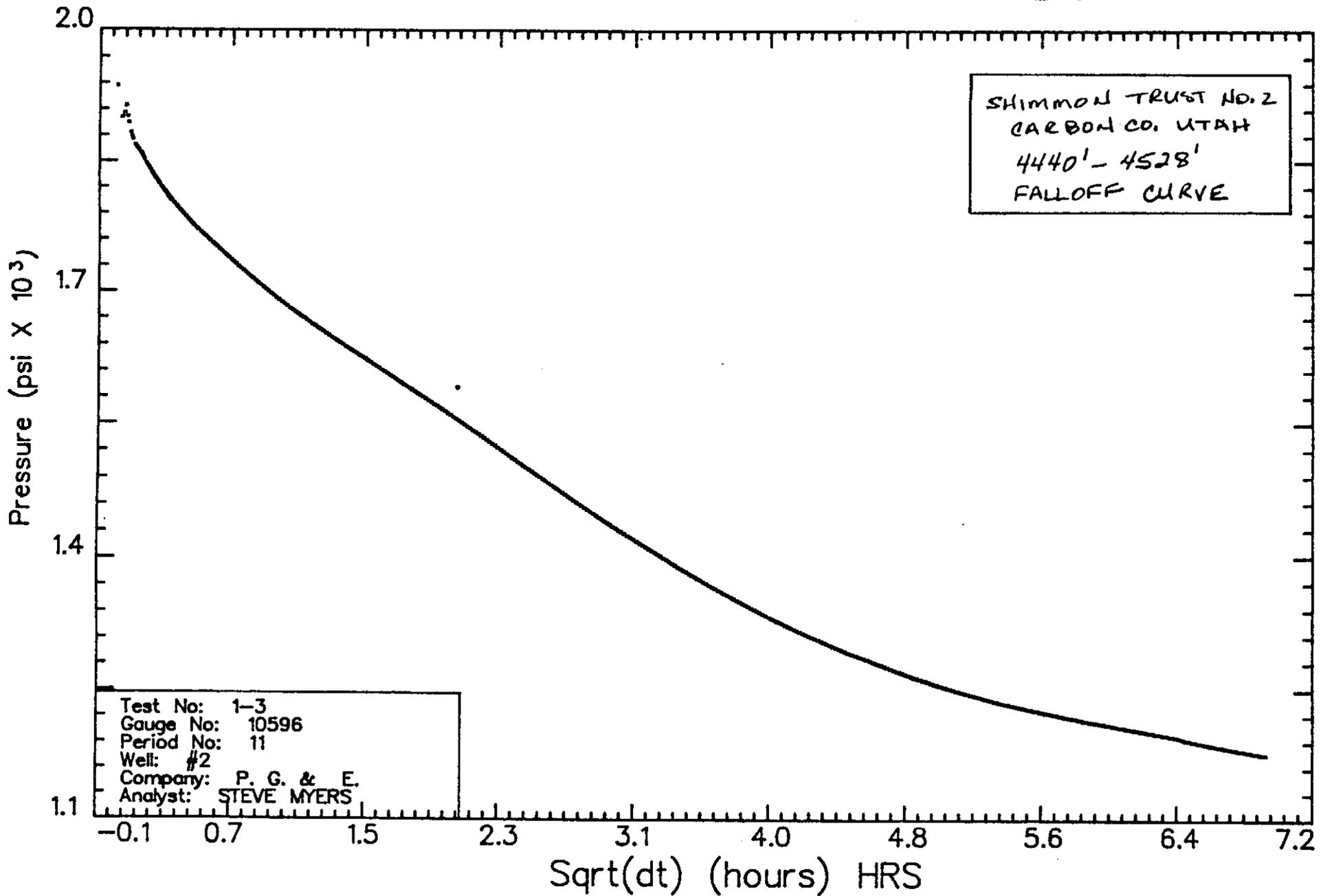
- ADJUST TO MIDPERF 4484'
- BOMB AT 4060'

$$\text{ADD } (4484' - 4060') \times 0.433 \times (1.000) = 185 \text{ psi}$$

$$1920 + 185 = 2005 \text{ psia}$$

# Pressure Vs Sqrt(dt)

**CONFIDENTIAL**



Date: 01-AUG-92

Ticket No: 005117

Page No: 2.2.5

LABORATORY REPORT NO. 63647

JULY 28 1992

PACIFIC GAS & ELECTRIC RESOURCES  
SHIMMIN TRUST WELLS

SAMPLED JULY 15 1992

ANALYSES OF 6 WATER SAMPLES INCLUDING ZINC, BORON AND CHROMIUM

SAMPLE #1 (PH = 7.1/21 C)  
SAMPLE #2 (PH = 7.0/24 C)  
SAMPLE #3 (PH = 7.7/19 C)  
SAMPLE #4 (PH = 7.7/17 C)  
SAMPLE #5 (PH = 7.6/23 C)  
SAMPLE RO PERMEATE (PH = 5.3/30 C)



PETROLEUM LABORATORY  
AND GAS ENGINEERING

401 N.E. 46th Oklahoma City, Ok. 73105-3338  
(405) 528-8255

LABORATORY REPORT NO. 63647

WATER ANALYSIS

PACIFIC GAS & ELECTRIC RESOURCES  
SHIMMIN TRUST WELLS  
SAMPLE #1 (pH = 7.1/21°C)

SAMPLED BY: PG&E  
DATE SAMPLED: 07-15-92  
DATE RUN 07-24-92  
COLOR BEFORE FILTRATION: COLORLESS  
COLOR AFTER FILTRATION: COLORLESS

\*\*\*\* CHEMICAL CHARACTERISTICS \*\*\*\*

	mg/l
CALCIUM (Ca)	36
MAGNESIUM (Mg)	15.6
SODIUM (Na)	2,660
POTASSIUM (K)	1
BARIUM (Ba)	<1
IRON (Fe)	0.1
SILICA (SiO2)	15
*BICARBONATE (HCO3)	5,490
CARBONATE (CO3)	0
HYDROXIDE (OH)	0
SULFATE (SO4)	1
CHLORIDE (Cl)	1,020

	mg/l
*P* ALKALINITY (AS CaCO3)	0
*M* ALKALINITY (AS CaCO3)	4,500
TOTAL HARDNESS (AS CaCO3)	155
TOTAL DISSOLVED SOLIDS	9,225

RESISTIVITY @ 77 DEG. F.	0.746
SPECIFIC GRAVITY @ 74 DEG. F.	1.010
pH VALUE	8.01

NOTES:

ZINC: <0.01  
BORON: 12.2  
CHROMIUM: <0.05  
CANNOT TEST FOR STRONTIUM AT  
PRESENT. WILL BE ABLE TO RUN  
THE TEST IN THE FUTURE.  
\*BICARBONATE as CaCO3: 4500



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LABORATORY REPORT NO. 63647

**WATER ANALYSIS**

PACIFIC GAS & ELECTRIC RESOURCES  
SHIMMIN TRUST WELLS  
SAMPLE #2 (pH = 7.0/24°C)

SAMPLED BY: PG&E  
DATE SAMPLED: 07-15-92  
DATE RUN 07-24-92  
COLOR BEFORE FILTRATION: COLORLESS  
COLOR AFTER FILTRATION: COLORLESS

**\*\*\*\*\* CHEMICAL CHARACTERISTICS \*\*\*\*\***

	mg/l
CALCIUM (Ca)	52
MAGNESIUM (Mg)	7.2
SODIUM (Na)	2,185
POTASSIUM (K)	1
BARIUM (Ba)	<1
IRON (Fe)	0.2
SILICA (SiO <sub>2</sub> )	13
*BICARBONATE (HCO <sub>3</sub> )	5,182
CARBONATE (CO <sub>3</sub> )	0
HYDROXIDE (OH)	0
SULFATE (SO <sub>4</sub> )	1
CHLORIDE (Cl)	470

	mg/l
*P* ALKALINITY (AS CaCO <sub>3</sub> )	0
*M* ALKALINITY (AS CaCO <sub>3</sub> )	4,250
TOTAL HARDNESS (AS CaCO <sub>3</sub> )	160
TOTAL DISSOLVED SOLIDS	7,900

RESISTIVITY @ 77 DEG. F.	0.873
SPECIFIC GRAVITY @ 74 DEG. F.	1.007
pH VALUE	7.98

**NOTES:**

ZINC: <0.01  
BORON: 12.0  
CHROMIUM: <0.05  
CANNOT TEST FOR STRONTIUM AT  
PRESENT, WILL BE ABLE TO RUN  
THE TEST IN THE FUTURE.  
\*BICARBONATE as CaCO<sub>3</sub>: 4250



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LABORATORY REPORT NO. 63647

**WATER ANALYSIS**

PACIFIC GAS & ELECTRIC RESOURCES  
SHIMMIN TRUST WELLS  
SAMPLE #3 (pH = 7.7/19°C)

SAMPLED BY: FG&E  
DATE SAMPLED: 07-15-92  
DATE RUN 07-24-92  
COLOR BEFORE FILTRATION: COLORLESS  
COLOR AFTER FILTRATION: COLORLESS

**\*\*\*\*\* CHEMICAL CHARACTERISTICS \*\*\*\*\***

	mg/l
CALCIUM (Ca)	48
MAGNESIUM (Mg)	7.2
SODIUM (Na)	1,815
POTASSIUM (K)	1
BARIUM (Ba)	<1
IRON (Fe)	0.2
SILICA (SiO2)	15
*BICARBONATE (HCO3)	4,285
CARBONATE (CO3)	0
HYDROXIDE (OH)	0
SULFATE (SO4)	1
CHLORIDE (Cl)	415

	mg/l
*P* ALKALINITY (AS CaCO3)	0
*M* ALKALINITY (AS CaCO3)	3,515
TOTAL HARDNESS (AS CaCO3)	150
TOTAL DISSOLVED SOLIDS	6,575

RESISTIVITY @ 77 DEG. F.	1.020
SPECIFIC GRAVITY @ 74 DEG. F.	1.008
pH VALUE	6.29

**NOTES:**

ZINC: <0.01  
BORON: 6.5  
CHROMIUM: <0.05  
CANNOT TEST FOR STRONTIUM AT  
PRESENT. WILL BE ABLE TO RUN  
THE TEST IN THE FUTURE.  
\*BICARBONATE as CaCO3: 3515



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LABORATORY REPORT NO. 63647

WATER ANALYSIS

PACIFIC GAS & ELECTRIC RESOURCES  
SHIMMIN TRUST WELLS  
SAMPLE #4 (pH = 7.7/17°C)

SAMPLED BY: FG&E  
DATE SAMPLED: 07-15-92  
DATE RUN 07-24-92  
COLOR BEFORE FILTRATION: COLORLESS  
COLOR AFTER FILTRATION: COLORLESS

\*\*\*\* CHEMICAL CHARACTERISTICS \*\*\*\*

	mg/l
CALCIUM (Ca)	32
MAGNESIUM (Mg)	9.6
SODIUM (Na)	2,415
POTASSIUM (K)	1
BARIUM (Ba)	<1
IRON (Fe)	0.5
SILICA (SiO2)	14
*BICARBONATE (HCO3)	5,427
CARBONATE (CO3)	0
HYDROXIDE (OH)	0
SULFATE (SO4)	1
CHLORIDE (Cl)	650

	mg/l		
'P' ALKALINITY (AS CaCO3)	0	RESISTIVITY @ 77 DEG. F.	0.796
'M' ALKALINITY (AS CaCO3)	4,450	SPECIFIC GRAVITY @ 74 DEG. F.	1.009
TOTAL HARDNESS (AS CaCO3)	120	pH VALUE	8.26
TOTAL DISSOLVED SOLIDS	8,535		

NOTES:

ZINC: <0.01  
BORON: 10.5  
CHROMIUM: <0.05  
CANNOT TEST FOR STRONTIUM AT  
PRESENT. WILL BE ABLE TO RUN  
THE TEST IN THE FUTURE.  
\*BICARBONATE as CaCO3: 4450



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AND GAS ENGINEERING**  
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LABORATORY REPORT NO. 63647

WATER ANALYSIS

PACIFIC GAS & ELECTRIC RESOURCES  
SHIMMIN TRUST WELLS  
SAMPLE #5 (PH = 7.6/23°C)

SAMPLED BY: PG&E  
DATE SAMPLED: 07-15-92  
DATE RUN 07-24-92  
COLOR BEFORE FILTRATION: COLORLESS  
COLOR AFTER FILTRATION: COLORLESS

\*\*\*\* CHEMICAL CHARACTERISTICS \*\*\*\*

	mg/l
CALCIUM (Ca)	28
MAGNESIUM (Mg)	8
SODIUM (Na)	2,195
POTASSIUM (K)	1
BARIUM (Ba)	<1
IRON (Fe)	0.6
SILICA (SiO2)	13
*BICARBONATE (HCO3)	4,780
CARBONATE (CO3)	0
HYDROXIDE (OH)	0
SULFATE (SO4)	1
CHLORIDE (Cl)	675

	mg/l
*P* ALKALINITY (AS CaCO3)	0
*M* ALKALINITY (AS CaCO3)	3,920
TOTAL HARDNESS (AS CaCO3)	104
TOTAL DISSOLVED SOLIDS	7,690

RESISTIVITY @ 77 DEG. F.	0.847
SPECIFIC GRAVITY @ 74 DEG. F.	1.009
pH VALUE	8.36

NOTES:

ZINC: <0.01  
BORON: 6.0  
CHROMIUM: <0.05  
CANNOT TEST FOR STRONTIUM AT  
PRESENT. WILL BE ABLE TO RUN  
THE TEST IN THE FUTURE.  
\*BICARBONATE as CaCO3: 3920



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LABORATORY REPORT NO. 63647

WATER ANALYSIS

PACIFIC GAS & ELECTRIC RESOURCES  
SHIMMIN TRUST WELLS  
SAMPLE RD PERMEATE (pH = 5.3/30°C)

SAMPLED BY: PG&E  
DATE SAMPLED: 07-15-92  
DATE RUN 07-24-92  
COLOR BEFORE FILTRATION: COLORLESS  
COLOR AFTER FILTRATION: COLORLESS

\*\*\*\*\* CHEMICAL CHARACTERISTICS \*\*\*\*\*

	mg/l
CALCIUM (Ca)	2
MAGNESIUM (Mg)	0.8
SODIUM (Na)	35
POTASSIUM (K)	<1
BARIUM (Ba)	<1
IRON (Fe)	<0.1
SILICA (SiO2)	8
*BICARBONATE (HCO3)	43
CARBONATE (CO3)	0
HYDROXIDE (OH)	0
SULFATE (SO4)	1
CHLORIDE (Cl)	35

	mg/l
*P* ALKALINITY (AS CaCO3)	0
*M* ALKALINITY (AS CaCO3)	35
TOTAL HARDNESS (AS CaCO3)	8
TOTAL DISSOLVED SOLIDS	117

RESISTIVITY @ 77 DEG. F.	41.670
SPECIFIC GRAVITY @ 74 DEG. F.	1.000
pH VALUE	6.01

NOTES: CHROMIUM: <0.05  
ZINC: <0.01  
BORON: 1.2  
CANNOT TEST FOR STRONTIUM AT  
PRESENT. WILL BE ABLE TO RUN  
THE TEST IN THE FUTURE.  
\*BICARBONATE  $\approx$  CaCO3: 35



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PACIFIC GAS & ELECTRIC RESOURCES

FOLLOWING ARE THE METHOD NUMBERS AND DETECTION LIMITS FOR EACH OF THE PARAMETER TESTED

<u>PARAMETER</u>	<u>METHOD</u>	<u>DETECTION LIMIT (MG/L)</u>
pH	*4500-H <sup>+</sup> -B	0.1 UNIT
BICARBONATES (HCO <sub>3</sub> )	2320-B	1.0
CARBONATE (CO <sub>3</sub> )	2320-B	1.0
ALKALINITY	310.1	1.0
CALCIUM	EPA 215.1	0.01
MAGNESIUM	EPA 242.1	0.001
POTASSIUM	EPA 258.1	0.01
SODIUM	EPA 273.1	0.002
TDS	*2540-C	1.0
IRON	236.1	0.03
SILICA	*4500-Si-E	0.1
BARIUM	208.1	0.1
BORON	*4500-B-C	0.1
CHROMIUM	EPA-218.1	0.05
ZINC	EPA 289.1	0.005

\*STANDARD METHODS OF WATER AND WASTEWATER (17th EDITION)



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LABORATORY REPORT NO. 63953

AUGUST 28, 1992

PACIFIC GAS & ELECTRIC RESOURCES

ANALYSES OF (A) 6 WATER SAMPLES FOR STRONTIUM ANALYSIS

SHIMMIN TRUST WELLS  
(07-15-92)

ANALYSIS: (RESULTS IN MG/L)

<u>SAMPLE</u>	<u>STRONTIUM</u>
(1) PG&ER (RO PERMEATE)	<0.1
(2) PG&ER #1	0.80
(3) PG&ER #2	0.68
(4) PG&ER #3	1.04
(5) PG&ER #4	0.97
(6) PG&ER #5	1.03

ANALYSES OF (B) 2 WATER SAMPLES

SHIMMIN TRUST #2  
(08-02-92)

ANALYSIS: (RESULTS IN MG/L)

<u>SAMPLE</u>	<u>STRONTIUM</u>
(1) INJECTED WATER (TANKS COMINGLED 2 BBLs/m)	0.70
(2) SWAB SAMPLE	0.90

NOTE: METHOD EPA 7780

LABORATORY REPORT NO. 64512

OCTOBER 28, 1992

PACIFIC GAS & ELECTRIC RESOURCES  
CASTLEGATE PROSPECT

SAMPLED OCTOBER 1992: SAMPLES RECEIVED AT OILAB, OCTOBER 26, 1992

ANALYSES OF 2 WATER SAMPLES INCLUDING BORON, ZINC, CHROMIUM, AND STRONTIUM

JENSEN 9-10

INJECTION WATER

JENSEN 9-10

SWAB SAMPLE



**PETROLEUM LABORATORY  
AND GAS ENGINEERING**  
401 N.E. 46th Oklahoma City, Ok. 73105-3338  
(405) 528-8255  
LABORATORY REPORT NO. 64512

WATER ANALYSIS

PACIFIC GAS & ELECTRIC RESOURCES  
CASTLEGATE PROSPECT  
JENSEN 9-10  
STATION NO. INJECTION WATER  
VERNAL, UTAH

SAMPLED BY: PG&ER  
DATE SAMPLED: 10-00-92  
DATE RUN 10-26-92  
COLOR BEFORE FILTRATION: COLORLESS  
COLOR AFTER FILTRATION: COLORLESS

\*\*\*\*\* CHEMICAL CHARACTERISTICS \*\*\*\*\*

	mg/l
CALCIUM (Ca)	18
MAGNESIUM (Mg)	13
SODIUM (Na)	2,460
POTASSIUM (K)	3
BARIUM (Ba)	<1
IRON (Fe)	0.3
SILICA (SiO <sub>2</sub> )	11
*BICARBONATE (HCO <sub>3</sub> )	4,475
CARBONATE (CO <sub>3</sub> )	0
HYDROXIDE (OH)	0
SULFATE (SO <sub>4</sub> )	115
CHLORIDE (Cl)	1,165

	mg/l
*P* ALKALINITY (AS CaCO <sub>3</sub> )	0
*M* ALKALINITY (AS CaCO <sub>3</sub> )	3,670
TOTAL HARDNESS (AS CaCO <sub>3</sub> )	96
TOTAL DISSOLVED SOLIDS	8,250

RESISTIVITY @ 77 DEG. F.	0.869
SPECIFIC GRAVITY @ 75 DEG. F.	1.010
pH VALUE	8.28

NOTES:

DATE RECEIVED: 10-26-92  
BORON (MG/L): 9.2  
ZINC (MG/L): 0.02  
CHROMIUM (MG/L): <0.05  
STRONTIUM (MG/L): 0.88  
THIS WATER WILL BE COMPATIBLE  
WITH THE "SWAB" SAMPLE  
\*BICARBONATE as CaCO<sub>3</sub>: 3670



**PETROLEUM LABORATORY  
AND GAS ENGINEERING**

401 N.E. 46th Oklahoma City, Ok. 73105-3338  
(405) 528-8255  
LABORATORY REPORT NO. 64512

**WATER ANALYSIS**

PACIFIC GAS & ELECTRIC RESOURCES  
CASTLEGATE PROSPECT  
JENSEN 9-10  
STATION NO. SWAB SAMPLE  
VERNAL, UTAH

SAMPLED BY: PG&ER  
DATE SAMPLED: 10-00-92  
DATE RUN 10-26-92  
COLOR BEFORE FILTRATION: LIGHT BROWN  
COLOR AFTER FILTRATION: LIGHT YELLOW

**\*\*\*\* CHEMICAL CHARACTERISTICS \*\*\*\***

	mg/l
CALCIUM (Ca)	10
MAGNESIUM (Mg)	6
SODIUM (Na)	3,860
POTASSIUM (K)	2
BARIUM (Ba)	<1
IRON (Fe)	0.4
SILICA (SiO <sub>2</sub> )	10
*BICARBONATE (HCO <sub>3</sub> )	2,122
**CARBONATE (CO <sub>3</sub> )	1,628
HYDROXIDE (OH)	0
SULFATE (SO <sub>4</sub> )	280
CHLORIDE (Cl)	2,610

	mg/l
*P* ALKALINITY (AS CaCO <sub>3</sub> )	1,360
*M* ALKALINITY (AS CaCO <sub>3</sub> )	3,100
TOTAL HARDNESS (AS CaCO <sub>3</sub> )	50
TOTAL DISSOLVED SOLIDS	10,520

RESISTIVITY @ 77 DEG. F.	0.645
SPECIFIC GRAVITY @ 75 DEG. F.	1.014
pH VALUE	10.32

**NOTES:**

DATE RECEIVED: 10-26-92  
BORON (MG/L): 4.6  
THIS WATER WILL BE COMPATIBLE  
WITH THE "INJECTION" WATER  
\*BICARBONATE as CaCO<sub>3</sub>: 1740  
\*\*CARBONATE as CaCO<sub>3</sub>: 2720  
ZINC (MG/L): 0.07  
CHROMIUM (MG/L): <0.05  
STRONTIUM (MG/L): 0.48

A. UIC FORM 1



**APPLICATION FOR WATER DISPOSAL WELLS  
JENSEN AND SHIMMIN TRUST LEASES  
CASTLEGATE CBM PROJECT  
CARBON COUNTY, UTAH**

**I. OVERVIEW**

**II. JENSEN #9-10**

- A. UIC FORM 1
- B. PLATS
- C. WELL LOGS
- D. CEMENT BOND LOG
- E. CASING PROGRAM
- F. CASING TEST PROGRAM
- G. INJECTION FLUID
- H. INJECTION PRESSURES
- I. REVIEW OF WELLS WITHIN 1/2 MILE RADIUS
- J. GEOLOGIC DATA
- K. WELLBORE DIAGRAM
- L. INJECTIVITY DATA
- M. LABORATORY TESTS
- N. AFFIDAVIT OF NOTIFICATION

**III. JENSEN #16-10**

- A. UIC FORM 1
- B. PLATS

- C. WELL LOGS
- D. CEMENT BOND LOG
- E. CASING PROGRAM
- F. CASING TEST PROGRAM
- G. INJECTION FLUID
- H. INJECTION PRESSURES
- I. REVIEW OF WELLS WITHIN 1/2 MILE RADIUS
- J. GEOLOGIC DATA
- K. WELLBORE DIAGRAM
- L. INJECTIVITY DATA
- M. LABORATORY TESTS
- N. AFFIDAVIT OF NOTIFICATION

**IV. SHIMMIN TRUST #10-11**

- A. UIC FORM 1
- B. PLATS
- C. WELL LOGS
- D. CEMENT BOND LOG
- E. CASING PROGRAM
- F. CASING TEST PROGRAM
- G. INJECTION FLUID
- H. INJECTION PRESSURES
- I. REVIEW OF WELLS WITHIN 1/2 MILE RADIUS
- J. GEOLOGIC DATA

- K. WELLBORE DIAGRAM
- L. INJECTIVITY DATA
- M. LABORATORY TESTS
- N. AFFIDAVIT OF NOTIFICATION

V. SHIMMIN TRUST #11-11

- A. UIC FORM 1
- B. PLATS
- C. WELL LOGS
- D. CEMENT BOND LOG
- E. CASING PROGRAM
- F. CASING TEST PROGRAM
- G. INJECTION FLUID
- H. INJECTION PRESSURES.
- I. REVIEW OF WELLS WITHIN 1/2 MILE RADIUS
- J. GEOLOGIC DATA
- K. WELLBORE DIAGRAM
- L. INJECTIVITY DATA
- M. LABORATORY TESTS
- N. AFFIDAVIT OF NOTIFICATION

## I. OVERVIEW

The purpose of the Castlegate CBM Project is to develop and exploit the Coal Bed Methane associated with the Blackhawk Coal in Carbon County, Utah. The Methane will be produced through twenty five (25) wells which have already been drilled. Of these twenty five (25) wells, only seven (7) have been completed to date. Six (6) wells have been completed in the Blackhawk Coal as producers and one (1) well has been completed in the Spring Canyon Sand as an injection well. This well was utilized for injectivity testing. The remaining eighteen (18) wells are scheduled to be completed in 1993, at which time the project will be put on production.

Exploitation of the Methane from the Blackhawk Coal requires that the coal be dewatered. As the water is removed from the coal, the Methane will begin to disassociate and will be produced. The dewatering process will result in the initial production of approximately eighteen thousand seven hundred fifty (18,750) barrels of saltwater per day or seven hundred fifty (750) barrels per day per producing well. This water must then be disposed. The two options available for disposal of the water are to reduce the amount of Total Dissolved Solids (TDS) in the water and then discharge the water into the surface waters or to dispose the water into the Spring Canyon Sand through disposal wells.

PG&E Resources intends to inject the produced water into the Spring Canyon Sand. This would be accomplished by dually completing four (4) of the wells. These wells will produce from the Blackhawk through the upper tubing string and inject into the Spring Canyon Sand through the lower tubing string. The produced water will be filtered prior to injection to remove any coal fragments which may be present. Water Analysis of the produced water (6,500+ mg/l TDS) and Spring Canyon Sand formation water (10,520 mg/l TDS) indicate that the waters are compatible.

The success of the Castlegate CBM Project is dependent upon receiving authorization to use disposal wells to dispose of the produced water.

INJECTION WELL APPLICATION

REVIEW SUMMARY

Applicant: PGE Resources Well: Jensen # 9-10

Location: section 10 township 12 S range 10 E

API #: 43-007-30159 Well Type: disp.  enhanced recov.

If enhanced recovery has project been approved by the Board? NA

Lease Type: Fee Surface Ownership: Jensen

Field: wildcat Unit: \_\_\_\_\_ Indian Country: N

UIC Form 1: Yes Plat: Yes Wells in AOR: 3 P

Logs Available: Yes Bond Log: no

Casing Program: 9 5/8" @ 498', 7" @ 4930' cement at & surface.

Integrity Test: RATS to be run

Injection Fluid: H<sub>2</sub>O

Geologic Information: Spring canyon injection zone 4704-4774'

Analyses of Injection Fluid: Y Formation Fluid: Y Compat. Y

Fracture Gradient Information: .51 psi/ft Parting Pressure 2990 psi

Affidavit of Notice to Owners: needs notary

Fresh Water Aquifers in Area: need info

Depth Base of Moderately Saline Water: \_\_\_\_\_

Confining Interval: manassas shale below + Aberdeen above

Reviewer: D. Jones Date: 2/4/93

Comments & Recommendation Need info on fresh water in Area - maybe X-section

**II. JENSEN #9-10**

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number  
Fee

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

6. Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

1. Type of Well: OIL  GAS  OTHER: Coalbed Methane

8. Well Name and Number:

Jensen #9-10

2. Name of Operator

Anadarko Petroleum Corporation

9. API Well Number:

43-007-30159

3. Address and Telephone Number.

17001 Northchase Dr., Houston, Texas 77060 (281) 875-1101

10. Field and Pool, or Wildcat

Castlegate

4. Location of Well

Footages: NE NE 2559' FSL & 909' FEL

County: Carbon

QQ, Sec., T., R., M.: Sec. 10 T12S-R10E

State: Utah

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

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

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Multiple Completion
- Other
- New Construction
- Pull or Alter Casing
- Recomplete
- Perforate
- Vent or Flare
- Water Shut-Off

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

- Abandon\*
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Other
- New Construction
- Pull or Alter Casing
- Perforate
- Vent or Flare
- Water Shut-Off

Approximate date work will start Early Spring

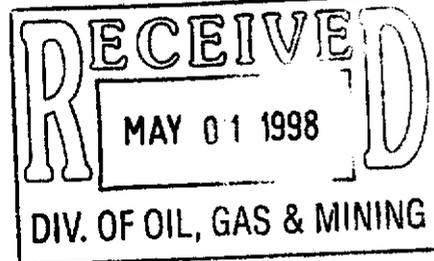
Date of work completion \_\_\_\_\_

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

\* Must be accompanied by a cement verification report.

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

Please see attached "Well Diagram" for all wellbore information and geological markers.



13. Name & Signature Shad Frazier Title Production Engineer Date 02/17/98

(This space for State use only)

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

DATE: 5-17-98 (See Instructions on Reverse Side)

BY: [Signature]



**Plugging Procedure**

**Jensen #9-10  
Sec. 10-T12S-R10E 2559' FSL & 909' FEL  
Carbon County, Utah**

**AFE: 501501  
WI: 100%  
API # 43-007-30159**

**Purpose: Plug and Abandon Castlegate field**

---

**Surf: 8-5/8", 24# K-55  
Prod: 5-1/2", 17# N-80 ( Drift = 4.767" )**

---

**Wireline: Halliburton, Vernal 801-789-2550  
Cementing: Halliburton, Vernal 801-789-2550**

**Procedure:**

1. RDWH, NUBOP, BD casing pressure. MIRUWL. TIH W/ GR/JB to 4780. POH w/ GR/JB and pick up CIBP. Trip in hole and set CIBP @ +/- 4130(Do not set in collars). RDWL and move to next location.
2. MIRU Coiled Tubing equipment and cement unit
3. Mix and pump a minimum of 5 sacks class G cement and spot on top of CIBP @ +/- 4130.
4. POH to bottom of surface casing @ 518 and spot a 50 ft. plug.
5. Pull up hole to within 50 ft of surface and spot 50 ft plug.
6. Cut production casing off and mix and pump a 100 ft cement plug between csg and prod csg. NDBOP.
7. Reclaim location and install 4 ft. dead man marker with lease name, number, company name, and legal description.

\* all displacement fluid will contain non-corrosive fluid.

