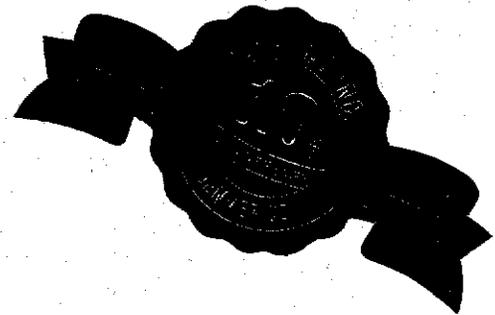


GEOLOGIC TOPS:

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

3433'
Kendworth 41147



August 3, 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
#16-10 Jensen
330' FSL and 330' 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

A rectangular stamp with the word 'RECEIVED' in a bold, blocky font, slanted slightly upwards to the right.

AUG 05 1992

Permitco Incorporated
A Petroleum Permitting Company

DIVISION OF
OIL GAS & MINING

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

(Other instructions on reverse side)

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. Lease Designation and Serial No. _____

6. Indian, Allottee or Tribe Name N/A

7. Unit Agreement Name N/A

8. Farm or Lease Name Jensen

9. Well No. #16-10

10. Field and Pool, or Wildcat Wildcat

11. Sec., T., R., M., or Blk. and Survey or Area Sec. 10, T12S - R10E

1a. Type of Work
 DRILL DEEPEN PLUG BACK

1b. Type of Well
 Oil Well Gas Well Other Coalbed Methane
 Single Zone Multiple Zone

2. Name of Operator PG & E Resources Company 214/750-3800 5950 Berkshire Lane, #600 Dallas, TX 75225

3. Address of Operator 303/452-8888 13585 Jackson Drive Denver, CO 80241

4. Location of Well (Report location clearly and in accordance with any State requirements.)*
 At surface 330' FSL and 330' FEL (Exceptional)
 At proposed prod. zone SE SE Sec. 10

14. Distance in miles and direction from nearest town or post office* 15 miles north of Price, Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. line, if any) 330'

16. No. of acres in lease 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. approx. 2300'

19. Proposed depth 4575'

20. Rotary or cable tools Rotary

21. Elevations (Show whether DF, RT, GR, etc.) 7262' GR

22. Approx. date work will start* Immediately upon approval of this application

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12-1/4"	8-5/8"	24#	500'	350 sx or suffic to circ to surf.
7-7/8"	5-1/2"	17#	4575'	440 sx, stage tool at 3200'

RECEIVED

AUG 05 1992

PG & E Resources Company proposes to drill a well to 4575' 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 requirements of Utah.

TECHNICAL REVIEW
 Engr. [Signature] 8/25/92
 Geol. [Signature] 8/11/92
 Surface [Signature] 8/10/92

See Drilling Program attached.

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

This location was staked at non-standard footages in accordance with the rules and regulations of the Div. of Oil, Gas & Mining. These footages were selected based on geologic considerations. PG & E Resources Company is the lease interest holder of all lands within a 1/2 mile radius. Therefore, we request administrative approval of this location at non-standard spacing.

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
 Signed: [Signature] Title: _____ Date: 8/3/92

(This space for Federal or State office use)

Permit No. 43-007-30161 Approval Date _____

Approved by _____ Title _____ DATE: 8-25-92
 BY: [Signature]
 WELL SPACING: 649-3-3

*See Instructions On Reverse Side

PG&E RESOURCES COMPANY

Well location, #16-10 JENSEN, located as shown in the SE 1/4 SE 1/4 of Section 10, T12S, R10E, S.L.B.&M. Carbon County, Utah.

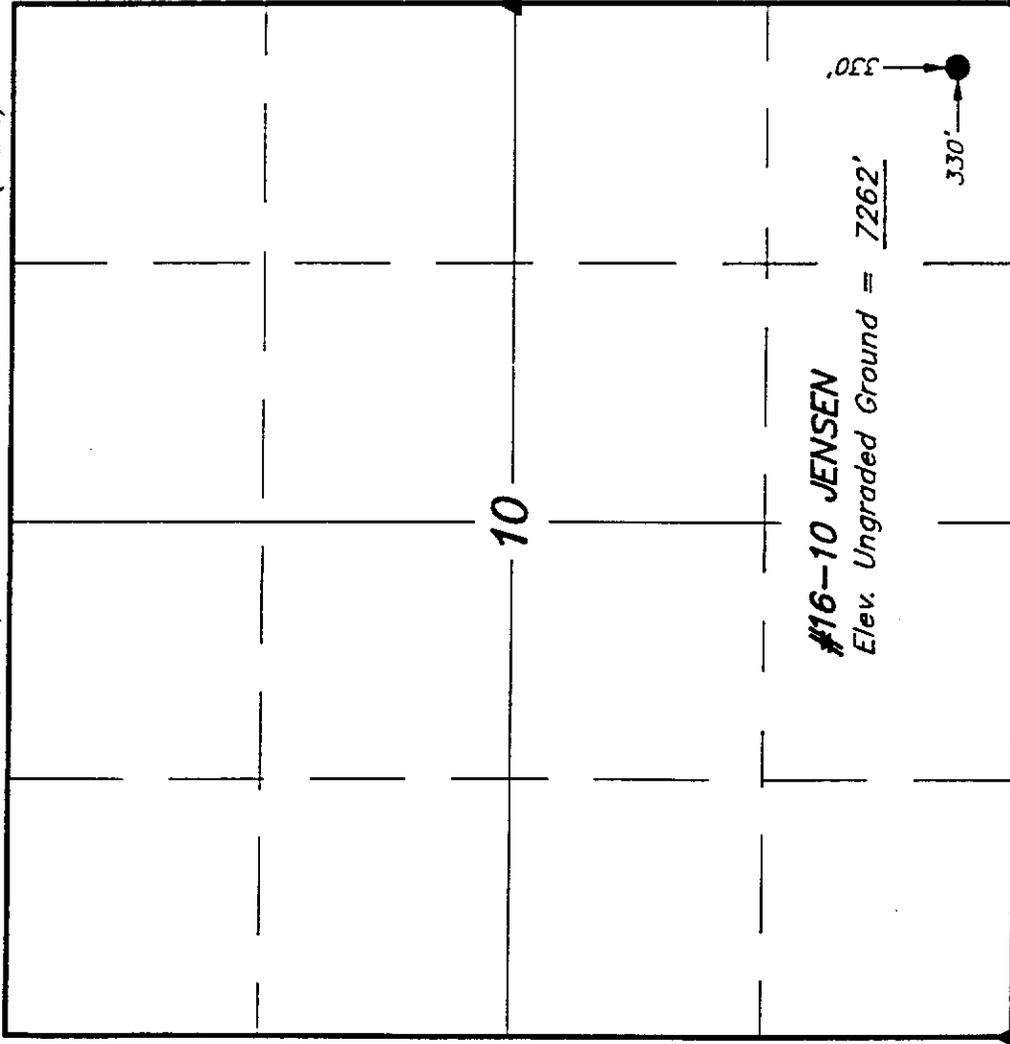
T12S, R10E, S.L.B.&M.

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.

N89°05'W - 40.68 (G.L.O.)

N88°56'W - 40.47 (G.L.O.)

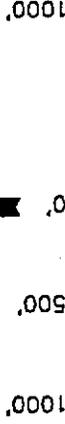
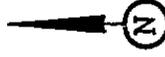


N07°E - 40.18 (G.L.O.)

N017°E - 40.18 (G.L.O.)

N0213°E - 40.27 (G.L.O.)

N05°W - G.L.O. (Basis of Bearings)
2697.09' (Measured)



SCALE

CERTIFICATE

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

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

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

LEGEND:

┌ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED. (1923 Brass Caps)

1" = 1000'

DATE SURVEYED:
7-16-92

DATE DRAWN:
7-19-92

PARTY

D.A. K.K. J.L.G.

REFERENCES

G.L.O. PLAT

WEATHER

HOT

FILE

PG&E RESOURCES

CONFIDENTIAL - TIGHT HOLE

#16-10 JENSEN
330' FSL and 330' FEL
SE 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

1. Formation Tops

The estimated tops of important geologic markers are as follows:

<u>Formation</u>	<u>Depth</u>
Flagstaff	Surface
Price River	2597'
Castlegate	3051'
Blackhawk	3347'
Kenilworth (S.P. I)	4074'
Aberdeen (S.P. II)	4275'
T.D.	4575'

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"	8-5/8"	24#	K-55
Produc.	0-4575'	7-7/8"	5-1/2"	17#	N-80

Casing design subject to revision based on geologic conditions encountered.

3. Cement Program

The cement program will be as follows:

<u>Surface</u>	<u>Type and Amount</u>
0-500'	Cement to surface with 350 sx Premium Cement + 2% CaCl ₂ + 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: 240 sx 50/50 Pozmix + 2% Gel + .25% Flocele. Second Stage: 200 sx Silica Lite + 4% Gel + 4% CaCl₂.

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
3500-4575'	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. No drill stem tests are planned.
- b. The logging program will consist of a Cased Hole Dual Spaced Neutron w/Gamma Ray, 2" & 5" from T.D. to Base of Surface Casing and an Acoustic CBL/CCL, - 5" from T. D. to Base of Surface casing.
- c. No cores are anticipated.

6. Spud Date/Drilling Time

- a. Drilling is planned to commence upon approval of this application.



- b. It is anticipated that the drilling of this well will take approximately 16 days (4 days - Spudder rig; 12 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.

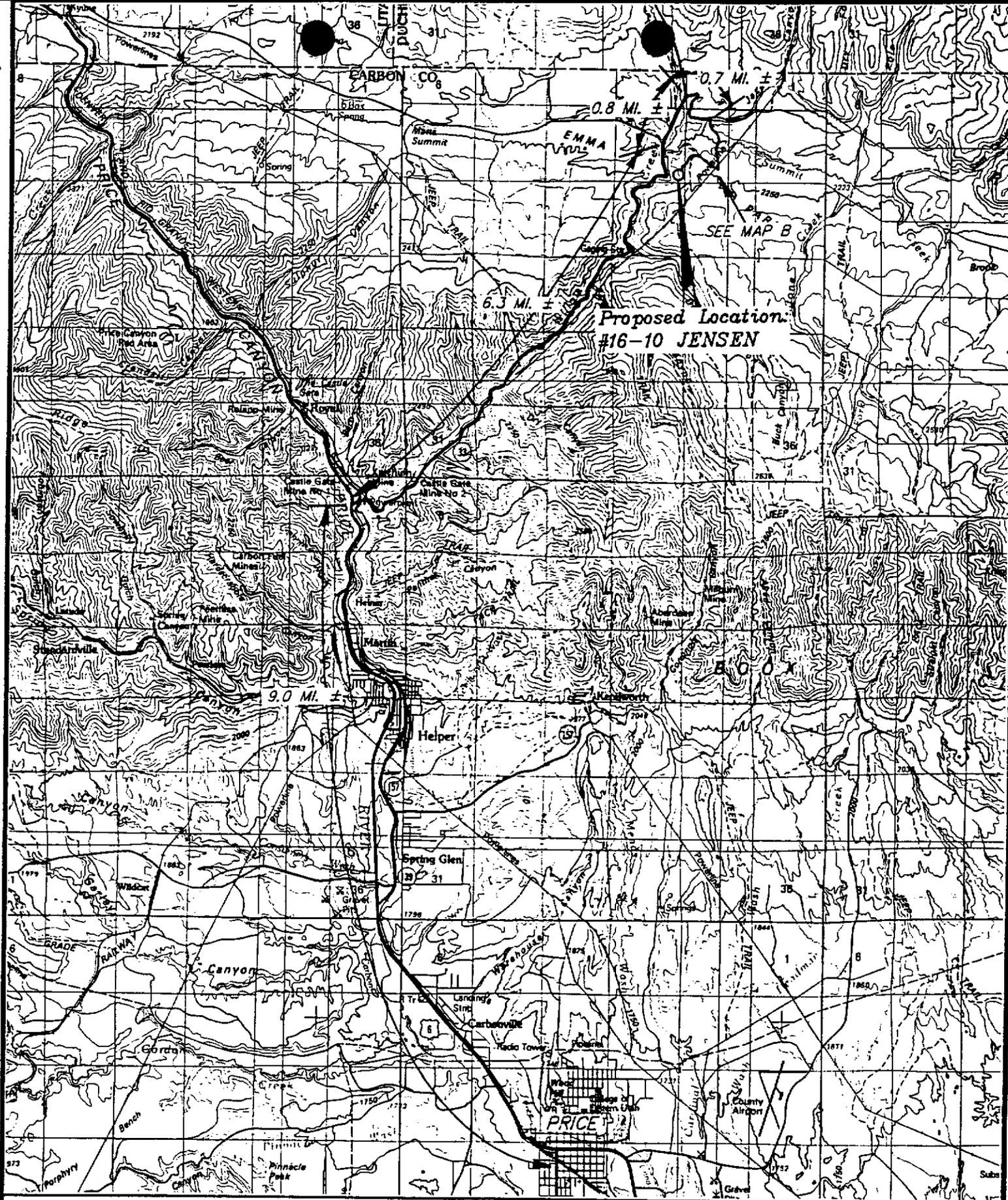
- a. The size and rating of the BOP stack is shown on the attached diagram.
- b. A choke line and a kill line are to be properly installed. The kill line is not to be used as a fill-up line.



- 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 1986 psi (.434 psi/ft). The maximum surface pressure is 979 psi (based on partially evacuated hole at 0.22 psi/ft.)
- b. No hydrogen sulfide gas or abnormal pressures are anticipated.



TOPOGRAPHIC
MAP "A"

DATE 7-19-92 J.L.G.