Prepared: Shad Frazier 4/29/98

Approved: JM

Castlegate plugging.doc

cc: Steve Pearson  
Alan O'Donnell  
Kendall Madden  
Shad Frazier  
Tom Rushing  
WF - Jensen #9-10, Carbon County, Utah

# JENSEN #9-10

NE NE 2559' FSL & 909' FEL: SEC 10 T12S-R10E  
API NO. 43-007-30159

SPUD RIG OFF  
SURFACE 08/10/1992 08/13/1992  
PRODUCTION 08/15/1992 08/28/1992

7152 GL 20 KB 7172

12-1/4" Hole  
9-5/8" 36# J-55  
w/275 sxs cmt  
TOC @ Surface

TOC

DV Tool  
w/340 sxs cmt

TOC

(Holes)	Perforations
(8)	4144 - 4152
(10)	4190 - 4199
(10)	4235 - 4244
(4)	4282 - 4286
(5)	4304 - 4311
(7)	4332 - 4343
(4)	4353 - 4358
(3)	4365 - 4369
(25)	4370 - 4394
(5)	4464 - 4469
(5)	4479 - 4486
(6)	4534 - 4544
(25)	4550 - 4574
(164)	4705 - 4746
(84)	4753 - 4774
(365)	Total Holes

TA  
EOT

FILL

8-3/4" Hole  
7", 26&29# N-80  
w/400 sxs cmt

TD 4930

518  
  
2650  
  
3343  
  
4000

4684  
4690  
  
4786  
  
4840  
4930

## WELL WORK HISTORY

06/03/1993 F/4332-4544 w/69M GAL XL CMHEC, 36M# 100  
MESH, 108M# 16/30. NO RESIN COAT  
06/06/1993 F/4144-4244 w/71M GAL XL CMHEC, 41M# 100  
MESH, 103M# 16/30. PERFS 4282-86&4304-  
4311 WERE COVERED BY SD PLG @ 4263.  
06/20/1993 COMPLT AS DUAL 2-1/16" SPRING CNYN INJ &  
2-7/8" BLKHAWK PRODUCER  
12/17/1993 RAN TRACER TEST. CONCLUDED SC COMM w/  
BLACKHAWK FIELD-WIDE.  
10/20/1994 CNVRT TO SINGLE PROD w/ ZONES OPEN.  
RUN KUDU 240 PMP, TFF 4647 & CO 4840  
11/27/1994 ROTOR BROKE. TFF @ 4814, EOT 4752  
12/07/1994 PMP LOCKED, RUN BMW 175-6000, TFF 4814  
  
12/31/1994 STATOR SANDED, TFF @ 4785, EOT 4734  
02/08/1995 STATOR SANDED, TFF @ 4750 & CO TO 4810  
02/28/1995 PMP LOCKED, STATOR COLLAPSED, RUN  
BMW 100 PMP, TFF @ 4796  
03/30/1995 STATOR SANDED, HYDROFIX TRTMT, TFF 4727  
& CO TO 4796, PERF ABER & KENIL  
10/28/1995 HOLE IN TBG

### NOTES:

### TUBING BREAKDOWN

2-7/8"	JTS
TA	
2-7/8"	JTS
3-1/2"	JTS
SN	
TAG BAR	
2-7/8"	JTS
NC	
EOT	

### ROD BREAKDOWN

PONIES	
1"	
7/8"	
3/4"	
1"	
1.5"	
PUMP	

### DEVIATION ANGLE

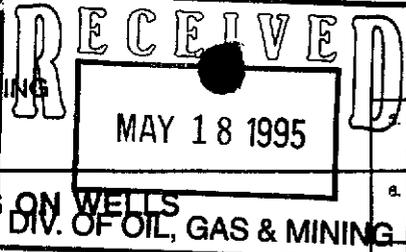
570	3
1150	3
1650	2.8
2143	3.5
2610	3.5
3035	4.8
3545	4.5
4290	6
4900	7

### FORMATION

PRICE RIVER	2904
CASTLEGATE	3354
BLACKHAWK	3658
KENILWORTH	4368
ABERDEEN	4559
SPRING CANYON	4704

### TOP

LAST REVISED: 04/30/1998



License Designation and Serial Number:

FEE

Indian, Alutian or Tribe Name:

N/A

**SUNDRY NOTICES AND REPORTS ON WELLS**  
DIV. OF OIL, GAS & MINING

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

Unit Agreement Name:

N/A

1. Type of Well: OIL  GAS  OTHER:

COALBED METHANE

Well Name and Number:

Jensen 9-10

2. Name of Operator:

Anadarko Petroleum Corporation

API Well Number:

43-007-30159

3. Address and Telephone Number:

9400 N. Broadway, Ste. 700 Oklahoma City, OK 73110 (405) 475-7000

10. Field and Pool, or Wildcat:

Wildcat

4. Location of Well

Footages: 2559' FSL & 909' FEL

Carbon

County:

QQ, Sec. T, R, M, NE/4 NE/4 Sec. 10-T12S-R10E

State: Utah

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

NOTICE OF INTENT

(Submit in Duplicate)

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

Approximate date work will start \_\_\_\_\_

SUBSEQUENT REPORT

(Submit Original Form Only)

- Abandonment \*
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other CONVERTED TO PRODUCER & COMMINGLE
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Date of work completion 10/18/94

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

\* Must be accompanied by a cement verification report.

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

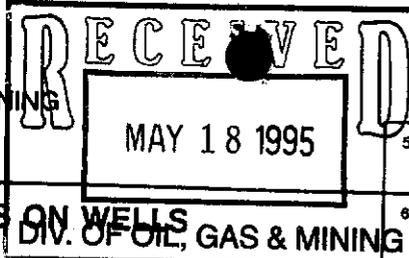
1. Remove dual hanger, Release Packer
2. Set 2-7/8" TRICO tbg anchor w/50000# shear, XO 240-6000 stator  
EOT 4783'
3. Put on Production

13.

Name & Signature: Bill Savage W.A. SAVAGE Title: SR. PROD. ENGR. Date: 5/12/95

(This space for State use only)

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING



SUNDRY NOTICES AND REPORTS ON WELLS

5. Lease Designation and Serial Number:

FEE

6. If Indian, Allottee or Tribe Name:

N/A

7. Unit Agreement Name:

N/A

1. Type of Well: OIL  GAS  OTHER:

COALBED METHANE

2. Name of Operator:

Anadarko Petroleum Corporation

3. Address and Telephone Number:

9400 N. Broadway, Ste. 700 Oklahoma City, OK 73110 (405) 475-7000

4. Location of Well

Footages: 2559' FSL & 909' FEL

QQ, Sec., T., R., M. NE/4 NE/4 Sec. 10-T12S-R10E

10. Field and Pool, or Wildcat:  
Carbon  
County:

Utah  
State:

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

NOTICE OF INTENT  
(Submit in Duplicate)

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

SUBSEQUENT REPORT  
(Submit Original Form Only)

- Abandonment \*
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other CONVERTED TO PRODUCER & COMMINGLE
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate date work will start \_\_\_\_\_

Date of work completion 10/18/94

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

\* Must be accompanied by a cement verification report.

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1. Remove dual hanger, Release Packer
2. Set 2-7/8" TRICO tbg anchor w/50000# shear, XO 240-6000 stator EOT 4783'
3. Put on Production

13.

Name & Signature:

W.A. SAVAGE

Title: SR. PROD. ENGR.

Date: 5/12/95

(This space for State use only)

FORM 9

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. Type of Well: OIL  GAS  OTHER:

2. Name of Operator:  
Anadarko Petroleum Corporation

3. Address and Telephone Number:  
9400 N. Broadway, Ste. 700 Oklahoma City, OK 73114 405-475-7000

4. Location of Well  
Footages: 2559' FSL & 909' FEL  
OO, Sec., T., R., M.: NE/4 NE/4 Sec. 10-T12S-R10E

5. Lease Designation and Serial Number:

Fec

6. If Indian, Altonce or Tribe Name:

N/A

7. Unit Agreement Name:

N/A

8. Well Name and Number:

Jensen 9-10

9. API Well Number:

43-007-30159

10. Field and Pool, or Wildcat:

Wildcat

County: Carbon

State: Utah

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

NOTICE OF INTENT  
(Submit in Duplicate)

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

Approximate date work will start 10/11/94

SUBSEQUENT REPORT  
(Submit Original Form Only)

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

Date of work completion \_\_\_\_\_

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

\* Must be accompanied by a cement verification report.

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

This well is currently completed as a dual injector/producer with injection into the Spring Canyon formation (4705-4774) and production from the Blackhawk Coal formation (4144-4544). The two zones are separated by a retrievable packer (see attached well bore diagram). Testing completed by the prior operator and the Exxon Chemical Co. indicated wide spread communication between the Spring Canyon injection interval and at least the lower members of the Blackhawk Coal formation. This communication is not believed to be well bore related. As a result, produced water is no longer disposed in the Spring Canyon and this dual connection is not necessary.

Anadarko would like to remove the isolating packer and commingle water production from both zones in an attempt to determine if the apparent communication between the zones can be used to accelerate dewatering of the Blackhawk Coals. Water that is produced from both zones would be disposed in the Shimm Trust 10-11, Sec 11 T12S-R10E (UIC #146). If favorable responses in offsetting wells are not observed within a six month trial period, the Spring Canyon zone will be plugged back and the well will be produced from only the Blackhawk Coal perforations.

13. Name & Signature: Bill Savage Bill Savage Title: Senior Production Engr. Date: 10/11/94

(This space for State use only)

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 10/12/94  
BY: [Signature]



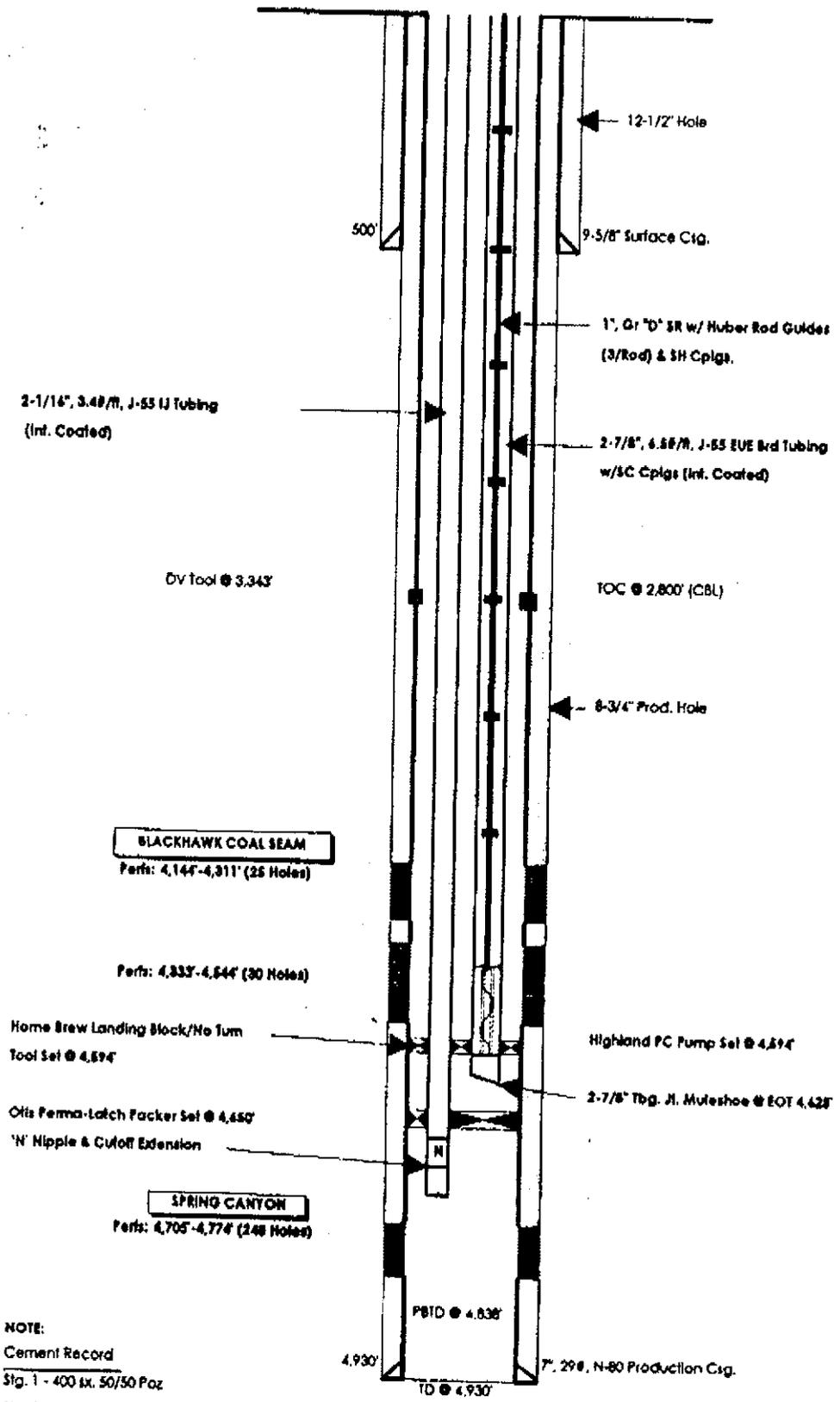
### JENSEN NO. 9-10

Castlegate Prospect  
Carbon County, Utah

JENSE-10.W80

AHE 8-14-92

Sec. 10-T12S-R10E



**NOTE:**  
 Cement Record  
 Slg. 1 - 400 sk. 50/50 Poz  
 Slg. 2 - 290 sk. Cl "O" + Tail cml. 50 sk. Cl "G".

FROM: ANADARKO OKLA CITY

TO: 801 359 3940

OCT 11, 1994 5:08PM P.02

FORM 9

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. Type of Well: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER:		5. Lease Designation and Serial Number: Fee
2. Name of Operator: Anadarko Petroleum Corporation		6. If Indian, Alottee or Tribe Name: N/A
3. Address and Telephone Number: 9400 N. Broadway, Ste. 700 Oklahoma City, OK 73114 405-475-7000		7. Unit Agreement Name: N/A
4. Location of Well Footages: 2559' FSL & 909' FEL CC. Sec., T., R., M.: NE/4 NE/4 Sec. 10-T12S-R10E		8. Well Name and Number: Jensen 9-10
		9. API Well Number: 43-007-30159
		10. Field and Pool, or Wildcat: Wildcat
		Country: Carbon State: Utah

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

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input checked="" type="checkbox"/> Other <u>Convert to production &amp; commingle</u>	<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Other
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off
Approximate date work will start <u>10/11/94</u>	Date of work completion _____
	Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)  
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13. Name & Signature: Bill Savage Title: Senior Production Engr. Date: 10/11/94

(This space for State use only)

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING  
DATE: 10/12/94  
BY: [Signature]

ENTITY REVIEW

- Y Lec 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)

- Y Lec 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond. Surety # 224351 / \$80,000 "Seaboard Surety Company"
2. A copy of this form has been placed in the new and former operators' bond files.
- Y Lec 3. The former operator has requested a release of liability from their bond (yes/no) no. Today's date Aug. 8, 19 94. If yes, division response was made by letter dated     19    .

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- OTS 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated 8/19 19 94, 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. by 9/2/94
- OTS 2. Copies of documents have been sent to State Lands for changes involving State leases. 8/15/94 to Ed Bonner

FILMING

- ✓ 1. All attachments to this form have been microfilmed. Date: August 23 19 94.

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

940809 Trust Lands / Ed Bonner (state 2-16 & 9-16 / ml-444437 Anedarko bonding in place.  
\* Federal Lease wells on separate chg. This change Fee, state, WDW only.

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

Routing:

1	EC	✓
2	LWP	7-PL ✓
3	DE	8-SJ ✓
4	VLC	9-FILE ✓
5	RJF	✓
6	LWP	✓

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

- 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: 8-01-94)

TO (new operator)	<u>ANADARKO PETROLEUM CORP.</u>	FROM (former operator)	<u>PG&amp;E RESOURCES COMPANY</u>
(address)	<u>9400 N BROADWAY STE 700</u>	(address)	<u>6688 N CENTRAL EXP #1000</u>
	<u>OKLAHOMA CITY OK 73114-7403</u>		<u>DALLAS TX 75206-3922</u>
	<u>L. STEVE HAMILTON, MGR</u>		<u>REJAHNA BARROW</u>
phone ( <u>405</u> )	<u>475-7000</u>	phone ( <u>214</u> )	<u>750-3922</u>
account no.	<u>N 0035</u>	account no.	<u>N0595</u>

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

Name: <b>**SEE ATTACHMENT**</b>	API: <u>007-30159</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: _____
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 8-8-94)*
- Lee 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec'd 8-8-94)*
- N/A 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: \_\_\_\_\_.
- N/A 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.
- LWP 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *8-15-94*
- LWP 6. Cardex file has been updated for each well listed above. *8-12-94*
- LWP 7. Well file labels have been updated for each well listed above. *8-12-94*
- Lee 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(8-11-94)*
- 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.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84100-1203

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

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

UTAH ACCOUNT NUMBER: N0595

REPORT PERIOD (MONTH/YEAR): 6 / 94

AMENDED REPORT  (Highlight Changes)

Well Name	Producing Zone	Well Status	Days Oper	Production Volumes		
				OIL(BBL)	GAS(MCF)	WATER(BBL)
STATE 2-32B 4304732221 11371 09S 19E 32	WSTC					
STATE 9-36B 4304732249 11372 09S 19E 36	WSTC					
FEDERAL 11-24B 4304732223 11375 09S 19E 24	GRRV					
FEDERAL 1-26B 4304732248 11380 09S 19E 26	WSTC					
FEDERAL 7-9 4300730137 11382 12S 10E 9	MVDCL			- UTU 65948		
STATE 2-16 4300730133 11399 12S 10E 16	✓ MVDCL			- ML-44443		
ERAL 4-13 4300730126 11400 12S 10E 13	MVDCL			- U 65949		
FEDERAL 4-15 4300730138 11401 12S 10E 15	MVDCL			- UTU 65949		
STATE 9-16 4300730132 11402 12S 10E 16	✓ MVDCL			- ML-44443		
JENSEN 16-10 4300730161 11403 12S 10E 10	✓ MVDCL			- (Dual Compl / ALSO WDW)		- FEE
JENSEN 16-10 4300730159 11404 12S 10E 10	✓ MVDCL			- (Dual Compl / ALSO WDW)		- FEE
JENSEN 11-10 4300730164 11405 12S 10E 10	✓ MVDCL			- FEE		
JENSEN 5-10 4300730162 11406 12S 10E 10	✓ MVDCL			- FEE		
<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: \_\_\_\_\_



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)

August 19, 1994

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

Re: Notification of Sale or Transfer of Fee Lease Interest - Carbon County, Utah

Dear Ms. Barrow:

The division has received notification of a change of operator from PG & E Resources Company to Anadarko Petroleum Corporation for the following wells which are located on fee leases.

Jensen 7-15	Section 15, T.12S., R.10E	API No. 43-007-30165
Shimmin Trust 11-11	Section 11, T.12S., R.10E.	API No. 43-007-30166
Jensen 16-9	Section 9, T.12S., R.10E.	API No. 43-007-30163
Shimmin Trust 12-12	Section 12, T.12S., R.10E.	API No. 43-007-30168
Jensen 11-15	Section 15, T.12S., R.10E.	API No. 43-007-30175
Shimmin Trust 14-12	Section 12, T.12S., R.10E.	API No. 43-007-30169
Shimmin Trust 10-11	Section 11, T.12S., R.10E.	API No. 43-007-30167
Shimmin Trust 3	Section 14, T.12S., R.10E.	API No. 43-007-30119
Shimmin Trust 1	Section 11, T.12S., R.10E.	API No. 43-007-30120
Shimmin Trust 2	Section 14, T.12S., R.10E.	API No. 43-007-30121
Shimmin Trust 5	Section 14, T.12S., R.10E.	API No. 43-007-30122
Shimmin Trust 4	Section 11, T.12S., R.10E.	API No. 43-007-30123
Jensen 16-10	Section 10, T.12S., R.10E.	API No. 43-007-30161
Jensen 9-10	Section 10, T.12S., R.10E.	API No. 43-007-30159
Jensen 11-10	Section 10, T.12S., R.10E.	API No. 43-007-30164
Jensen 5-10	Section 10, T.12S., R.10E.	API No. 43-007-30162

Rule R.649-2-10 of the Utah Oil and Gas Conservation General Rules, requires that the owner of a lease provide notification to any person with an interest in such lease (working interest or royalty interest), when all or part of that interest in the lease is sold or transferred.



Page 2

Ms. Rejahna Barrow  
August 19, 1994

This letter is written to advise PG & E Resources Company of its responsibility to notify all individuals with an interest in these leases of the change of operator. Please provide written documentation of this notification to the division no later than September 9, 1994.

Sincerely,

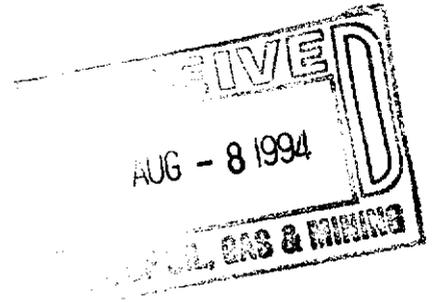


Don Staley  
Administrative Manager  
Oil and Gas

ldc

cc: R.J. Firth  
WOI201

August 2, 1994



STATE OF UTAH  
Division of Oil Gas & Mining  
355 W. North Temple  
3 Triad Center - Suite 350  
Salt Lake City, UT 84180

ATTENTION: Lisha Cordova

RE: Change of Operator  
Castlegate Wells  
Carbon County, Utah

Dear Lisha:

Enclosed please find the following documents in connection with the above captioned transfer of operations to Anadarko Petroleum Corporation effective as of August 1, 1994.

- 1) Copies of 8 BLM Sundry Notices (Form 3160-5)
- 2) Originals of 21 Utah Sundry Notices (Form 9)
- 3) Originals of 4 Transfers of Authority to Inject (UIC Form 5)

If additional information is needed in this regard, please contact the undersigned or Mr. L. Steve Hamilton with Anadarko at (405) 475-7000.

Sincerely,

Rejanna Barrow  
Sr. Proration Analyst  
(214) 750-3120

Enclosures (33)

cc: Mr. L. Steve Hamilton  
Anadarko Petroleum Corporation  
Oklahoma City, OK

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: Jensen 9-10  
Field or Unit name: Wildcat API no. 43-007-30159  
Well location: QQ NE SE section 10 township 12S range 10E county Carbon  
Effective Date of Transfer: August 1, 1994

CURRENT OPERATOR

Transfer approved by:

Name Rejahna Barrow Company PG&E Resources Company  
Signature *Rejahna Barrow* Address 6688 N. Central Expwy, Suite 1000  
Title Sr. Proration Analyst Dallas, Texas 75206  
Date August 1, 1994 Phone ( 214 ) 750-3800

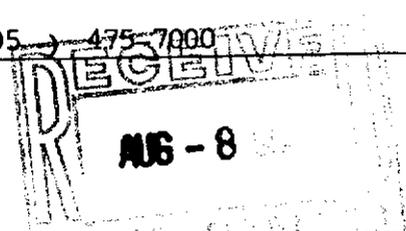
Comments:

NEW OPERATOR

Transfer approved by:

Name L. Steve Hamilton Company Anadarko Petroleum Corporation  
Signature *L. Steve Hamilton* Address 9400 N. Broadway, Suite 700  
Title Division Administrative Manager Oklahoma City, Oklahoma 73114  
Date August 1, 1994 Phone ( 405 ) 475-7000

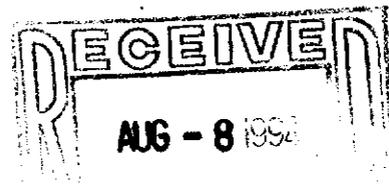
Comments:



(State use only)

Transfer approved by *[Signature]* Title *VICE MANAGER*

Approval Date 8-10-94



Note: Please furnish both Operators a copy of the approved Sundry.

Form 9

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

6. Lease Designation and Serial Number
7. Indian Allottee or Tribe Name N/A
8. Unit or Communitization Agreement N/A
9. Well Name and Number Jensen 9-10
10. API Well Number 43-007-30159
11. Field and Pool, or Wildcat Wildcat

1. Type of Well  
 Oil Well     Gas Well     Other (specify) SWD

2. Name of Operator  
Anadarko Petroleum Corporation

3. Address of Operator 9400 N. Broadway - Suite 700  
Oklahoma City, OK 73114

4. Telephone Number  
(405) 475-7000

5. Location of Well  
 Footage : 2559' FSL & 909' FEL  
 CO. Sec. T., R., M. : NE/4 SE/4, Sec. 10, T12S, R10E  
 County : Carbon  
 State : UTAH

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

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

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

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

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

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

Date of Work Completion \_\_\_\_\_

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

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

Please be advised that PG&E Resources Company is hereby transferring operations and Anadarko Petroleum Corporation is hereby assuming operations and will be responsible for the above described well effective as of August 1, 1994.

Bond coverage for this well is provided by Anadarko Petroleum Corporation's Statewide Blanket Bond #224351

PG&E Resources Company hereby agrees to the foregoing transfer.

By: *Rajhna Bansa*, Sr. Proration Analyst, August 1, 1994

ACCEPTED BY OFFICER OF UTAH DIVISION OF OIL, GAS AND MINING

RECEIVED  
AUG - 8

DATE: Aug 11, 1994  
BY: Lisha Cordova

14. I hereby certify that the foregoing is true and correct  
 Name & Signature *Lisha Cordova* Title Division Admin. Mgr. Date 8/1/94

(State Use Only)

Note: Please furnish both Operators a copy of the approved Sundry.

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

Form 9

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

6. Lease Designation and Serial Number
7. Indian Allottee or Tribe Name N/A
8. Unit or Communitization Agreement N/A
9. Well Name and Number Jensen 9-10
10. API Well Number 43-007-30159
11. Field and Pool, or Wildcat Wildcat

1. Type of Well  
 Oil Well     Gas Well     Other (specify)

2. Name of Operator  
Anadarko Petroleum Corporation

3. Address of Operator 9400 N. Broadway - Suite 700  
Oklahoma City, OK 73114

4. Telephone Number  
(405) 475-7000

5. Location of Well  
Footage : 2559' FSL & 909' FEL  
OO, Sec. T., R., M. : NE/4 SE/4, Sec. 10, T12S, R10E  
County : Carbon  
State : UTAH

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

NOTICE OF INTENT  
(Submit in Duplicate)

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

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

SUBSEQUENT REPORT  
(Submit Original Form Only)

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

Date of Work Completion \_\_\_\_\_

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

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

Please be advised that PG&E Resources Company is hereby transferring operations and Anadarko Petroleum Corporation is hereby assuming operations and will be responsible for the above described well effective as of August 1, 1994.

Bond coverage for this well is provided by Anadarko Petroleum Corporation's Statewide Blanket Bond #224351

PG&E Resources Company hereby agrees to the foregoing transfer.

By: Rejahn Barrow, Sr. Proration Analyst, August 1, 1994

DATE: Aug. 11, 1994

BY: Lisha Cordova

AUG - 8

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

Name & Signature [Signature]

Title Division Admin. Mgr. Date 8/1/94

(State Use Only)

CONFIDENTIAL

RECEIVED

DEC 13 1993

DIVISION OF  
OIL, GAS & MINING

December 8, 1993



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

Attention: Mr. Dan Jarvis

RE: Jensen 9-10  
Section 10-T12S-R10  
Carbon County, Utah

Dear Mr. Jarvis:

Attached is an original and two (2) copies of Form 9 "Sundry Notices and Reports on Wells", subsequent report for the referenced well. PG&E Resources Company ran a tracer survey on December 1, 1993 and a copy is attached for your records.

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

Sincerely,

Cindy R. Keister  
Sr. Regulatory Analyst

CRK/ck

Attachments

cc: Central File  
Regulatory File

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

CONFIDENTIAL

6. Lease Designation and Serial Number Fee
7. Indian Allottee or Tribe Name NA
8. Unit or Communization Agreement NA
9. Well Name and Number Jensen 9-10
10. API Well Number 43-007-30159
11. Field and Pool, or Wildcat Wildcat
County : Carbon State : UTAH

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

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

2. Name of Operator  
 PG&E Resources Company

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

4. Telephone Number  
 (214) 750-3800

5. Location of Well  
 Footage : 2559' FSL & 909' FEL  
 QQ. Sec. T., R., M. : NE/4 SE/4 Sec. 10, T12S-R10E

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

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

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

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

**SUBSEQUENT REPORT**  
(Submit in Duplicate)

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

Date of Work Completion \_\_\_\_\_

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

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

PG&E Resources Company RU Production Logging Services and ran a Temperature and Tracer Survey on December 1, 1993.

**RECEIVED**  
DEC 13 1993  
DIVISION OF  
OIL, GAS & MINING

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

Name & Signature Cindy R. Keister *Cindy R. Keister* Title Sr. Regulatory Analyst Date 12/08/1993

(State Use Only)

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

6. Lease Designation and Serial Number Fee
7. Indian Allottee or Tribe Name NA
8. Unit or Communization Agreement NA
9. Well Name and Number Jensen 9-10
10. API Well Number 43-007-30159
11. Field and Pool, or Wildcat Wildcat

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

DEC 27 1993

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

2. Name of Operator  
 PG&E Resources Company

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

4. Telephone Number  
 (214) 750-3800

5. Location of Well  
 Footage : 2559' FSL & 909' FEL  
 QQ. Sec, T., R., M. : NE/4 NE/4 Sec. 10, T12S-R10E

County : Carbon  
 State : UTAH

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

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

- |   |   |
|---|---|
| <input type="checkbox"/> Abandonment                    | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Casing Repair                  | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans                | <input type="checkbox"/> Recompletion         |
| <input type="checkbox"/> Conversion to Injection        | <input type="checkbox"/> Shoot or Acidize     |
| <input type="checkbox"/> Fracture Treat                 | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Multiple Completion            | <input type="checkbox"/> Water Shut-Off       |
| <input checked="" type="checkbox"/> Other <u>NTL-2B</u> |   |

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

**SUBSEQUENT REPORT**  
 (Submit in Duplicate)

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

Date of Work Completion \_\_\_\_\_

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

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

PG&E Resources Company requests approval to dispose of produced water from the referenced well into off-lease injection well(s) located in Section 10 and 11 of T12S-R10E, Carbon County, Utah. The produced water will flow via a gathering line to a central processing facility (CPF) where it will be consolidated with other produced water from the field prior to entering the injection header for disposal into one of the four injection wells. A copy of the State of Utah, UIC Permit is included for your review.

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

Name & Signature Cindy R. Keister  Title Sr. Regulatory Analyst Date 12/20/1993

(State Use Only)

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

6. Lease Designation and Serial Number  
Fee

7. Indian Allottee or Tribe Name

NA

8. Unit or Communitization Agreement

NA

9. Well Name and Number

Jensen 9-10

10. API Well Number

43-007-30159

11. Field and Pool, or Wildcat

Wildcat

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. Type of Well

Oil Well     Gas Well     Other (Specify)

2. Name of Operator

PG&E Resources Company

3. Address of Operator

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

4. Telephone Number

(214) 750-3800

5. Location of Well

Footage : 2559' FSL & 909' FEL

County : Carbon

QQ. Sec. T., R., M. : NE/4 NE/4 Sec. 10, T12S-R10E

State : UTAH

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

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

- |   |   |
|---|---|
| <input type="checkbox"/> Abandonment                    | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Casing Repair                  | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans                | <input type="checkbox"/> Recompletion         |
| <input type="checkbox"/> Conversion to Injection        | <input type="checkbox"/> Shoot or Acidize     |
| <input type="checkbox"/> Fracture Treat                 | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Multiple Completion            | <input type="checkbox"/> Water Shut-Off       |
| <input checked="" type="checkbox"/> Other <u>NTL-2B</u> |   |

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

**SUBSEQUENT REPORT**  
(Submit in Duplicate)

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

Date of Work Completion \_\_\_\_\_

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

\* Must be accompanied by a cement verification report.