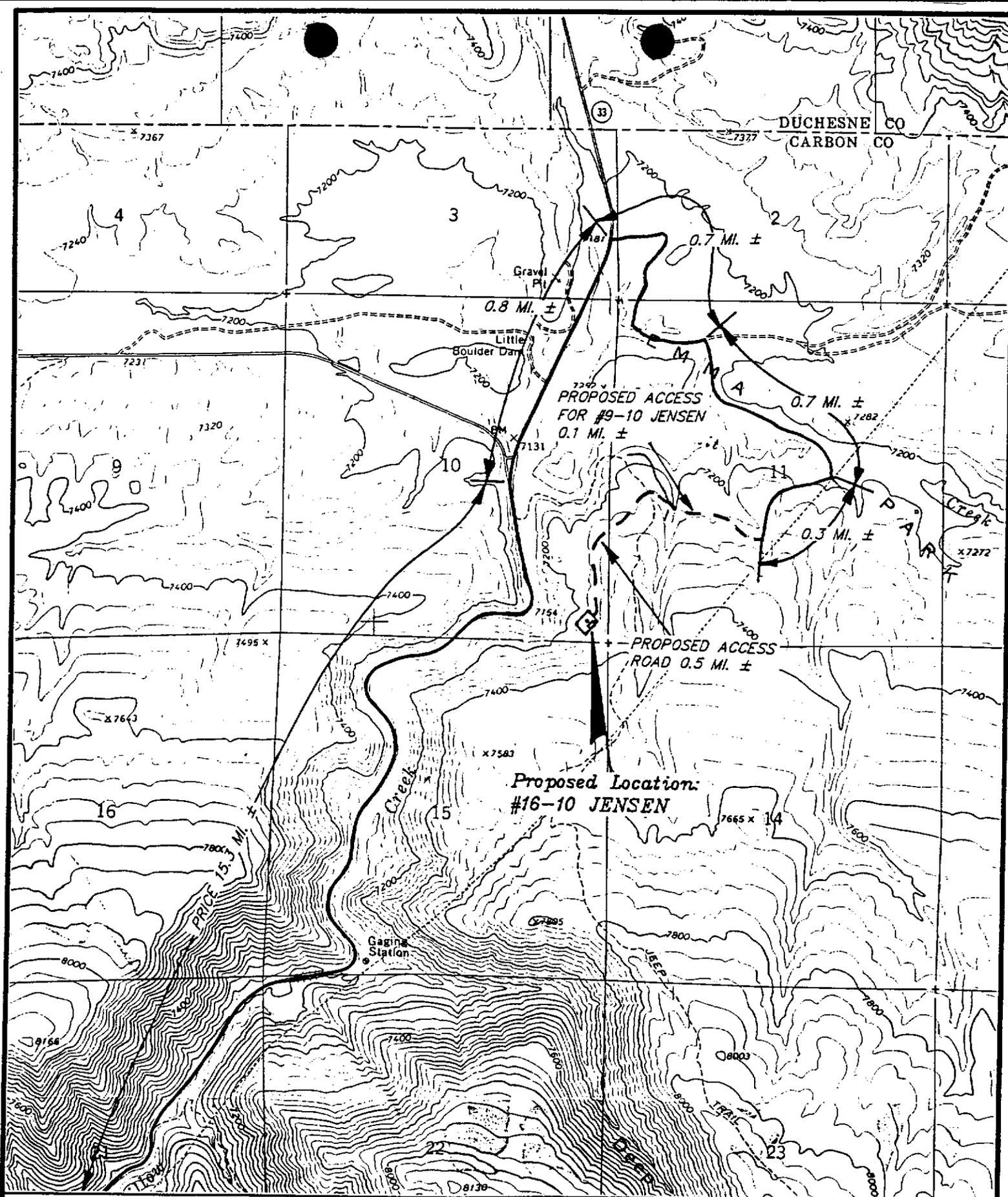


PG&E RESOURCES COMPANY

#16-10 JENSEN

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

330' FSL 330' FEL



TOPOGRAPHIC

MAP "B"

SCALE: 1" = 2000'

DATE 7-19-92 J.L.G.

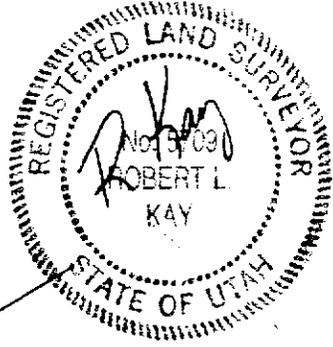


PG&E RESOURCES COMPANY

#16-10 JENSEN

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

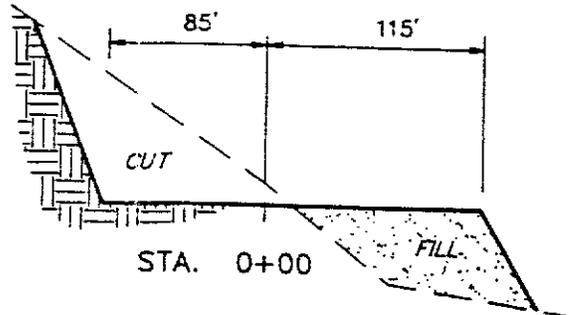
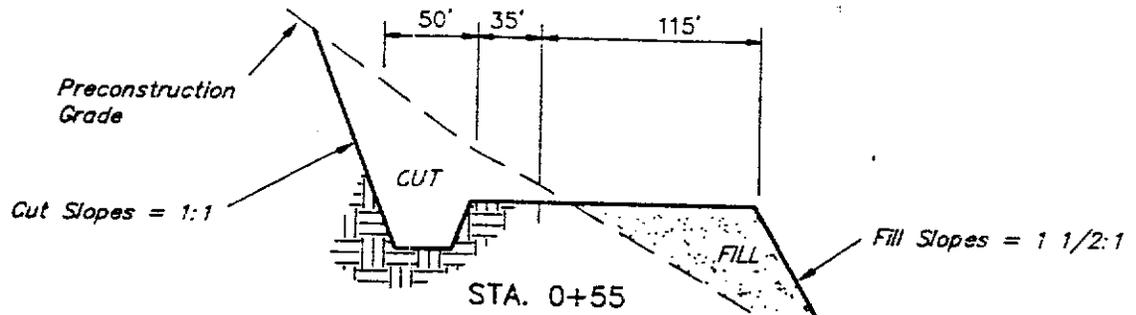
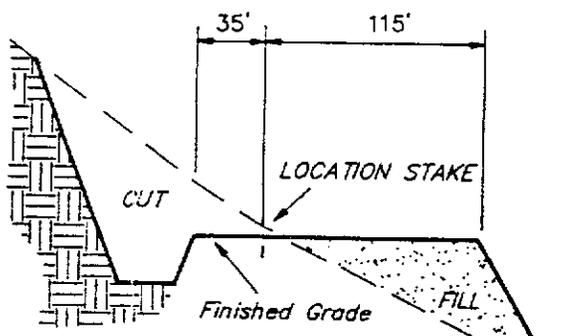
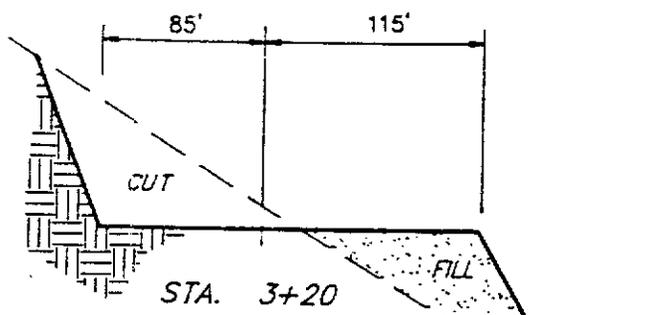
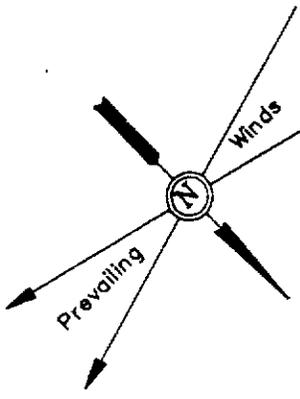
330' FSL 330' FEL



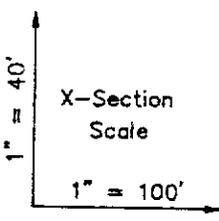
P.G.&E. RESOURCES CO.

LOCATION LAYOUT FOR

#16-10 JENSEN
SECTION 10, T12S, R10E, S.L.B.&M.
330' FSL 330' FEL



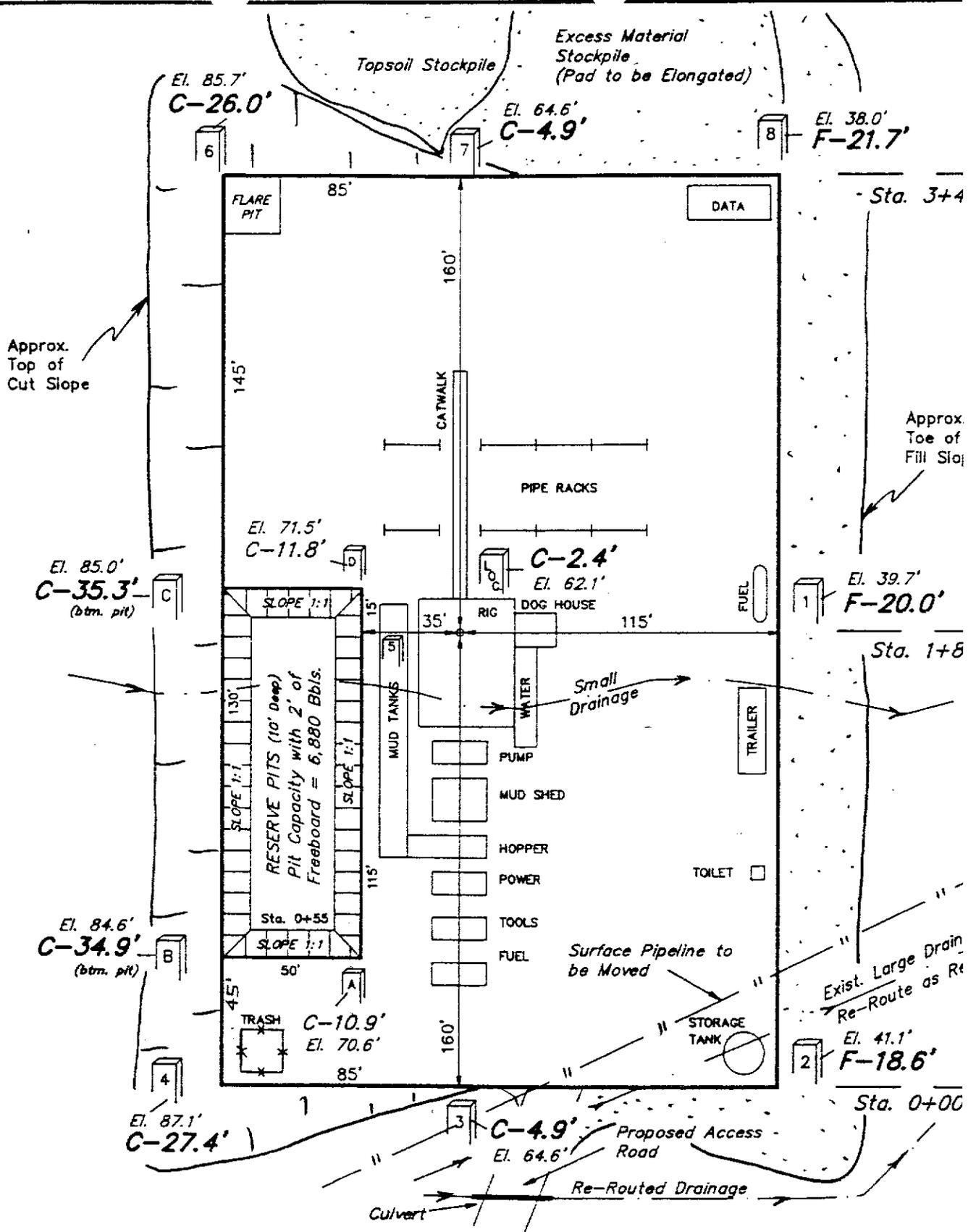
SCALE: 1" = 50'
DATE: 7-18-92
Drawn By: R.E.H.
REVISED: 7-21-92 R.E.H.



TYP. LOCATION LAYOUT

TYP. CROSS SECTIONS

EV. UNGRADED GROUND AT LOC. STAKE = 7262.1'
EV. GRADED GROUND AT LOC. STAKE = 7259.7'



APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 1,260 Cu. Yds.
Remaining Location	= 22,140 Cu. Yds.
TOTAL CUT	= 23,400 CU.YDS.
FILL	= 19,790 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	= 2,570 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 1,260 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 1,310 Cu. Yds.



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.

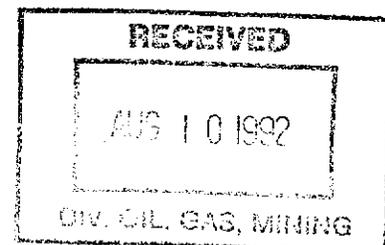
Sincerely,

William A. Wasmach

for Mark P. Page
Regional Engineer

cc: Bob Davis - Price River Commissioner

Enclosures
MPP/mjk



APPLICATION FOR TEMPORARY CHANGE OF WATER

AUG 10 1992

DIV. OIL, GAS, MINING

RECEIVED

STATE OF UTAH

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 1/4 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 reddiverted 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)
 - #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.

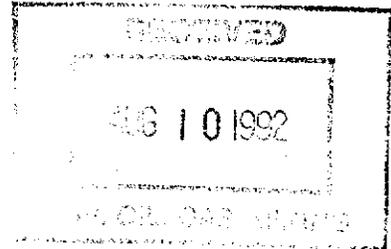
STATE ENGINEER'S ENDORSEMENT

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:

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. Blumreich
 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
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
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 or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Coalbed Methane		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR 214/750-3800 6688 N. Central Expressway, #1000 PG & E Resources Company Dallas, TX 75206		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
3. ADDRESS OF OPERATOR 303/452-8888 13585 Jackson Drive Permitco Inc. - Agent Denver, CO 80241		7. UNIT AGREEMENT NAME N/A
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 330' FSL and 330' FEL (Exception Location) SE SE Sec. 10, T12S - R10E		8. FARM OR LEASE NAME Jensen
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7262' GR	9. WELL NO. #16-10
		10. FIELD AND POOL, OR WILDCAT
		11. SEC., T., R., M., OR BLEK. AND SURVEY OR AREA Sec. 10, T12S - R10E
		12. COUNTY OR PARISH Carbon
		13. STATE Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

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

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

PG & E Resources Company proposes to change the casing design on the above mentioned well to the following:

Size of Hole	Size of Casing	Wt./Ft.	Setting Depth	Cement Program
12-1/4"	9-5/8"	36#	500'	265 sx or suffic to circ
8-3/4"	7"	26#	4850'	425 sx or suffic to cover zones of interest.

As you will note, the T.D. has also been increased to 4850'. The maximum bottom hole pressure anticipated is 2105 psi (.434 psi/ft.) The maximum surface pressure anticipated is 1038 psi (Based on partially evacuated hole at 0.22 psi/ft.)

Anticipated number of days to drill is: 4 Days - Spudder Rig, 16 days - Drill Rig.

- cc: 3 - Div. of Oil, Gas & Mining - SLC, UT.
3 - PG & E Resources - Dallas, TX.
1 - PG & E Resources - Vernal, UT

RECEIVED

AUG 21 1992

DIVISION OF
OIL GAS & MINING

8-25-92
JPT Matthews

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

SIGNED <u>Juan G. Smith</u>	TITLE <u>Consultant for PG & E Resources Company</u>	DATE <u>8/19/92</u>
-----------------------------	--	---------------------

(This space for Federal or State office use)

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

DRILLING LOCATION ASSESSMENT

State of Utah
Division of Oil, Gas and Mining

OPERATOR: PG&E RESOURCES CO. WELL NAME: #16-10 JENSEN
SECTION: 10 TWP: 12S RNG: 10E LOC: 330 FSL 330 FEL
QTR/QTR SE/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 9:30

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 on a fairly steep slope overlooking Highway 33 and Willow Creek. A medium sized drainage cuts across the NE side of the proposed location. Willow Creek is .25 miles west and approximately 200 feet in elevation drop from 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, Bunch grass, Juniper/Cows, Deer, Elk, Rabbits, Rodents, Birds

ENVIRONMENTAL PARAMETERS

SURFACE GEOLOGY

SOIL TYPE AND CHARACTERISTICS: Clayey-silt 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-3347', Kenilworth-4074',
Aberdeen-4275'

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 evaluated after construction to
determine if a synthetic liner is needed.

MUD PROGRAM: 0-500'-air/spud mud; 500'-3500'-FW w/Gel Sweeps;
3500'-4575'-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 inspected after construction to
determine if a synthetic liner is required.