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

PG&E Resources Company requests approval to dispose of produced water from the referenced well into off-lease injection well(s) located in Section 10 and 11 of T12S-R10E, Carbon County, Utah. The produced water will flow via a gathering line to a central processing facility (CPF) where it will be consolidated with other produced water from the field prior to entering the injection header for disposal into one of the four injection wells. A copy of the State of Utah, UIC Permit is included for your review.

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

Name & Signature Cindy R. Keister



Title Sr. Regulatory Analyst

Date 12/20/1993

(State Use Only)



RECEIVED

December 8, 1993

DEC 13 1993

DIVISION OF  
OIL, GAS & MINING

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

Attention: Mr. Dan Jarvis

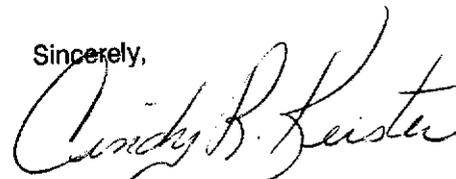
RE: Jensen 9-10, Jensen 16-10  
Shimmin Trust 10-11 &  
Shimmin Trust 11-11  
Carbon County, Utah

Dear Mr. Jarvis:

Attached is an original and two (2) copies of Form 9 "Sundry Notices and Reports on Wells", subsequent report, showing the date of first injection for the referenced salt water disposal wells.

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

Sincerely,



Cindy R. Keister  
Sr. Regulatory Analyst

CRK/ck

Attachments

cc: Central File  
Regulatory File

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

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

6. Lease Designation and Serial Number Fee
7. Indian Allottee or Tribe Name NA
8. Unit or Communitization Agreement NA
9. Well Name and Number Jensen 9-10
10. API Well Number 43-007-30159
11. Field and Pool, or Wildcat Wildcat

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

2. Name of Operator  
 PG&E Resources Company

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

4. Telephone Number  
 (214) 750-3800

5. Location of Well  
 Footage : 2559' FSL & 909' FEL  
 QQ. Sec, T., R., M. : NE/4 NE/4 Sec. 10, T12S-R10E

County : Carbon  
 State : UTAH

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

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

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

**SUBSEQUENT REPORT**  
(Submit in Duplicate)

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

Date of Work Completion \_\_\_\_\_

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

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

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

PG&E Resources Company began injecting into the Spring Canyon formation on October 21, 1993.

**RECEIVED**

DEC 13 1993

DIVISION OF  
OIL, GAS & MINING

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

Name & Signature Cindy R. Keister *Cindy R. Keister* Title Sr. Regulatory Analyst Date 12/08/1993

(State Use Only)

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

6. Lease Designation and Serial Number  
Fee

7. Indian Allottee or Tribe Name

NA

8. Unit or Communitization Agreement

NA

9. Well Name and Number

Jensen 9-10

10. API Well Number

43-007-30159

11. Field and Pool, or Wildcat

Wildcat

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. Type of Well

Oil Well     Gas Well     Other (Specify) SWD

2. Name of Operator

PG&E Resources Company

3. Address of Operator

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

4. Telephone Number

(214) 750-3800

5. Location of Well

Footage : 2559' FSL & 909' FEL  
QQ, Sec, T., R., M. : NE/4 NE/4 Sec. 10, T12S-R10E

County : Carbon

State : UTAH

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

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

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

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

**SUBSEQUENT REPORT**  
(Submit in Duplicate)

- Abandonment \*
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Test
- Other First Injection
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Date of Work Completion \_\_\_\_\_

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.  
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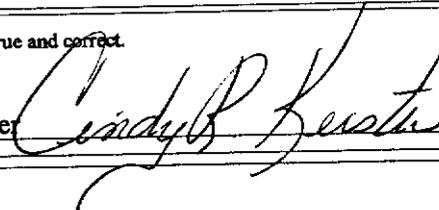
PG&E Resources Company began injecting into the Spring Canyon formation on October 21, 1993.



DEC 13 1993

DIVISION OF  
OIL, GAS & MINING

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Name & Signature Cindy R. Keister  Title Sr. Regulatory Analyst Date 12/08/1993

(State Use Only)

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

6. Lease Designation and Serial Number Fee
7. Indian Allottee or Tribe Name
NA
8. Unit or Communitization Agreement
NA
9. Well Name and Number
Jensen 9-10
10. API Well Number
43-007-30159
11. Field and Pool, or Wildcat
Wildcat
County : Carbon
State : UTAH

**SUNDRY NOTICES AND REPORTS ON WELLS**  
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 Use APPLICATION FOR PERMIT for such proposals.

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

2. Name of Operator  
PG&E Resources Company

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

4. Telephone Number  
(214) 750-3800

5. Location of Well  
 Footage : 2559' FSL & 909' FEL  
 QQ. Sec. T., R., M. : NE/4 NE/4 Sec. 10, T12S-R10E

County : Carbon  
 State : UTAH

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

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

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

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

**SUBSEQUENT REPORT**  
 (Submit in Duplicate)

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

Date of Work Completion \_\_\_\_\_

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

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

PG&E Resources Company began injecting into the Spring Canyon formation on October 21, 1993.

RECEIVED

DEC 13 1993

DIVISION OF  
 OIL, GAS & MINING

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

Name & Signature Cindy R. Keister Title Sr. Regulatory Analyst Date 12/08/1993

(State Use Only)

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

**CONFIDENTIAL**

6. Lease Designation and Serial Number  
430396

7. Indian Allottee or Tribe Name

NA

8. Unit or Communization Agreement

NA

9. Well Name and Number

Jensen 9-10

10. API Well Number

43-007-30159

11. Field and Pool, or Wildcat

Wildcat

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. Type of Well

Oil Well     Gas Well     Other (Specify)

2. Name of Operator

PG&E Resources Company

3. Address of Operator

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

4. Telephone Number

(214) 750-3800

5. Location of Well

Footage : 2559' FSL & 909' FEL  
QQ. Sec. T., R., M. : NE/4 SE/4 Sec. 10-T12S-R10E

County : Carbon

State : UTAH

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

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

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

Approximate Date Work Will Start 12/03/1993

**SUBSEQUENT REPORT**  
(Submit in Duplicate)

- Abandonment \*
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Test
- Other \_\_\_\_\_
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Date of Work Completion \_\_\_\_\_

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

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

PG&E Resources Company requests approval to run a RA Tracer Log as follows:

1. RU Production Logging, Vernal, Utah
2. GIH w/1" RA Source Tool in tandem w/G-R CCL Logging Tool (RIH on 2-1/16" injection tbg).
3. Move tools into position and establish injection rate w/produced coal seam water @1.5 BPM x 720 psi (est); release tracer material; attempt to chase slug w/drag runs; check for packer leakage.
4. Report results.
5. Produce field and final print logs.
6. Remedial work to be recommended pending results of survey.

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

Date: 12-7-93

By: [Signature]

**RECEIVED**

DEC 02 1993

DIVISION OF OIL, GAS & MINING

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

Name & Signature Cindy B. Keister

Cindy Keister Title

Sr. Regulatory Analyst

Date 11/30/1993

(State Use Only)

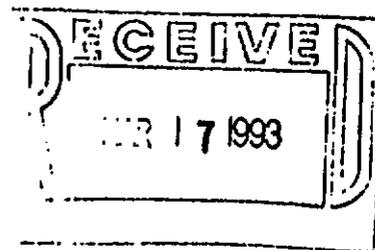


Norman H. Bangertter  
Governor  
Dee C. Hansen  
Executive Director  
Dianne R. Nielson, Ph.D.  
Division Director

# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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



March 12, 1993

PG&E Resources Company  
6688 North Central Expressway  
Dallas Texas 75206

Gentlemen:

Re: Conversion of the Jensen 16-10, Jensen 9-10, Shimmin Trust 11-11, and Shimmin Trust 10-11 wells located in Sections 10 and 11, Township 12 South, Range 10 East, Carbon County, Utah, to Water Disposal Wells

In accordance with Utah Admin. R. 649-5-3-3, administrative approval for conversion of the referenced wells to Class II injection wells is granted.

The following actions are necessary to fully comply with this approval:

1. Compliance with the UIC requirements for operation, maintenance and reporting for Class II injection wells.
2. Conformance with all conditions of the submitted applications.

If you have any questions regarding this approval or the necessary requirements, please contact this office.

Sincerely,

R.J. Firth  
Associate Director, Oil and Gas

cc: BLM, Price  
R.J. Firth  
WUI229

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

---ooOoo---

IN THE MATTER OF THE APPLICATION	:	NOTICE OF AGENCY ACTION
OF PG & E RESOURCES COMPANY FOR	:	
ADMINISTRATIVE APPROVAL OF THE	:	CAUSE NO. UIC-131
JENSEN 16-10, JENSEN 9-10,	:	
SHIMMIN TRUST 11-11, AND SHIMMIN TRUST	:	
10-11 WELLS LOCATED IN	:	
SECTIONS 10 AND 11, TOWNSHIP 12	:	
SOUTH, RANGE 10 EAST, S.L.M.,	:	
CARBON COUNTY, UTAH, AS CLASS II	:	
INJECTION WELLS	:	

---ooOoo---

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

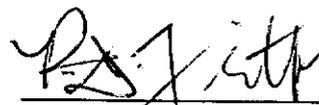
Notice is hereby given that the Division is commencing an informal adjudicative proceeding to consider the application of PG & E Resources Company for administrative approval of the Jensen 16-10, Jensen 9-10, Shimmin Trust 11-11, and Shimmin Trust 10-11 Wells, located in Sections 10 and 11, Township 12 South, Range 10 East, Carbon County, Utah, for conversion to Class II injection wells. The proceeding will be conducted in accordance with Utah Admin. R.649-10, Administrative Procedures.

The interval from 4730 feet to 4869 feet (Spring Canyon Sand of the Mesa Verde Group) will be selectively perforated for water disposal. The average injection pressure is estimated to be 1500 psig or less with a maximum requested injection pressure of 2000 psig. The estimated injection volume will be approximately 6500 barrels of water per day.

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

DATED this 17th day of February, 1993.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING



R.J. Firth  
Associate Director, Oil and Gas

PG & E RESOURCES COMPANY  
JENSEN 16-10, JENSEN 9-10,  
SHIMMIN TRUST 11-11, AND SHIMMIN TRUST 10-11 WELLS  
CAUSE NO. UIC-131

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

Sun Advocate  
Box 1870  
76 West Main  
Price, Utah 84501

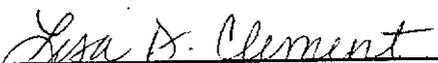
Bureau of Land Management  
Price District Office  
P.O. Drawer AB  
Price, Utah 84501

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

James T., Jerry J. and Dix Jensen  
c/o Jensen Law Office  
190 North Carbon Avenue  
Price, Utah 84051

John F. Marshall  
1495 East 2050 North  
Provo, Utah 84604

Dan Jackson  
Environmental Protection Agency  
Region VIII  
999 18th Street, Suite 500  
Denver, Colorado 80202-2466

  
\_\_\_\_\_  
Lisa D. Clement, Administrative Secretary  
February 18, 1993



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter  
Governor

Dee C. Hansen  
Executive Director

Dianne R. Nielson, Ph.D.  
Division Director

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

February 18, 1993

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

Gentlemen:

Re: Notice of Agency Action - Cause No. UIC-131

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

Sincerely,

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

Lisa D. Clement  
Administrative Secretary

ldc  
Enclosure  
WUI45



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

February 18, 1993

Sun Advocate  
Box 1870  
76 West Main  
Price, Utah 84501

Gentlemen:

Re: Notice of Agency Action - Cause No. UIC-131

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

Sincerely,

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

Lisa D. Clement  
Administrative Secretary

ldc  
Enclosure  
WUI45

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

**PERMIT  
DECISION DOCUMENT**

**Applicant:** PG&E Resources      **Location:** Castle Gate, Carbon County

**Well:** Jensen 16-10, Jensen 9-10,  
Shimmin Trust 10-11, Shimmin Trust 11-11

**Ownership Issues:** The proposed project is located in sections 10 and 11, township 12 south, range 10 east Carbon County, Utah. Surface ownership within the entire area is held by private individuals, except for a small parcel of land owned by the State of Utah. Mineral interests are held by private individuals, the State of Utah, and the federal government. PG&E Resources has submitted an affidavit stating that a copy of UIC form 1 was sent as notice to all surface owners within a 1/2 mile radius of each of the proposed injection wells.

**Well Integrity:** The four wells proposed for conversion to injection all have surface casing set at approximately 500 feet  $\pm$  30 feet, and were all cemented to surface. Production casing was set at a depth of approximately 6000 feet  $\pm$  75 feet, and were all cemented in two stages to surface. Cement bond logs will be run and submitted to the Division when the wells are converted to injection. The interval from 4730 feet to 4869 feet (Spring Canyon Sand of the Mesa Verde Group) will be selectively perforated for water disposal. All four wells will be dually completed. Production will be from the Blackhawk Formation through the upper 2 7/8" tubing and disposal will be into the Spring Canyon Sand through the lower 2 1/16" tubing and packer assembly. There are a total of 9 producing wells in the 1/2 mile area of review. All wells in the AOR have sufficient cement behind the production string and have adequate surface casing to prevent migration of fluid up the hole. At the time of conversion a retrievable packer will be set above the blackhawk perforations and the casing will be pressure tested. Casing/tubing annulus pressure will be monitored on a daily basis and reported on a monthly basis thereafter. Additional casing pressure tests shall be run every five years or whenever the tubing and packer assemblies are pulled for workover purposes.

**Ground Water Protection:** Surface geology of the area consists of Quaternary alluvium, Colton Formation, and Flagstaff Limestone. Ground water occurs in the alluvium, and in the sands and gravel of the Colton Formation. There are several springs located on the dip slope of the Flagstaff Formation and are probably seasonal depending on the amount of upgradient recharge. Water analysis reports indicate that the quality of the water is less than 10,000 mg/l down through the Blackhawk coals. Analyses of waters from the Spring Canyon Sand indicate an increase to over 11,000 mg/l. Existing casing and cement programs in the proposed injection wells and surrounding wells are adequate to protect any USDW's. The upper confining interval above the injection zone is composed of

interbedded sand, shale and siltstones of the Aberdeen and Kenilworth Formations. The lower confining zone is the Mancos Shale. A stress test was run on shales in both the upper and lower confining zones. Results of these tests indicate that the upper shales have a fracture gradient of .63 psi/ft, and the lower shales have a fracture gradient of .54 psi/ft. A step-rate/falloff test on the Spring Canyon Sand indicated a fracture gradient of .51 psi/ft. A comparison of the above fracture gradients indicates that the Spring Canyon Sand will be bound by the shales above and below. Cross sections provided by PGE Resources show that the lateral extent of the confining intervals and the injection zone include the entire project area.

**Oil/Gas & Other Mineral Resources Protection:** PG&E Resources owns all mineral leases in the area of review. Injection of water into the Spring Canyon Sand should have no adverse affect on any other mineral interests.

**Bonding:** PG&E Resources is the operator of all wells within the project and has provided a statewide bond coverage in the amount of \$80,000.

**Actions Taken and Further Approvals Needed:** A public notice was published in both the Salt Lake Tribune and the Sun Advocate on 2-23-93. No objections were received in the 15 day comment period. Administrative approval was granted to convert the wells in accordance with conditions of the permit on 03-12-93.

DJJ  
Reviewers

03-17-93  
Date

COMPANY **FGYE** 15M

30M

TICKET NUMBER 45M

HR. ← 1

5-22-73

DATE 5-22-73

MARTIN - DECKER COMPANY  
SANTA ANA, CALIF.  
MADE IN U.S.A.

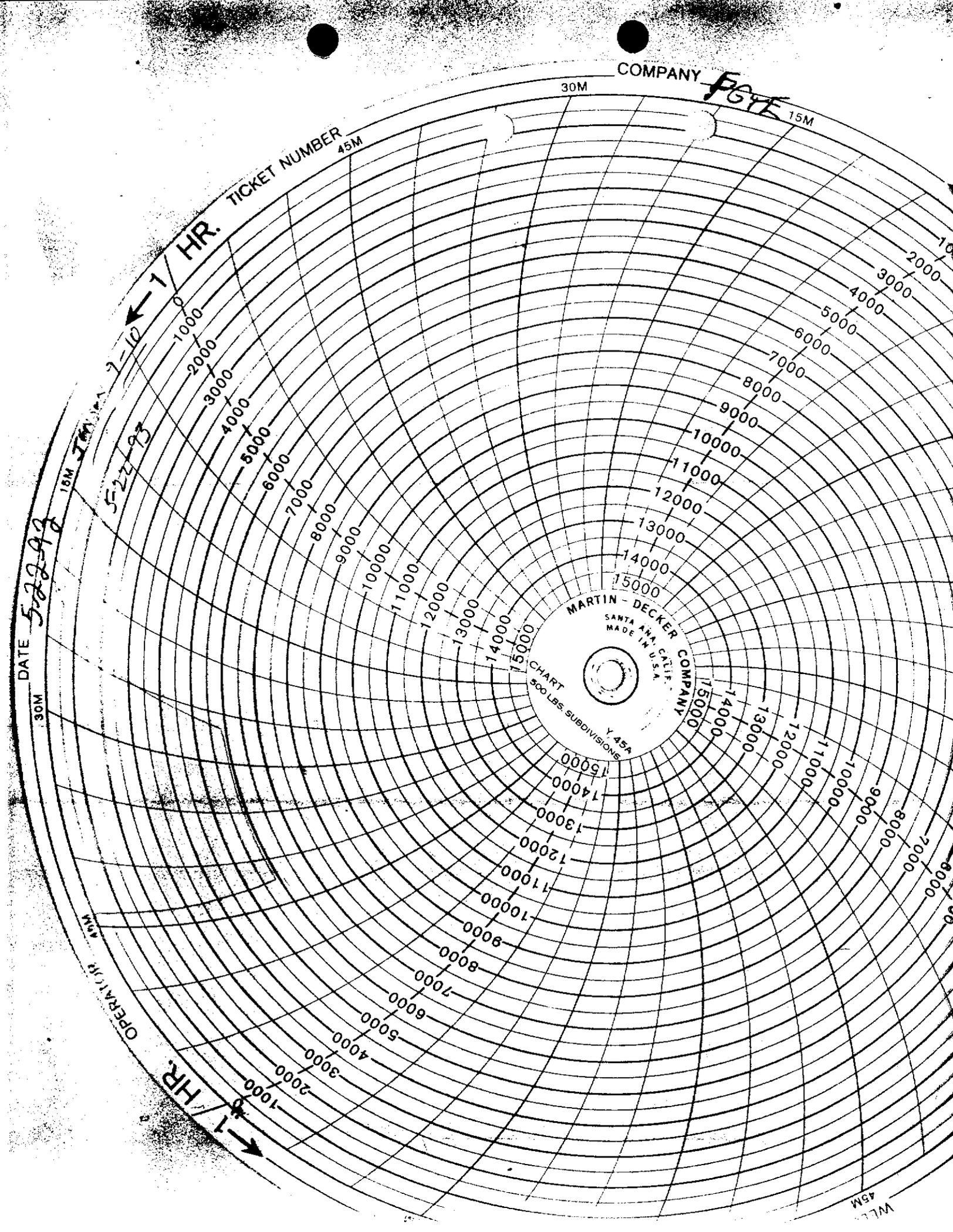
CHART  
500 LBS. SUBDIVISIONS  
Y 45A

30M

OPERATOR 45M

→ 1 / HR.

WLL 45M





**AFFIDAVIT OF PUBLICATION**

GIT / FYF

STATE OF UTAH)  
ss.  
County of Carbon,)

I, Dan Stockburger, on oath, say that I am the Publisher of the Sun Advocate, a twice-weekly newspaper of general circulation, published at Price, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue of such newspaper for One (1) consecutive issues, and that the first publication was on the

23rd day of February, 1993

and that the last publication of such notice was in the issue of such newspaper dated the

.....day of....., 19.....

*Dan Stockburger*

Subscribed and sworn to before me this  
23rd day of February, 1993

*Leida Slay*  
Notary Public

My Commission expires January 10, 1995

Residing at Price, Utah

Publication fee, \$ 32.00

**NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-181  
BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH**

**IN THE MATTER OF THE APPLICATION OF PG&E RESOURCES COMPANY FOR ADMINISTRATIVE APPROVAL OF THE JENSEN 16-10, JENSEN 9-10, SHIMMIN TRUST 11-11, AND SHIMMIN TRUST 10-11 WELLS LOCATED IN SECTIONS 10 AND 11, TOWNSHIP 12 SOUTH, RANGE 10 EAST, S.L.M., CARBON COUNTY, UTAH AS CLASS II INJECTION WELLS**

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

Notice is hereby given that the Division is commencing an informal adjudicative proceeding to consider the application of PG&E Resources Company for administrative approval of the Jensen 16-10, Jensen 9-10, Shimmin Trust 11-11, and Shimmin Trust 10-11 Wells, located in Sections 10 and 11, Township 12 South, Range 10 East, Carbon County, Utah, for conversion to Class II injection wells. The proceeding will be conducted in accordance with Utah Admin. R.649-10, Administrative Procedures.

The interval from 4730 feet to 4869 feet (Spring Canyon Sand of the Mesa Verde Group) will be selectively perforated for water disposal. The average injection pressure is estimated to be 1500 psig or less with a maximum requested injection pressure of 2000 psig. The estimated injection volume will be approximately 6500 barrels of water per day.

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

DATED this 17th day of February, 1993.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

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

Published in the Sun Advocate February 23, 1993.

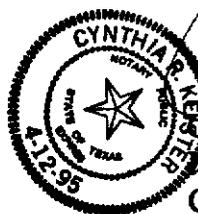
COPY

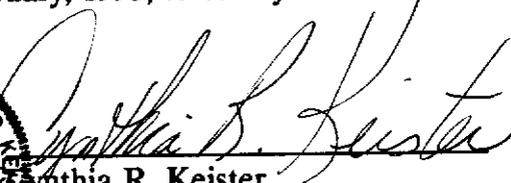
STATE OF TEXAS  
COUNTY OF DALLAS

Before me, the undersigned authority, on this day personally appeared Jim LaFevers, the Regulatory Affairs Supervisor for PG&E Resources Company, who being by me duly sworn, deposes and says that a copy of the UIC Form 1 for the Jensen #9-10 well was mailed to each of the people listed below on the following date, to wit: January 29, 1993.

  
\_\_\_\_\_  
Jim LaFevers  
Regulatory Affairs Supervisor  
PG&E Resources Company

Subscribed and sworn to before me this 5th day of February, 1993, to certify which witness my hand and seal of office.



  
\_\_\_\_\_  
Cynthia R. Keister  
Notary Public in and for Dallas  
County, Texas

**OFFSET OPERATORS:**

NONE

**SURFACE OWNERS:**

Melvin Vern & Mary C. Frandsen  
506 South 100 West  
American Fork, Utah 84003

Mona L. Marsing  
4300 East 8900 South  
Price, Utah 84501

John F. Marshall Trustee  
for Dean Carlyle Shimmin Trust  
1495 East 2050 North  
Provo, Utah 84604

James T., Jerry J. & Dix Jensen  
c/o Jensen Law Offices  
190 North Carbon Avenue  
Price, Utah 84501

State of Utah Land Easement No. 110  
Division of State Lands and Forestry  
3 Triad Center, Suite 320  
Salt Lake City, Utah 84180-1203

Jeff Hart  
Geologist

~~3834~~ (214) 750-3834

February 1, 1993

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

RECEIVED

FEB 02 1993

DIVISION OF  
OIL GAS & MINING

Attention: Mr. Gil Hunt,  
Manager

RE: Application for Water Disposal Wells  
Jensen and Shimmin Trust Leases  
Castlegate CBM Project  
Carbon County, Utah

Dear Mr. Hunt:

PG&E Resources Company respectfully requests approval to utilize the following wells for salt water disposal:

- Jensen #9-10,
- Jensen #16-10,
- Shimmin Trust #10-11,
- Shimmin Trust #11-11.

The enclosed applications have been prepared in accordance with R615-5-2 and are being submitted for your review and approval. If you have any questions or need additional information, please contact the undersigned at (214) 750-3988 or Michael Pierson at (214) 706-3641.

Sincerely,

*Jim LaFevers*

Jim LaFevers  
Supervisor,  
Regulatory Affairs

Enclosures

cc: W. Sutton/Central File  
M. Pierson  
Regulatory File

**PERMITS WEST**, INC.  
PROVIDING PERMITS for LAND USERS  
37 Verano Loop, Santa Fe, New Mexico 87505 (505) 466-8120

July 25, 2000

Lesha Cordova  
Ut. Div. of Oil, Gas, & Mining  
P. O. Box 145801  
Salt Lake City, Ut. 84114-5801  
& via FAX

JUN 28 2000

Dear Lesha,

As requested, and on behalf of J. M. Huber Corporation, I am applying for a spacing exception to Cause 220-2 for the Huber-Jensen 9-10.

Request exception because of geology (well is a reentry of a productive well which was P&A because of field wide uneconomic water disposal system) and terrain. Exception is to quarter section line (138' instead of  $\geq 460'$ ), not to a well. Orthodox location would move the well into a perennial stream valley.

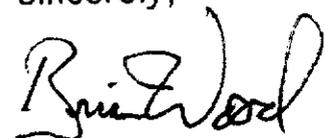
Orthodox well could be drilled at 2180 FS & 860 FE 10-12s-10e, but it would be in the valley bottom of the City of Price watershed. Request permission to drill at 2559' FSL & 909' FEL 10-12s-10e. Closest lease boundary is 138', but Huber is the lessee of the northeast quarter and will communitize it with this well. There are no producing wells within a half mile. Wells (see Page 9) could be drilled in 8 offsetting units. (Indeed, Huber has producing wells in the west half of Section 10). Huber is owner of all drilling units and leases within a minimum half mile radius of proposed exception. This includes all 8 directly or diagonally offsetting drilling units.

We have submitted the surface use agreement to the surface owners and will forward it once it is received

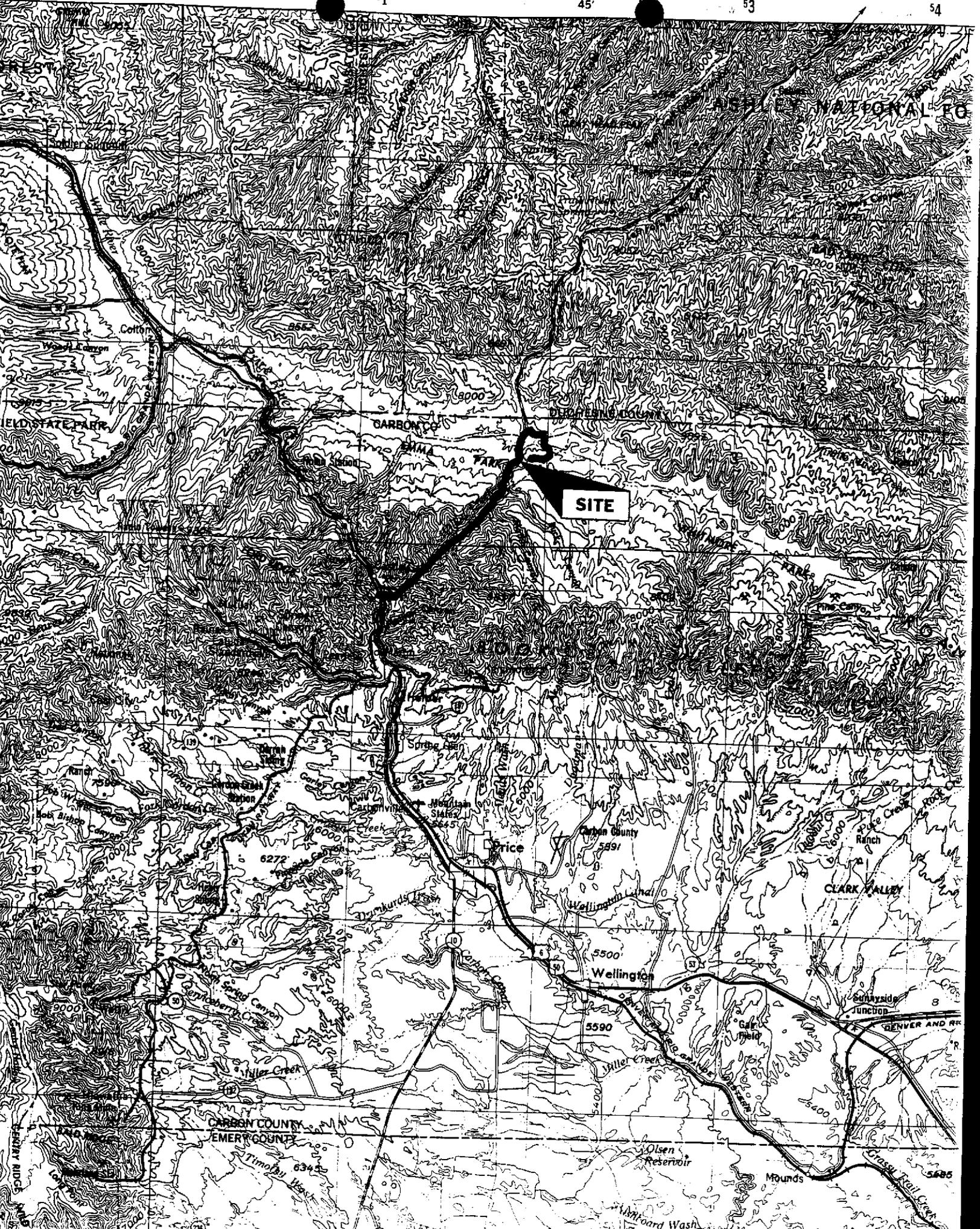
Can you mail or FAX (505 466 9682) a copy of Cause 220-2

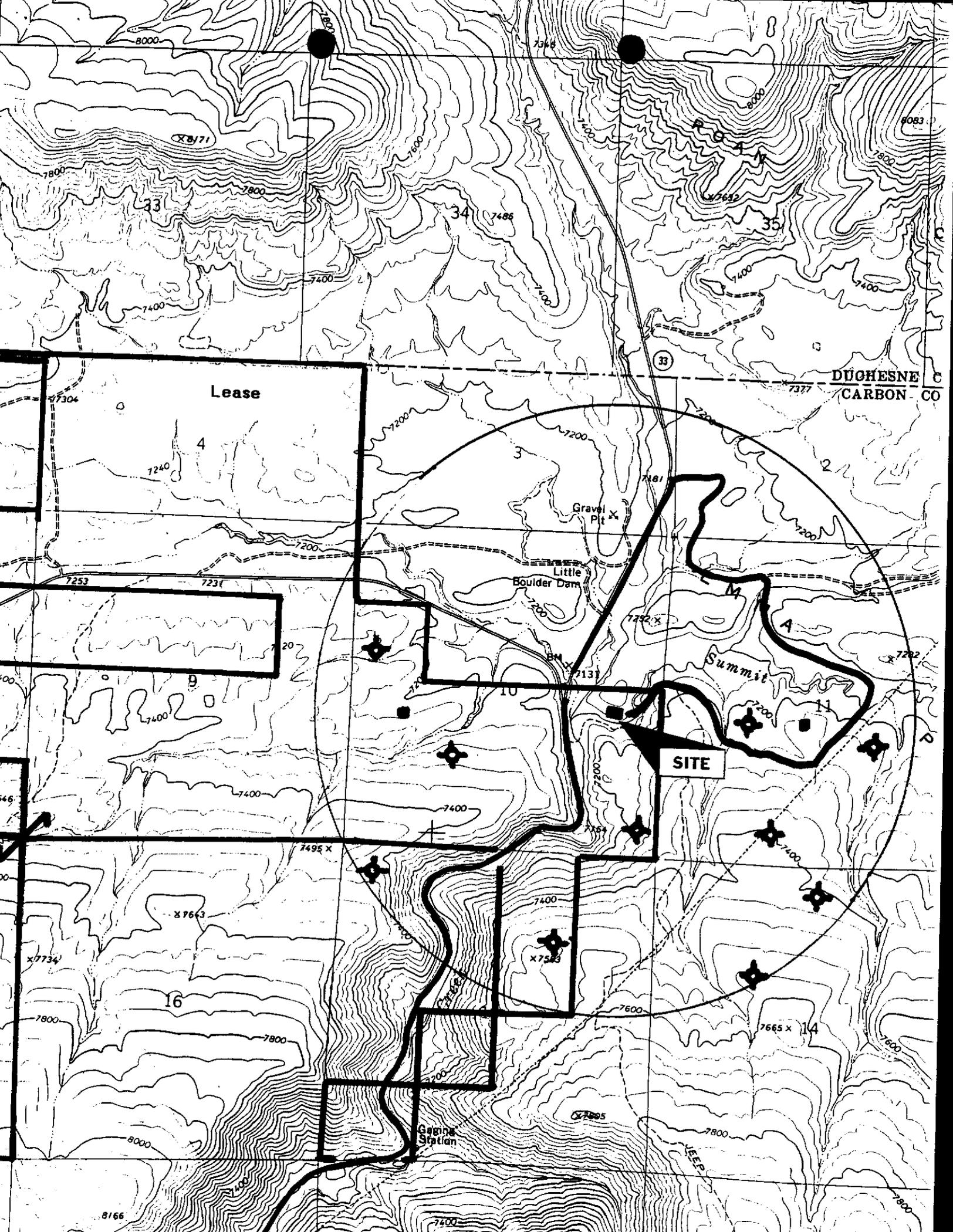
Please call me if you have any questions.

Sincerely,



Brian Wood





DUCHESNE  
CARBON CO

Lease

SITE

Gravel Pit

Little Boulder Dam

Summit

Gaging Station

(X) 7171

33

34

35

4

3

2

9

10

11

16

14

33

7495 X

7523 X

7665 X

8166

7400

7800

8000

7345

8000

8083

7800

7800

7600

7400

7622

7800

7400

7400

7400

7400

7400

7304

7240

7200

7200

7377

7253

7231

7200

7200

7200

7400

7400

7400

7200

7202

7734

7400

7400

7131

7100

7663

7400

7400

7100

7800

7800

7800

7600

7600

8000

7200

7200

7800

7800

LEEP

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number

**SUNDRY NOTICES AND REPORTS ON WELLS**

6. Indian, Allottee or Tribe Name:

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

7. Unit Agreement Name:

1. Type of Well: OIL  GAS  OTHER: METHANE

8. Well Name and Number:

Jensen 9-10

2. Name of Operator

Anadarko Petroleum Corporation

9. API Well Number:

43-007-30159

3. Address and Telephone Number.

17001 Northchase Dr., Houston, Texas 77060

10. Field and Pool, or Wildcat

Castlegate Field

4. Location of Well

Footages: 2559' FSL & 909 FEL

County: Carbon

QQ, Sec. T., R., M.: NE NE Sec. 10-T12S-R10E

State: Utah

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

NOTICE OF INTENT  
(Submit in Duplicate)

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

SUBSEQUENT REPORT  
(Submit Original Form Only)

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Abandon*       | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Repair Casing             | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans           | <input type="checkbox"/> Reperforate          |
| <input type="checkbox"/> Convert to Injection      | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Water Shut-Off       |
| <input type="checkbox"/> Other _____               |   |

Approximate date work will start \_\_\_\_\_

Date of work completion 06/26/98

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

\* Must be accompanied by a cement verification report.

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

SEE ATTACHED WELLBORE DIAGRAM AND DETAILED FIELD REPORT.

UNABLE TO SET LOWER CEMENT PLUG AT 50' ABOVE TOP PERFORATION. PLUG WAS SET AS IN AGREEMENT WITH THE STATE OF UTAH, DIVISION OF OIL AND GAS PERMISSION.

13. Shad Frazier

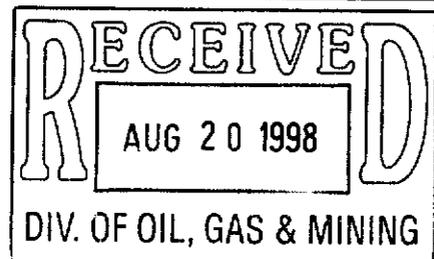
Name & Signature Shad Frazier

Title Engineer

Date 08/12/98

(This space for State use only)

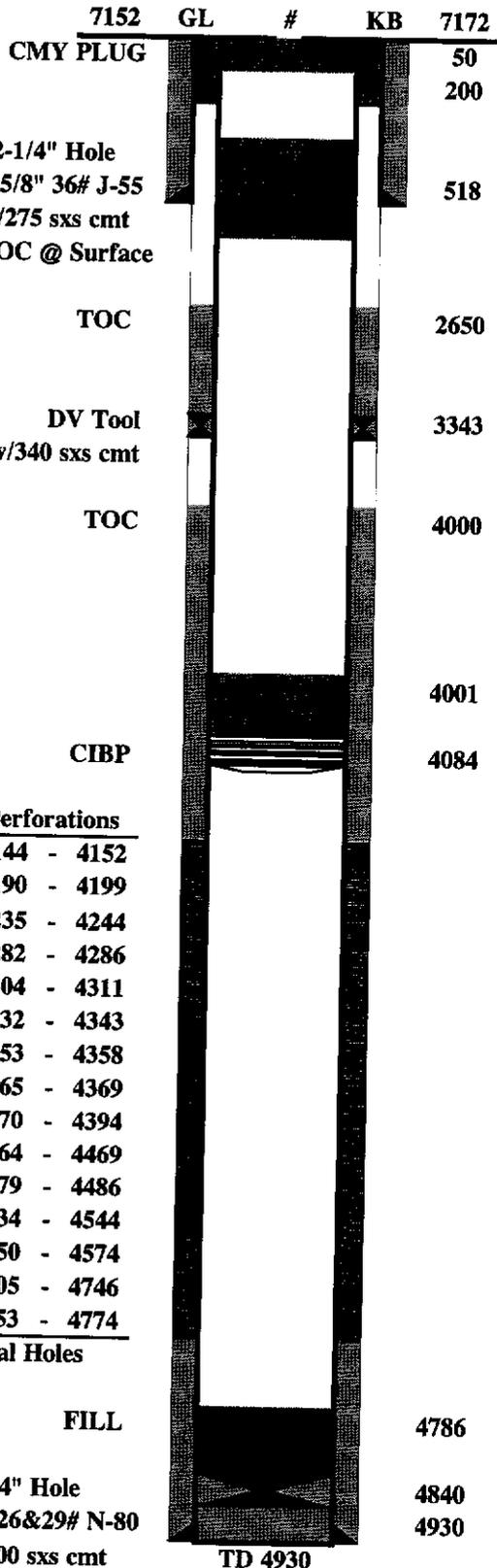
(See Instructions on Reverse Side)



# JENSEN #9-10

NE NE 2559' FSL & 909' FEL: SEC 10 T12S-R10E  
API NO. 43-007-30159

SPUD RIG OFF  
SURFACE 08/10/1992 08/13/1992  
PRODUCTION 08/15/1992 08/28/1992



## WELL WORK HISTORY

06/03/1993 F/4332-4544 w/69M GAL XL CMHEC, 36M# 100 MESH, 108M# 16/30. NO RESIN COAT  
06/06/1993 F/4144-4244 w/71M GAL XL CMHEC, 41M# 100 MESH, 103M# 16/30. PERFS 4282-86&4304-4311 WERE COVERED BY SD PLG @ 4263.  
06/20/1993 COMPLT AS DUAL 2-1/16" SPRING CNYN INJ & 2-7/8" BLKHAWK PRODUCER  
12/17/1993 RAN TRACER TEST. CONCLUDED SC COMM w/ BLACKHAWK FIELD-WIDE.  
10/20/1994 CNVRT TO SINGLE PROD w/ ZONES OPEN. RUN KUDU 240 PMP, TFF 4647 & CO 4840  
11/27/1994 ROTOR BROKE. TFF @ 4814, EOT 4752  
12/07/1994 PMP LOCKED, RUN BMW 175-6000, TFF 4814  
12/31/1994 STATOR SANDED, TFF @ 4785, EOT 4734  
02/08/1995 STATOR SANDED, TFF @ 4750 & CO TO 4810  
02/28/1995 PMP LOCKED, STATOR COLLAPSED, RUN BMW 100 PMP, TFF @ 4796  
03/30/1995 STATOR SANDED, HYDROFIX TRTMT, TFF 4727 & CO TO 4796, PERF ABER & KENIL  
10/28/1995 HOLE IN TBG

## NOTES:

### TUBING BREAKDOWN

2-7/8"	147 JTS
TA	4684
2-7/8"	JTS
3-1/2"	1 JTS
SN	
TAG BAR	4683
2-7/8"	JTS
NC	4688
EOT	4690

### ROD BREAKDOWN

PONIES	
1"	4625'
7/8"	
3/4"	
1"	
1.5"	
PUMP	PC
BMW 100-6000	

DEVIATION ANGLE	FORMATION	TOP
570 3	PRICE RIVER	2904
1150 3	CASTLEGATE	3354
1650 2.8	BLACKHAWK	3658
2143 3.5	KENILWORTH	4368
2610 3.5	ABERDEEN	4559
3035 4.8	SPRING CANYON	4704
3545 4.5		
4290 6		
4900 7		

LAST REVISED: 07/21/1998

CUSTOMER: Anadarko Pet.  
 WELL NO: # 9-10  
 LEASE: TRUSSN  
 JOB TYPE: P&A

TIME	DEPTH	WELL NO.	LEAS	JOB TYPE	REMARKS	
12:10					ON loc, Rig up	
12:30					Safety Meeting	
12:50					R.T.H.	
13:13			1703	1450	25T ✓ @ 2400'	
13:40			3900	3600	120 - 2	
13:47	1.0	3		800	2	Start C.M.T. Down C.T.
13:50	1.0	132		4300	2	Start Posi. Down C.T.
15:04			1800	2800	0	Have Returns
16:02	1.0	2	400	2700	2	Start C.M.T. Down C.T.
16:04	1.0	17	200	3700	0	Start pos. Down C.T.
16:22	1.0	2	-80	2900	2	Start C.M.T. Down C.T.
16:24	.5	5	-100	870	2	Start Displacement Down C.T.
16:37						C.M.T. to surface, Rig Down for the night

6-27-98

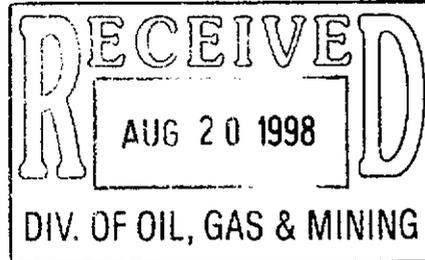
06:00					ON loc, Rig up Back side
06:20					Safety Meeting
07:30					Did not pump C.M.T. Down C.T. on Backside, C.M.T. crew pump C.M.T. Down Backside. Rig Down Move to new loc
					Thank You

Note: Pumped 200' of  
 C.M.T. w/ 500 Psi Soler in  
 95/9-7" Annulus



August 13, 1998

State of Utah  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84414-5801



Re: State Form 9  
Castlegate Field  
Carbon County, Utah

Gentlemen:

Please find enclosed, Sundry Notices and Reports on Wells (Form 9) outlining the plugging and abandoning procedures performed for the following wells:

SHIMMIN TRUST 1 fr SGW to PA	JENSEN 11-15 fr SGW to PA
SHIMMIN TRUST 2 " " " "	JENSEN 16-9 " " " "
SHIMMIN TRUST 3 " " " "	JENSEN 16-10 " " " "
SHIMMIN TRUST 4 " " " "	FEDERAL 4-13 fr SGW to PA
SHIMMIN TRUST 5 " " " "	FEDERAL 4-15 " " " "
SHIMMIN TRUST 10-11 fr WDW to PA	FEDERAL 6-8 " " " "
SHIMMIN TRUST 11-11 fr SGW to PA	FEDERAL 7-9 " " " "
SHIMMIN TRUST 12-12 " " " "	FEDERAL 14-13 " " " "
SHIMMIN TRUST 14-12 " " " "	FEDERAL 14-14 " " " "
JENSEN 5-10 fr SGW to PA	FEDERAL 16-14 " " " "
JENSEN 7-15 " " " "	FEDERAL 16-15 " " " "
JENSEN 9-10 " " " "	STATE 2-16 fr SGW to PA
JENSEN 11-10 " " " "	STATE 9-16 " " " "

Should you have any questions or require additional information, please contact me at (281) 873-1276.

Best regards,

ANADARKO PETROLEUM CORPORATION

Gail A. Rupert  
Engineering Technician

Enclosures

cc: Bureau of Land Management  
Moab District Office  
P.O. Box 970  
Moab, Utah 84532

Bureau of Land Management  
Price River Resources Area  
900 North, 700 East  
Price, Utah 84501

GAR  
SMF  
TRC - Well File

**U. DIVISION OF OIL, GAS AND MINING  
INSPECTION RECORD**

Operator: PG+E Lease Number: Free  
 Well Name: Jensen 9-10 API Number: 43-007-30159  
 Sec: 10 Twp: 12S Rng: 10E County: Carbon Field: Willist  
 Well Status: P6W

GENERAL	Inspected (✓)
1. Well Identification	✓
2. Well Equipment	✓
3. Environmental Protection	✓
4. Temporary/Emergency Pits	✓
5. Spills, Discharges, Seepage	✓

Remarks: well sign correct and posted wellhead, electric powered progressive cavity pump. House with electric controls, amp recorder and transformer. No spills or leaks.

OIL PRODUCTION	Inspected (✓)
1. Method of Measurement: Tank Gauge <input type="checkbox"/> LACT Unit <input type="checkbox"/> Other <input type="checkbox"/>	✓
2. Storage Facilities	✓
3. Lines Leaving Storage Facilities Sealed/Locked	✓
4. Oil Handling/Treatment Equipment	✓

Remarks: No tanks or equipment

GAS PRODUCTION	Inspected (✓)
1. Type of Gas Production: Gas Well <input checked="" type="checkbox"/> Casinghead <input type="checkbox"/>	✓
2. Gas Disposition: Sold <input checked="" type="checkbox"/> Flared/Vented <input type="checkbox"/> Used on Lease <input checked="" type="checkbox"/> Other <input type="checkbox"/>	✓
3. Method of Measurement: Orifice Meter <input checked="" type="checkbox"/> Turbine Meter <input type="checkbox"/> Estimated <input type="checkbox"/> Other <input type="checkbox"/>	✓
4. Gas Handling/Treatment Equipment	✓

Remarks: Barton recorder with current chart recording gas sales. Heated separator in use but no fire in firebox

PRODUCED WATER DISPOSAL	Inspected (✓)
1. Disposal Method: Unlined Pit <input type="checkbox"/> Lined Pit <input type="checkbox"/> Subsurface <input type="checkbox"/> Other <input type="checkbox"/>	✓
2. If Disposal by Pits, Are Pits Satisfactory? Yes <input type="checkbox"/> No <input type="checkbox"/>	✓
3. Other E & P Waste Disposal	✓

Remarks: All disposal water is metered on location and pipelined to Central Processing Facility for injection.

Inspector: David W. Huchford Date: 7/21/91



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
RECORD OF ABANDONMENT OPERATIONS

COMPANY NAME: ANADARKO PETROLEUM CORP.

WELL NAME: JENSEN 9-10

QTR/QTR: NE/SE SECTION: 10 TOWNSHIP: 12S RANGE: 10E

COUNTY: CARBON API NO: 43-007-30159

INSPECTOR: DAVID HACKFORD TIME: VARIOUS DATE: 6/26/98

SURFACE CASING SHOE DEPTH 518' CASING PULLED YES  NO

CASING PULLED: SIZE  CUT DEPTH  FT/CSG RECOVERED

TESTED YES  NO  TESTED TO:  PSI TIME:

CEMENTING COMPANY: HALLIBURTON

CEMENTING OPERATIONS: P&A WELL:

PLUG 1. SET: FROM 4084' FT. TO 4001' FT. TAGGED YES  NO   
SLURRY: PREMIUM PLUS, 1.18 YIELD, 15.6 PPG. 14 SACKS

PLUG 2. SET FROM 543' FT. TO 493' FT. TAGGED YES  NO   
SLURRY: 10 SACKS, SAME AS ABOVE

PLUG 3. SET FROM FT. TO FT. TAGGED YES  NO   
SLURRY:

PLUG 4. SET FROM FT. TO FT. TAGGED YES  NO   
SLURRY:

SURFACE PLUG: FROM 50' FT. TO SURFACE FT.

ALL ANNULUS CEMENTED TO SURFACE: YES  NO

PLUGGING FLUID TYPE: 9.0 POUNDS PER GALLON POZ MIX

PERFORATIONS: ALL BELOW 4084 FT. TO  FT.  
FROM  FT. TO  FT.

# 1 CIBP SET: 4084'

# 2 CIBP SET:

ABANDONMENT MARKER: PLATE:  PIPE:  CORRECT INFORMATION:

COMMENTS: ALL CEMENT PLUGS WERE PUMPED AND SET THROUGH HALLIBURTON ENDLESS TUBING.



REGION North America	NWA/COUNTRY RMNWA	BDA / STATE Utah	COUNTY Cachoe
MBUID / EMP # 020108 C1986	EMPLOYEE NAME CARL W PARRACK	PSL DEPARTMENT 5001	
LOCATION 055685	COMPANY ANADARKO	CUSTOMER REP / PHONE Richard Dietz	
TICKET AMOUNT	WELL TYPE 02	API MWL # 93-007-30159	
WELL LOCATION Castle Gate	DEPARTMENT 5001	JOB PURPOSE CODE 115	
LEASE / WELL # TENSEN 9-10	SEC / TWP / RNG S-10 T-10 R-10E		

RES EMP NAME / EMP # / (EXPOSURE HOURS) / HRS	RES EMP NAME / EMP # / (EXPOSURE HOURS) / HRS	RES EMP NAME / EMP # / (EXPOSURE HOURS) / HRS	RES EMP NAME / EMP # / (EXPOSURE HOURS) / HRS
C PARRACK C1986 8			
M. Harty H7051 8	Aliegh 33410 8		

				JOB DESCRIPTION / REMARKS
6-26				on location
	12:30			Safety with all personal on loc, set up
	12:35			Carl start in hole
	12:50			
	19:37	1	1000	Start Fresh
	19:47		1200	End
	19:48	1	250	Start cement @ 15.6" 1.18 ft <sup>3</sup> 5.2 gals 14 SKS
	19:51			End
	19:51	1	2400	Start Poz @ 9" 7.7 ft <sup>3</sup> 54 gals 97 SK
	19:54		2930	Circulation
	19:03	1	2800	Start End
	19:03	1	2800	Start cement @ 15.6" 1.18 ft <sup>3</sup> 5.2 gal 95 SK
				End
	19:05	1	3400	Start Poz @ 9" 7.7 ft <sup>3</sup> 54 gals 13 SKS
				End
	19:22	1	3200	Start cement @ 15.6" 1.18 ft <sup>3</sup> 5.2 gals 50' 9 SK
				End
	19:24	.5	910	Start Displace @ H <sub>2</sub> O
	19:34		700	END cement to surface
				Shutdown Back 6-27 To pump 7' 1978
6-27				on location safety with all personal on loc
	11:58	1	700	Hook up to 9 1/2 gal injection rate
	12:03	1	700	Rate 18
	8:05		350	Start cement @ 15" 1.18 ft <sup>3</sup> 5.2 gals 30 SK
	8:14		550	End shot value 200 plus
				Release

Thank you  
Carl  
Carr

TICKET #	31980	TICKET DATE	6-24-98
BDA / STATE	UTAH	COUNTY	Cannonville
PSL DEPARTMENT	5001		
CUSTOMER REP / PHONE	Richard Dietz		
WELL #	43-007-30161		
JOB PURPOSE CODE	115		

REGION	North America	NW/COUNTRY	RMNWA
WELL ID / EMP #	W50108 C1986	EMPLOYEE NAME	Carl W Parrack
LOCATION	055685	COMPANY	ANADARKO
TICKET AMOUNT		WELL TYPE	02
WELL LOCATION	Castle Gate	DEPARTMENT	5001
LEASE / WELL #	Wensen 9-10	SEC / TWP / RNG	S-10 T-12S R-10E

EMP NAME / EMP # / EXPOSURE HOURS / HRS	EMP NAME / EMP # / EXPOSURE HOURS / HRS	EMP NAME / EMP # / EXPOSURE HOURS / HRS	EMP NAME / EMP # / EXPOSURE HOURS / HRS
Parrack C1986 25	Aliogh J3410 25		
Harry H9051 25			

TIME	START	END	DEPTH	DESCRIPTION
7:00				Call out on location safety setup
7:15				Safety with all on location
7:30				Coil start in Hole
8:16	1	0	500	Start Fresh
8:24	1	8	450	End
8:38	1	0	850	Start cement @ 15.6" 1.18 ft <sup>3</sup> 5.2 gal
8:36	1	3	2500	End
8:36	1	0	2500	Start Poz @ 9" 7.7 ft <sup>3</sup> 54 gal
9:48	1	22		circulation
10:38	1	122	3100	End
10:38	1	0	3100	Start cement @ 15.6" 1.18 ft <sup>3</sup> 5.2 gal
10:40	1	2		End
10:40	1	0	3960	Start Poz @ 9" 7.7 ft <sup>3</sup> 54 gal
10:52	1	19		End
10:52	1	0	2600	Start cement @ 15.6" 1.18 ft <sup>3</sup> 5.2 gal
10:59	1	2		End
10:59	.5	0	1000	Start Displacement with
11:09	.5	5	700	End cement to surface
				wait on welder.
				Coil Run in Hole 100' between 955' & 1055'
				Hole Full
11:18	.5	0	1200	Start cement @ 15.6" 1.18 ft <sup>3</sup> 5.2 gal
11:21	.5	3	1250	End
11:24	.5	0	1250	Start Displace with H <sub>2</sub> O
11:34	.5	5	650	End cement to surface
				welder welds place on

Thanks  
 Carl  
 Crew

05/31/95                    D E T A I L   W E L L   D A T A                    menu: opt 00  
 api num:    4300730159            prod zone: MVDCL            sec    twnshp    range    qr-qr  
 entity:     11404 : JENSEN 9-10    10    12.0 S    10.0 E    NESE  
 well name: JENSEN 9-10  
 operator:   N0035 : ANADARKO PETROLEUM CORP                                meridian: S  
 field:      13        : CASTLEGATE  
 confidential flag:            confidential expires:                                alt addr flag:  
                   \* \* \* application to drill, deepen, or plug back \* \* \*  
 lease number:    FEE    lease type: 4                                well type:        GW  
 surface loc:    2559 FSL 0909 FEL                                unit name:  
 prod zone loc: 2559 FSL 0909 FEL                                depth:            5000            proposed zone: MVDCL  
 elevation:      7172' KB    apd date:        920806            auth code:    R649-3-3  
 \* \* completion information \* \*    date recd:       930818            la/pa date:  
 spud date:      920809    compl date:      930715            total depth: 4930'  
 producing intervals: 4144-544'  
 bottom hole:    2559 FSL 0909 FEL                                first prod: 930715            well status:    PGW  
 24hr oil:        24hr gas:    24hr water: 356            gas/oil ratio:  
                   \* \* well comments:    direction1:                                api gravity:  
                   920910 ENTY ADDED:(DUAL COMPL SEE ALSO SWD):940510 FLD CHG FR 001:940815 OPER  
                   FR N0595 EFF 8/1/94:CONF STAT EXP 8/15/94:

opt: 21 api: 4300730159 zone:                    date(yymm):                    enty                    acct:

05/31/95                    D E T A I L   W E L L   D A T A                    menu: opt 00  
 api num:    4300730159            prod zone: MVRD            sec    twnshp    range    qr-qr  
 entity:     11404 : JENSEN 9-10    10    12.0 S    10.0 E    NESE  
 well name: JENSEN 9-10  
 operator:   N0035 : ANADARKO PETROLEUM CORP                                meridian: S  
 field:      13        : CASTLEGATE  
 confidential flag:            confidential expires:                                alt addr flag:  
                   \* \* \* application to drill, deepen, or plug back \* \* \*  
 lease number:    FEE    lease type: 4                                well type:        OT  
 surface loc:    2559 FSL 0909 FEL                                unit name:  
 prod zone loc: 2559 FSL 0909 FEL                                depth:            5000            proposed zone: MVDCL  
 elevation:      7172' KB    apd date:        920806            auth code:    R649-3-3  
 \* \* completion information \* \*    date recd:       930818            la/pa date:  
 spud date:      920809    compl date:      930715            total depth: 4930'  
 producing intervals: 4705-74'  
 bottom hole:    2559 FSL 0909 FEL                                first prod:                                well status:    WDW  
 24hr oil:        24hr gas:    24hr water:                                gas/oil ratio:  
                   \* \* well comments:    direction1:                                api gravity:  
                   1ST INJ 10/21/93:DUAL COMPL SEE ALSO GAS WELL:(INJ/SPRING CANYON):940510 FLD  
                   CHG FR 001:940815 OPER FR N0595 EFF 8/1/94:CONF STAT EXP 8/15/94:

opt: 21 api: 4300730159 zone:                    date(yymm):                    enty                    acct:

**PERMITS WEST**, INC.  
PROVIDING PERMITS for LAND USERS  
37 Verano Loop, Santa Fe, New Mexico 87505 (505) 466-8120

July 25, 2000

Lesha Cordova  
Ut. Div. of Oil, Gas, & Mining  
P. O. Box 145801  
Salt Lake City, Ut. 84114-5801  
& via FAX

JUN 28 2000

Dear Lesha,

As requested, and on behalf of J. M. Huber Corporation, I am applying for a spacing exception to Cause 220-2 for the Huber-Jensen 9-10.

Request exception because of geology (well is a reentry of a productive well which was P&A because of field wide uneconomic water disposal system) and terrain. Exception is to quarter section line (138' instead of  $\geq 460'$ ), not to a well. Orthodox location would move the well into a perennial stream valley.

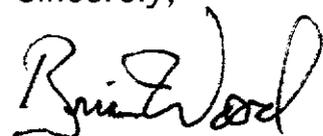
Orthodox well could be drilled at 2180 FS & 860 FE 10-12s-10e, but it would be in the valley bottom of the City of Price watershed. Request permission to drill at 2559' FSL & 909' FEL 10-12s-10e. Closest lease boundary is 138', but Huber is the lessee of the northeast quarter and will communitize it with this well. There are no producing wells within a half mile. Wells (see Page 9) could be drilled in 8 offsetting units. (Indeed, Huber has producing wells in the west half of Section 10). Huber is owner of all drilling units and leases within a minimum half mile radius of proposed exception. This includes all 8 directly or diagonally offsetting drilling units.

We have submitted the surface use agreement to the surface owners and will forward it once it is received

Can you mail or FAX (505 466 9682) a copy of Cause 220-2

Please call me if you have any questions.

Sincerely,



Brian Wood

**DIVISION OF OIL, GAS AND MINING**  
APPLICATION FOR PERMIT TO DRILL  
STATEMENT OF BASIS

Operator Name: J. M. Huber  
Name & Number: Huber-Jensen #9-10  
API Number: 43-007-30159  
Location: 1/4,1/4 NE SE Sec. 10 T. 12 S R. 10 E County: Carbon

**Geology/Ground Water:**

The setting depth of the surface casing is 500' 9 5/8 36#, cemented back to surface with 275 sx of premium class G cement. There are 81 points of diversion within 1 mile of this location, which were developed by several parties, with priority dates back to 1860, some of these are municipal and some are wells several of these may be completed in the Blackhawk coal the intended production zone in this well. A search made of the records at water rights showed that no water from active water wells is being produced from below 385', and that the current 500' of surface casing will cover these zones. The several springs and diversions along Willow Creek may not active, but will be protected by the surface casing and the cement at the bottom of the long string. Produced water will be disposed of at an approved disposal facility.

Reviewer: K. Michael Hebertson Date: 28/June/2000

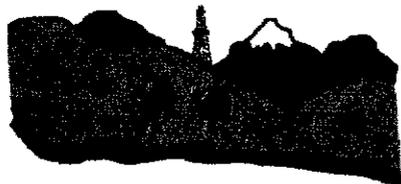
**Surface:**

The surface owner was invited and attended the pre site for this location. However he is not happy with several of the arrangements of the current surface owners agreement and has proposed changes that seem to be going nowhere. He is happy with the operators proposal to reopen the well. The surface owner is aware of the winter range and habitat concerns expressed by DWR and the active Sage Grouse strutting area that has been identified by DWR. He was not sympathetic to their request but expressed and interested in holding up some drilling work for the winter drilling season.