The pad is to be bermed on the downhill side to prevent run off
from the location.

The drainage on the NE side of the location is to be rerouted
around the pad.

ATTACHMENTS

Photographs will be placed on file.

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

OPERATOR: PG & E RESOURCES COMPANY
WELL NAME: JENSEN 16-10

DATE RECEIVED: 08/05/92

API NO. ASSIGNED: 43 - 007 - 30161

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

RECEIVED AND/OR REVIEWED:
 Plat
 Bond
(Number 1-1870145 80,000)
 Potash (Y/N)
 Oil shale (Y/N)
 Water permit
(Number +90-91-10 91-200)
 RDCC Review (Y/N)
(Date: 8-6-92)

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

COMMENTS: One add well proposed within sec 10.
Perite 8-6-92 / Biology within 8-11-92
Exception location requested

STIPULATIONS: _____
CONFIDENTIAL
PERIOD
EXPIRED
ON 9-8-94

the stipulation
Reserve pit to be evaluated for lines upon construction
Pad to be bermed on downhill side to prevent runoff from location
Drainage on NE side of location is to be rerouted around the pad.
RDCC stipulation



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 25, 1992

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

Gentlemen:

Re: Jensen #16-10 Well, 330 feet from the south line, 330 feet from the east line, SE 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. 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.
3. The reserve pit is to be inspected after construction to determine if a synthetic liner is required.
4. The pad is to be bermed on the downhill side to prevent run off from the location.
5. The drainage on the NE side of the location is to be rerouted around the pad.

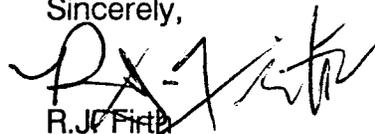
Page 2
PG & E Resources Company
Jensen #16-10 Well
August 25, 1992

6. Compliance with the requirements of Utah Admin. R. 649-1 et seq., Oil and Gas Conservation General Rules.
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 43-007-30161.

Sincerely,



R.J. Firth

Associate Director, Oil and Gas

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

WO11

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: PG & E 43-007-30161

WELL NAME: JENSEN 16-10

Section 10 Township 12S Range 10E County CARBON

Drilling Contractor ADCOR

Rig # 36

SPUDDED: Date 8/31/92

Time _____

How ROTARY

CONFIDENTIAL

Drilling will commence _____

Reported by JAKE NEVES

Telephone # 1-637-1835

Date 9/1/92 SIGNED JLT

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION			COUNTRY	SPUD DATE	EFFECTIVE DATE		
					QQ	SC	TP				RG	
A	99999	11403	43-007-30161	Jensen #16-10	SE	SE	10	12S	10E	Carbon	8/23/92	8/23/92

WELL 1 COMMENTS:
 This well was spudded 8/23/92. Entity added 9-10-92. Jca

WELL 2 COMMENTS:

--	--	--	--	--	--	--	--	--	--	--	--	--

WELL 3 COMMENTS:

--	--	--	--	--	--	--	--	--	--	--	--	--

WELL 4 COMMENTS:

--	--	--	--	--	--	--	--	--	--	--	--	--

WELL 5 COMMENTS:

--	--	--	--	--	--	--	--	--	--	--	--	--

RECEIVED

SEP 08 1992

- 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)

DIVISION OF
 OIL GAS & MINING

Dina Johnson
 Signature
 Regulatory Affairs Supv. 9/4/92
 Title Date
 Phone No. (214) 750-3988

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION			COUNTRY	SPUD DATE	EFFECTIVE DATE		
					QQ	SC	TP				RG	
A	99999	11403	43-007-30161	Jensen #16-10	SE	SE	10	12S	10E	Carbon	8/23/92	8/23/92

WELL 1 COMMENTS:
 This well was spudded 8/23/92. Entity added 9-10-92. Jca

WELL 2 COMMENTS:

--	--	--	--	--	--	--	--	--	--	--	--	--

WELL 3 COMMENTS:

--	--	--	--	--	--	--	--	--	--	--	--	--

WELL 4 COMMENTS:

--	--	--	--	--	--	--	--	--	--	--	--	--

WELL 5 COMMENTS:

--	--	--	--	--	--	--	--	--	--	--	--	--

RECEIVED

SEP 08 1992

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

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

(3/89)

DIVISION OF
 OIL GAS & MINING

Dina Johnson
 Signature
 Regulatory Affairs Supv. 9/4/92
 Title Date
 Phone No. (214) 750-3988

SOUTHEASTERN UTAH ASSOCIATION OF LOCAL GOVERNMENT

WILLIAM D. HOWELL
Executive Director

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

AREAWIDE CLEARINGHOUSE A-95 REVIEW

14 01 07

NOI ___ Preapp ___ App ___ State Plan ___ State Action X Subdivision ___ (ASP # 8-811-13,14)

Other (indicate) _____ SAI Number UT920810-060,070

Applicant (Address, Phone Number):

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

Federal Funds:

Requested: _____

Title:

APPLICATION FOR PERMIT TO DRILL

RECEIVED

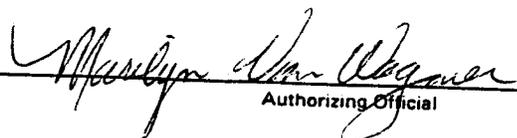
SEP 02 1992

- 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

DIVISION OF
OIL, GAS & MINING

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:



Authorizing Official

8-31-92

Date

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 #16-10
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

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

9. Well Name and Number

Jensen #16-10

2. Name of Operator

PG&E Resources Company

10. API Well Number

43-007-30161

3. Address of Operator

6688 N. Central Expressway, Dallas, TX 75260

4. Telephone Number

(214) 750-3958

11. Field and Pool, or Wildcat

Wildcat

5. Location of Well

Footage : 330' FSL & 330' FEL (Exception Location)

County : Carbon

QQ, Sec. T., R., M. : SE 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>Spud/Set Surface Casing</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.)

The above referenced well was spud 8/21/92. Ran 9 5/8", 36#, K-55, ST&C casing to 525' G.L. Cement w/275 sx Class "G" + 2% CaCl2 + 1/4# cello seal on 8/26/92.

RECEIVED

SEP 21 1992

DIVISION OF
OIL GAS & MINING

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

Name & Signature

Ava Hurst

Ava Hurst

Title

Production Administrator

Regulatory Affairs Date 9/16/92

(State Use Only)

FYI - FRM
- TFS
- 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.

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.

October 6, 1992

RECEIVED

OCT 08 1992

DIVISION OF
OIL GAS & MINING



State of Utah
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Re: Shimmin Trust #10-11
Jensen #16-10
~~Shimmin Trust #14-12~~
Castlegate Area
Carbon County, Utah

Gentlemen:

Enclosed is Form 9, Sundry Notice for each of the wells referenced above.

If you should require additional information, please contact the undersigned at (214) 750-3958.

Yours very truly,



Ava Hurst
Regulatory Affairs

/ah

Enclosures

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 #16-10
10. API Well Number 43-007-30161
11. Field and Pool, or Wildcat 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 : 330' FSL & 330' FEL (Exception) County : Carbon QQ, Sec. T., R., M. : SE SE Sec. 10, T12S-R10E State : UTAH	

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA																											
<p>NOTICE OF INTENT (Submit in Duplicate)</p> <table border="0"> <tr> <td><input type="checkbox"/> Abandonment</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Recompletion</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Shoot or Acidize</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Multiple Completion</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input checked="" type="checkbox"/> Other <u>Spud/Set Surface Casing</u></td> <td></td> </tr> </table> <p>Approximate Date Work Will Start _____</p>	<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>Spud/Set Surface Casing</u>		<p>SUBSEQUENT REPORT (Submit Original Form Only)</p> <table border="0"> <tr> <td><input type="checkbox"/> Abandonment *</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Shoot or Acidize</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input type="checkbox"/> Other _____</td> <td></td> </tr> </table> <p>Date of Work Completion _____</p> <p>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.</p>	<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 _____	
<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>Spud/Set Surface Casing</u>																											
<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 _____																											

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 spud the above referenced well on 8/21/92 at 7:30 p.m. On 8/26/92 ran 9 5/8", 36#, K-55 casing to 525'. Cement w/275 sx Class "G" + 2% CaCl + 1/4# Cello Seal.

RECEIVED
OCT 0 8 1992
DIVISION OF
OIL, GAS AND MINING

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

Name & Signature Ava Hurst Title Production Administrator Date 10/6/92
Regulatory Affairs

(State Use Only)

WELL HISTORY

16-10 Jensen
Castlegate Area
Carbon County, Utah

- 08-19-92 Building location.
- 08-20-92 Building location.
- 08-21-92 Building location.
- 08-22-92 Fin location pad, building pit.
- 08-23-92 MI spudder rig. Spud @ 7:30pm 8-21-92. Drlg 12-1/4" hole to 35'. SDFN.
- 08-24-92 Drlg 12-1/4" surf hole to 285' w/ spudder rig.
- 08-25-92 Drlg 520', footage 235'. Drl to 520' w/ Leon Ross Drlg Co air hammer. Prep to run 9-5/8" surf csg.
- 08-26-92 Drlg 12-1/4" hole to 530'. Ran 9-5/8" 36# K55 STC to 525' G.L. & Cmt'd w/275 sx Class G + 2% CaCl₂ + 1/4# Cello Seal. Circ cmt to surf. Drl rat & mouse holes.
- 08-27-92 Fin rat & mouse hole. MO spudder rig, prep to MI Adcor #36.
- 08-28-92 MI Adcor Rig #36.
- 08-29-92 RU Adcor #36.
- 08-30-92 NU BOPE, RU Adcor #36.
- 08-31-92 Tst BOPE to 2000#, PU BHA & GIH, drlg cmt & shoe @ 545'. CC \$107,554.
- 09-01-92 Drlg 960', 219'/19.5 hrs, MW 8.4, Visc 26, WL N/C. Drl to 635', trip for new BHA, drl to 960'. CC \$113,889.
- 09-02-92 Drlg 1505', day 3, 545'/20.5 hrs, MW 8.4, Visc 30, WL N/C. Srvy 1.75° @ 1021' & 2.75° @ 1420'. CC \$118,216.

WELL HISTORY

16-10 Jensen
Castlegate Area
Carbon County, Utah

- 09-03-92 Drlg 2390', day 4, 885'/23 hrs, MW 8.7, Visc 30, WL N/C. Srvy 3.25° @ 3206'. CC \$122,876.
- 09-04-92 Drlg 2987', day 5, 697'/18 hrs, MW 8.7, Visc 30. Drlg to 2925', trip for bit, ream 70' to btm and drlg to 2987'. Srvy 4.25° @ 2820'. CC \$132,966.
- 09-05-92 Drlg 3471', day 6, 484'/19.5 hrs, MW 8.7, Visc 33, WL 16. Trip for cracked DC, srvy 4.5° @ 3438', elev 7260' GL, 7279' KB.
- 09-06-92 Drlg 3766', day 7, 295'/23.5 hrs, MW 8.8, Visc 22, WL 16. Srvy 4.5° @ 3438'.
- 09-07-92 Drlg 4070', day 8, 304'/17 hrs, MW 8.8, Visc 31, WL 17. Trip for bit, srvy 5° @ 3817'.
- 09-08-92 Drlg 4430', day 9, 360'/23.5 hrs, MW 8.8, Visc 31, WL 18. Srvy 6° @ 4210'. CC \$163,986.
- 09-09-92 Drlg 4675', day 10, 245'/21.5 hrs, MW 8.9, Visc 34, WL 12.8. Lost 200 Bbl @ 4602', regained full rtns. CC \$170,838.
- 09-10-92 Depth 4700', LD DP, day 11, MW 8.9, Visc 39, WL 15. Drl to TD, RU & log w/ SDL/GR/Cal/PE from 4700'-2700', C&C for csg, LD DP. CC \$182,610.
- 09-11-92 PBSD 4609', rig rel, day 12. Fin LD DP, RU & ran 7", 29# & 26#, N-80, LT&C & set csg @ 4695'. Cmt'd 1st stage w/ 290 sx 50/50 Poz + add, circ thru DV, cmt'd 2nd stage w/ 245 sx Thrifty Lite + add. Closed DV, set slips, clean pits. RR @ 6:00am 9-11-92. CC \$266,595. DROP UNTIL COMPLETION.

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

6. Lease Designation and Serial Number

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

9. Well Name and Number

Jensen #16-10

2. Name of Operator

PG&E Resources Company

10. API Well Number

43-007-30161

3. Address of Operator

6688 N. Central Expressway, Dallas, TX 75206

4. Telephone Number

(214) 750-3958

11. Field and Pool, or Wildcat

Wildcat

5. Location of Well

Footage : 330' FSL and 330' FEL (Exception Location) County : Carbon
QQ, Sec. T., R., M. : 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 _____ Well History _____
- 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.)

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

Ava Hurst

Title

Regulatory Affairs

Date

10/7/92

(State Use Only)

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

6. Lease Designation and Serial Number
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 re-enter plugged and abandoned wells.
Use APPLICATION FOR PERMIT— for such proposals

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

9. Well Name and Number
Jensen #16-10

2. Name of Operator
PG&E Resources Company

10. API Well Number
43-007-30161

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

4. Telephone Number
(214) 750-3958

11. Field and Pool, or Wildcat
Wildcat

5. Location of Well
 Footage : 330' FSL & 330' FEL (Exception Location) County : Carbon
 QG, Sec. T., R., M. : SE 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>Temporary Abandon</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 has temporarily abandoned this well as of 9/11/92.

PG&E Resources Company intends to re-enter and complete the well in early 1993, at which time a Sundry Notice will be filed reflecting the proposed work for Division of Oil, Gas and Mining approval.

RECEIVED

OCT 30 1992

DIVISION OF

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

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

(State Use Only)

INJECTION WELL APPLICATION

REVIEW SUMMARY

Applicant: PGE Resources Well: 16-10

Location: section 10 township 12S range 10E

API #: 43-009-30161 Well Type: disp. enhanced recov.

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

Lease Type: Free Surface Ownership: Jensen

Field: wildcat Unit: _____ Indian Country: N

UIC Form 1: Yes Plat: Yes Wells in AOR: 4 P

Logs Available: Yes Bond Log: no

Casing Program: 9 5/8" e 525', 7" e 4695' cemented to surface

Integrity Test: RATS to be run

Injection Fluid: H₂O

Geologic Information: Spring Canyon injection zone . 4473 - 4628'

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

Fracture Gradient Information: .51 psi Parting Pressure 2299 psi

Affidavit of Notice to Owners: needs notary

Fresh Water Aquifers in Area: need more info

Depth Base of Moderately Saline Water: _____

Confining Interval: _____

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

Comments & Recommendation _____

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

Attention: Mr. Gil Hunt,
Manager

RECEIVED

FEB 02 1993

DIVISION OF
OIL GAS & MINING

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, *yes*
- Jensen #16-10, *-no bond log*
- Shimmin Trust #10-11, *no log*
- Shimmin Trust #11-11. *no log*

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

KIND OF JOB

15M
30M
KTY/HR.