Reviewer: K. Michael Hebertson Date: 28/June /2000

**Conditions of Approval/Application for Permit to Drill:**

1. There are no new stipulations for this site, the location is stable and beginning to re-vegetate.



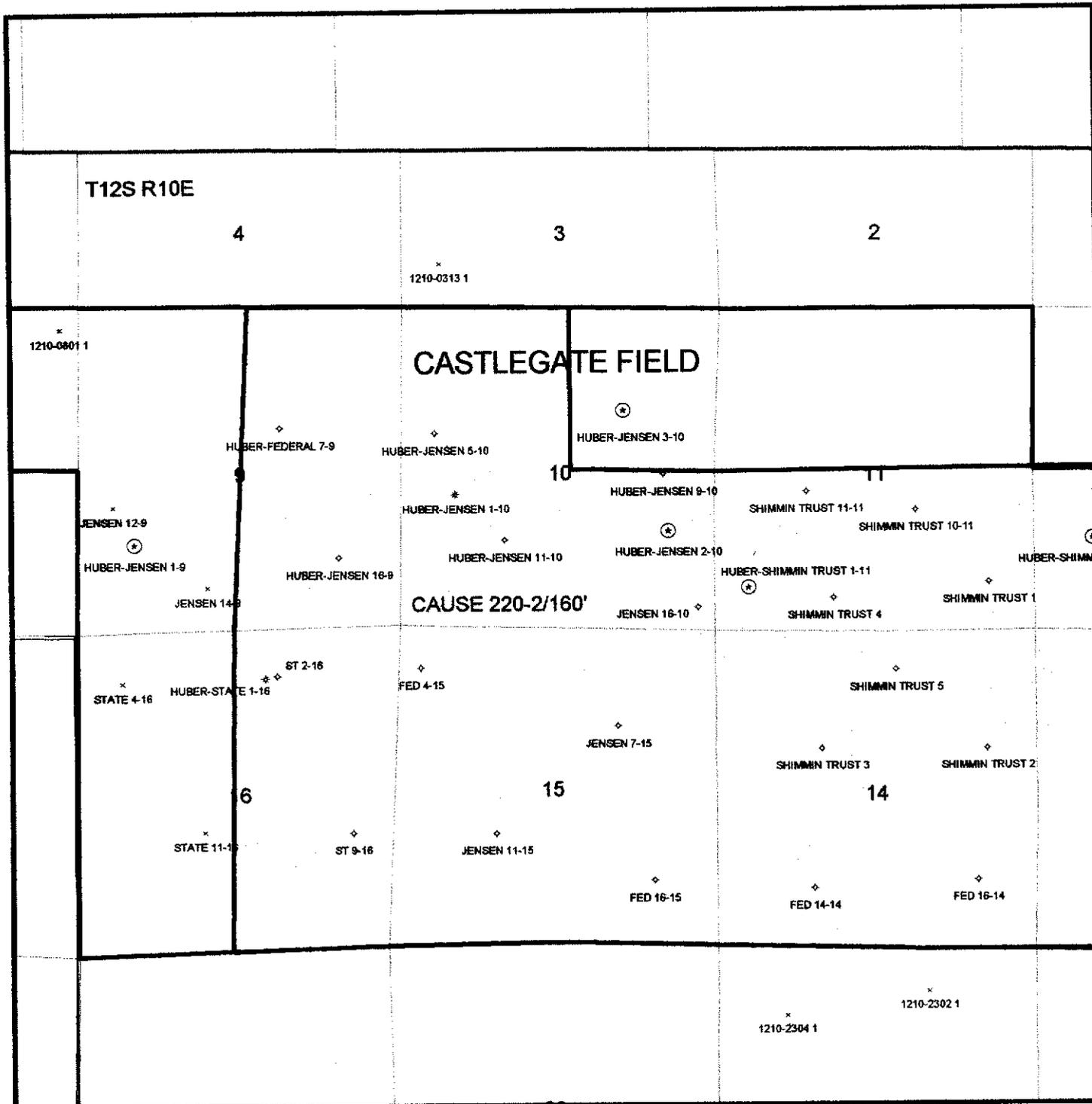
Utah Oil Gas and Mining

OPERATOR: JM HUBER CORP (N2380)

FIELD: CASTLEGATE (013)

SEC. 10, T12S, R10E,

COUNTY: CARBON CAUSE: 220-2 / 160'



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1A. Type of Work: DRILL  DEEPEN   
B. Type of Well: OIL  GAS  OTHER: SINGLE ZONE  MULTIPLE ZONE

2. Name of Operator: J. M. HUBER CORPORATION (303) 825-7900

3. Address and Telephone Number: 1050 17TH ST., SUITE 1850, DENVER, CO. 80265

4. Location of Well (Footages):  
At Surface: 2559' FSL & 909' FEL  
At Proposed Producing Zone: SAME

4405158N  
E1277AE

14. Distance in miles and direction from nearest town or post office: 9 AIR MILES NE OF HELPER

15. Distance to nearest property or lease line (feet): 138'

16. Number of acres in lease: 2,552.91

17. Number of acres assigned to this well: 160

18. Distance to nearest well, drilling, completed, or applied for, on this lease (feet): 2855'

19. Proposed Depth: 4,930'

20. Rotary or cable tools: ROTARY

21. Elevations (show whether DF, RT, GR, etc.): 7,161' UNGRADED

22. Approximate date work will start: JULY 1, 2000

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8" J-55	36#	500'	275 sy Class G
8-3/4"	7" N-80	26# & 29#	4,930'	740 sy (DV @ 3,343')

DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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.

Will re-enter P&A well (API # 43-007-30159), drill out plugs, and perforate with 4 shots per foot. If productive, will communitize.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 7/3/00  
By: [Signature]

24. Name & Signature: [Signature] (505) 466-8120 Title: CONSULTANT Date: 6-6-00

(This space for State use only)  
API Number Assigned: 43-007-30159 Approval: cc: Huber: Denver & Durango

JUN 13 2000  
DIVISION OF  
OIL, GAS AND MINING

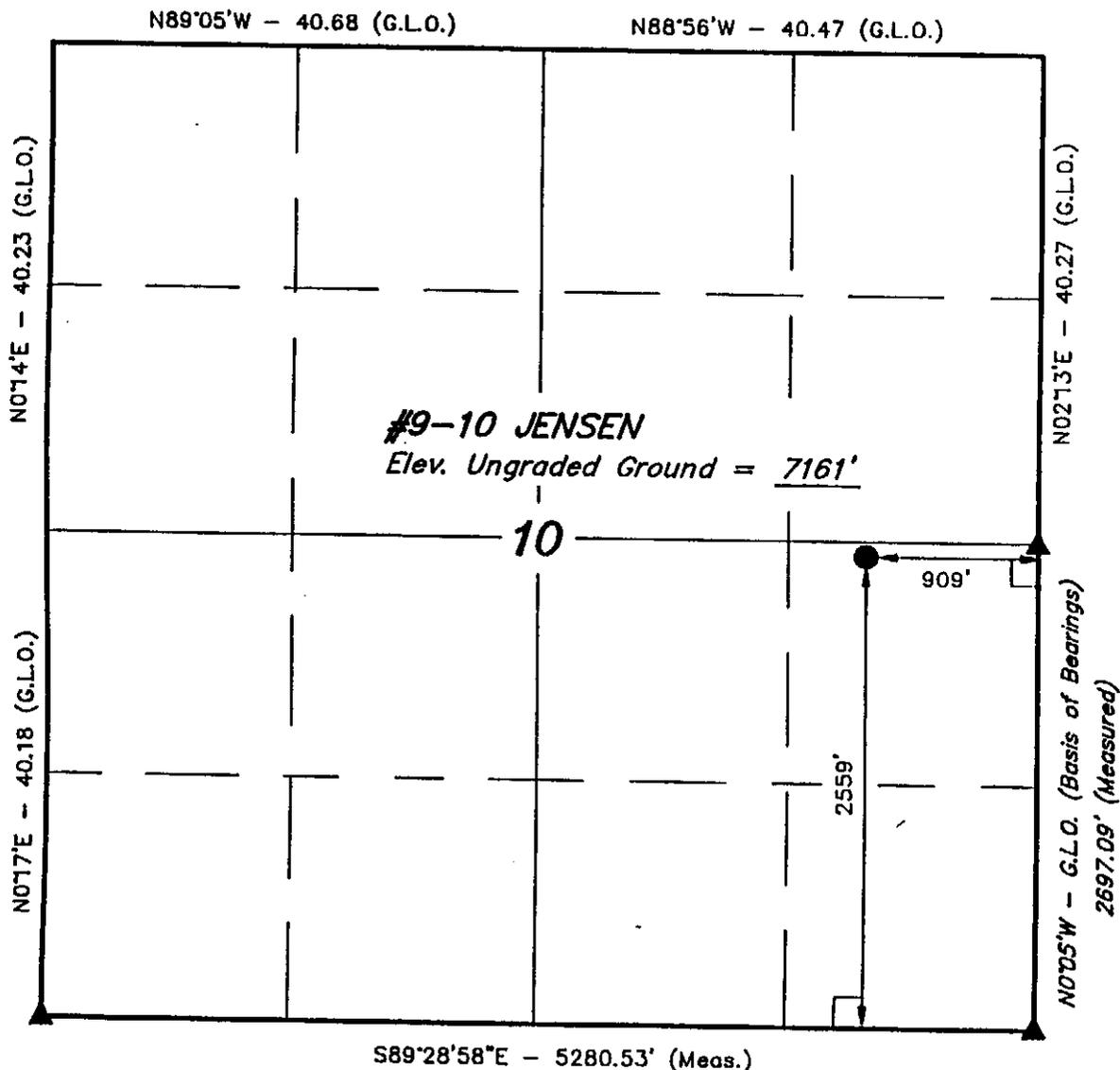
**PG&E RESOURCES COMPANY**

Well location, #9-10 JENSEN, located as shown in the NE 1/4 SE 1/4 of Section 10, T12S, R10E, S.L.B.&M. Carbon County, Utah.

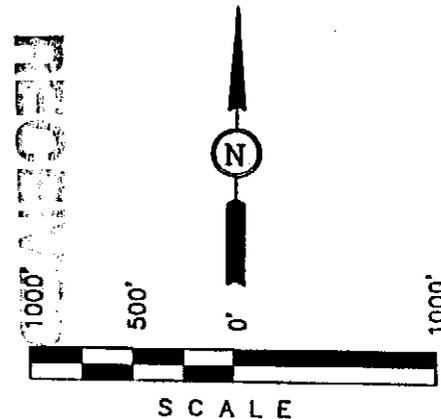
**T12S, R10E, S.L.B.&M.**

**BASIS OF ELEVATION**

BENCH MARK 265 (1934) LOCATED IN THE NE 1/4 OF SECTION 10, T12S, R10E, S.L.B.&M. TAKEN FROM THE MATTS SUMMIT QUADRANGLE, UTAH, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 7131 FEET.



DIVISION OF  
 LAND AND MINES  
 JUN 13 2003



**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.

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

**LEGEND:**

- └ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED. (1923 Brass Caps)

**UINTAH ENGINEERING & LAND SURVEYING**

85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 7-16-92	DATE DRAWN: 7-18-92
PARTY D.A. K.K. J.L.G.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE	



J. M. Huber Corporation  
Huber-Jensen 9-10  
2559' FSL & 909' FEL  
Sec. 10, T. 12 S., R. 10 E.  
Carbon County, Utah

PAGE 1

### Drilling Program

<u>1. Formation Name</u>	<u>Depth from GL</u>	<u>Depth from KB</u>	<u>Subsea Depth</u>
Flagstaff Ls	0'	12'	+7,152'
North Horn Fm	300'	312'	+6,852'
Price River Ss	2,904'	2,916'	+4,248'
Castlegate Ss	3,354'	3,366'	+3,798'
Blackhawk Coal	3,658'	3,670'	+3,494'
Kenilworth Ss & Coal	4,368'	4,380'	+2,784'
Aberdeen Ss	4,559'	4,571'	+2,593'
Spring Canyon Ss	4,704'	4,716'	+2,448'
Total Depth	4,930'	4,942'	+2,222'

(All depths are based on a graded ground level of 7,152')

### 2. NOTABLE ZONES

Blackhawk, Kenilworth, and Castlegate coals are the goals. No other oil or gas zones are expected. Flagstaff, North Horn, and coal zones are anticipated water zones.

### 3. PRESSURE CONTROL (Also see "5." on PAGE 2)

A ≈10" x 2,000 psi double ram BOP with 2,000 psi choke manifold will be used from bottom of surface casing to TD. (A typical 2,000 psi BOP is on Page 4. Actual model will not be known until the bid is let.) BOP system will be tested to 70% of the minimum internal yield before drilling the surface casing shoe. System will be tested at least once every 30 days. Tests will be recorded in the driller's log. BOPs will be inspected and operated daily to assure good mechanical working order.

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CIVIL, ENVIRONMENTAL & LAND

**PERMITS WEST** .INC.  
PROVIDING PERMITS for LAND USERS

J. M. Huber Corporation  
Huber-Jensen 9-10  
2559' FSL & 909' FEL  
Sec. 10, T. 12 S., R. 10 E.  
Carbon County, Utah

PAGE 2

#### 4. CASING & CEMENTING

<u>Hole Size</u>	<u>O.D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Age</u>	<u>≈Setting Depth</u>
12-1/4"	9-5/8"	36	J-55	Existing	500'
8-3/4"	7"	26&29	N-80	Existing	4,930'

Surface casing was circulated to surface with ≈275 sx Class G cement. Long string was cemented with DV tool set at ≈3,343' and ≈400 sx 50-50 poz with additives + 290 sx Class G + 50 sx Class G.

#### 5. MISCELLANEOUS

Expect to spud July 1, 2000. It will take ≈1 week to drill out the plugs and recomplete the well. BHP: ≤1,970 psi. No abnormal temperature. No H<sub>2</sub>S.

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MAY 13 2000

JUN 13 2000

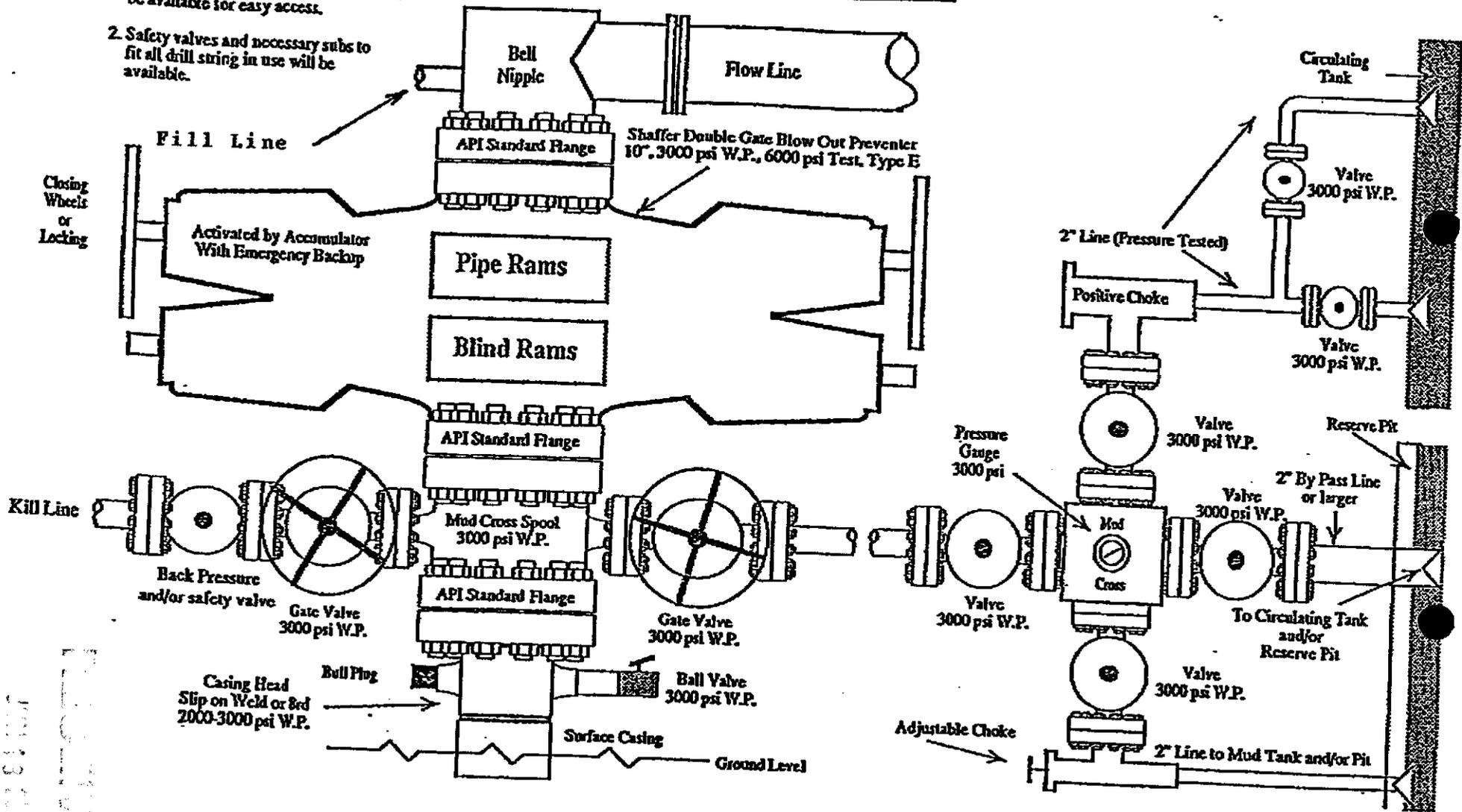
DIVISION OF  
OIL, GAS AND MINES

# Pressure Control Equipment

Note: 1. An upper Kelly cock valve will be utilized during drilling. Handle will be available for easy access.

2. Safety valves and necessary subs to fit all drill string in use will be available.

Minimum 2" Choke Line.  
Minimum 2" Kill Line.  
At Least One 2" Minimum Kill Line Valve.



Note: This equipment is designed to meet requirements for a 2-M rating standard per 43 CFR part 3160 (amended). Proper operation and testing of equipment will be carried out per standard. 2,000 psi equipment can be substituted in the drawing to meet minimum requirements per standard.

J. M. Huber Corporation  
Huber-Jensen 9-10  
2559' FSL & 909' FEL  
Sec. 10, T. 12 S., R. 10 E.  
Carbon County, Utah

PAGE 4

## Surface Use Plan

### 1. EXISTING ROADS & DIRECTIONS (See PAGES 8 & 9)

From the junction of US 6 and US 191 north of Helper, Utah ...  
Go NE 8.3 miles on US 191 to the equivalent of Milepost 165.75  
Then turn right and go SE 0.8 mi. on the Emma Park/Nine Mile Cutoff Road  
Then turn right and go SE 0.5 mi. on a field road  
Then turn right and go S 0.4 mi. on a field road  
Then turn right and go W 0.3 mi. on a field road  
Then turn right and go NW 0.4 on a field road to the pad

### 2. ROAD TO BE BUILT OR UPGRADED

Existing roads will be graded to remove ruts. No new road is needed.

### 3. EXISTING WELLS

There are 10 P&A wells, 1 gas well, and 1 water well within a mile radius.  
There are no existing oil, injection, or disposal wells within a mile.

### 4. PROPOSED PRODUCTION FACILITIES

Equipment may include a dehydrator-separator, meter run, and pump.  
Existing pipelines will be reconnected on the same pad.

### 5. WATER SUPPLY

Water will be trucked from Huber's central production facility in Section 11,

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JUN 19 2003

ENGINEER

BY [Signature]

J. M. Huber Corporation  
Huber-Jensen 9-10  
2559' FSL & 909' FEL  
Sec. 10, T. 12 S., R. 10 E.  
Carbon County, Utah

PAGE 5

Huber's reserve pits, or from town.

#### 6. CONSTRUCTION MATERIALS & METHODS

Topsoil will be stripped and stockpiled north of the pad. A diversion ditch will be cut north of the pad. A 325' long silt fence will be installed south of the pad. No reserve pit is needed (steel tanks will be used).

Gravel will be bought from the landowner or town.

#### 7. WASTE DISPOSAL

All trash will be placed in a trash cage. When full, it will be hauled to a state approved landfill. There will be no trash burning or disposal of trash in the reserve pit. Chemical toilets will be used for human waste. Their contents will be disposed of in state approved facilities.

Produced water will be piped to Huber's state approved evaporation pond in Section 15.

#### 8. ANCILLARY FACILITIES

There will be no airstrip or formal camp. Camper trailers will be on site for the company man, roughnecks, mud logger, tool pusher, etc.

#### 9. WELL SITE LAYOUT

See PAGES 10 & 11 for depictions of the well pad, cross sections, cut and fill diagrams, reserve pit, burn pit, access road onto the pad, parking, living facilities, and rig orientation.

RECEIVED

JUN 18 2010

ENGINEER  
C. J. ANDERSON

**PERMITS WEST** .INC.  
PROVIDING PERMITS for LAND USERS

J. M. Huber Corporation  
Huber-Jensen 9-10  
2559' FSL & 909' FEL  
Sec. 10, T. 12 S., R. 10 E.  
Carbon County, Utah

PAGE 6

## 10. RECLAMATION

After completing drilling, the well site and immediate area will be cleared of all debris and material not needed for production.

All areas not needed for production will be recontoured to match natural contours. Disturbed areas will be ripped and/or harrowed before seeding.

All reclaimed areas will be broadcast seeded in late fall or winter with seed mix specified by the surface owner. Owner's seed mix will include alfalfa, crested wheatgrass, Indian ricegrass, canby bluegrass, pubescent wheatgrass, Russian wild rye, slender wheatgrass, western wheatgrass, and yellow sweet clover. Seeded areas will be left rough and lightly harrowed or drug with a chain after seeding.

## 11. SURFACE OWNER

The well is on private land owned by the Jensen family. Contact is Jerry Jensen @ (435) 637-6242.

## 12. REPRESENTATION

Anyone having questions concerning the APD should contact:

Brian Wood  
Permits West, Inc.  
37 Verano Loop  
Santa Fe, NM 87505  
(505) 466-8120 FAX: (505) 466-9682 Mobile: (505) 699-2276

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**PERMITS WEST** .INC.  
PROVIDING PERMITS for LAND USERS

J. M. Huber Corporation  
Huber-Jensen 9-10  
2559' FSL & 909' FEL  
Sec. 10, T. 12 S., R. 10 E.  
Carbon County, Utah

PAGE 7

The field representative during drilling will be:

Tom Erwin Mobile: (970) 749-1398  
or Mike Williams Mobile: (970) 749-0855  
J. M. Huber Corporation  
3587 US Highway 160 East  
Durango, Co. 80301  
Office: (970) 247-7708      FAX: (970) 247-7745

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PROVIDING PERMITS for LAND USERS



50  
111°00'

51

52  
45'

53

OUCHESNE 15 MI.

54

**SITE**

CARBON CO.

CARBON CO.

NATIONAL FG

FIELD STATE PARK

Price

Wellington

CLARK VALLEY

CARBON COUNTY  
EMERY COUNTY

Olsen Reservoir

Mounds

GENEV AND RR

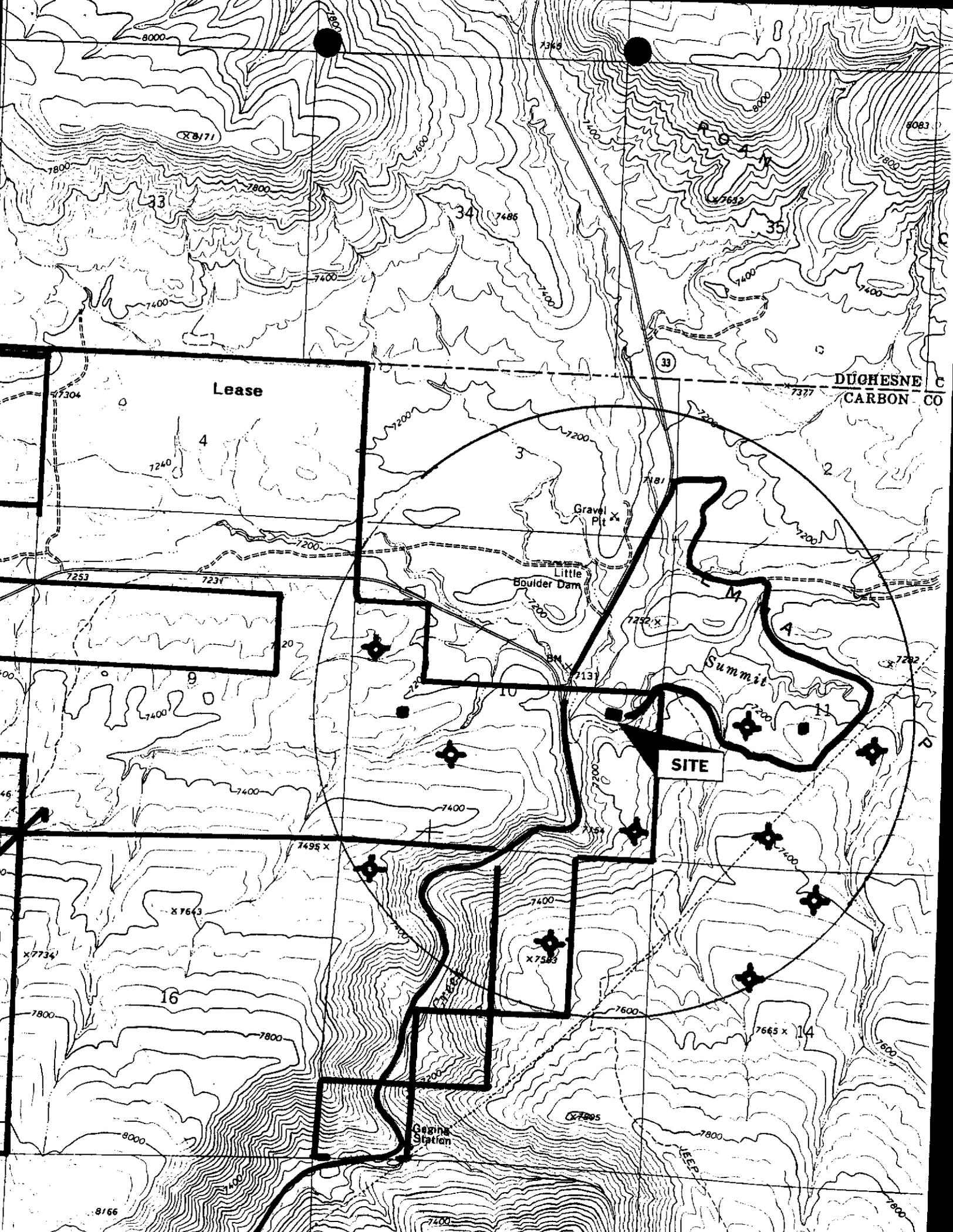
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SOOIR ARIZONA

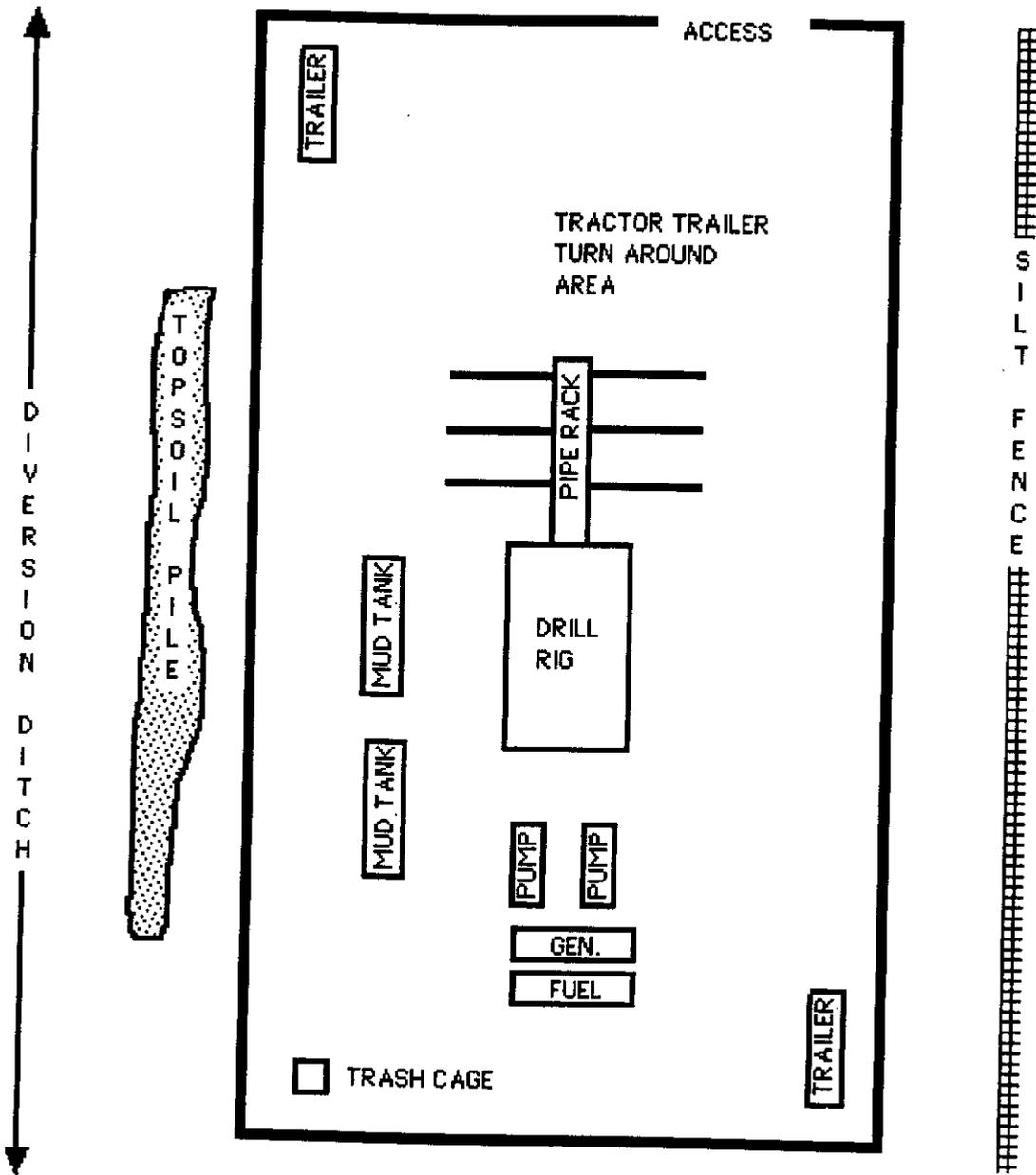
Timothy Wash

Washboard Wash

Grassy Tail Creek



J. M. Huber Corporation  
Huber-Jensen 9-10  
2559' FSL & 909' FEL  
Sec. 10, T. 12 S., R. 10 E.  
Carbon County, Utah

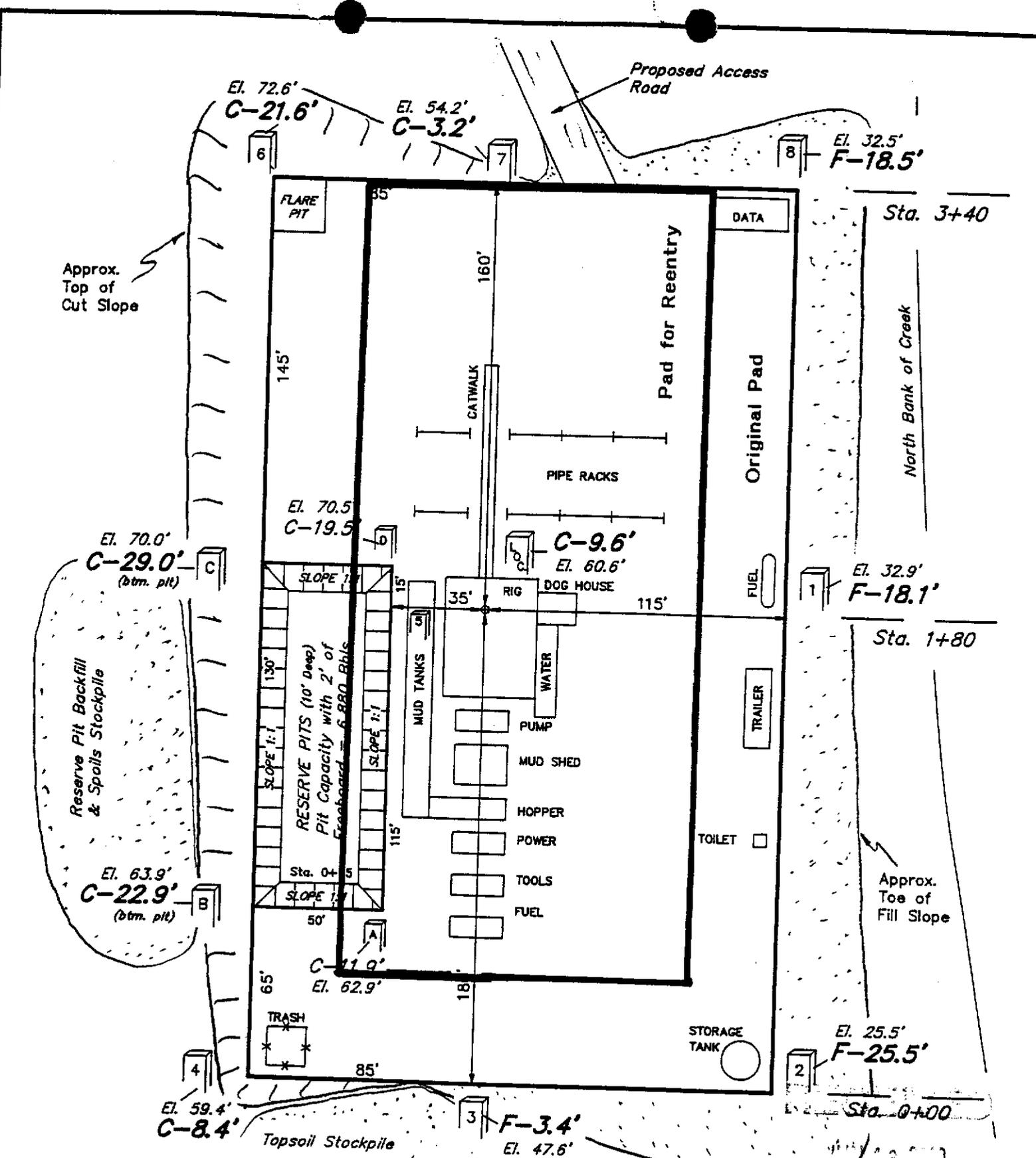


NORTH ← 1" = 50'

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DIVISION OF  
OIL, GAS AND MINING



**APPROXIMATE YARDAGES**

<b>CUT</b>	
(6") Topsoil Stripping	= 1,260 Cu. Yds.
Remaining Location	= 20,430 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 21,690 CU.YDS.</b>
<b>FILL</b>	<b>= 18,550 CU.YDS.</b>

<b>EXCESS MATERIAL AFTER 5% COMPACTION</b>	= 2,160 Cu. Yds.	<b>ELEV.</b>
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,150 Cu. Yds.	<b>ELEV.</b>
<b>EXCESS UNBALANCE (After Rehabilitation)</b>	= 10 Cu. Yds.	