WELL No
45M

LL:
30M

15M

30M

45M

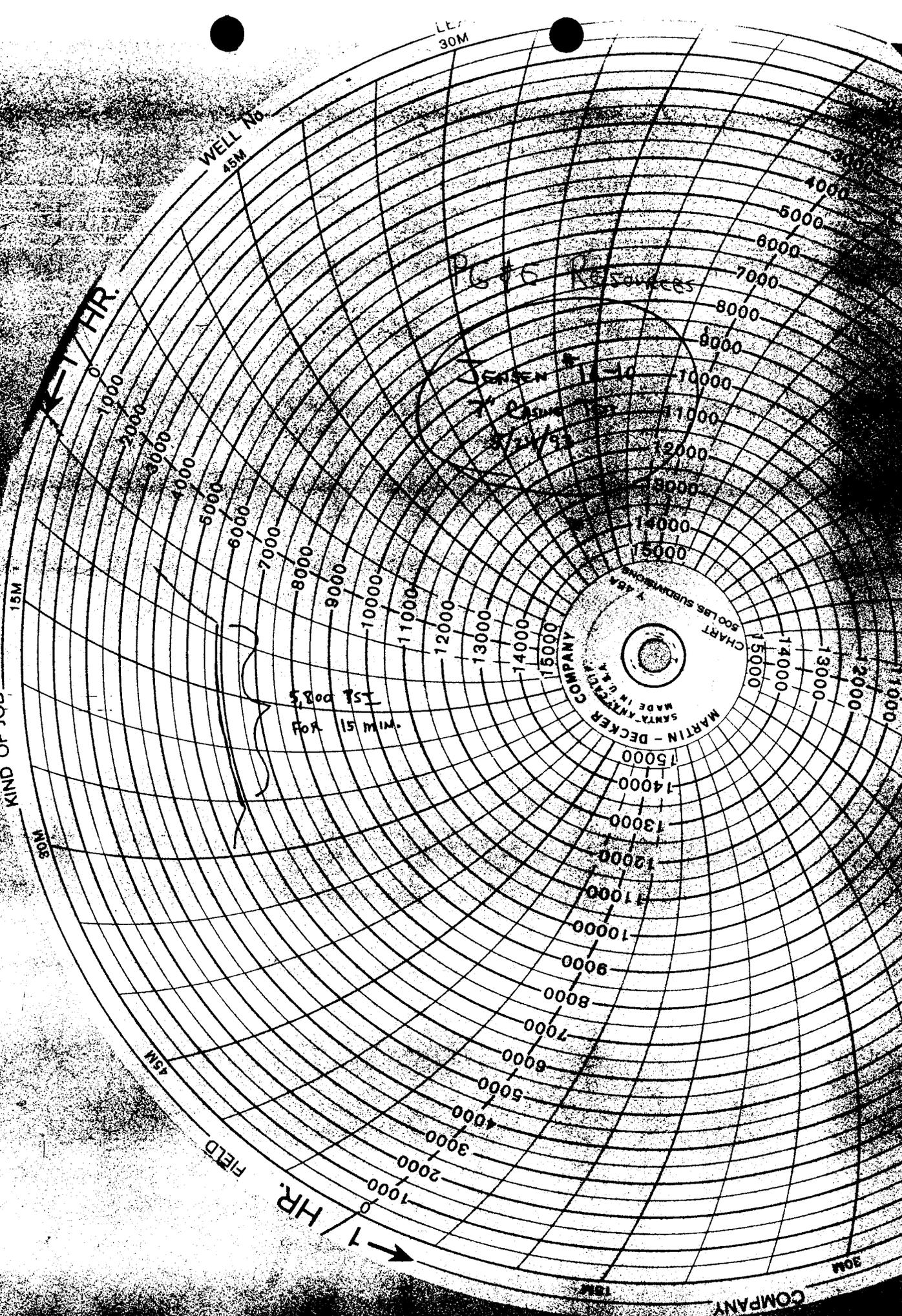
FIELD

1 / HR.

30M

15M

COMPANY





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. Bangert
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

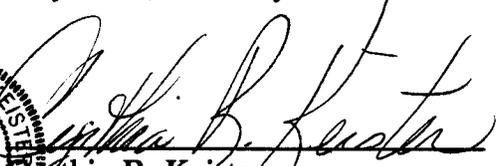
STATE OF TEXAS
COUNTY OF DALLAS

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 #16-10 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

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



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

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

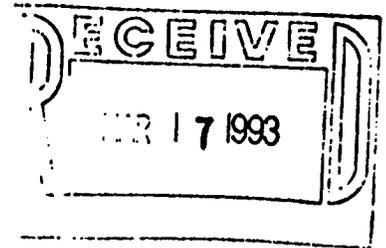


State of Utah

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



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

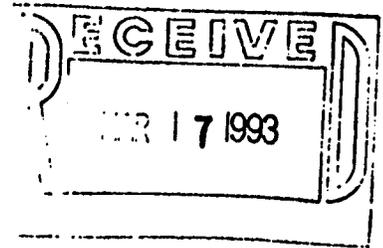


State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Trade 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

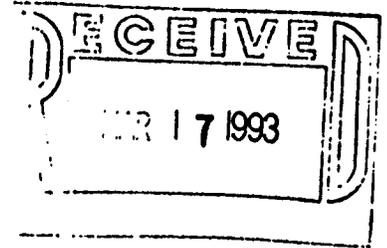


Norman H. Bangert
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad 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

**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



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

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



Attention: Mr. Gil Hunt,
Manager

RECEIVED

FEB 02 1993

DIVISION OF
OIL GAS & MINING

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
Supervisor,
Regulatory Affairs

Enclosures

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

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

CONFIDENTIAL

6. Lease Designation and Serial Number	See Attached Schedule "B"
7. Indian Allottee or Tribe Name	NA
8. Unit or Communitization Agreement	NA
9. Well Name and Number	See Attached Schedule "B"
10. API Well Number	See Attached Schedule "B"
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) WIW (Dual gas & WIW)

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 "B"
 County : Carbon
 State : UTAH

*Jensen 16-10 Sec 10, T12S, R10E
43-007-30161*

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 Complete Wells
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate Date Work Will Start 05/01/93

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.

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 "B". Daily reports will be furnished when completion operations commence.

RECEIVED

APR 21 1993

DIVISION OF
OIL GAS & MINING

4-27-93
[Signature]

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
 DUAL COMPLETIONS
 SCHEDULE 'B'

WELL NAME	LEASE SERIAL NO.	API NUMBER	Location	Qtr Sec.	Sec	Twnship	Range	County
Shimmln Trust 10-11	FEE	43-007-30167	1999' FSL & 2006' FEL	NW SE	11	12S	10E	Carbon
Shimmln Trust 11-11	FEE	43-007-30166	2313' FSL & 1501' FWL	NE SW	11	12S	10E	Carbon
Shimmln Trust 12-12	FEE	43-007-30168	2340' FSL & 1033' FWL	NW SW	12	12S	10E	Carbon
Jensen 16-10	FEE	43-007-30161	330' FSL & 330' FEL	SE SE	10	12S	10E	Carbon

APRIL 20, 1993

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.

September 9, 1993

RECEIVED
SEP 15 1993

DIVISION OF
OIL, GAS & MINING



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 16-10
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 16-10 has been completed as a gas well in the Blackhawk/Kenilworth Coal Seams and as a salt water disposal 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

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NO.

Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT AGREEMENT NAME

NA

8. FARM OR LEASE NAME

Jensen

9. WELL NO.

16-10

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 10, T12S-R10E

12. COUNTY

Carbon

13. STATE

Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL GAS 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 330' FSL & 330' FEL SE/4 SE/4
At top prod. interval reported below Same
At total depth Same

DIVISION OF OIL, GAS & MINING

SEP 13 1993

14. API NO.
43-007-30161

DATE ISSUED
08/25/92

15. DATE SPUDDED 08/21/92

16. DATE T.D. REACHED 09/10/92

17. DATE COMPL. (Ready to prod.)
08/08/93
or
(Plug & Abd.)

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)
7279.3' RKB

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD
4695'

21. PLUG, BACK T.D., MD & TVD
4648'

22. IF MULTIPLE COMPL., HOW MANY

23. INTERVALS DRILLED BY
2

ROTARY TOOLS
X

CABLE TOOLS

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

4473' - 4628' Spring Canyon

(MVRD)

25. WAS DIRECTIONAL SURVEY MADE
No

26. TYPE ELECTRIC AND OTHER LOGS RUN
Dual Induction Guard/Spectral Density & Quick Look

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#	525'	12-1/4"	275sx Class G w/additives	0
7"	29# & 28#	4695'	8-3/4"	290sx 50/50 Poz w/additives	0
		DV Tool @3267'		245sx Class G w/additives + 50sx Class G w/additives	

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"	4450'	4450'
		Dual Pkr.

31. PERFORATION RECORD (Interval, size and number)

4473' - 4520'	0.45"	188 Holes
4528' - 4573'	0.45"	180 Holes
4591' - 4628'	0.45"	148 Holes

32. ACID, SHOT, FRACTURE, CEMENT

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3740' & 3950'	Squeezed w/200sx Class G Prem. w/additives

33. PRODUCTION

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

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

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 Keister TITLE Sr. Regulatory Analyst DATE 09/09/1993

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
				Meas. Depth
				Top True Vert. Depth
Black hawk	3433'	4146'	Natural gas	Price River ss 2670'
Kenilworth	4147'	4333'	Natural gas	Castlegate ss 3097' Black Hawk 3433' Kenilworth ss 4147' Aberdeen ss 4334' Spring Canyon ss 4472'

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	Description, contents, etc.	Name	Meas. Depth
Black hawk	4146'	3433'	Natural gas	Price River ss	2670'
Kenilworth	4333'	4147'	Natural gas	Castlegate ss	3097'
				Black Hawk	3433'
				Kenilworth ss	4147'
				Aberdeen ss	4334'
				Spring Canyon ss	4472'

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	3433'	4146'	Natural gas	Price River ss	2670'		
Kenilworth	4147'	4333'	Natural gas	Castlegate ss	3097'		
				Black Hawk	3433'		
				Kenilworth ss	4147'		
				Aberdeen ss	4334'		
				Spring Canyon ss	4472'		

FORM 8 - Attachment
Jensen 16-10

32. ACID, SHOT, FRACTURE, CEMENT

<u>Depth Interval (MD)</u>	<u>Amount and Kind of Material Used</u>
3891' - 4103'	16/30 Ottawa Sand + 43440# 16/30 resin coated sand
4222' - 4316'	2000 gals 7.5% FE Acid + 62,000 gals Alum & Zirc Dual XL CMHEC + 36000# 100 mesh sand + 59000# 16/30 Ottawa Sand + 42000# 16/30 resin coated sand.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NO.

Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NA

7. UNIT AGREEMENT NAME
NA

8. FARM OR LEASE NAME
Jensen

9. WELL NO.
16-10

10. FIELD AND POOL, OR WILDCAT
Wildcat

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

12. COUNTY
Carbon

13. STATE
Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

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 330' FSL & 330' FEL SE/4 SE/4
 At top prod. interval reported below Same
 At total depth Same

14. API NO. 43-007-30161
 DATE ISSUED 08/25/92

15. DATE SPUDDED 08/21/92
 16. DATE T.D. REACHED 09/10/92
 17. DATE COMPL. (Ready to prod., or Plug & Abd.) 08/08/93
 18. ELEVATIONS (DF, RKB, RT, GR, ETC.) 7279.3' RKB
 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 4695'
 21. PLUG, BACK T.D., MD & TVD 4648'
 22. IF MULTIPLE COMPL., HOW MANY 2
 23. INTERVALS DRILLED BY
 ROTARY TOOLS X
 CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)
 4473' - 4628' Spring Canyon
 25. WAS DIRECTIONAL SURVEY MADE
 No

26. TYPE ELECTRIC AND OTHER LOGS RUN
 Dual Induction Guard/Spectral Density & Quick Look
 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#	525'	12-1/4"	275sx Class G w/additives	0
7"	29# & 28#	4695'	8-3/4"	290sx 50/50 Poz w/additives	0
		DV Tool @3267'		245sx Class G w/additives + 50sx Class G w/additives	

29. LINER RECORD				30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SIZE	DEPTH SET (MD)	PACKER SET (MD)
				2-1/16"	4450'	4450'
						Dual Pkr.

31. PERFORATION RECORD (Interval, size and number)			32. ACID, SHOT, FRACTURE, CEMENT	
INTERVAL	SIZE	HOLES	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4473' - 4520'	0.45"	188 Holes	3740' & 3950'	Squeezed w/200sx Class G Prem w/additives
4528' - 4573'	0.45"	180 Holes		
4591' - 4628'	0.45"	148 Holes		

33. PRODUCTION							
DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)			WELL STATUS (Producing or shut-in)			
						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.)
 Well is currently shut-in waiting on completion of the central processing facility.
 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 Keister TITLE Sr. Regulatory Analyst DATE 09/09/1993

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	
					Mess. Depth	True Vert. Depth
Black hawk	3433'	4146'	Natural gas	Price River ss		2670'
Kenilworth	4147'	4333'	Natural gas	Castlegate ss		3097'
				Black Hawk		3433'
				Kenilworth ss		4147'
				Aberdeen ss		4334'
				Spring Canyon ss		4472'

DUAL COMPLETION

see also SWD

STATE OF UTAH

CONFIDENTIAL

DL

DIVISION OF OIL, GAS AND MINING

9/21/93

COF

5. LEASE DESIGNATION AND SERIAL NO.
Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NA

7. UNIT AGREEMENT NAME
NA

8. FARM OR LEASE NAME
Jensen

9. WELL NO.
16-10

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 _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR Other SEP 13 1993

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 330' FSL & 330' FEL SE/4 SE/4

At top prod. interval reported below Same

At total depth Same

14. API NO. 43-007-30161 DATE ISSUED 08/25/92

12. COUNTY Carbon 13. STATE Utah

15. DATE SPUDDED 08/21/92 16. DATE T.D. REACHED 09/10/92 17. DATE COMPL. (Ready to prod.) 08/08/93 (Plug & Abd.)

18. ELEVATIONS (DF, RKB, RT, GR, ETC.) 7279' RKB 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 4695' 21. PLUG, BACK T.D., MD & TVD 4648'

22. IF MULTIPLE COMPL., HOW MANY 2 23. INTERVALS DRILLED BY

ROTARY TOOLS X CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)
3891' - 4103' Blackhawk 4222' - 4316' Kenilworth (MVDCL)

25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN
Dual Induction Guard/Spectral Density & Quick Look

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#	525'	12-1/4"	275sx Class G w/additives	0
7"	29# & 28#	4695'	8-3/4"	290sx 50/50 Poz w/additives	0
		DV Tool @3267'		245sx Class G w/additives + 50sx Class G w/additives	

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8"	3855'	3855'
							Landing Block

31. PERFORATION RECORD (Interval, size and number)

Interval	Size	Number
3891' - 4103'	0.45"	25 Holes
4222' - 4316'	0.45"	21 Holes

32. ACID, SHOT, FRACTURE, CEMENT

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3740' & 3950'	Squeezed w/200sx Class G Prem w/additives
3891'-4103'	57000 gals XL CMHEC gel + 36260# 100 mesh sd +57000#

33. PRODUCTION

DATE FIRST PRODUCTION 8/19/93 PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) Hyland Model 120 Progressive Cavity Pump WELL STATUS (Producing or shut-in) Shut-In

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'M. FOR TEST PERIOD	OIL--BBL.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO
08/26/93	24	NA		0	9	654	NA

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL--BBL.	GAS--MCF.	WATER--BBL.	OIL GRAVITY-API (CORR.)
NA	90		0	9	654	NA

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
Well is currently shut-in waiting on completion of the central processing facility.