**DIVISION OF CIVIL ENGINEERING**

13 200

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 06/13/2000

API NO. ASSIGNED: 43-007-30159

WELL NAME: HUBER-JENSEN 9-10  
 OPERATOR: J M HUBER CORPORATION ( N2380 )  
 CONTACT: BRIAN WOOD, AGENT

PHONE NUMBER: 505-466-8120

PROPOSED LOCATION:

NESE 10 120S 100E  
 SURFACE: 2559 FSL 0909 FEL  
 BOTTOM: 2559 FSL 0909 FEL  
 CARBON  
 CASTLEGATE ( 13 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	<i>RJK*</i>	7-6-00
Geology		
Surface		

LEASE TYPE: 4-Fee  
 LEASE NUMBER: FEE  
 SURFACE OWNER: 4-Fee

PROPOSED FORMATION: BLKHK

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[] Sta[] Fee  (No. 929103265)
- Potash (Y/N)
- Oil Shale (Y/N) \*190 - 5 (B)
- Water Permit (No. Produced Wtr.)
- RDCC Review (Y/N) (Date: \_\_\_\_\_)
- Fee Surf Agreement (Y/N)

LOCATION AND SITING:

- R649-2-3. Unit \_\_\_\_\_
- R649-3-2. General
- Siting: \_\_\_\_\_
- R649-3-3. Exception
- Drilling Unit *\*Exceptional Tract*
- Board Cause No: 220-2 (2/1607)
- Eff Date: 7-9-93
- Siting: *\*well siting not listed. 460' fr. Dr. Unit Boundary E. 920' between wells.*
- R649-3-11. Directional Drill

COMMENTS:

Need Presite. (Conducted 6-28-2000) statement of Basis Only.  
 \* Well already has 365 holes in 7" casing from 4144 to 4774. Previous design approved by FM. 8-6-92.

STIPULATIONS:

① STATEMENT OF BASIS



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

Michael O. Leavitt  
Governor  
Kathleen Clarke  
Executive Director  
Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5340  
801-359-3940 (Fax)  
801-538-7223 (TDD)

July 31, 2000

J. M. Huber Corporation  
1050 Seventeenth St, Suite 1850  
Denver, CO 80265

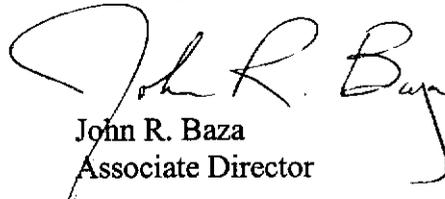
Re: Huber-Jensen 9-10 Well, 2559' FSL, 909' FEL, NE SE, Sec. 10, T. 12 South, R. 10 East, Carbon County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted. Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-007-30159.

Sincerely,



John R. Baza  
Associate Director

er

Enclosures

cc: Carbon County Assessor

Operator: J. M. Huber Corporation  
Well Name & Number Huber-Jensen 9-10  
API Number: 43-007-30159  
Lease: FEE

Location: NE SE Sec. 10 T. 12 South R. 10 East

### Conditions of Approval

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at (801) 538-5338
- Robert Krueger at (801) 538-5274 (plugging)
- Carol Daniels at (801) 538-5284 (spud)

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

#### 4. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

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

# RECEIVED

AUG 14 2000

DIVISION OF  
OIL, GAS AND MINING

August 11, 2000

IN REPLY REFER TO  
UT-931

J. M. Huber Corporation  
1050 17<sup>th</sup> Street, Suite 1850  
Denver, Colorado 80265

Gentlemen:

Enclosed is one approved copy of Communitization Agreement No. UTU78952. This agreement communitizes all rights as to natural gas and associated liquid hydrocarbons producible from the Blackhawk Coals Formation, covering the NW $\frac{1}{4}$  of Section 10, Township 12 South, Range 10 East, SLB&M, Carbon County, Utah. This agreement conforms with the spacing set forth in Order No. 241-1 which was issued by the State of Utah, Board of Oil, Gas and Mining on January 2, 1998.

This agreement is effective as of May 15, 2000. The communitized area covers 160.00 acres and includes portions of Federal Oil and Gas Lease UTU65948.

Approval of this agreement does not warrant or certify that the operator thereof and other holders of operating rights hold legal or equitable title to those rights in the subject leases which are committed hereto.

Minerals Management Service Form MMS-3160, "Monthly Report of Operations", must be submitted for this agreement beginning with the month in which drilling operations are re-commenced for Well No. 5-10, SW $\frac{1}{4}$  NW $\frac{1}{4}$ , Section 10, Township 12 South, Range 10 East, SLB&M, Carbon County, Utah, API # 43-047-30162, on a State Lease. Form MMS-3160 is to be mailed to the Minerals Management Service, Production Accounting Division, P.O. Box 17110, Denver, Colorado 80217.

If this well is producing, this approval requires the submission of a Payor Information Form MMS-4025 to the Minerals Management Service (MMS) within 30 days (30 CFR 210.51). Please notify the designated payor or payors (purchasers, working interest owners, or others) as soon as possible regarding this requirement. Any production royalties that are due must be reported and paid within 90 days of the Bureau of Land Management's approval date or the payors will be assessed interest for late payment under the Federal Oil and Gas Royalty Management Act of 1982 (See 30 CFR 218.54). If you need assistance or clarification, please contact the Minerals Management Service at 1-800-525-9167 or 303-231-3504.

Please furnish all interested principals with necessary evidence of this approval.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks  
Chief, Branch of Fluid Minerals

Enclosure

bcc: Mineral Adjudication Group w/enclosure  
Field Manager - Moab w/enclosure  
Division Oil, Gas & Mining  
File - UTU78952  
MMS - Data Management Division  
Agr. Sec. Chron.  
Fluid Chron.

UT931:TATHOMPSON:tt:8/11/00

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

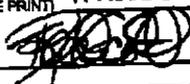
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER Private
2. NAME OF OPERATOR J. M. Huber Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
3. ADDRESS OF OPERATOR: 1050 17th St., #1850 CITY Denver STATE CO ZIP 80265		7. UNIT or CA AGREEMENT NAME N/A
4. LOCATION OF WELL: FOOTAGES AT SURFACE 2559' FSL, 909' FEL QTR/CTR. SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 10 12S 10E		8. WELL NAME and NUMBER: Huber-Jensen 9-10
PHONE NUMBER: (303) 825-7900		9. API NUMBER: 007-30159
COUNTY: Carbon		10. FIELD AND POOL OR WILDCAT: Castlegate
STATE: UTAH		

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

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

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

Re-entry date was 8/16/00  
Perfed and acidized - commenced production  
(original spud date was 8/10/92)

NAME (PLEASE PRINT) T. Reed Scott	TITLE Contracted Consulting Petroleum Engineer
SIGNATURE 	DATE 2 October 2000

(This space for State use only)

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

FORM 6

**ENTITY ACTION FORM**

Operator: J. M. Huber Corporation Operator Account Number: N 2380  
 Address: 1050 17th St, Suite 1850  
city Denver  
state CO zip 80265 Phone Number: (303) 825-7900

Well 1

43-007-30163	Huber-Jensen 16-9	SESE	9	12S	10E	Carbon
A	99999	12904	Re-entry 6/2/00		6-2-00	
Comments: 10-2-00 Original Spud Date was 9/8/92						

Well 2

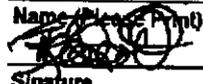
43-007-30162	Huber-Jensen 5-10	SWNW	10	12S	10E	Carbon
A	99999	12905	Re-entry 8/22/00		6-22-00	
Comments: 10-2-00 Original Spud Date was 8/29/92						

Well 3

43-007-30159	Huber-Jensen 9-10	NESE	10	12S	10E	Carbon
A	99999	12906	Re-entry 6/16/00		8-16-00	
Comments: 10-2-00 Original Spud Date was 8/10/92						

**ACTION CODES:**

- 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)

T. Reed Scott  
 Name (Please Print)  
  
 Signature  
 Consulting Petroleum Engineer 2 Oct 2000  
 Title Date





**ENERGY**

A FAMILY OF SOLUTIONS

**J.M. Huber Corporation**

1050 17<sup>th</sup> St., Ste. 700  
Denver, CO 80265

phone: (303) 825-7900  
fax: (303) 825-8300  
e-mail: dv\_cpjaw@huber.cc  
www.huber.com

March 15, 2001

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

RE: Form 8 Completion Report – Huber Jensen 9-10  
NESE Sec. 10-T12S-R10E

Dear Carol,

Enclosed you will find the Form 8 Completion Report for the above mentioned well.

If you have any other questions or concerns please do not hesitate to call me at 303-825-7900.

Respectfully yours,

Judith A. Walter  
Regulatory Compliance – Contract Agent

Cc: J.M. Huber Field Office – Larry Sessions, 212 East 100 North, PO Box 551, Price, UT 84501  
Permits West – Brian Wood, 37 Verano Loop, Santa Fe, NM 87505  
Patina Oil & Gas Corp., 1625 Broadway, Suite 2000, Denver, CO 80202  
Correspondence  
Well File - 3

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DIVISION OF  
OIL, GAS AND MINING

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

AMENDED REPORT  FORM 8  
(highlight changes)

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  OTHER \_\_\_\_\_  
 b. TYPE OF WORK  
 NEW  HORIZ.  DEEP-  RE-  DIFF.

2. NAME OF OPERATOR  
J.M. Huber Corporation

3. ADDRESS OF OPERATOR 1050 17th St., Suite #700, Denver, CO 80265  
 PHONE NUMBER 303-825-7900

4. LOCATION OF WELL (FOOTAGES)  
2559' FSL, 909' FEL

AT TOP PRODUCING INTERVAL REPORTED BELOW: Same

AT TOTAL DEPTH: Same

5. LEASE DESIGNATION AND SERIAL NUMBER:  
Fee

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

7. UNIT or CA AGREEMENT NAME:  
N/A

8. WELL NAME and NUMBER:  
Jensen 9-10

9. API NUMBER:  
43-007-30159

10. FIELD AND POOL, OR WILDCAT:  
Castlegate

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
NESE Sec 10-T12S-R10E

12. COUNTY: Carbon 13. STATE: UTAH

14. DATE SPUNNED: 8/10/92 15. DATE T.D. REACHED: 8/25/92 16. DATE COMPLETED: 9/6/00  
 ABANDONED  READY TO PRODUCE  17. ELEVATIONS (DF, RKB, RT, GL): 7161 GL

18. TOTAL DEPTH: MD 4930' TVD 19. PLUG BACK T.D.: MD 4547' TVD 20. IF MULTIPLE COMPLETIONS, HOW MANY? \* 21. DEPTH BRIDGE MD 4547' KB PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)  
NA

23. WAS WELL CORED? NO  YES  (Submit analysis)  
 WAS DST RUN? NO  YES  (Submit report)  
 DIRECTIONAL SURVEY? NO  YES  (Submit copy)

**24. CASING AND LINER RECORD (Report all strings set in well)**

HOLE SIZE	SIZE/GRADE	WEIGHT (#/FT.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP**	AMOUNT PULLED
12-1/4"	9-5/8"	36#	0'	500'		275 sx Class "G"		Surface	0
7"	8-3/4"	26# & 29#		4930'		400 sx 50/50 Poz		3028	0
			DV Tool	3306'		290 sx Class "G"			
						& 50 sx Class "G"			

**25. TUBING RECORD**

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	4530 KB							

**26. PRODUCING INTERVALS**

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A)					See attached			OPEN	SQUEEZED
(B)								OPEN	SQUEEZED
(C)								OPEN	SQUEEZED
(D)								OPEN	SQUEEZED

**27. PERFORATION RECORD**

**28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.**

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
4152' - 4533'	1900 Gallons 15% HCL w/additives

**29. ENCLOSED ATTACHMENTS:**

- ELECTRICAL/MECHANICAL LOGS  GEOLOGIC REPORT  DST REPORT  DIRECTIONAL SURVEY  
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION  CORE ANALYSIS  OTHER: Perforation Record

**30. WELL STATUS:**

Producing

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(CONTINUED ON BACK)

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DIVISION OF  
OIL, GAS AND MINING

**31. INITIAL PRODUCTION**

**INTERVAL A (As shown in Item #26)**

DATE FIRST PRODUCED: <b>8/29/00</b>		TEST DATE <b>8/29/00</b>		HOURS TESTED: <b>24</b>		TEST PRODUCTION RATES: -->	OIL - BBL: <b>-0-</b>	GAS - MCF: <b>30 MCFD</b>	WATER - BBL: <b>646 BWPD</b>	PROD. METHOD: <b>Beam pump</b>
CHOKE SIZE:	TBG. PRESS. <b>125</b>	CSG. PRESS. <b>115</b>	API GRAVITY <b>NA</b>	BTU - GAS	GAS/OIL RATIO <b>NA</b>	24 HR PRODUCTION RATES: -->	OIL - BBL: <b>-0-</b>	GAS - MCF: <b>30 MCFD</b>	WATER - BBL: <b>646 BWPD</b>	INTERVAL STATUS:

**INTERVAL B (As shown in Item #26)**

DATE FIRST PRODUCED:		TEST DATE		HOURS TESTED:		TEST PRODUCTION RATES: -->	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: -->	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

**INTERVAL C (As shown in Item #26)**

DATE FIRST PRODUCED:		TEST DATE		HOURS TESTED:		TEST PRODUCTION RATES: -->	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: -->	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

**INTERVAL D (As shown in Item #26)**

DATE FIRST PRODUCED:		TEST DATE		HOURS TESTED:		TEST PRODUCTION RATES: -->	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: -->	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

**32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)**

**Sold**

**33. SUMMARY OF POROUS ZONES (Include Aquifers):**

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open flowing and shut-in pressures and recoveries.

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
Black hawk	3658'	4544'	Natural Gas	Price River SS	2274
				Castlegate SS	2965
				Black Hawk	3658
				Kenilworth SS	4369
				Aberdeen SS	4544

**35. ADDITIONAL REMARKS (Include plugging procedure)**

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

NAME (PLEASE PRINT) T. Reed Scott  
 SIGNATURE 

TITLE Consulting Petroleum Engineer  
 DATE 15-Mar-01

xc: UDOGM, Permits West, Field Office  
 Well File - 3, Patina Oil & Gas Corp

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MAR 13 2001

DIVISION OF  
 OIL, GAS AND MINING

Well Name: Huber Jensen 9-10  
 API #: 43-007-30159  
 Location: NESE Sec 10-T12S-R10E

Date:	8/18/00					
	RE-Perf Intervals		Net Perfs	Size	SPF	No. Holes
	(FT KB)	(FT KB)	(FT)			
	Top	Bottom				
	4144	4152	8	0.45"	4	32
	4190	4198	8	0.45"	4	32
	4216	4218	2	0.45"	4	8
	4236	4242	6	0.45"	4	24
	4281	4286	5	0.45"	4	20
	4306	4312	6	0.45"	4	24
	4332	4342	10	0.45"	4	40
	4354	4356	2	0.45"	4	8
	5364	5368	4	0.45"	4	16
	4463	4470	7	0.45"	4	28
	4478	4485	7	0.45"	4	28
	4533	4544	<u>11</u>	0.45"	4	<u>44</u>
			76			304

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DIVISION OF  
 OIL, GAS AND MINING

**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. GLH
2. CDW
3. FILE

**X Change of Operator (Well Sold)**

Designation of Agent/Operator

Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective:

**12/1/2003**

<b>FROM: (Old Operator):</b> N2380-J.M. Huber Corp 1050 17th St, Ste. 700 Denver, CO 80265 Phone: 1-(303) 825-7900	<b>TO: (New Operator):</b> N2545-Evergreen Operating Corp. 1401 17th Street, Suite 1200 Denver, CO 80202 Phone: 1-(303) 298-8100
--	--

CA No.

Unit:

**WELL(S)**

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
HUBER-JENSEN 1-4	04	120S	100E	4300730733	13068	Fee	GW	P
HUBER-JENSEN 2-8	08	120S	100E	4300730734	13275	Fee	GW	P
HUBER-JENSEN 1-8	08	120S	100E	4300730768	13359	Fee	GW	P
HUBER-JENSEN 16-9	09	120S	100E	4300730163	12904	Fee	GW	P
HUBER-JENSEN 1-9	09	120S	100E	4300730717	12903	Fee	GW	P
HUBER-JENSEN 2-9	09	120S	100E	4300730735	13317	Fee	GW	P
HUBER-JENSEN 9-10	10	120S	100E	4300730159	12906	Fee	GW	P
HUBER-JENSEN 5-10	10	120S	100E	4300730162	12905	Fee	GW	P
HUBER-JENSEN 1-10	10	120S	100E	4300730596	12611	Fee	GW	P
HUBER-SHIMMIN TRUST 2-11	11	120S	100E	4300730659	13070	Fee	GW	P
HUBER-SHIMMIN TRUST 1-11	11	120S	100E	4300730673	12901	Fee	GW	P
HUBER-SHIMMIN TRUST 1-12	12	120S	100E	4300730674	12902	Fee	GW	P
HUBER-SHIMMIN TRUST 3-14	14	120S	100E	4300730640	13069	Fee	GW	P
HUBER-SHIMMIN TRUST 4-14	14	120S	100E	4300730662	13071	Fee	GW	P
HUBER-JENSEN 1-15	15	120S	100E	4300730736	13072	Fee	GW	P
HUBER-STATE 1-16	16	120S	100E	4300730589	12610	State	GW	P
HUBER-ST 4-16	16	120S	100E	4300730785	13318	State	GW	P

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 1/22/2004
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 1/22/2004
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 12/29/2003
- Is the new operator registered in the State of Utah: YES Business Number: 5531527-0143
- If **NO**, the operator was contacted on: \_\_\_\_\_

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: Private-FEE
2. NAME OF OPERATOR: J. M. Huber Corp.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA
3. ADDRESS OF OPERATOR: 1050 17th St, Ste. 700 CITY Denver STATE CO ZIP 80265		7. UNIT or CA AGREEMENT NAME: NA
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2559' FSL, 909' FEL		8. WELL NAME and NUMBER: Huber Jensen 9-10
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 10 12S 10E S		9. API NUMBER: 43-7-30159
COUNTY: Carbon		10. FIELD AND POOL, OR WILDCAT: Castlegate
STATE: UTAH		

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

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

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

See Attached Sheet.

NAME (PLEASE PRINT) Robert F. Unger TITLE V. P.-Northern Business Unit of J. M. Huber Corp.  
SIGNATURE *Robert F. Unger* DATE 11/20/03

(This space for State use only)

RECEIVED

JAN 22 2004

149c-116

Attachment for the State of Utah, Department of Natural Resources, Division of Oil, Gas and Mining, Form 9, Sundry Notices and Reports on Wells:

Huber Jensen 9-10

J. M. Huber Corporation has sold its interests in this well and property. The new owner will be taking on the responsibility of operator.

Name (please print) Robert F. Unger

Title: V. P.-Northern Business Unit

Signature:

Robert F. Unger *boy*

Date:

11/20/03

New owner information:

Company Name: Evergreen Operating Corp., 1401 17th Street, Ste 1200  
Denver, CO 80202

Name (please print) Kevin D. Davis

Title: Director - Mergers & Acquisitions

Signature:

Kevin D. Davis

Date:

1/15/2004

New owner bond number: RLB 0006706

**OPERATOR CHANGE WORKSHEET**

**ROUTING**

- |         |
|---------|
| 1. GLH  |
| 2. CDW  |
| 3. FILE |

Change of Operator (Well Sold)

Designation of Agent/Operator

Operator Name Change

**X Merger**

The operator of the well(s) listed below has changed, effective:

**9/28/2004**

<b>FROM: (Old Operator):</b> N2545-Evergreen Operating Corp. 1401 17th St, Suite 1200 Denver, CO 80202 Phone: 1-(303) 298-8100	<b>TO: ( New Operator):</b> N5155-Pioneer Natural Resources USA, Inc. 5205 N O'Connor Blvd Irving, TX 75039 Phone: 1-(972) 444-9001
--	---

CA No.

Unit:

**WELL(S)**

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
BONANZA FED 15-27-10-25	27	100S	250E	4304734941	13840	Federal	GW	P K
HUBER-JENSEN 16-9	09	120S	100E	4300730163	12904	Fee	GW	P
HUBER-JENSEN 1-9	09	120S	100E	4300730717	12903	Fee	GW	P
HUBER-JENSEN 9-10	10	120S	100E	4300730159	12906	Fee	GW	P
HUBER-JENSEN 5-10	10	120S	100E	4300730162	12905	Fee	GW	P
HUBER-JENSEN 11-10	10	120S	100E	4300730164	11405	Fee	GW	P
HUBER-JENSEN 1-10	10	120S	100E	4300730596	12611	Fee	GW	P
HUBER-JENSEN 2-10	10	120S	100E	4300730675	14225	Fee	GW	P
SHIMMIN TRUST 11-11	11	120S	100E	4300730166	11410	Fee	GW	DRL
HUBER-SHIMMIN TRUST 2-11	11	120S	100E	4300730659	13070	Fee	GW	P
HUBER-SHIMMIN TRUST 1-11	11	120S	100E	4300730673	12901	Fee	GW	P
HUBER-SHIMMIN TRUST 1-12	12	120S	100E	4300730674	12902	Fee	GW	P
SHIMMIN TRUST 5	14	120S	100E	4300730122	14175	Fee	GW	P
HUBER-SHIMMIN TRUST 3-14	14	120S	100E	4300730640	13069	Fee	GW	P
HUBER-SHIMMIN TRUST 4-14	14	120S	100E	4300730662	13071	Fee	GW	P
FED ENI 7-1	07	130S	260E	4304731134	2840	Federal	GW	P
PINE SPRINGS 13-26-14-22	26	140S	220E	4304731074	13615	Federal	GW	P
FEDERAL 5-13-15-21	13	150S	210E	4304731137	8071	Federal	GW	S
FEDERAL 2-18-15-22	18	150S	220E	4304731091	8077	Federal	GW	S
MAIN CYN 16-4-15-23	04	150S	230E	4304731111	11608	Federal	GW	S
MAIN CYN 6-8-15-23	08	150S	230E	4304731073	11606	Federal	GW	P

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 10/21/2004
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 10/21/2004
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 10/21/2004
- Is the new operator registered in the State of Utah: YES Business Number: 5738462-0143
- If **NO**, the operator was contacted on: \_\_\_\_\_
- (R649-9-2) Waste Management Plan has been received on: \_\_\_\_\_
- Inspections of LA PA state/fee well sites complete on: \_\_\_\_\_

\*\*\*

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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: not yet

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: \_\_\_\_\_

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: \_\_\_\_\_

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: N/A

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 10/28/2004
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 10/28/2004
3. Bond information entered in RBDMS on: 10/28/2004
4. Fee/State wells attached to bond in RBDMS on: 10/28/2004
5. Injection Projects to new operator in RBDMS on: 10/28/2004
6. Receipt of Acceptance of Drilling Procedures for APD/New on: \*\*\*

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

1. Federal well(s) covered by Bond Number: 104091293

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

1. Indian well(s) covered by Bond Number: n/a

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

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 104319462
2. The **FORMER** operator has requested a release of liability from their bond on: 10/21/2004  
The Division sent response by letter on: 10/28/2004

**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: 11/1/2004

**COMMENTS:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

		5. LEASE DESIGNATION AND SERIAL NUMBER:
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		8. WELL NAME and NUMBER: <b>See Attached List</b>
2. NAME OF OPERATOR: <b>Pioneer Natural Resources USA, Inc. N5155</b>		9. API NUMBER:
3. ADDRESS OF OPERATOR: 5205 N. O'Connor Blvd CITY Irving STATE TX ZIP 75039		10. FIELD AND POOL, OR WILDCAT:
4. LOCATION OF WELL FOOTAGES AT SURFACE: _____ COUNTY: _____ QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____ STATE: <b>UTAH</b>		

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

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

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

1. Operator change due to the merger between Pioneer Natural Resources USA, Inc and Evergreen Resources Inc., effective September 28, 2004.
2. See list attached for all wells currently operated under the name of Evergreen Operating (subsidiary of Evergreen Resources) as listed on the DOGM database on October 15, 2004.
3. Operator will now be Pioneer Natural Resources USA, Inc. Local operation address info and contacts under separate cover.
4. Surety Bond #104319462 (replaces RLB 0006706) attached
5. Copy of Oil & Gas Geothermal Lease Bond - BLM #104091293 attached

Name: Dennis R. Carlton Title: Executive Vice President, Evergreen Operating Corp. *N2545*  
Signature: *[Signature]* Date: 10/18/04

NAME (PLEASE PRINT) Jay Still TITLE Vice President, Western Division, Pioneer Natural Resources USA Inc.  
SIGNATURE *[Signature]* DATE 10/19/04

(This space for State use only)

**APPROVED** 10/28/04  
*Earlene Russell*  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician  
(See Instructions on Reverse Side)

RECEIVED  
OCT 21 2004  
DIV. OF OIL, GAS & MINING

**EVERGREEN TO PIONEER NATURAL RESOURCES USA, INC. MERGER  
WELL LIST 10/15/04**

API Well Number	Operator	Well Name	Well Type	Well Status	Field Name	County Name	Location (Twn-Rng)	Sect	Twpr	Twpd	RngN	RngD	Qtr/Qtr
43-007-30122-00-00	EVERGREEN OPERATING CORP	SHIMMIN TRUST 5	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	14	12	S	10	E	NWNE
43-007-30137-00-00	EVERGREEN OPERATING CORP	HUBER-FEDERAL 7-9	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	9	12	S	10	E	SWNE
43-007-30138-00-00	EVERGREEN OPERATING CORP	HUBER-FRANSEN 4-15	Gas Well	Plugged and Abandoned	CASTLEGATE	CARBON	12S-10E	15	12	S	10	E	NWNW
43-007-30140-00-00	EVERGREEN OPERATING CORP	HUBER-FED 6-8	Gas Well	Plugged and Abandoned	CASTLEGATE	CARBON	12S-10E	8	12	S	10	E	SESW
43-007-30159-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 9-10	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	10	12	S	10	E	NESE
43-007-30162-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 5-10	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	10	12	S	10	E	SWNW
43-007-30163-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 16-9	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	9	12	S	10	E	SESE
43-007-30164-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 11-10	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	10	12	S	10	E	NESW
43-007-30166-00-00	EVERGREEN OPERATING CORP	SHIMMIN TRUST 11-11	Gas Well	Spudded (Drilling commenced; Not yet completed)	CASTLEGATE	CARBON	12S-10E	11	12	S	10	E	NESW
43-007-30169-00-00	EVERGREEN OPERATING CORP	SHIMMIN TRUST 14-12	Gas Well	Plugged and Abandoned	CASTLEGATE	CARBON	12S-10E	12	12	S	10	E	SESW
43-007-30589-00-00	EVERGREEN OPERATING CORP	HUBER-STATE 1-16	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	16	12	S	10	E	NWNE
43-007-30596-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 1-10	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	10	12	S	10	E	NWSW
43-007-30640-00-00	EVERGREEN OPERATING CORP	HUBER-SHIMMIN TRUST 3-14	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	14	12	S	10	E	SENE
43-007-30659-00-00	EVERGREEN OPERATING CORP	HUBER-SHIMMIN TRUST 2-11	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	11	12	S	10	E	SESE
43-007-30662-00-00	EVERGREEN OPERATING CORP	HUBER-SHIMMIN TRUST 4-14	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	14	12	S	10	E	SESW
<del>43-007-30669-00-00</del>	<del>EVERGREEN OPERATING CORP</del>	<del>HUBER-STATE 4-11</del>	<del>Gas Well</del>	<del>Location Abandoned</del>	<del>CASTLEGATE</del>	<del>CARBON</del>	<del>12S-10E</del>	<del>11</del>	<del>12</del>	<del>S</del>	<del>10</del>	<del>E</del>	<del>SESE</del>
43-007-30673-00-00	EVERGREEN OPERATING CORP	HUBER-SHIMMIN TRUST 1-11	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	11	12	S	10	E	SESW
43-007-30674-00-00	EVERGREEN OPERATING CORP	HUBER-SHIMMIN TRUST 1-12	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	12	12	S	10	E	NWSW
43-007-30675-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 2-10	Gas Well	Spudded (Drilling commenced; Not yet completed)	CASTLEGATE	CARBON	12S-10E	10	12	S	10	E	NESE
<del>43-007-30676-00-00</del>	<del>EVERGREEN OPERATING CORP</del>	<del>HUBER-JENSEN 3-16</del>	<del>Gas Well</del>	<del>Location Abandoned</del>	<del>CASTLEGATE</del>	<del>CARBON</del>	<del>12S-10E</del>	<del>16</del>	<del>12</del>	<del>S</del>	<del>10</del>	<del>E</del>	<del>SWNE</del>
43-007-30717-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 1-9	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	9	12	S	10	E	NWSW
43-007-30718-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 1-18	Gas Well	Spudded (Drilling commenced; Not yet completed)	CASTLEGATE	CARBON	12S-10E	18	12	S	10	E	NESE
43-007-30733-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 1-4	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	4	12	S	10	E	SWSE
43-007-30734-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 2-8	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	8	12	S	10	E	NENE
43-007-30735-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 2-9	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	9	12	S	10	E	NENW
43-007-30736-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 1-15	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	15	12	S	10	E	SWNE
43-007-30764-00-00	EVERGREEN OPERATING CORP	HUBER-J/F 2-17	Gas Well	New Permit (Not yet approved or drilled)	CASTLEGATE	CARBON	12S-10E	17	12	S	10	E	NENW
43-007-30768-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 1-8	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	8	12	S	10	E	NESE
43-007-30769-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 1-17	Gas Well	New Permit (Not yet approved or drilled)	CASTLEGATE	CARBON	12S-10E	17	12	S	10	E	NENE
43-007-30783-00-00	EVERGREEN OPERATING CORP	HUBER-ST 2-16	Gas Well	Approved permit (APD); not yet spudded	CASTLEGATE	CARBON	12S-10E	16	12	S	10	E	NWSE
43-007-30784-00-00	EVERGREEN OPERATING CORP	HUBER-ST 3-16	Gas Well	Approved permit (APD); not yet spudded	CASTLEGATE	CARBON	12S-10E	16	12	S	10	E	SESW
43-007-30785-00-00	EVERGREEN OPERATING CORP	HUBER-ST 4-16	Gas Well	Producing	CASTLEGATE	CARBON	12S-10E	16	12	S	10	E	SENE
43-007-30787-00-00	EVERGREEN OPERATING CORP	H-M FED 2-14	Gas Well	New Permit (Not yet approved or drilled)	CASTLEGATE	CARBON	12S-10E	14	12	S	10	E	NESW
43-007-30810-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 2-5	Gas Well	New Permit (Not yet approved or drilled)	CASTLEGATE	CARBON	12S-10E	5	12	S	10	E	NESW
43-007-30858-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 4-17	Gas Well	New Permit (Not yet approved or drilled)	CASTLEGATE	CARBON	12S-10E	17	12	S	10	E	NESE
43-007-30859-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 2-18	Gas Well	New Permit (Not yet approved or drilled)	CASTLEGATE	CARBON	12S-10E	18	12	S	10	E	NENE
43-007-30860-00-00	EVERGREEN OPERATING CORP	HUBER-JENSEN 4-8	Gas Well	New Permit (Not yet approved or drilled)	CASTLEGATE	CARBON	12S-10E	8	12	S	10	E	NWSW