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 [Signature] TITLE Sr. Regulatory Analyst DATE 09/09/1993

December 8, 1993

RECEIVED

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

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 16-10
10. API Well Number
43-007-30161
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 recutter 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 : 330' FSL & 330' FEL County : Carbon
QQ. Sec, T., R., M. : SE/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>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 23, 1993.



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

CONFIDENTIAL

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 Communization Agreement
NA
9. Well Name and Number Jensen 16-10
10. API Well Number 43-007-30161
11. Field and Pool, or Wildcat Wildcat
County : Carbon State : UTAH

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 : 330' FSL & 330' FEL QQ. Sec, T., R., M. : SE/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)

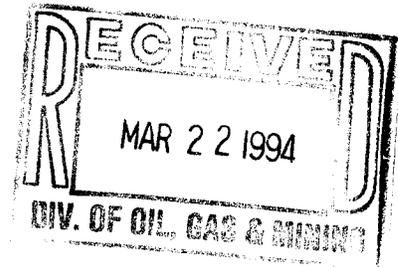
<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Conversion to Injection	<input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

Date of Work Completion 03/07/1994

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 turned the referenced well into the gas sales line March 7, 1994. The Jensen 16-10 is producing at an estimated rate of 3 MCFD & 592 BWPD on pump.

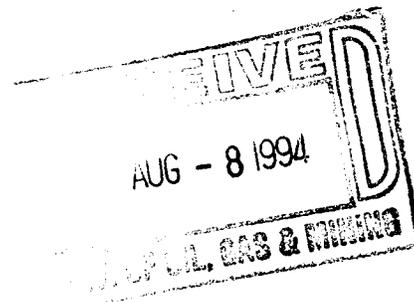


14. I hereby certify that the foregoing is true and correct.

Name & Signature Cindy R. Keister *Cindy R. Keister* Title Sr. Regulatory Analyst Date 03/14/1994

(State Use Only)

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,

Rejahna 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 16-10
Field or Unit name: Wildcat API no. 43-007-30161
Well location: QQ SE 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

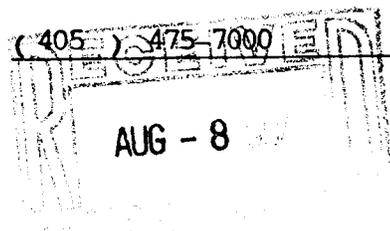
Comments:

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 *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 <small>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</small>		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 16-10
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other (specify) SWD	10. API Well Number 43-007-30161	
2. Name of Operator Anadarko Petroleum Corporation	11. Field and Pool, or Wildcat Wildcat	
3. Address of Operator 9400 N. Broadway - Suite 700 Oklahoma City, OK 73114	4. Telephone Number (405) 475-7000	
5. Location of Well Footage : 330' FSL & 330' FEL QQ, Sec. T., R., M. : SE/4 SE/4, Sec. 10, T12S, R10E		County : Carbon State : UTAH

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	
<p>NOTICE OF INTENT (Submit in Duplicate)</p> <p><input type="checkbox"/> Abandonment <input type="checkbox"/> New Construction</p> <p><input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing</p> <p><input type="checkbox"/> Change of Plans <input type="checkbox"/> Recompletion</p> <p><input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Shoot or Acidize</p> <p><input type="checkbox"/> Fracture Treat <input type="checkbox"/> Vent or Flare</p> <p><input type="checkbox"/> Multiple Completion <input type="checkbox"/> Water Shut-Off</p> <p><input checked="" type="checkbox"/> Other <u>Change of Operator</u></p> <p>Approximate Date Work Will Start _____</p>	<p>SUBSEQUENT REPORT (Submit Original Form Only)</p> <p><input type="checkbox"/> Abandonment * <input type="checkbox"/> New Construction</p> <p><input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing</p> <p><input type="checkbox"/> Change of Plans <input type="checkbox"/> Shoot or Acidize</p> <p><input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Vent or Flare</p> <p><input type="checkbox"/> Fracture Treat <input type="checkbox"/> Water Shut-Off</p> <p><input type="checkbox"/> Other _____</p> <p>Date of Work Completion _____</p> <p>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.</p>

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.

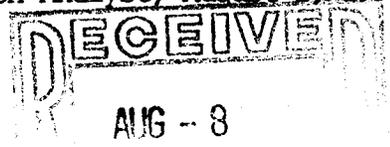
Bond coverage for this well is provided by Anadarko Petroleum Corporation's Statewide Blanket Bond #224351

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

By: *Ryehna Barrow*, Sr. Proration Analyst, August 1, 1994

OFFICE OF UTAH DIVISION OF OIL, GAS AND MINING

DATE: Aug. 11, 1994
BY: *Debra Cordova*



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

Name & Signature *Steve Hamilton* Title Division Admin. Mgr. Date 8/1/94

(State Use Only)

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 16-10
10. API Well Number 43-007-30161
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 : 330' FSL & 330' FEL
 CO, Sec. T., R., M. : SE/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.)

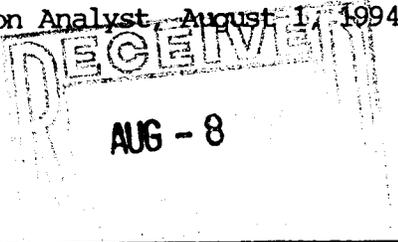
Please be advised that PG&E Resources Company is hereby transferring operations and Anadarko Petroleum Corporation is hereby assuming operations and will be responsible for the above described well effective as of August 1, 1994.

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: Lisha Cordova, Sr. Proration Analyst, August 1, 1994

DATE: Aug. 11, 1994
BY: Lisha Cordova



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)



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,

A handwritten signature in cursive script that reads "Don Staley".

Don Staley
Administrative Manager
Oil and Gas

ldc

cc: R.J. Firth

WOI201

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1	REC 1/12/94
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&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: **SEE ATTACHMENT**	API: <u>007-30161</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 84180-1203

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		
API Number	Entity	Location				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			- UTL65948		
STATE 2-16								
4300730133	11399	12S 10E 16	✓ MVDCL			- ML-44443		
FEDERAL 4-13								
4300730126	11400	12S 10E 13	MVDCL			- U65949		
FEDERAL 4-15								
4300730138	11401	12S 10E 15	MVDCL			- UTL65949		
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 9-10								
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		
TOTALS								

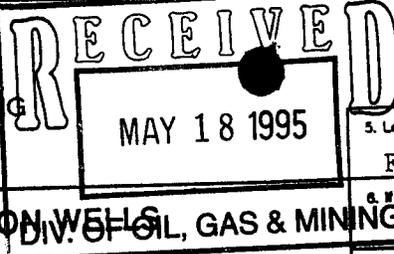
COMMENTS: _____

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

Date: _____

Name and Signature: _____

Telephone Number: _____



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.

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 330' FSL & 330' FEL

Footages:

CO, Sec., T, R, M.: SE/4 SE/4 Sec. 10-T12S-R10E

5. Lease Designation and Serial Number:

FEE

6. If Indian, Allottee or Tribe Name:

N/A

7. Unit Agreement Name:

N/A

8. Well Name and Number:

Jensen 16-10

9. API Well Number:

43-007-30161

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 _____
- 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 11-09-94

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.)

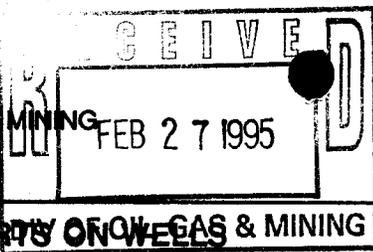
1. Remove dual hanger, Release Packer
2. Set 2-7/8" TRICO tbg anchor w/50000# shear, XO 240-6000 stator EOT 4565'
3. Put on Production

13.

Name & Signature: 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 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.

5. Lease Designation and Serial Number:	
6. If Indian, Allottee or Tribe Name:	
7. Unit Agreement Name:	
1. Type of Well: OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER: Coalbed Methane	8. Well Name and Number: Jensen 16-10
2. Name of Operator: Anadarko Petroleum Corp.	9. API Well Number: 43-007-30161
3. Address and Telephone Number: 9400 n. Broadway, Ste. 700 Oklahoma City, OK 73114 (405) 475-7000	10. Field and Pool, or Wildcat: Wildcat
4. Location of Well	
Footages: 330' FSL & 330' FEL	County: Carbon
QQ, Sec., T., R., M.: SE/4 SE/4 Sec. 10-12S-10E	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>Re-perforating</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>2/27/95</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.)

Anadarko proposes re-perforating the subject well to improve inflow performance and repair well bore skin damage. All of the existing coal intervals will be shot with an additional 4 SPF. The Spring Canyon sand interval will not be re-perforated. New perforations will be added in 2 thin carbonaceous shale/coal intervals (4140-4142 & 4204-4206). New perforations will also be added in the interbedded Kenilworth sand (4160-4180) and the Aberdeen sand (4323-4330 & 4336-4364) to accelerate the de-watering process. These sand perforations will only produce water and reduce the rate of pressure re-charge in the coal intervals. All of the newly perforated and re-perforated intervals will be broken down with 6500 gallons 15% HCL. The perforated intervals will be as follows:

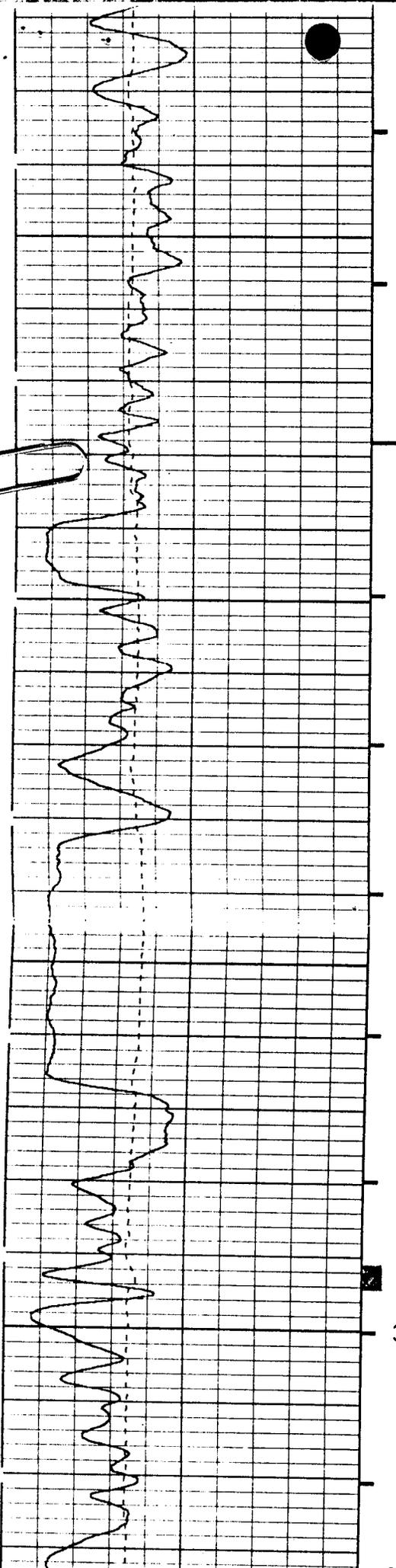
3891-3894 (4)	3941-3944 (4)	3972-3975 (4)	4008-4012 (5)	4048-4050 (3)
4078-4084 (7)	4095-4103 (9)	4140-4142 (3)*	4160-4180 (21)*	4204-4206 (3)*
4222-4224 (3)	4247-4250 (4)	4255-4261 (7)	4308-4316 (9)	4323-4330 (8)*
4336-4364 (29)*				

* New perforated intervals.

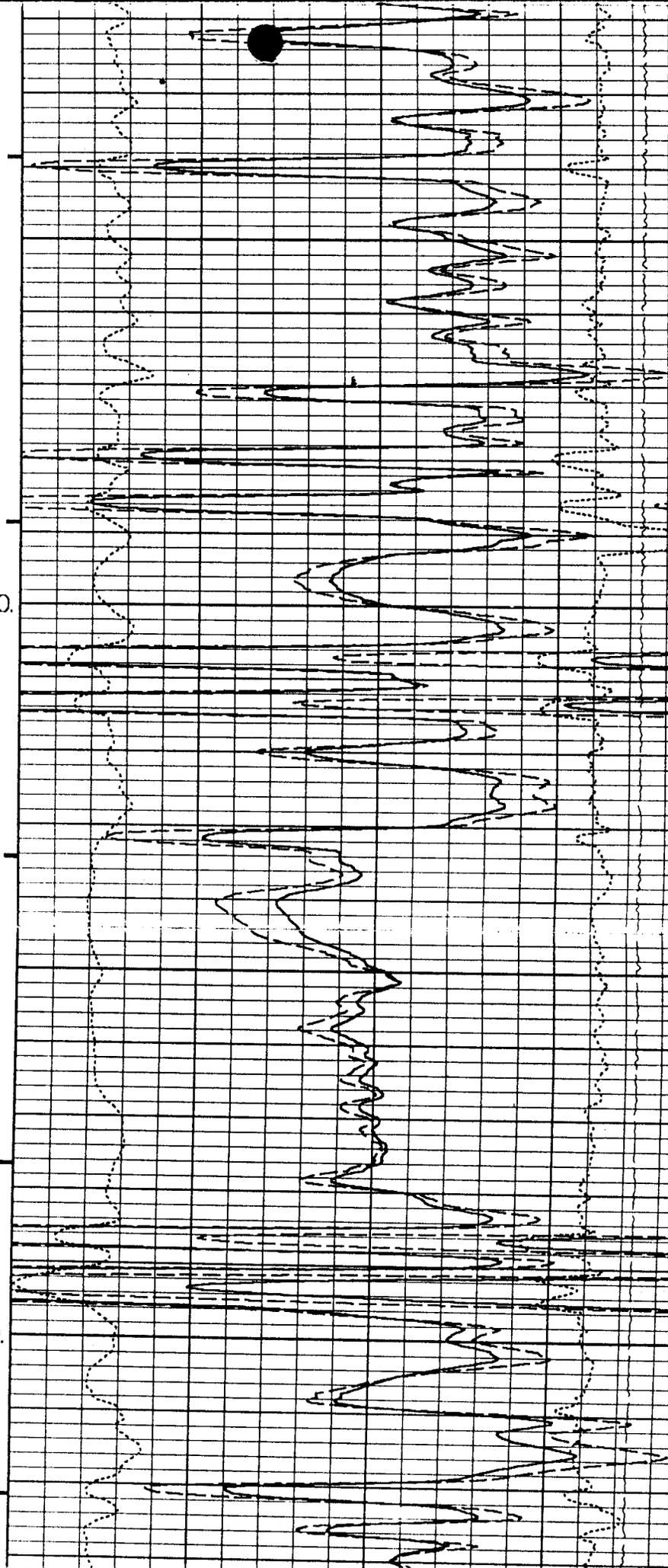
13. Name & Signature: Bill Savage Bill Savage Title: Senior Prod. Engr. Date: 2/22/95