**EVERGREEN TO PIONEER NATURAL RESOURCES USA, INC. MERGER  
WELL LIST 10/15/04**

API Well Number	Operator	Well Name	Well Type	Well Status	Field Name	County Name	Location (Twn-Rng)	Sect	Trwp	Trwpd	RngN	RngD	Qtr/Qtr
43-007-30947-00-00	EVERGREEN OPERATING CORP	HUBER-FRANDSEN/FED 4-15	Gas Well	New Permit (Not yet approved or drilled)	CASTLEGATE	CARBON	12S-10E	15	12	S	10	E	NWNW
43-007-30961-00-00	EVERGREEN OPERATING CORP	STATE 11-16	Gas Well	Spudded (Drilling commenced: Not yet completed)	CASTLEGATE	CARBON	12S-10E	16	12	S	10	E	NWNW
43-007-30962-00-00	EVERGREEN OPERATING CORP	SHIMMIN 11-14	Gas Well	Spudded (Drilling commenced: Not yet completed)	CASTLEGATE	CARBON	12S-10E	14	12	S	10	E	NWNW
43-007-30786	EVERGREEN OPERATING CORP	Jensen 7-15 Deep	Gas Well	Active	WILDCAT	CARBON	12S-10E	15	12	S	10	E	SWNE
43-007-30977-00-00	EVERGREEN OPERATING CORP	JENSEN 24-4	Gas Well	New Permit (Not yet approved or drilled)	CASTLEGATE	CARBON	12S-10E	4	12	S	10	E	SESW
43-007-30978-00-00	EVERGREEN OPERATING CORP	JENSEN 34-5	Gas Well	New Permit (Not yet approved or drilled)	CASTLEGATE	CARBON	12S-10E	5	12	S	10	E	SWSE
43-007-30980-00-00	EVERGREEN OPERATING CORP	JENSEN 41-9	Gas Well	New Permit (Not yet approved or drilled)	CASTLEGATE	CARBON	12S-10E	9	12	S	10	E	NENE
43-007-30981-00-00	EVERGREEN OPERATING CORP	JENSEN 34-10	Gas Well	New Permit (Not yet approved or drilled)	CASTLEGATE	CARBON	12S-10E	10	12	S	10	E	SWSE
43-013-32308-00-00	EVERGREEN OPERATING CORP	HUBER-ST 1-35	Water Disposal Well	Active	CASTLEGATE	DUCHESNE	11S-10E	35	11	S	10	E	SW
43-013-32317-00-00	EVERGREEN OPERATING CORP	HUBER-STATE 1-27	Gas Well	New Permit (Not yet approved or drilled)	WILDCAT	DUCHESNE	11S-10E	27	11	S	10	E	SWSE
<del>43-017-30104-00-00</del>	<del>EVERGREEN OIL CORP</del>	<del>POISON SPRINGS U 1 USA</del>	<del>Oil Well</del>	<del>Plugged and Abandoned</del>	<del>WILDCAT</del>	<del>GARFIELD</del>	<del>910-12E</del>	<del>24</del>	<del>04</del>	<del>S</del>	<del>12</del>	<del>E</del>	<del>NESE</del>
<del>43-017-30102-00-00</del>	<del>EVERGREEN OIL CORP</del>	<del>POISON SPRINGS U 2 USA</del>	<del>Oil Well</del>	<del>Plugged and Abandoned</del>	<del>WILDCAT</del>	<del>GARFIELD</del>	<del>910-12E</del>	<del>4</del>	<del>04</del>	<del>S</del>	<del>12</del>	<del>E</del>	<del>NENE</del>
43-019-30136-00-00	EVERGREEN OPERATING CORP	ANDERSON FED 2	Gas Well	Producing	EAST CANYON	GRAND	16S-24E	12	16	S	24	E	SWSW
43-019-30955-00-00	EVERGREEN OPERATING CORP	FEDERAL 24-1	Gas Well	Shut-In	EAST CANYON	GRAND	16S-24E	24	16	S	24	E	NWNE
43-019-31077-00-00	EVERGREEN OPERATING CORP	FEDERAL 1-34	Gas Well	Producing	BRYSON CANYON	GRAND	16S-24E	34	16	S	24	E	NESE
43-019-31078-00-00	EVERGREEN OPERATING CORP	FEDERAL 2-34	Gas Well	Producing	BRYSON CANYON	GRAND	16S-24E	34	16	S	24	E	SESW
43-047-30248-00-00	EVERGREEN OPERATING CORP	BLACK HORSE 2	Gas Well	Shut-In	BLACK HORSE CYN	UINTAH	15S-24E	29	15	S	24	E	SESE
43-047-30284-00-00	EVERGREEN OPERATING CORP	PINE SPRING U 1	Gas Well	Producing	PINE SPRINGS	UINTAH	14S-22E	15	14	S	22	E	NESW
43-047-30325-00-00	EVERGREEN OPERATING CORP	RAT HOLE CYN 1	Gas Well	Shut-In	RAT HOLE CANYON	UINTAH	14S-25E	8	14	S	25	E	NWSE
43-047-30331-00-00	EVERGREEN OPERATING CORP	DRY BURN U 1	Gas Well	Shut-In	DRY BURN	UINTAH	13S-25E	29	13	S	25	E	NWSE
43-047-30332-00-00	EVERGREEN OPERATING CORP	1-L-23	Gas Well	Shut-In	SWEETWATER CYN	UINTAH	14S-24E	23	14	S	24	E	SWNE
43-047-30460-00-00	EVERGREEN OPERATING CORP	SWEETWATER CYN 1	Gas Well	Shut-In	SWEETWATER CYN	UINTAH	14S-24E	14	14	S	24	E	SWNW
43-047-30562-00-00	EVERGREEN OPERATING CORP	TRAPP SPRINGS 4-25-14-23	Gas Well	Producing	MAIN CANYON	UINTAH	14S-23E	25	14	S	23	E	SWSW
43-047-30619-00-00	EVERGREEN OPERATING CORP	CROOKED CYN 13-17-14-23	Gas Well	Producing	CROOKED CANYON	UINTAH	14S-23E	17	14	S	23	E	NWNW
43-047-30622-00-00	EVERGREEN OPERATING CORP	WOLF UNIT 3-11-15-21	Gas Well	Shut-In	WOLF POINT	UINTAH	15S-21E	11	15	S	21	E	SESW
43-047-30639-00-00	EVERGREEN OPERATING CORP	MAIN CYN 11-10-15-23	Gas Well	Producing	MAIN CANYON	UINTAH	15S-23E	10	15	S	23	E	SESW
43-047-30674-00-00	EVERGREEN OPERATING CORP	MAIN CYN 15-8-15-23	Gas Well	Producing	MAIN CANYON	UINTAH	15S-23E	8	15	S	23	E	NWNE
43-047-30735-00-00	EVERGREEN OPERATING CORP	MAIN CYN 2-8-15-23	Gas Well	Producing	MAIN CANYON	UINTAH	15S-23E	8	15	S	23	E	SWSE
43-047-30736-00-00	EVERGREEN OPERATING CORP	MAIN CYN 7-17-15-23	Gas Well	Producing	MAIN CANYON	UINTAH	15S-23E	17	15	S	23	E	NWSE
43-047-30746-00-00	EVERGREEN OPERATING CORP	STATE 11-2-15-22	Gas Well	Plugged and Abandoned	MAIN CANYON	UINTAH	15S-22E	2	15	S	22	E	SESW
43-047-30791-00-00	EVERGREEN OPERATING CORP	TRAPP SPRINGS 6-35-14-23	Gas Well	Producing	MAIN CANYON	UINTAH	14S-23E	35	14	S	23	E	NESE
43-047-30944-00-00	EVERGREEN OPERATING CORP	TRAPP SPRINGS 8-36-14-23	Gas Well	Producing	MAIN CANYON	UINTAH	14S-23E	36	14	S	23	E	NESE
43-047-30975-00-00	EVERGREEN OPERATING CORP	TRAPP SPRINGS 1-25-14-23	Gas Well	Producing	MAIN CANYON	UINTAH	14S-23E	25	14	S	23	E	SESE
43-047-30977-00-00	EVERGREEN OPERATING CORP	MAIN CYN 8-7-15-23	Gas Well	Producing	MAIN CANYON	UINTAH	15S-23E	7	15	S	23	E	NESE
43-047-31003-00-00	EVERGREEN OPERATING CORP	TRAPP SPRINGS 3-26-14-23	Gas Well	Shut-In	MAIN CANYON	UINTAH	14S-23E	26	14	S	23	E	SESW
43-047-31027-00-00	EVERGREEN OPERATING CORP	FEDERAL 6-14-15-21	Gas Well	Shut-In	WOLF POINT	UINTAH	15S-21E	14	15	S	21	E	NESW
43-047-31040-00-00	EVERGREEN OPERATING CORP	SWEETWATER 6-13-14-24	Gas Well	Shut-In	SWEETWATER CYN	UINTAH	14S-24E	13	14	S	24	E	NESW
43-047-31041-00-00	EVERGREEN OPERATING CORP	TRAPP SPRINGS 16-25-14-23	Gas Well	Producing	MAIN CANYON	UINTAH	14S-23E	25	14	S	23	E	NENE
43-047-31042-00-00	EVERGREEN OPERATING CORP	PINE SPRINGS 7-21-14-22	Gas Well	Producing	PINE SPRINGS	UINTAH	14S-22E	21	14	S	22	E	NWSE
43-047-31043-00-00	EVERGREEN OPERATING CORP	MAIN CYN 4-4-15-23	Gas Well	Producing	MAIN CANYON	UINTAH	15S-23E	4	15	S	23	E	SWSW
43-047-31045-00-00	EVERGREEN OPERATING CORP	BLACK HORSE 14-15-15-24	Gas Well	Shut-In	SOUTH CANYON	UINTAH	15S-24E	15	15	S	24	E	NENW
43-047-31063-00-00	EVERGREEN OPERATING CORP	PINE SPRINGS 8-20-14-22	Gas Well	Producing	PINE SPRINGS	UINTAH	14S-22E	20	14	S	22	E	NESE

**EVERGREEN TO PIONEER NATURAL RESOURCES USA, INC. MERGER  
WELL LIST 10/15/04**

API Well Number	Operator	Well Name	Well Type	Well Status	Field Name	County Name	Location (Twn-Rng)	Sect	Twpr	Twpr	RngN	RngD	Qtr/Qtr
43-047-31071-00-00	EVERGREEN OPERATING CORP	FEDERAL 7-15-15-21	Gas Well	Shut-In	WOLF POINT	UINTAH	15S-21E	15	15	S	21	E	NWSE
43-047-31072-00-00	EVERGREEN OPERATING CORP	MAIN CYN 6-3-15-23	Gas Well	Shut-In	MAIN CANYON	UINTAH	15S-23E	3	15	S	23	E	NESW
43-047-31073-00-00	EVERGREEN OPERATING CORP	MAIN CYN 6-8-15-23	Gas Well	Producing	MAIN CANYON	UINTAH	15S-23E	6	15	S	23	E	NESW
43-047-31074-00-00	EVERGREEN OPERATING CORP	PINE SPRINGS 13-26-14-22	Gas Well	Producing	PINE SPRINGS	UINTAH	14S-22E	26	14	S	22	E	NWNW
43-047-31081-00-00	EVERGREEN OPERATING CORP	FEDERAL 2-18-15-22	Gas Well	Shut-In	WOLF POINT	UINTAH	15S-22E	18	15	S	22	E	SWSE
43-047-31096-00-00	EVERGREEN OPERATING CORP	PINE SPRINGS 9-12-14-21	Gas Well	Producing	PINE SPRINGS	UINTAH	14S-21E	12	14	S	21	E	SENE
43-047-31104-00-00	EVERGREEN OPERATING CORP	BLACK HORSE 12-8-15-24	Gas Well	Shut-In	SOUTH CANYON	UINTAH	15S-24E	8	15	S	24	E	SWNW
43-047-31111-00-00	EVERGREEN OPERATING CORP	MAIN CYN 16-4-15-23	Gas Well	Shut-In	MAIN CANYON	UINTAH	15S-23E	4	15	S	23	E	NENE
43-047-31134-00-00	EVERGREEN OPERATING CORP	FED ENI 7-1	Gas Well	Producing	DAVIS CANYON	UINTAH	13S-26E	7	13	S	26	E	NENE
43-047-31135-00-00	EVERGREEN OPERATING CORP	STATE 8-2-15-22	Gas Well	Shut-In	MAIN CANYON	UINTAH	15S-22E	2	15	S	22	E	NESE
43-047-31137-00-00	EVERGREEN OPERATING CORP	FEDERAL 5-13-15-21	Gas Well	Shut-In	WOLF POINT	UINTAH	15S-21E	13	15	S	21	E	NWSW
43-047-31348-00-00	EVERGREEN OPERATING CORP	FEDERAL 12-18-14-22	Gas Well	Shut-In	PINE SPRINGS	UINTAH	14S-22E	18	14	S	22	E	SWNW
<del>43-047-34674-00-00</del>	<del>EVERGREEN OPERATING CORP</del>	<del>PINE SPRINGS FED 3-23-14S-22E</del>	<del>Gas Well</del>	<del>Location Abandoned</del>	<del>PINE SPRINGS</del>	<del>UINTAH</del>	<del>14S-22E</del>	<del>23</del>	<del>14</del>	<del>S</del>	<del>22</del>	<del>E</del>	<del>SENE</del>
43-047-34675-00-00	EVERGREEN OPERATING CORP	PINE SPRINGS FED 3-23-14S-22E	Gas Well	Producing	PINE SPRINGS	UINTAH	14S-22E	23	14	S	22	E	SESW
43-047-34676-00-00	EVERGREEN OPERATING CORP	PINE SPRINGS FED 12-23-14S-22E	Gas Well	Temporarily-Abandoned	PINE SPRINGS	UINTAH	14S-22E	23	14	S	22	E	SWNW
43-047-34941-00-00	EVERGREEN OPERATING CORP	BONANZA FED 15-27-10-25	Gas Well	Producing	UNDESIGNATED	UINTAH	10S-25E	27	10	S	25	E	NWNE
43-047-35555-00-00	EVERGREEN OPERATING CORP	PINE SPRINGS ST 6-36-14-22	Gas Well	Spudded (Drilling commenced; Not yet completed)	UNDESIGNATED	UINTAH	14S-22E	36	14	S	22	E	NE
43-047-35556-00-00	EVERGREEN OPERATING CORP	PINE SPRINGS FED 4-22-14-22	Gas Well	Approved permit (APD); not yet spudded	PINE SPRINGS	UINTAH	14S-22E	22	14	S	22	E	SWSW
43-047-35566-00-00	EVERGREEN OPERATING CORP	PINE SPRINGS FED 15-21-14-22	Gas Well	Approved permit (APD); not yet spudded	PINE SPRINGS	UINTAH	14S-22E	21	14	S	22	E	NWNE

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

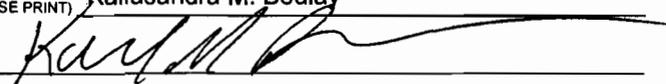
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: Pioneer Natural Resources		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1401 17th St., Suite 1200 CITY Denver STATE CO ZIP 80202		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (303) 298-8100		8. WELL NAME and NUMBER: See attached list
4. LOCATION OF WELL		9. API NUMBER: 43-007-30159
FOOTAGES AT SURFACE:		10. FIELD AND POOL, OR WILDCAT:
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		COUNTY:
		STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start: <u>1/13/2006</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input checked="" type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

Change well name from "State Well Name" (Column 1) to "Well Name" (Column 2). See attached list for wells.

NAME (PLEASE PRINT) <u>Kallasandra M. Boulay</u>	TITLE <u>Engineering Analyst</u>
SIGNATURE 	DATE <u>1/3/2006</u>

(This space for State use only)

**RECEIVED**

**JAN 06 2006**

Pioneer Natural Resources  
 1401 17th Street, Suite 1200  
 Denver, Colorado 80202  
 Contact: Kallasandra Boulay  
 Phone: (303) 675-2719

RECEIVED  
 JAN 06 2006  
 DIV. OF OIL, GAS & MINING

State Well Name	Well Name	Q	S	T	R	State	County	Field	Status (State)	API #	Operator	Well Type
✓ Huber-Federal 7-9	Huber Federal 7-9-12-10	SWNE	9	12S	10E	Utah	Carbon	Castlegate	PR	43-007-30137	PNR	Gas Well
✓ Huber-Jensen 1-10	Huber Jensen 1-10-12-10	NWSW	10	12S	10E	Utah	Carbon	Castlegate	PR	43-007-30596	PNR	Gas Well
✓ Huber-Jensen 11-10	Huber Jensen 11-10-12-10	NESW	10	12S	10E	Utah	Carbon	Castlegate	PR	43-007-30164	PNR	Gas Well
✓ Huber-Jensen 1-15	Huber Jensen 1-15-12-10	SWNE	15	12S	10E	Utah	Carbon	Castlegate	PR	43-007-30736	PNR	Gas Well
✓ Huber-Jensen 1-4	Huber Jensen 1-4-12-10	SWSE	4	12S	10E	Utah	Carbon	Castlegate	PR	43-007-30733	PNR	Gas Well
✓ Huber-Jensen 16-9	Huber Jensen 16-9-12-10	SESE	9	12S	10E	Utah	Carbon	Castlegate	PR	43-007-30163	PNR	Gas Well
✓ Huber-Jensen 1-8	Huber Jensen 1-8-12-10	NESE	8	12S	10E	Utah	Carbon	Castlegate	PR	43-007-30768	PNR	Gas Well
✓ Huber-Jensen 1-9	Huber Jensen 1-9-12-10	NWSW	9	12S	10E	Utah	Carbon	Castlegate	PR	43-007-30717	PNR	Gas Well
✓ Huber-Jensen 2-8	Huber Jensen 2-8-12-10	NENE	8	12S	10E	Utah	Carbon	Castlegate	PR	43-007-30734	PNR	Gas Well
✓ Huber-Jensen 2-9	Huber Jensen 2-9-12-10	NENW	9	12S	10E	Utah	Carbon	Castlegate	PR	43-007-30735	PNR	Gas Well
✓ Huber-Jensen 5-10	Huber Jensen 5-10-12-10	SWNW	10	12S	10E	Utah	Carbon	Castlegate	PR	43-007-30162	PNR	Gas Well
✓ Huber-Jensen 9-10	Huber Jensen 9-10-12-10	NESE	10	12S	10E	Utah	Carbon	Castlegate	PR	43-007-30159	PNR	Gas Well
✓ Huber-Shimmin Trust 1-11	Huber Shimmin Trust 1-11-12-10	SWSW	11	12S	10E	Utah	Carbon	Castlegate	PR	43-007-30673	PNR	Gas Well
✓ Huber-Shimmin Trust 1-12	Huber Shimmin Trust 1-12-12-10	NWSW	12	12S	10E	Utah	Carbon	Castlegate	PR	43-007-30674	PNR	Gas Well
✓ Huber-Shimmin Trust 2-11	Huber Shimmin Trust 2-11-12-10	SESE	11	12S	10E	Utah	Carbon	Castlegate	PR	43-007-30659	PNR	Gas Well
✓ Huber-Shimmin Trust 3-14	Huber Shimmin Trust 3-14-12-10	SENE	14	12S	10E	Utah	Carbon	Castlegate	SI	43-007-30640	PNR	Gas Well
✓ Huber-Shimmin Trust 4-14	Huber Shimmin Trust 4-14-12-10	SENE	14	12S	10E	Utah	Carbon	Castlegate	PR	43-007-30662	PNR	Gas Well
✓ Huber-State 1-16	Huber State 1-16-12-10	NWNE	16	12S	10E	Utah	Carbon	Castlegate	PR	43-007-30589	PNR	Gas Well
✓ Huber -St 4-16	Huber State 4-16-12-10	SENE	16	12S	10E	Utah	Carbon	Castlegate	PR	43-007-30785	PNR	Gas Well
✓ Jensen 7-15 Deep	Jensen Deep 7-15-12-10	SWNE	15	12S	10E	Utah	Carbon	Castlegate	TA	43-007-30786	PNR	Gas Well
✓ Shimmin Trust 11-11	Shimmin Trust 11-11-12-10	NESW	11	12S	10E	Utah	Carbon	Castlegate	PR	43-007-30166	PNR	Gas Well
✓ Shimmin Trust 14-12	Shimmin Trust 14-12-12-10	SESW	12	12S	10E	Utah	Carbon	Castlegate	XX	43-007-30169	PNR	Gas Well
✓ Shimmin Trust 5	Shimmin Trust 5-14-12-10	NWNE	14	12S	10E	Utah	Carbon	Castlegate	PR	43-007-30122	PNR	Gas Well
✓ Huber-St 1-35	Huber State 1-35-12-10 WDW	SWSW	35	12S	10E	Utah	Duchesne	Castlegate	Active	43-013-32308	PNR	WDW
✓ Anderson Fed 2	Anderson Federal 2-12-16S-24E	SWSW	12	16S	24E	Utah	Grand	East Canyon	PR	43-019-30136	PNR	Gas Well
✓ Federal 1-34	Bryson Canyon Federal 1-34-16S-24E	NESE	34	16S	24E	Utah	Grand	Bryson Canyon	PR	43-019-31077	PNR	Gas Well
✓ Federal 2-34	Bryson Canyon Federal 2-34-16S-24E	SESW	34	16S	24E	Utah	Grand	Bryson Canyon	PR	43-019-31078	PNR	Gas Well
✓ Federal 24-1	East Canyon Federal 24-1-16S-24E	NWNE	1	16S	24E	Utah	Grand	East Canyon	PA	43-019-30955	PNR	Gas Well
✓ Black Horse 2	Black Horse 2 1-29-15S-24E	SESE	29	15S	24E	Utah	Uintah	Black Horse Canyon	SI	43-047-30248	PNR	Gas Well
✓ Fed ENI 7-1	Davis Canyon Federal ENI 7-1-13S-26E	NENE	1	13S	26E	Utah	Uintah	Davis Canyon	SI	43-047-31134	PNR	Gas Well

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>			5. LEASE DESIGNATION AND SERIAL NUMBER: <b>FEE</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.			6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____			7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: <b>Pioneer Natural Resources USA, Inc., Attn: Kally Moran</b>			8. WELL NAME and NUMBER: <b>Jensen 9-10-12-10</b>
3. ADDRESS OF OPERATOR: 1401 17th Street, # 1200 CITY <b>Denver</b> STATE <b>CO</b> ZIP <b>80202</b>		PHONE NUMBER: <b>(303) 675-2719</b>	9. API NUMBER: <b>4300730159</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>2559 FSL 909 FEL</b>			10. FIELD AND POOL, OR WILDCAT: <b>Castlegate</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NESE 10 12S 10E</b>			COUNTY: <b>Carbon</b>
			STATE: <b>UTAH</b>

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: <b>8/29/2006</b>	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u><b>Daily Workover Report</b></u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

Please be advised that Pioneer Natural Resources has completed the following work on the Jensen 9-10-12-10.

Primary Job: Pump Change  
Secondary Job: Replace Rods  
Start Date: 8/23/2006  
End Date: 8/29/2006

8/23/2006 - MIRU

8/24/2006 - Change over from tbg equip to rod equip. RD pumping unit, lay down polish rod, RU floor and equip. POOH, lay down 10 1" rods, change over to 2-7/8" tbg equip. ND wellhead, release TAC. NU BOPE, change pipe rams from 2-3/8" to 2-7/8". RU floor and equip, POOH w/ 4', 6', 8' 2-7/8" pups, 10 jts, found parted rods. Change over to rod equip. Finish laying down w/ 51 1" rods, POOH w/ 58 7/8" rods. Lay down remaining 63 7/8" rods, and pump. Change over to tbg equip and POOH w/ 118 jts 2-7/8" tbg, TAC, 17 jts 2-7/8" tbg, SN, 1 jt, NC and tally. PU 7" bit and scrapper and RIH w/ 138 jts tbg. Tag @ 4402' work up and down, then fell free. Finish RIH w/ 9 jts. Tag @ 4724'. POOH w/ 18 jts. SD above top perms @ 4100'.

NAME (PLEASE PRINT) <u><b>Kallasandra M. Moran</b></u>	TITLE <u><b>Engineering Analyst</b></u>
SIGNATURE	DATE <u><b>10/17/2006</b></u>

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**OCT 20 2006**

- 8/25/2006 - Blow down well, finish POOH w/ 127 jts, x-over, 7" bit & scrapper. PU and RIH w/ 7" packer, SN and 128 jts. Set packer @ 4110'. Load csg w/ 120 bbls water and test packer to 500 psi (held). Clean and service rig and equip.
- 8/28/2006 - RU Halliburton acid, pump acid job, RD Halliburton, RU swab equip, tagged fluid at 3900'. Made 7 runs, recovered approx 7 bbls of fluid. RD swab equip and release packer. POOH w/ 142 jts 2-7/8" tbg and packer. RIH w/ NC, 1 jt, 4' perf sub, SN, 17 jts 2-7/8" tbg, 7" x 2-7/8" TAC, 133 jts 2-7/8" tbg, 8' pup, 6' pup, 4' pup. RD floor and equip. ND BOP's, set TAC w/ 10 points tension, land tubing @ 4685'. NU wellhead.
- 8/29/2006 - RU swab equip, tag fluid at 3500', recovered approx 3 bbls. RD swab equip. RU floor and equip, change from tbg to rod equip. PU and test rod pump (2-1/2" x 1-1/2" x 24'). RIH, PU w/ 6 1" rods, 121 3/4" rods and run 57 7/8" rods out of basket. PU 2 8' x 7/8", 1 6' x 7/8" ponys and polish rod. Space out and seat pump. RU pumping unit, load tubing w/ 20 bbls of water, and start pumping unit. Well pumped up, RD rig and equip.

*Kumar*



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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: Blue Tip Castlegate, Inc. <i>N 3680</i>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 15810 Park Ten Place - Ste 160 CITY Houston STATE TX ZIP 77084		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (303) 979-6023		8. WELL NAME and NUMBER: See Attached List
4. LOCATION OF WELL FOOTAGES AT SURFACE:		9. API NUMBER:
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		10. FIELD AND POOL, OR WILDCAT:
COUNTY: Carbon		
STATE: UTAH		

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>4/1/2010</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

Blue Tip Castlegate, Inc. has acquired all of Pioneer Natural Resources USA, Inc's interest in the Castlegate Field - see attached well list. The effective date of change of operator is April 1, 2010.

*Betty Brown* 5/13/10  
Betty Brown Date  
Attorney-In-Fact  
Pioneer Natural Resources USA, Inc. *N 5155*  
1401 17th Street - Suite 1200  
Denver, CO 80202  
Phone: 303-675-2610

*Bruce L Taylor* 5/13/10  
Bruce L. Taylor Date  
Manager Vice President *BLT*  
Blue Tip Castlegate, Inc.  
15810 Park Ten Place - Suite 160  
Houston, TX 77084  
Telephone: 303-979-6023  
State Bond No.: B005639  
BLM Bond No.: B005638

NAME (PLEASE PRINT) <u>Bruce L. Taylor</u>	TITLE <u>Manager Vice President <i>BLT</i></u>
SIGNATURE <i>Bruce L Taylor</i>	DATE <u>5/13/10</u>

(This space for State use only)

**APPROVED** 6/30/2010  
*Earlene Russell*  
Earlene Russell  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

**RECEIVED**  
JUN 03 2010  
DIV. OF OIL, GAS & MINING

PIONEER NATURAL RESOURCES (N5155) to BLUE TIP CASTLEGATE (N3680)

well_name	sec	twp	rng	api	entity	lease	type	stat	C
SHIMMIN TRUST 5-14-12-10	14	120S	100E	4300730122	14175	Fee	GW	P	
CASTLEGATE FED 7-9-12-10	09	120S	100E	4300730137	12991	Federal	GW	P	
JENSEN 9-10-12-10	10	120S	100E	4300730159	12906	Fee	GW	P	
JENSEN 5-10-12-10	10	120S	100E	4300730162	12905	Fee	GW	S	
JENSEN 16-9-12-10	09	120S	100E	4300730163	12904	Fee	GW	P	
JENSEN 11-10-12-10	10	120S	100E	4300730164	11405	Fee	GW	P	
SHIMMIN TRUST 11-11-12-10	11	120S	100E	4300730166	11410	Fee	GW	P	
CASTLEGATE ST 1-16-12-10	16	120S	100E	4300730589	12610	State	GW	P	
JENSEN 1-10-12-10	10	120S	100E	4300730596	12611	Fee	GW	P	
SHIMMIN TRUST 2-11-12-10	11	120S	100E	4300730659	13070	Fee	GW	P	
SHIMMIN TRUST 4-14-12-10	14	120S	100E	4300730662	13071	Fee	GW	P	
SHIMMIN TRUST 1-11-12-10	11	120S	100E	4300730673	12901	Fee	GW	P	
JENSEN 2-10-12-10	10	120S	100E	4300730675	14225	Fee	GW	OPS	
JENSEN 1-9-12-10	09	120S	100E	4300730717	12903	Fee	GW	P	
JENSEN 1-18-12-10	18	120S	100E	4300730718	14226	Fee	GW	P	
JENSEN 1-4-12-10	04	120S	100E	4300730733	13068	Fee	GW	P	
JENSEN 2-8-12-10	08	120S	100E	4300730734	13275	Fee	GW	P	
JENSEN 2-9-12-10	09	120S	100E	4300730735	13317	Fee	GW	P	
JENSEN 1-15-12-10	15	120S	100E	4300730736	13072	Fee	GW	P	
JENSEN 1-8-12-10	08	120S	100E	4300730768	13359	Fee	GW	P	
CASTLEGATE ST 4-16-12-10	16	120S	100E	4300730785	13318	State	GW	P	
JENSEN DEEP 7-15-12-10	15	120S	100E	4300730786	13247	Fee	GW	S	
CASTLEGATE ST 11-16H-12-10	16	120S	100E	4300730961	14224	State	GW	S	
SHIMMIN 11-14-12-10	14	120S	100E	4300730962	14223	Fee	GW	OPS	
JENSEN 23C-9-12-10	09	120S	100E	4300731211	15770	Fee	GW	P	
JENSEN 33C-9-12-10	09	120S	100E	4300731212	15769	Fee	GW	P	
JENSEN 42C-9-12-10	09	120S	100E	4300731213	15766	Fee	GW	P	
JENSEN 43C-9-12-10	09	120S	100E	4300731214	15768	Fee	GW	P	C
CASTLEGATE FED 22C-9-12-10	09	120S	100E	4300731225	15767	Federal	GW	P	
JENSEN 41C-9-12-10	09	120S	100E	4300731452	17246	Fee	GW	OPS	C
JENSEN 14C-10-12-10	10	120S	100E	4300731453	17235	Fee	GW	P	
JENSEN FED 14C-3-12-10	03	120S	100E	4300731495		Federal	GW	APD	C
JENSEN FED 22C-10-12-10	10	120S	100E	4300731498		Federal	GW	APD	C
JENSEN FED 11C-10-12-10	10	120S	100E	4300731499		Federal	GW	APD	C
JENSEN 14C-4-12-10	04	120S	100E	4300731500		Fee	GW	APD	C
JENSEN 44C-4-12-10	04	120S	100E	4300731501		Fee	GW	APD	C
JENSEN 44C-5-12-10	05	120S	100E	4300731502		Fee	GW	APD	C
JENSEN 34C-9-12-10	09	120S	100E	4300731503		Fee	GW	APD	C
JENSEN 31C-9-12-10	09	120S	100E	4300731504		Fee	GW	APD	C
JENSEN 14C-9-12-10	09	120S	100E	4300731505		Fee	GW	APD	C
JENSEN 11C-9-12-10	09	120S	100E	4300731506		Fee	GW	APD	C
JENSEN 24C-9-12-10	09	120S	100E	4300731507		Fee	GW	APD	C
JENSEN ST 11C-34-11-9	34	110S	090E	4304930024	17071	State	GW	S	C

Division of Oil, Gas and Mining  
 Operator Change/Name Change Worksheet-for State use only

Effective Date: 7/1/2016

<b>FORMER OPERATOR:</b>	<b>NEW OPERATOR:</b>
Blue Tip Castlegate, Inc. 15810 Park Ten Place, Suite 160 Houston TX 77084	Liberty Pioneer Energy Sources, Inc. 1411 East 840 North Orem UT 84097
CA Number(s):	Unit(s): N/A

**WELL INFORMATION:**

Well Name	Sec	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
See Attached List									

**OPERATOR CHANGES DOCUMENTATION:**

1. Sundry or legal documentation was received from the **FORMER** operator on: 7/21/2016
2. Sundry or legal documentation was received from the **NEW** operator on: 7/21/2016
3. New operator Division of Corporations Business Number: 6353640-0143

**REVIEW:**

1. Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: N/A
2. Receipt of Acceptance of Drilling Procedures for APD on: N/A
3. Reports current for Production/Disposition & Sundries: 8/26/2016
4. OPS/SI/TA well(s) reviewed for full cost bonding: 8/26/2016
5. UIC5 on all disposal/injection/storage well(s) approved on: 8/26/2016
6. Surface Facility(s) included in operator change: N/A
7. Inspections of PA state/fee well sites complete on (only upon operators request): N/A

**NEW OPERATOR BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: ~~N/A~~ UTB000334
2. Indian well(s) covered by Bond Number: N/A
3. State/fee well(s) covered by Bond Number(s): RLB0012097

**DATA ENTRY:**

1. Well(s) update in the **OGIS** on: 8/26/2016
2. Entity Number(s) updated in **OGIS** on: 8/26/2016
3. Unit(s) operator number update in **OGIS** on: N/A
4. Surface Facilities update in **OGIS** on: N/A
5. State/Fee well(s) attached to bond(s) in **RBDMS** on: 8/26/2016
6. Surface Facilities update in **RBDMS** on: N/A

**COMMENTS:**

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From: Blue Tip Castlegate, Inc.  
 To: Liberty Pioneer Energy Source, Inc.  
 Effective: 7/1/2016

Well Name	Sec	TWN	RNG	API Number	Entity	Mineral	Surface	Type	Status
CASTLEGATE ST 1-35-12-10 WD	35	110S	100E	4301332308	13472	State	State	WD	A
JENSEN 9-10-12-10	10	120S	100E	4300730159	12906	Fee	Fee	GW	P
JENSEN 5-10-12-10	10	120S	100E	4300730162	12905	Fee	Fee	GW	P
JENSEN 16-9-12-10	9	120S	100E	4300730163	12904	Fee	Fee	GW	P
JENSEN 11-10-12-10	10	120S	100E	4300730164	11405	Fee	Fee	GW	P
CASTLEGATE ST 1-16-12-10	16	120S	100E	4300730589	12610	State	State	GW	P
JENSEN 1-10-12-10	10	120S	100E	4300730596	12611	Fee	Fee	GW	P
JENSEN 1-9-12-10	9	120S	100E	4300730717	12903	Fee	Fee	GW	P
JENSEN 2-9-12-10	9	120S	100E	4300730735	13317	Fee	Fee	GW	P
JENSEN 1-15-12-10	15	120S	100E	4300730736	13072	Fee	Fee	GW	P
JENSEN 1-8-12-10	8	120S	100E	4300730768	13359	Fee	Fee	GW	P
JENSEN DEEP 7-15-12-10	15	120S	100E	4300730786	13247	Fee	Fee	GW	P
JENSEN 23C-9-12-10	9	120S	100E	4300731211	15770	Fee	Fee	GW	P
JENSEN 33C-9-12-10	9	120S	100E	4300731212	15769	Fee	Fee	GW	P
JENSEN 43C-9-12-10	9	120S	100E	4300731214	15768	Fee	Fee	GW	P
CASTLEGATE FED 22C-9-12-10	9	120S	100E	4300731225	15767	Federal	Federal	GW	P
JENSEN 41C-9-12-10	9	120S	100E	4300731452	17246	Fee	Fee	GW	P
JENSEN 14C-10-12-10	10	120S	100E	4300731453	17235	Fee	Fee	GW	P
JENSEN FED 6-10-12-10	10	120S	100E	4300750177	18209	Federal	Fee	GW	P
SHIMMIN TRUST 5-14-12-10	14	120S	100E	4300730122	14175	Fee	Fee	GW	S
CASTLEGATE FED 7-9-12-10	9	120S	100E	4300730137	12991	Federal	Federal	GW	S
SHIMMIN TRUST 11-11-12-10	11	120S	100E	4300730166	11410	Fee	Fee	GW	S
SHIMMIN TRUST 2-11-12-10	11	120S	100E	4300730659	13070	Fee	Fee	GW	S
SHIMMIN TRUST 4-14-12-10	14	120S	100E	4300730662	13071	Fee	Fee	GW	S
SHIMMIN TRUST 1-11-12-10	11	120S	100E	4300730673	12901	Fee	Fee	GW	S
JENSEN 1-18-12-10	18	120S	100E	4300730718	14226	Fee	Fee	GW	S
JENSEN 1-4-12-10	4	120S	100E	4300730733	13068	Fee	Fee	GW	S
JENSEN 2-8-12-10	8	120S	100E	4300730734	13275	Fee	Fee	GW	S
CASTLEGATE ST 4-16-12-10	16	120S	100E	4300730785	13318	State	State	GW	S
CASTLEGATE ST 11-16H-12-10	16	120S	100E	4300730961	14224	State	State	GW	S
JENSEN 42C-9-12-10	9	120S	100E	4300731213	15766	Fee	Fee	GW	S
JENSEN 2C-9	9	120S	100E	4300750179	18242	Fee	Fee	GW	S
JENSEN ST 11C-34-11-9	34	110S	090E	4304930024	17071	State	Fee	GW	S

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: SEE ATTACHED LIST
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: <b>Liberty Pioneer Energy Source, Inc.</b>		8. WELL NAME and NUMBER: SEE ATTACHED LIST
3. ADDRESS OF OPERATOR: <b>1411 E 840 N</b> CITY <b>Orem</b> STATE <b>UT</b> ZIP <b>84097</b>		9. API NUMBER: SEE ATTACHED LIST
PHONE NUMBER: <b>(801)224-4771</b>		10. FIELD AND POOL, OR WILDCAT:
4. LOCATION OF WELL FOOTAGES AT SURFACE: SEE ATTACHED LIST		COUNTY:
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		STATE: <b>UTAH</b>

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

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

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

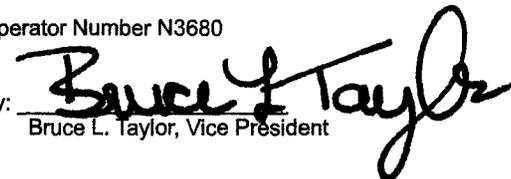
**CHANGE OF OPERATOR**

PREVIOUS OPERATOR:  
Blue Tip Castlegate, Inc. **N3680**  
15810 Park Ten Place - Suite 160  
Houston, TX 77084  
Phone (281) 994-3800

NEW OPERATOR:  
Liberty Pioneer Energy Source, Inc. **N2855**  
1411 East 840 North  
Orem, UT 84097  
Phone (801) 224-4771

Operator Number N3680

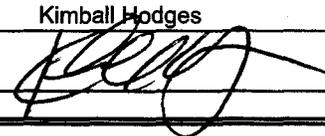
Operator Number N2855

By:   
Bruce L. Taylor, Vice President

**RECEIVED**  
**JUL 21 2016**

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

Be advised that Liberty Pioneer Energy Source, Inc. is responsible under the terms and conditions of the related leases for the operations conducted upon the leased lands. Bond coverage is covered by Bond No. RLB0012097.

NAME (PLEASE PRINT) <u>Kimball Hodges</u>	TITLE <u>Vice President of Liberty Pioneer Energy Source, Inc.</u>
SIGNATURE 	DATE <u>7/18/16</u>

(This space for State use only)

**APPROVED**

**AUG 26 2016**

DIV. OIL GAS & MINING  
BY: Rachael Medema

ATTACHED LIST to Change of Operator Sundry Notice

BTC WELL NUMBER	WELL NAME AND NUMBER	LEGAL DESCRIPTION	OPERATOR	API	COUNTY	STATE
2080001	JENSEN 1-4-12-10	Salt Lake Meridian T12S R10E Sec 04: SWSE	BLUE TIP CASTLEGATE INC.	43-007-30733-0000	CARBON	UTAH
2080002	JENSEN 1-8-12-10	Salt Lake Meridian T12S R10E Sec 08: NESE	BLUE TIP CASTLEGATE INC.	43-007-30768-0000	CARBON	UTAH
2080003	JENSEN 2-8-12-10	Salt Lake Meridian T12S R10E Sec 08: NENE	BLUE TIP CASTLEGATE INC.	43-007-30734-0000	CARBON	UTAH
2080004	CASTLEGATE FED 22C-9-12-10	Salt Lake Meridian T12S R10E Sec 09: SENW	BLUE TIP CASTLEGATE INC.	43-007-31225-0000	CARBON	UTAH
2080005	CASTLEGATE FED 7-9-12-10	Salt Lake Meridian T12S R10E Sec 09: SWNE	BLUE TIP CASTLEGATE INC.	43-007-30137-0000	CARBON	UTAH
2080006	JENSEN 1-9-12-10	Salt Lake Meridian T12S R10E Sec 09: NWSW	BLUE TIP CASTLEGATE INC.	43-007-30717-0000	CARBON	UTAH
2080007	JENSEN 2-9-12-10	Salt Lake Meridian T12S R10E Sec 09: NENW	BLUE TIP CASTLEGATE INC.	43-007-30735-0000	CARBON	UTAH
2080008	JENSEN 16-9-12-10	Salt Lake Meridian T12S R10E Sec 09: SESE	BLUE TIP CASTLEGATE INC.	43-007-30163-0000	CARBON	UTAH
2080009	JENSEN 23C-9-12-10	Salt Lake Meridian T12S R10E Sec 09: NESW	BLUE TIP CASTLEGATE INC.	43-007-31211-0000	CARBON	UTAH
2080010	JENSEN 33C-9-12-10	Salt Lake Meridian T12S R10E Sec 09: NWSE	BLUE TIP CASTLEGATE INC.	43-007-31212-0000	CARBON	UTAH
2080011	JENSEN 42C-9-12-10	Salt Lake Meridian T12S R10E Sec 09: SENE	BLUE TIP CASTLEGATE INC.	43-007-31213-0000	CARBON	UTAH
2080012	JENSEN 43C-9-12-10	Salt Lake Meridian T12S R10E Sec 09: NESE	BLUE TIP CASTLEGATE INC.	43-007-31214-0000	CARBON	UTAH
2080013	JENSEN 1-10-12-10	Salt Lake Meridian T12S R10E Sec 10: NWSW	BLUE TIP CASTLEGATE INC.	43-007-30596-0000	CARBON	UTAH
2080014	JENSEN 5-10-12-10	Salt Lake Meridian T12S R10E Sec 10: SWNW	BLUE TIP CASTLEGATE INC.	43-007-30162-0000	CARBON	UTAH
2080015	JENSEN 11-10-12-10	Salt Lake Meridian T12S R10E Sec 10: NESW	BLUE TIP CASTLEGATE INC.	43-007-30164-0000	CARBON	UTAH

ATTACHED LIST to Change of Operator Sundry Notice

BTC WELL NUMBER	WELL NAME AND NUMBER	LEGAL DESCRIPTION	OPERATOR	API	COUNTY	STATE
2080016	JENSEN 14C-10-12-10	Salt Lake Meridian T12S R10E Sec 10: SWSW	BLUE TIP CASTLEGATE INC.	43-007-31453-0000	CARBON	UTAH
2080017	SHIMMIN TRUST 1-11-12-10	Salt Lake Meridian T12S R10E Sec 11: SWSW	BLUE TIP CASTLEGATE INC.	43-007-30673-0000	CARBON	UTAH
2080018	SHIMMIN TRUST 2-11-12-10	Salt Lake Meridian T12S R10E Sec 11: SESE	BLUE TIP CASTLEGATE INC.	43-007-30659-0000	CARBON	UTAH
2080019	SHIMMIN TRUST 4-14-12-10	Salt Lake Meridian T12S R10E Sec 14: SENW	BLUE TIP CASTLEGATE INC.	43-007-30662-0000	CARBON	UTAH
2080020	SHIMMIN TRUST 5-14-12-10	Salt Lake Meridian T12S R10E Sec 14: NWNE	BLUE TIP CASTLEGATE INC.	43-007-30122-0000	CARBON	UTAH
2080021	JENSEN 1-15-12-10	Salt Lake Meridian T12S R10E Sec 15: SWNE	BLUE TIP CASTLEGATE INC.	43-007-30736-0000	CARBON	UTAH
2080022	JENSEN DEEP 7-15-12-10	Salt Lake Meridian T12S R10E Sec 15: SWNE	BLUE TIP CASTLEGATE INC.	43-007-30786-0000	CARBON	UTAH
2080023	CASTLEGATE ST 1-16-12-10	Salt Lake Meridian T12S R10E Sec 16: NWNE	BLUE TIP CASTLEGATE INC.	43-007-30589-0000	CARBON	UTAH
2080024	CASTLEGATE ST 4-16-12-10	Salt Lake Meridian T12S R10E Sec 16: SENW	BLUE TIP CASTLEGATE INC.	43-007-30785-0000	CARBON	UTAH
2080025	JENSEN 1-18-12-10	Salt Lake Meridian T12S R10E Sec 18: NESE	BLUE TIP CASTLEGATE INC.	43-007-30718-0000	CARBON	UTAH
2080026	CASTLEGATE ST 1-35-12-10 WD	Salt Lake Meridian T11S R10E Sec 35: SWSW	BLUE TIP CASTLEGATE INC.	43-013-32308-0000	DUCHESNE	UTAH
2080027	CASTLEGATE ST 11-16H-12-10	Salt Lake Meridian T12S R10E Sec 16: NWNW	BLUE TIP CASTLEGATE INC.	43-007-30961-0000	CARBON	UTAH
2080028	JENSEN STATE 11C-34-11-9	Salt Lake Meridian T11S R9E Sec 34: NWNW	BLUE TIP CASTLEGATE INC.	43-049-30024-0000	UTAH	UTAH
2080030	JENSEN 41C-9-12-10	Salt Lake Meridian T12S R10E Sec 09: NENE	BLUE TIP CASTLEGATE INC.	43-007-31452-0000	CARBON	UTAH

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ATTACHED LIST to Change of Operator Sundry Notice

BTC WELL NUMBER	WELL NAME AND NUMBER	LEGAL DESCRIPTION	OPERATOR	API	COUNTY	STATE
2080032	JENSEN 9-10-12-10	Salt Lake Meridian T12S R10E Sec 10: NESE	BLUE TIP CASTLEGATE INC.	43-007-30159-0000	CARBON	UTAH
2080033	SHIMMIN TRUST 11-11-12-10	Salt Lake Meridian T12S R10E Sec 11: NESW	BLUE TIP CASTLEGATE INC.	43-007-30166-0000	CARBON	UTAH
2080042	JENSEN 2C-9-12-10	Salt Lake Meridian T12S R10E Sec 9: NW4NE4	BLUE TIP CASTLEGATE INC.	43-007-01790-0000 50179	CARBON	UTAH
2080043	JENSEN FED 6-10-12-10	Salt Lake Meridian T12S R10E Sec 6: SE4NW4	BLUE TIP CASTLEGATE INC.	43-007-50177-0000	CARBON	UTAH

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

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number Castlegate St 1-35-12-10	API Number 4301332308
Location of Well Footage : 540' FSL, 1135' FWL County : Duchesne QQ, Section, Township, Range: SWSW 35 11S 10E State : UTAH	Field or Unit Name Castlegate Lease Designation and Number ML-48822

EFFECTIVE DATE OF TRANSFER: 7/1/2016

**CURRENT OPERATOR**

Company: <u>Blue Tip Castlegate, Inc.</u>	Name: <u>Bruce L. Taylor</u>
Address: <u>P. O. Box 842317</u>	Signature: <u><i>Bruce L. Taylor</i></u>
<u>city</u> <u>Houston</u> <u>state</u> <u>TX</u> <u>zip</u> <u>77284</u>	Title: <u>Secretary</u>
Phone: <u>(281) 944-3800</u>	Date: <u>7/1/2016</u>
Comments:	

**NEW OPERATOR**

Company: <u>WEM Castlegate, LLC</u>	Name: <u>Cory Kusen</u>
Address: <u>1411 East 840 North</u>	Signature: <u><i>Cory Kusen</i></u>
<u>city</u> <u>Orem</u> <u>state</u> <u>UT</u> <u>zip</u> <u>84097</u>	Title: <u>Manager</u>
Phone: _____	Date: <u>7/1/16</u>
Comments:	

(This space for State use only)

Transfer approved by: *Don Juan*  
Title: UIC Geologist

Approval Date: 8/3/16

Comments:

RECEIVED  
JUL 21 2016



Dustin K. Doucet  
Petroleum Engineer  
Division of Oil, Gas and Mining  
1594 West North Temple, Ste 1210  
Salt Lake City, Utah 84116

RE: Bonding for Castlegate Field Wells

August 15, 2016

Dustin:

Blue Tip Energy Management, LLC was the previous operator and bondholder of the Castle Gate Field and associated wells listed below. Liberty Pioneer Energy Source, Inc. ("LPES") has submitted the necessary paperwork to take over as the new operator of these wells. Per our recent communications we would like to make the following proposal pertaining to the bonding of the wells listed below so that all of the wells in the field will be covered by LPES blanket bond #RLB0012097.

1) LPES plans to P&A the following wells prior to November 1, 2016:

13318 CASTLEGATE ST 4-16-12-10  
14224 CASTLEGATE ST 11-16H-12-10

2) LPES is currently getting pricing to build a pipeline to the following well which is believed to be capable of production. If pricing is reasonable, LPES will propose production testing and flaring. We will notify you of our decision to either run a pipeline or plug and abandon this well before the end of 2016. If the decision is to produce, LPES will commence the pipeline permitting process before the end of 2016:

17071 JENSEN STATE 11C-34-11-9

3) Wells that are currently producing or will be returned to producing status by October 1, 2016:

13070 SHIMMIN TRUST 2-11-12-10  
13275 JENSEN 2-8-12-10  
13071 SHIMMIN TRUST 4-14-12-10  
13068 JENSEN 1-4-12-10  
18242 JENSEN 2C-9-12-10  
12991 CASTLEGATE FED 7-9-12-10  
11405 JENSEN 11-10-12-10  
12610 CASTLEGATE ST 1-16-12-10  
12611 JENSEN 1-10-12-10  
12903 JENSEN 1-9-12-10  
12904 JENSEN 16-9-12-10  
12905 JENSEN 5-10-12-10  
12906 JENSEN 9-10-12-10  
13072 JENSEN 1-15-12-10  
13247 JENSEN DEEP 7-15-12-10  
13317 JENSEN 2-9-12-10  
13359 JENSEN 1-8-12-10  
15766 JENSEN 42C-9-12-10  
15767 CASTLEGATE FED 22C-9-12-10  
15768 JENSEN 43C-9-12-10  
15769 JENSEN 33C-9-12-10  
15770 JENSEN 23C-9-12-10  
17235 JENSEN 14C-10-12-10  
17246 JENSEN 41C-9-12-10  
14226 JENSEN 1-18-12-10  
11410 SHIMMIN TRUST 11-11-12-10  
12901 SHIMMIN TRUST 1-11-12-10  
14175 SHIMMIN TRUST 5-14-12-10  
18209 JENSEN 6-10-12-10

Thanks for your help. Please let us know if you have any questions.

Sincerely,



Daniel R. Gunnell  
President  
Liberty Pioneer Energy Source, Inc.  
1411 East 840 North  
Orem, UT 84097



Rachel Medina &lt;rachelmedina@utah.gov&gt;

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**Fwd: LPES plans for the Castlegate field wells/Bonding**

2 messages

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**Dayne Doucet** <daynedoucet@utah.gov>

Wed, Aug 17, 2016 at 11:46 AM

To: Rachel Medina &lt;rachelmedina@utah.gov&gt;, Randy Thackeray &lt;randythackeray@utah.gov&gt;

FYI

----- Forwarded message -----

From: **Daniel Gunnell** <dgunnell@rockiesstandard.com>

Date: Wed, Aug 17, 2016 at 9:40 AM

Subject: Re: LPES plans for the Castlegate field wells/Bonding

To: Dustin Doucet &lt;dustindoucet@utah.gov&gt;

Cc: Brad Gunnell &lt;bgunnell@rockiesstandard.com&gt;, Cory Jensen &lt;cjensen@rockiesstandard.com&gt;, Kimball Hodges &lt;khodges@rockiesstandard.com&gt;, Dayne Doucet &lt;daynedoucet@utah.gov&gt;, Joshua Payne &lt;joshuapayne@utah.gov&gt;

Dustin:

Thanks for your help with this! Please find Bond Proposal Letter attached.

If there is anything else you need please let me know. The Blue Tip guys are anxious to get their bond released.

Let me know if I need to send a hard copy of the letter.

Best,

Danny

On Mon, Aug 8, 2016 at 9:24 AM, Dustin Doucet &lt;dustindoucet@utah.gov&gt; wrote:

Danny,

Yes if you would just edit your previous plan and resubmit so there is no confusion. I think that would make it cleaner. If you decide to put a well online and have it online by the plugging deadline, then that should be fine.

Dustin

On Tue, Aug 2, 2016 at 4:31 PM, Daniel Gunnell &lt;dgunnell@rockiesstandard.com&gt; wrote:

Dustin:

Sorry for not getting back to you on this until now. There maybe a couple of wells that we may come back to you specifically on, but I think that we have now got a pretty good go forward plan that will meet and exceed your end of the year time frame for getting the wells in categories 2 and 3 in production.

There is one material change to my previous email that we want to make you aware of - instead of plugging the 11C-34 we are seriously considering running a pipeline to it and bringing online... not a final decision yet, but we are have got and are getting additional bids, and designing a test plan to better understand what production would look like.

Do I need to submit a formal letter with dates of Nov 1 for plugging and end of year to get wells on production under our existing bonds or are these emails sufficient?

Thanks for your help!

Best,

Danny

What time do you think you need? I would think by the end of the year max. If you can line out more justification, I'm open to listening to the reasoning.

Dustin

On Thu, Jun 30, 2016 at 12:21 PM, Daniel Gunnell <dgunnell@rockiesstandard.com> wrote:  
Dustin:

Sounds good. Thanks for your help.

Can we push back just a little to get as much time as possible for shut in wells that we need to come up with a plan for or plug (#2 in my original email?) - how much beyond Oct 2016 could you give us? We are going to be really busy so as much extra time as you can give really helps... we are reclaiming those evaporation ponds immediately, taking over operations, retrofitting the plant, plugging the identified wells, and ramping up production by reworking multiple shut-in wells that are we have already reviewed.

Let me know and thanks again.

Best,

Danny

On Thu, Jun 30, 2016 at 10:30 AM, Dustin Doucet <dustindoucet@utah.gov> wrote:  
Danny,

I would be o.k. with the timing and plan on part 1. The timing on part 2 does not work. Those have been SI/TA anywhere from 2.5 to 5 years. Did you mean October 2016? Our discussions were if you had a plan to produce or plug within a short period (meaning a few months), then we could forego increased bonding but increased bonding would be necessary if that wasn't accomplished. Part 3 would be similar to part 2 on the wells that have been SI/TA. The producing ones would probably be fine as you have 1 year allowed by rule (see below).

Production data through Jan 2016

13070	SHIMMIN TRUST 2-11-12-10	<u>SI since Sep 2014</u>
13275	JENSEN 2-8-12-10	<u>SI since Nov 2015</u>
13071	SHIMMIN TRUST 4-14-12-10	<u>SI since Dec 2015</u>
13068	JENSEN 1-4-12-10	<u>Produced 1 day in Jan 2016</u>
18242	JENSEN 2C-9-12-10	<u>Producing</u>
12991	CASTLEGATE FED 7-9-12-10	<u>Producing</u>
11405	JENSEN 11-10-12-10	<u>Producing</u>
12610	CASTLEGATE ST 1-16-12-10	<u>Producing</u>
12611	JENSEN 1-10-12-10	<u>Producing</u>
12903	JENSEN 1-9-12-10	<u>Producing</u>
12904	JENSEN 16-9-12-10	<u>Producing</u>
12905	JENSEN 5-10-12-10	<u>Producing</u>
12906	JENSEN 9-10-12-10	<u>Producing</u>
13072	JENSEN 1-15-12-10	<u>Produced 1 day in Jan 2016</u>
13247	JENSEN DEEP 7-15-12-10	<u>Produced 1 day in Jan 2016</u>

13359 JENSEN 1-8-12-10 Producing  
15766 JENSEN 42C-9-12-10 Producing  
15767 CASTLEGATE FED 22C-9-12-10 Producing  
15768 JENSEN 43C-9-12-10 Producing  
15769 JENSEN 33C-9-12-10 Producing  
15770 JENSEN 23C-9-12-10 SI since Nov 2015  
17235 JENSEN 14C-10-12-10 Producing  
17246 JENSEN 41C-9-12-10 Producing  
18209 JENSEN 6-10-12-10 Producing

On Fri, Jun 24, 2016 at 11:28 AM, Daniel Gunnell <dgunnell@rockiesstandard.com> wrote:

Dustin:

Per our recent conversation, I wanted to informally run our plans/bonding proposal for the Castle Gate Field by you for your comment prior to submitting a final proposal. Here is what we are considering:

Blue Tip Energy Management, LLC ("Blue Tip"), is the current operator and bondholder, of the Castle Gate Field and associated wells listed below ("Wells"). LPES should take over as the new operator effective July 1 2016. In anticipation of the transfer of operations and per our recent phone conversation we would like to make the following proposal pertaining to the LPES bonding of the wells listed below so that all of the wells in the field will be covered by LPES blanket bond #RLB0012097.

1) LPES will P&A the following wells prior to November 1, 2016:

17071 JENSEN STATE 11C-34-11-9  
14224 CASTLEGATE ST 11-16H-12-10

2) LPES will evaluate and propose a go forward plan after evaluation on the following shut-in wells prior to October 1 2017:

13318 CASTLEGATE ST 4-16-12-10  
14226 JENSEN 1-18-12-10  
11410 SHIMMIN TRUST 11-11-12-10  
12901 SHIMMIN TRUST 1-11-12-10  
14175 SHIMMIN TRUST 5-14-12-10

13070 SHIMMIN TRUST 2-11-12-10

13275 JENSEN 2-8-12-10

13071 SHIMMIN TRUST 4-14-12-10

13068 JENSEN 1-4-12-10

18242 JENSEN 2C-9-12-10

12991 CASTLEGATE FED 7-9-12-10

11405 JENSEN 11-10-12-10

12610 CASTLEGATE ST 1-16-12-10

12611 JENSEN 1-10-12-10

12903 JENSEN 1-9-12-10

12904 JENSEN 16-9-12-10

12905 JENSEN 5-10-12-10

12906 JENSEN 9-10-12-10

13072 JENSEN 1-15-12-10

13247 JENSEN DEEP 7-15-12-10

13317 JENSEN 2-9-12-10

13359 JENSEN 1-8-12-10

15766 JENSEN 42C-9-12-10

15767 CASTLEGATE FED 22C-9-12-10

15768 JENSEN 43C-9-12-10

15769 JENSEN 33C-9-12-10

15770 JENSEN 23C-9-12-10

17235 JENSEN 14C-10-12-10

17246 JENSEN 41C-9-12-10

18209 JENSEN 6-10-12-10

If this proposal is acceptable please let me know and I will submit a formal letter for approval. Thanks for your help.

Best,

Danny

—

Daniel R. Gunnell  
1411 East 840 North  
Orem, UT 84097  
(801) 224-4771

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--  
Dayne Doucet  
Petroleum Engineer  
UDOGM  
801-538-5303

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 **Statewide Bond Proposal.pdf**  
421K

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**Dustin Doucet** <[dustindoucet@utah.gov](mailto:dustindoucet@utah.gov)>

Wed, Aug 17, 2016 at 2:01 PM

To: Daniel Gunnell <[dgunnell@rockiesstandard.com](mailto:dgunnell@rockiesstandard.com)>, Rachel Medina <[rachelmedina@utah.gov](mailto:rachelmedina@utah.gov)>

Cc: Brad Gunnell <[bgunnell@rockiesstandard.com](mailto:bgunnell@rockiesstandard.com)>, Cory Jensen <[cjensen@rockiesstandard.com](mailto:cjensen@rockiesstandard.com)>, Kimball Hodges <[khodges@rockiesstandard.com](mailto:khodges@rockiesstandard.com)>, Dayne Doucet <[daynedoucet@utah.gov](mailto:daynedoucet@utah.gov)>, Joshua Payne <[joshuapayne@utah.gov](mailto:joshuapayne@utah.gov)>

Danny,

I think that looks fine. If the deadlines aren't met we will be looking for full cost bonding in addition to getting the wells back into compliance. I have copied Rachel Medina on this email so she can proceed with the operator change with this plan and conditions. thanks.