(This space for State use only)

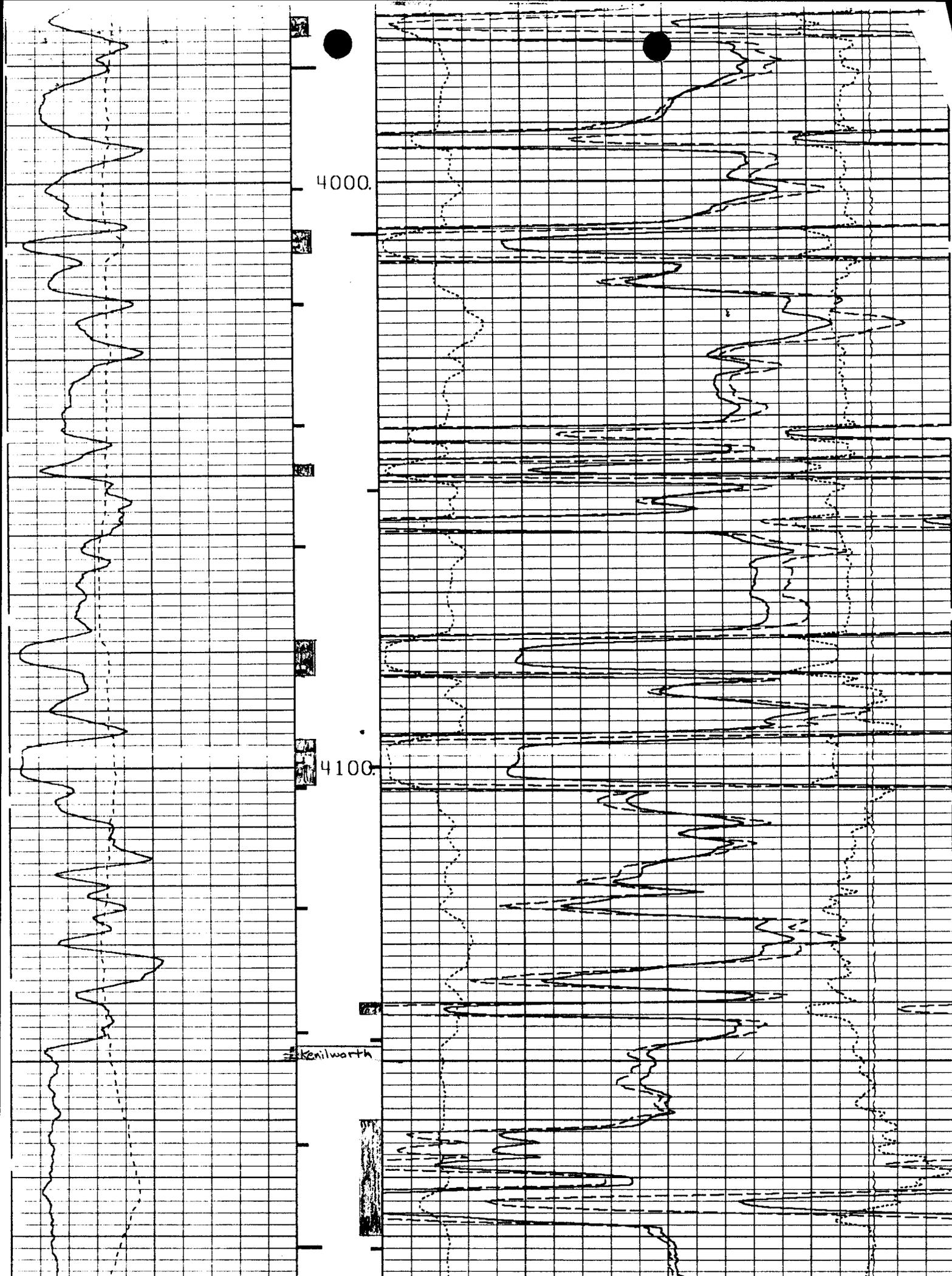
43 007-30161



3800.



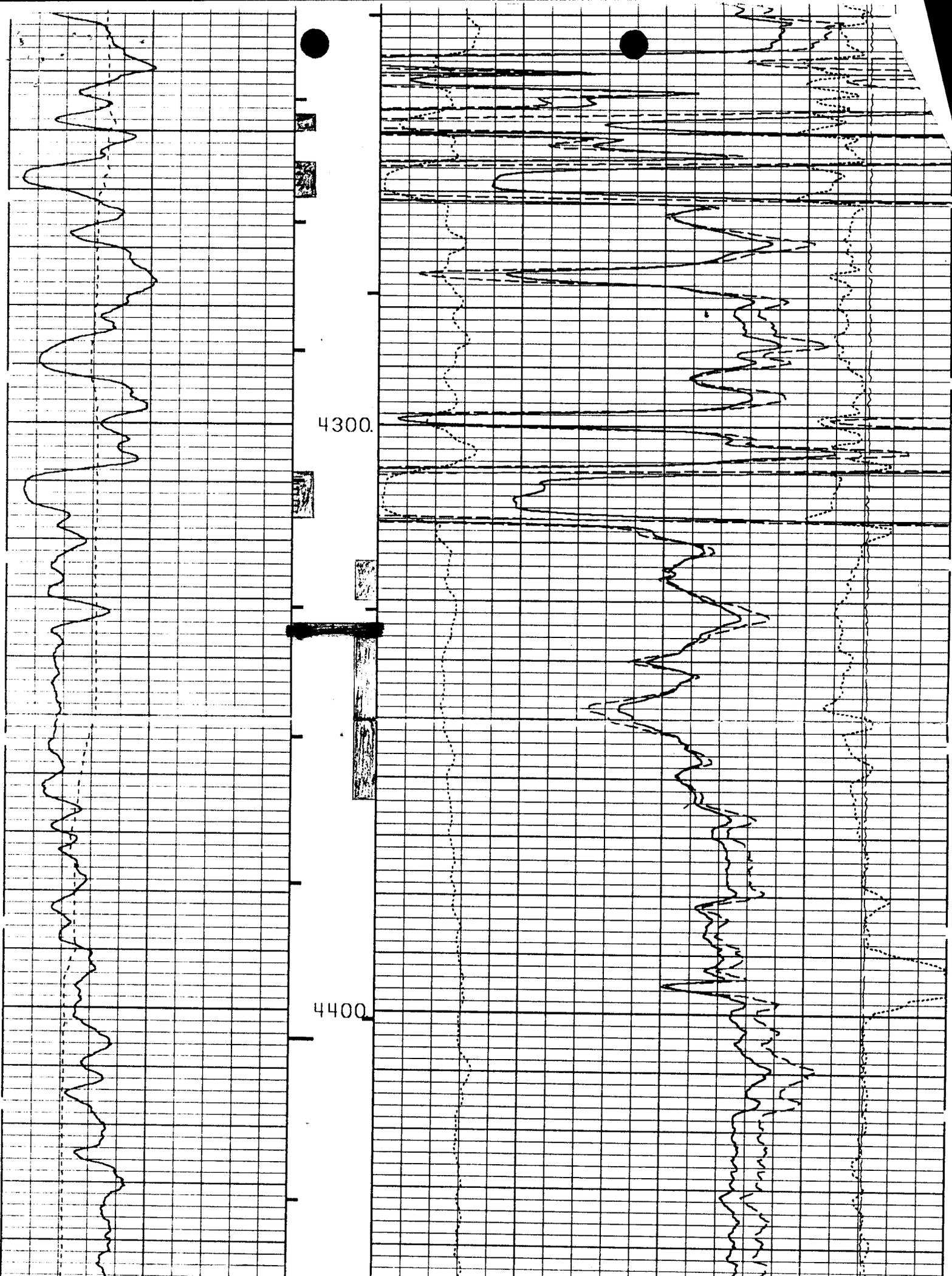
3900.



4000.

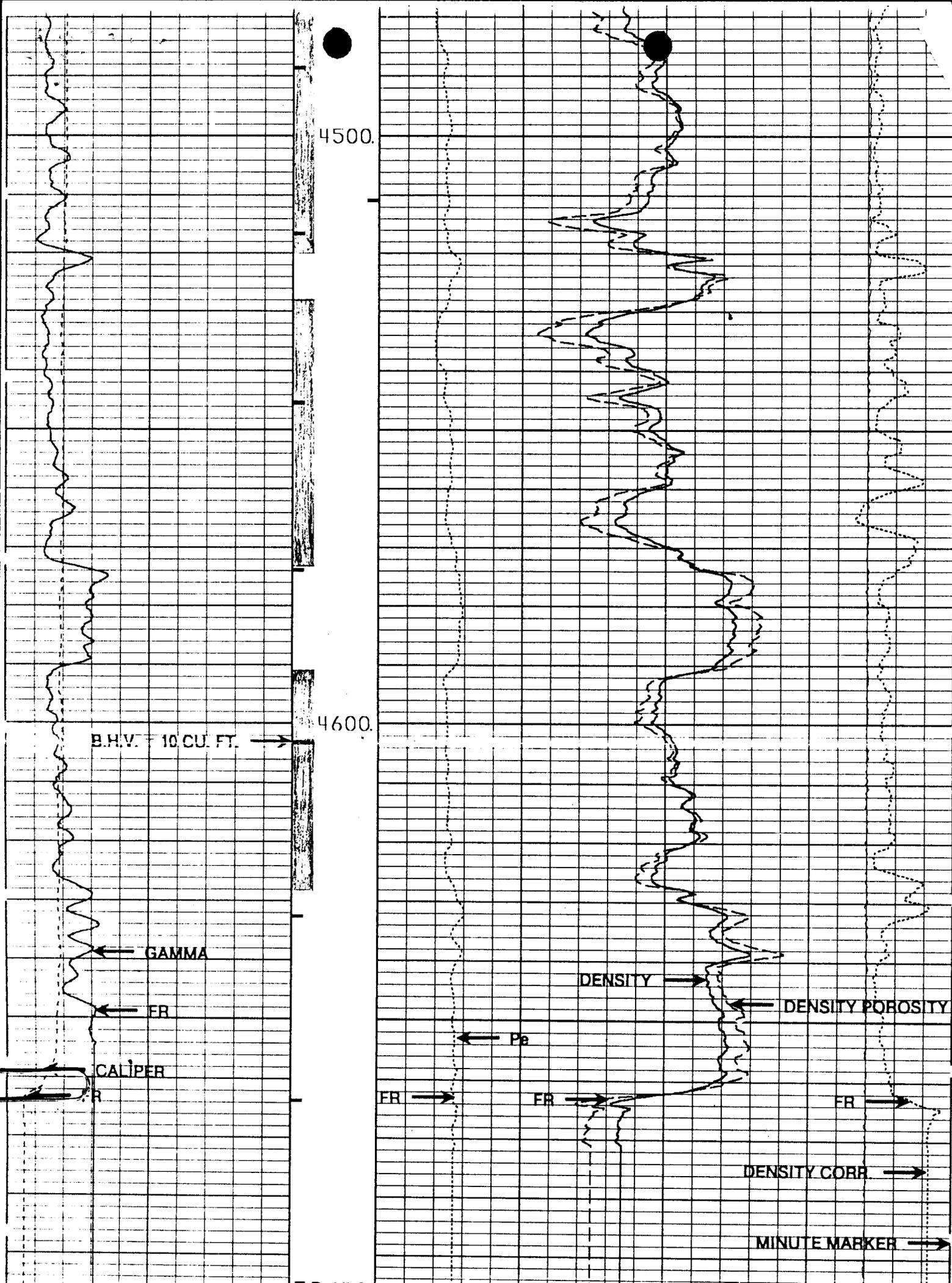
4100.

kenilworth



4300.

4400.



4500.

4600.

B.H.V. 10 CU. FT.

GAMMA

FR

CALIPER

FR

DENSITY

Pa

DENSITY POROSITY

FR

FR

FR

DENSITY CORR.

MINUTE MARKER

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 type="checkbox"/> OTHER: COALBED METHANE		5. Lease Designation and Serial Number:
2. Name of Operator: ANADARKO PETROLEUM CORPORATION		6. If Indian, Allocated 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: 330' FSL & 330' FEL SESE 2559' FSL & 909' FEL Co. Sec. T., R., M.: NE/4 NE/4 SEC. 10-12S-10E 43-007-30161		8. Well Name and Number: JENSEN
		9. API Well Number: 16-10
		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)	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 & 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>10-31-94</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.)

This well is currently completed as a dual injector/producer with injection into the Spring Canyon formation (4473-4628) and production from the Blackhawk Coal formation (3972-4050). 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 Shimmin 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 Title: SENIOR PRODUCTION ENGR. Date: 10-28-94

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS AND MINING
DATE: 10/28/94
BY: [Signature]

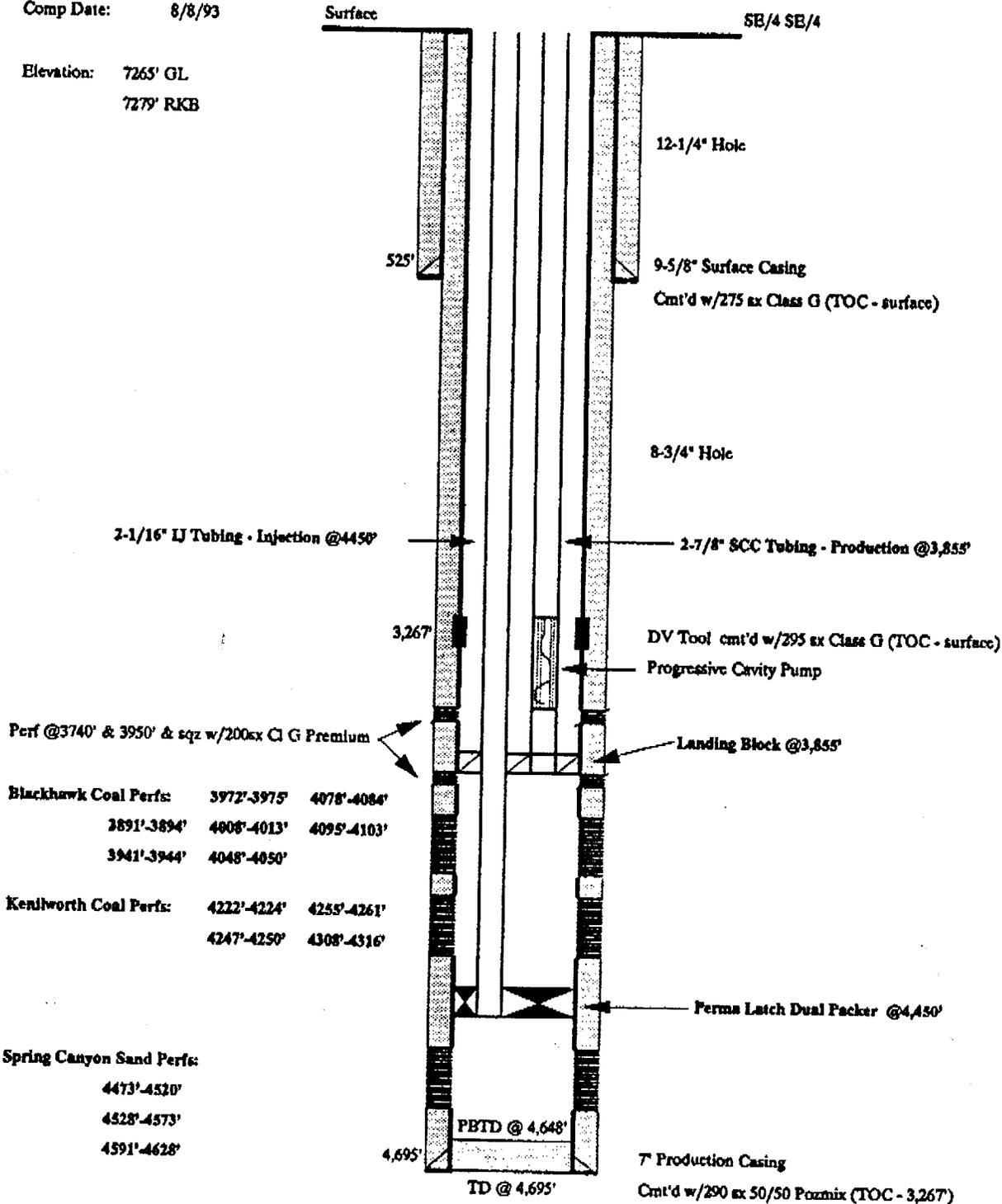
JENSEN NO. 16-10

Castlegate Field
Carbon County, Utah

Spud Date: 8/21/92
Comp Date: 8/8/93

Elevation: 7265' GL
7279' RKB

Sec 11-T12S-R10E
SE/4 SE/4



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.

5. Lease Designation and Serial Number:

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

7. Unit Agreement Name:
N/A

8. Well Name and Number:
JENSEN

9. API Well Number:
16-10

10. Field and Pool, or Wildcat:
WILDCAT

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 73114 (405) 475-7000

4. Location of Well
Footages: 330' FSL & 330' FEL SESE
2559' FSL & 909' FEL
O.G. Sec., T., R., M.: NE/4 NE/4 SEC. 10-12S-10E 43-007-30161

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 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 10-31-94

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 (4473-4628) and production from the Blackhawk Coal formation (3972-4050). 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 Shimmin 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 Title: SENIOR PRODUCTION ENGR. Date: 10-28-94

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 10/31/94
BY: [Signature]

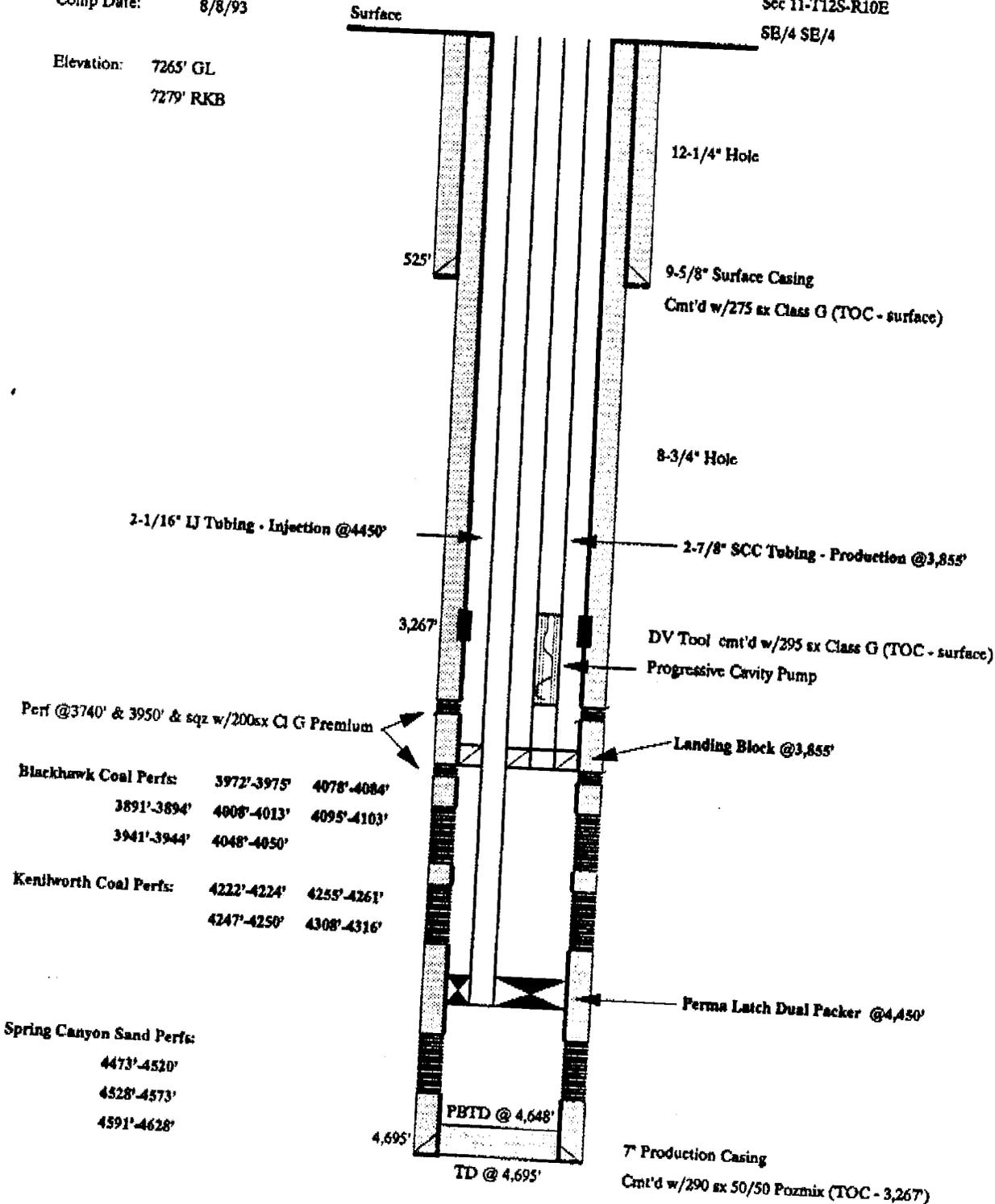
JENSEN NO. 16-10

Castlegate Field
Carbon County, Utah

Spud Date: 8/21/92
Comp Date: 8/8/93

Elevation: 7265' GL
7279' RKB

Sec 11-T12S-R10E
5B/4 SE/4



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 purposes

5. Lease Designation and Serial Number

6. Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

1. Type of Well: OIL GAS OTHER: METHANE

8. Well Name and Number:

Jensen 16-10

2. Name of Operator

Anadarko Petroleum Corporation

9. API Well Number:

43-007-30161

3. Address and Telephone Number.

17001 Northchase Dr., Houston, Texas 77060

10. Field and Pool, or Wildcat

Castlegate Field

4. Location of Well

Footages: 330' FSL & 330' FEL
QQ, Sec., T., R., M.: SE SE Sec. 10-T12S-R10E

County: Carbon

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 _____ | |

Date of work completion 06/24/98

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.

Approximate date work will start _____

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.

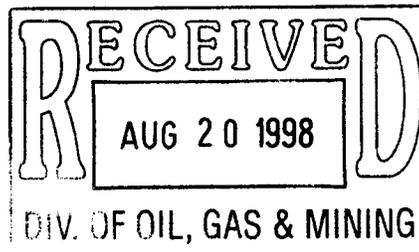
13. Shad Frazier

Name & Signature Shad Frazier

Title Engineer

Date 08/12/98

(This space for State use only)



JENSEN #16-10

SE SE 330' FSL & 330' FEL: SEC 10 T12S-R10E
API NO. 43-007-30161

SPUD RIG OFF
SURFACE 08/21/1992 08/26/1992
PRODUCTION 08/30/1992 09/12/1992

7260 GL 19 KB 7279

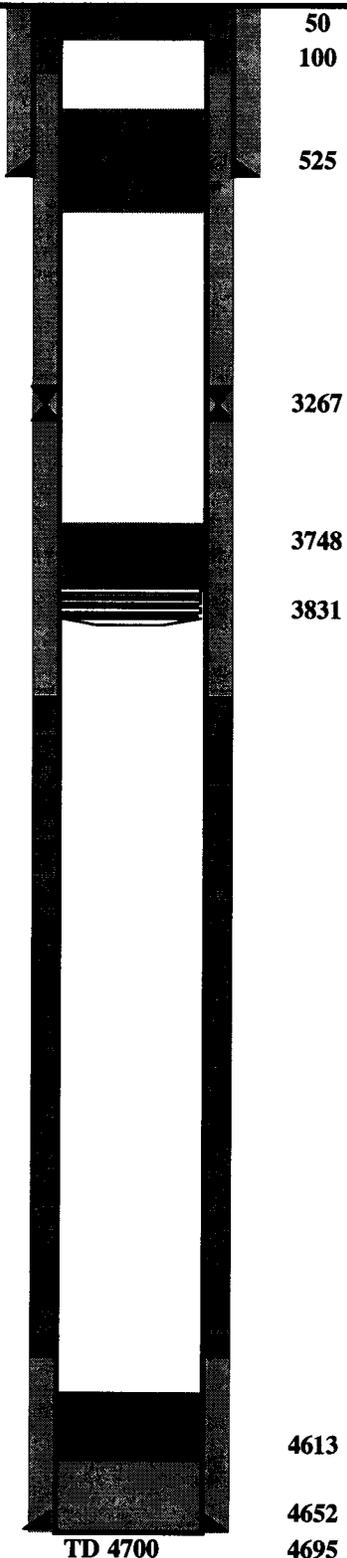
12-1/4" Hole
9-5/8" 36# J-55
w/275 sxs cmt
TOC @ Surface

DV Tool
w/295 sxs cmt

CIBP

(Holes)	Perforations
(19)	3891 - 3894
(19)	3941 - 3944
(19)	3972 - 3975
(24)	4008 - 4012
(15)	4048 - 4050
(32)	4078 - 4084
(41)	4095 - 4103
(12)	4140 - 4142
(84)	4160 - 4180
(12)	4204 - 4206
(15)	4222 - 4224
(19)	4247 - 4250
(34)	4255 - 4261
(45)	4308 - 4316
(32)	4323 - 4330
(116)	4336 - 4364
(188)	4473 - 4520
(180)	4528 - 4573
(148)	4591 - 4628
(1,054) Total Holes	

FILL
8-3/4" Hole
7", 26&29# N-80
w/290 sxs cmt



WELL WORK HISTORY

07/23/1993	F/4222-4316 W/62M GAL XL CMHEC, 36M# 100 MESH, 59M# 16/30, 42M# RESIN COAT
07/27/1993	SQZ 3740-3950 W/200 SXS, TEST TO 2250 PSI
07/30/1993	F/3891-4103 W/57M GAL XL CMHEC, 36M# 100 MESH, 57M# 16/30, 43M# RESIN COAT
07/21/1993	
08/08/1993	COMPLT AS DUAL 2-1/16" SPRNG CNYN INJ & 2-7/8" BLKHWK PROD
11/09/1994	PULL DUAL EQUIP & CNVRT TO SINGLE PROD w/ ALL ZONES OPEN. HPC 200 STATOR & 175 RTR, TFF @ 4622 & CO TO 4652
03/09/1995	REPERF COAL, PERF ABER & KENIL, BRKDN W/ 148 BBLs 15% HCL, USING PPI TOOL.
06/02/1995	HOLE IN TBG, DIALOG/HYDRO TEST, TFF 4610
06/09/1995	PARTED ROTOR, RUN SAME STATOR
08/16/1995	ROTOR WORN; STATOR FAILURE
11/07/1995	STATOR FAILURE - HOLE IN TBG.
12/14/1995	HOLE IN TBG.
02/21/1996	STATOR FAILURE; CO 4567-4644
06/25/1996	HOLE IN TBG; ACIDIZE FOR SCALE PROBLEMS
08/13/1996	PARTED PR
09/17/1996	PARTED ROTOR; CO 3 RODS
01/29/1997	STATOR FAILURE; HIT; TFF 4620'
03/04/1997	THIRD PR TD PR IN 4 MONTHS
07/03/1997	CO PC PMP
NOTES:	DO FC 5/93

TUBING BREAKDOWN

2-7/8"	141 JTS
TA	4473
2-7/8"	JTS
3-1/2"	1 JTS
SN	
TAG BAR	4537
2-7/8"	1 JTS
NC	4577
EOT	4577

ROD BREAKDOWN

PONIES	2'
1"	4475'
7/8"	
3/4"	
1"	
1.5"	
PUMP	PC
BMW 60-5200	

DEVIATION ANGLE

1021	1.8
1420	2.8
1830	2.8
2306	3.3
2820	4.3
3438	4.5
3817	5
4210	6
4700	6

FORMATION

PRICE RIVER	2670
CASTLEGATE	3097
BLACKHAWK	3433
KENILWORTH	4147
ABERDEEN	4334
SPRING CANYON	4472

TOP

LAST REVISED: 07/21/1998

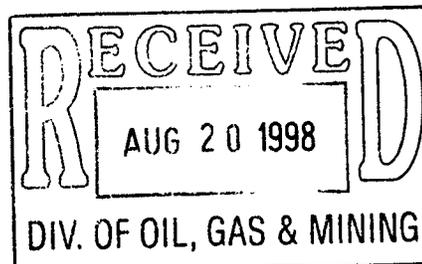
CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
Asadacko	16-10	JENSEN	P3A	433732

TIME	DEPTH	WELL NO.	LEASE	JOB TYPE	DESCRIPTION
07:00					OO Loc. Rig up
07:20					Safety Meeting
07:25					R.T.H.
08:00		2840	1700	⊖	20T ✓ @ 2500'
08:26		8900	3700	660	2T ✓ @ 3831' (Tag @ 3831')
08:30	2.0	3	3900	⊖	Start C.M.T. Down C.T. @ 3831'
08:35	1.0	122	4450	2526	⊖ Start Poz Down C.T. start pulling out of Hole at 26 F.P.M.
09:47	ND	8	1807	2800	⊖ Have Return
10:37	1.0	2			⊖ Start C.M.T @ 707' through C.T.
10:59	1.0	17	413	3700	⊖ Start Poz Through C.T.
10:55	1.0	2	-170	3990	⊖ Start surface plug @ 69'-0'
10:58	1.5	5			⊖ Replace C.M.T through C.T.
11:10					Rig Down repair to pump C.M.T Down Back side (95/8" 37')
12:00					standby
12:57					Rig up Back side, repair to set plug
13:10					R.T.H. (95/8" 37") 100'
13:35					C.M.T at surface, Rig Down Move to New Log.
					Thank You.



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

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 purposes

5. Lease Designation and Serial Number
Fee

6. Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Well Name and Number:

Jensen #16-10

9. API Well Number:

43-007-30161

10. Field and Pool, or Wildcat

Castlegate

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

2. Name of Operator

Anadarko Petroleum Corporation

3. Address and Telephone Number.

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

4. Location of Well

Footages: E SE 330' FSL & 330' FEL
QQ, Sec., T., R., M.: Sec. 10 T12S-R10E

County: Carbon
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

Approximate date work will start Early Spring

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

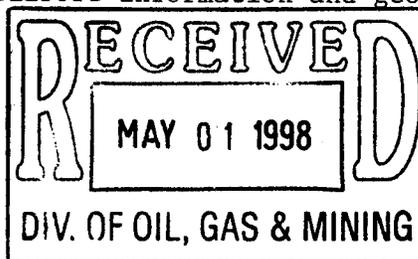
Date of work completion _____

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

(5/94)

DATE: 5-14/98
BY: D. James (See Instructions on Reverse Side)



Petroleum Corporation

Plugging Procedure

Jensen #16-10
Sec. 10-T12S-R10E 330' FSL & 330' FEL
Carbon County, Utah

AFE: 501501
WI: 100%
API # 43-007-30161

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 4630. POH w/ GR/JB and pick up CIBP. Trip in hole and set CIBP @ +/- 3880(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 @ +/- 3880.
4. POH to bottom of surface casing @ 525 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: AM

Castlegate plugging.doc

cc: Steve Pearson
Alan O'Donnell
Kendall Madden
Shad Frazier
Tom Rushing
WF - Jensen #16-10, Carbon County, Utah

JENSEN #16-10

SE SE 330' FSL & 330' FEL: SEC 10 T12S-R10E
API NO. 43-007-30161

SPUD RIG OFF
SURFACE 08/21/1992 08/26/1992
PRODUCTION 08/30/1992 09/12/1992

7260 GL 19 KB 7279

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

525

DV Tool
w/295 sxs cmt

3267

Sqz w/ 200 sxs cmt

(Holes)	Perforations
(19)	3891 - 3894
(19)	3941 - 3944
(19)	3972 - 3975
(24)	4008 - 4012
(15)	4048 - 4050
(32)	4078 - 4084
(41)	4095 - 4103
(12)	4140 - 4142
(84)	4160 - 4180
(12)	4204 - 4206
(15)	4222 - 4224
(19)	4247 - 4250
(34)	4255 - 4261
(45)	4308 - 4316
(32)	4323 - 4330
(116)	4336 - 4364
(188)	4473 - 4520
(180)	4528 - 4573
(148)	4591 - 4628

(1,054) Total Holes

TA 4537
EOT 4577

FILL 4613

8-3/4" Hole 4652
7", 26&29# N-80
w/290 sxs cmt 4695

TD 4700

WELL WORK HISTORY

07/23/1993 F/4222-4316 W/62M GAL XL CMHEC, 36M# 100
MESH, 59M# 16/30, 42M# RESIN COAT

07/27/1993 SQZ 3740-3950 W/200 SXS, TEST TO 2250 PSI

07/30/1993 F/3891-4103 W/57M GAL XL CMHEC, 36M# 100

07/21/1993 MESH, 57M# 16/30, 43M# RESIN COAT

08/08/1993 COMPLT AS DUAL 2-1/16" SPRNG CNYN INJ &
2-7/8" BLKHWK PROD

11/09/1994 PULL DUAL EQUIP & CNVRT TO SINGLE PROD
w/ ALL ZONES OPEN. HPC 200 STATOR
& 175 RTR, TFF @ 4622 & CO TO 4652

03/09/1995 REPERF COAL, PERF ABER & KENIL, BRKDN W/
148 BBLs 15% HCL, USING PPI TOOL.

06/02/1995 HOLE IN TBG, DIALOG/HYDRO TEST, TFF 4610

06/09/1995 PARTED ROTOR, RUN SAME STATOR

08/16/1995 ROTOR WORN; STATOR FAILURE

11/07/1995 STATOR FAILURE - HOLE IN TBG.

12/14/1995 HOLE IN TBG.

02/21/1996 STATOR FAILURE; CO 4567-4644

06/25/1996 HOLE IN TBG; ACIDIZE FOR SCALE PROBLEMS
08/13/1996 PARTED PR

09/17/1996 PARTED ROTOR; CO 3 RODS

01/29/1997 STATOR FAILURE; HIT; TFF 4620'

03/04/1997 THIRD PRD PR IN 4 MONTHS

07/03/1997 CO PC PMP

NOTES: DO FC 5/93

TUBING BREAKDOWN

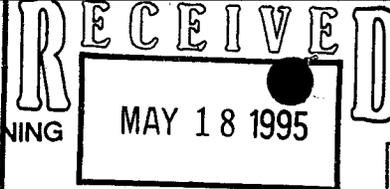
2-7/8"	JTS
TA	
2-7/8"	JTS
3-1/2"	JTS
SN	
TAG BAR	
2-7/8"	JTS
NC	
EOT	

ROD BREAKDOWN

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

DEVIATION ANGLE	FORMATION	TOP
1021 1.8	PRICE RIVER	2670
1420 2.8	CASTLEGATE	3097
1830 2.8	BLACKHAWK	3433
2306 3.3	KENILWORTH	4147
2820 4.3	ABERDEEN	4334
3438 4.5	SPRING CANYON	4472
3817 5		
4210 6		
4700 6		

LAST REVISED: 04/30/1998



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.

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

8. Well Name and Number:
Jensen 16-10

2. Name of Operator: Anadarko Petroleum Corporation

9. API Well Number:
43-007-30161

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 330' FSL & 330' FEL
Footages:
QQ, Sec., T., R., M.: SE/4 SE/4 Sec. 10-T12S-R10E

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 _____
- 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 11-09-94

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 4565'
3. Put on Production

13.

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

(This space for State use only)

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 Communization Agreement
NA
9. Well Name and Number
Jensen 16-10
10. API Well Number
43-007-30161
11. Field and Pool, or Wildcat
Wildcat

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	4. Telephone Number
6688 N. Central Expwy., Suite 1000, Dallas, TX 75206	(214) 750-3800
5. Location of Well	
Footage : 330' FSL & 330' FEL	County : Carbon
QQ. Sec. T., R., M. : SE/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 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 _____	

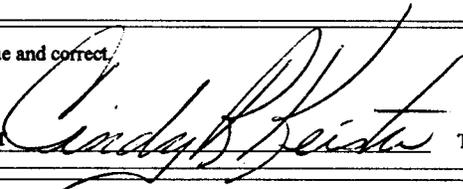
Date of Work Completion _____

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 16-10
10. API Well Number
43-007-30161
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.

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 : 330' FSL & 330' FEL County : Carbon
 QQ. Sec, T., R., M. : SE/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)

Abandonment New Construction
 Casing Repair Pull or Alter Casing
 Change of Plans Recompletion
 Conversion to Injection Shoot or Acidize
 Fracture Treat Vent or Flare
 Multiple Completion Water Shut-Off
 Other NTL-2B

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit in Duplicate)

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

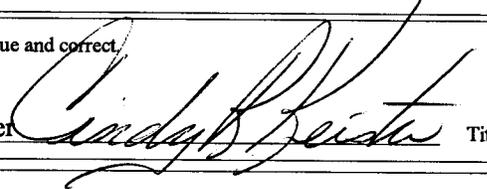
Date of Work Completion _____

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)

**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.

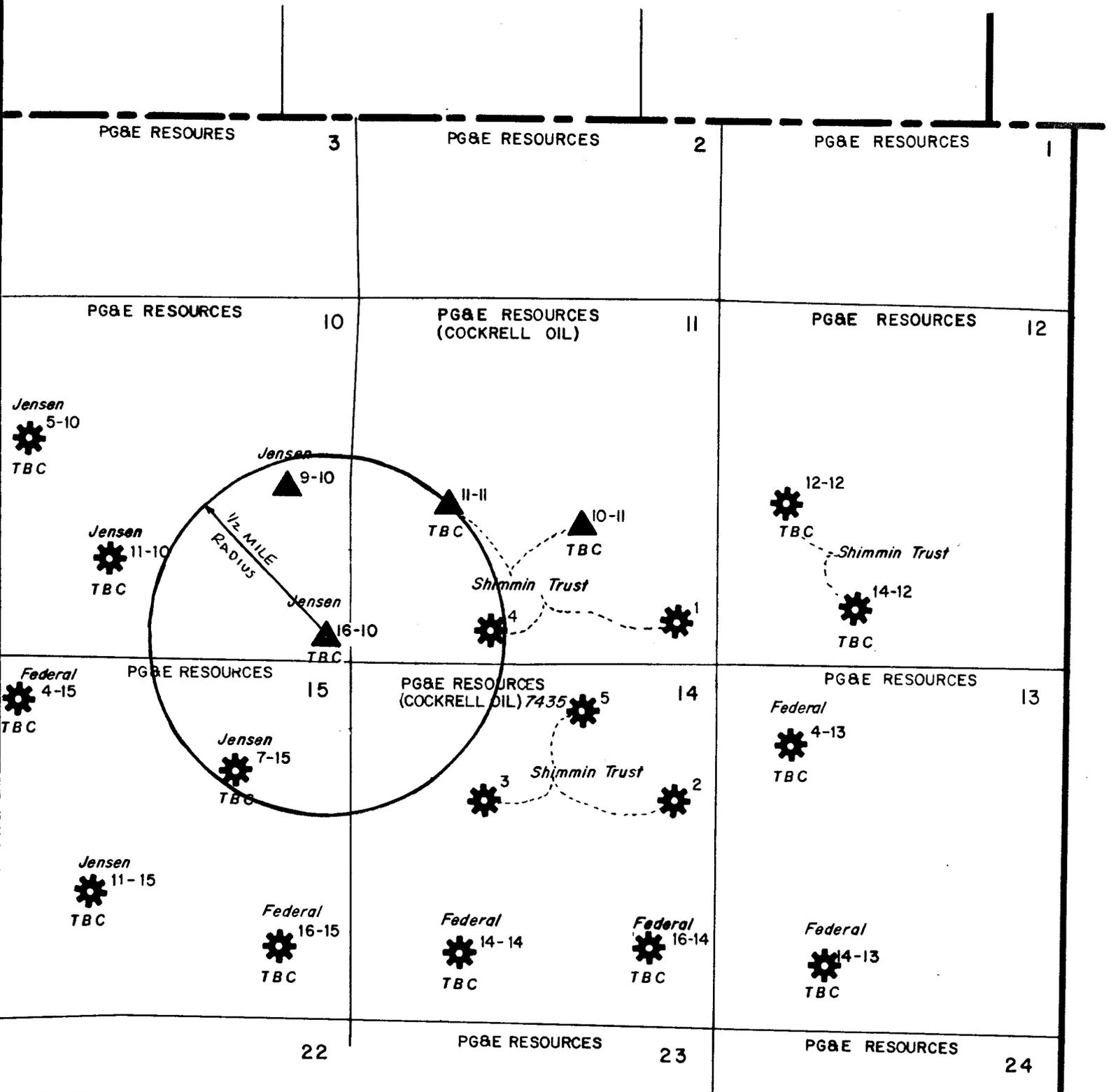
PG&E Resources intends to inject the produced water into the Spring Canyon Sand. This would be accomplished by dually completing four (4) of the wells. These wells will produce from the Blackhawk through the upper tubing string and inject into the Spring Canyon Sand through the lower tubing string. The 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.

III. JENSEN #16-10

A. UIC FORM 1

B. PLATS



10 E

LEGEND

-  PRODUCING WELLS
-  SALT WATER DISPOSAL WELLS (PROPOSED)

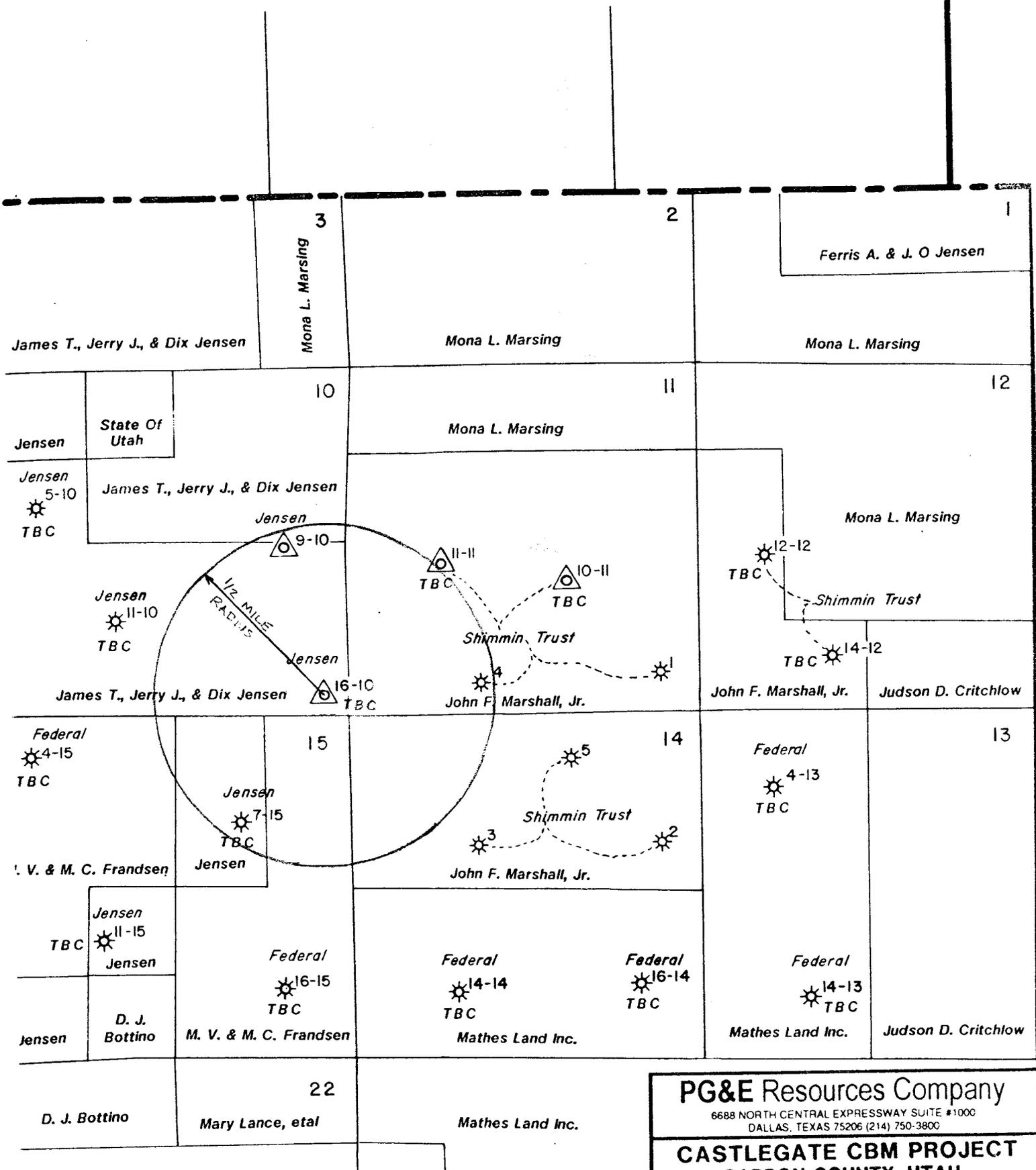
PG&E Resources Company
 6688 NORTH CENTRAL EXPRESSWAY SUITE #1000
 DALLAS, TEXAS 75206 (214) 750-3800

CASTLEGATE CBM PROJECT
CARBON COUNTY, UTAH

APPLICATION FOR
SALT WATER DISPOSAL WELLS

0 2000 4000
 SCALE IN FEET

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



10 E

COMPLETED IN 1993

LEGEND

-  PRODUCING WELLS
-  SALT WATER DISPOSAL WELLS (PROPOSED)

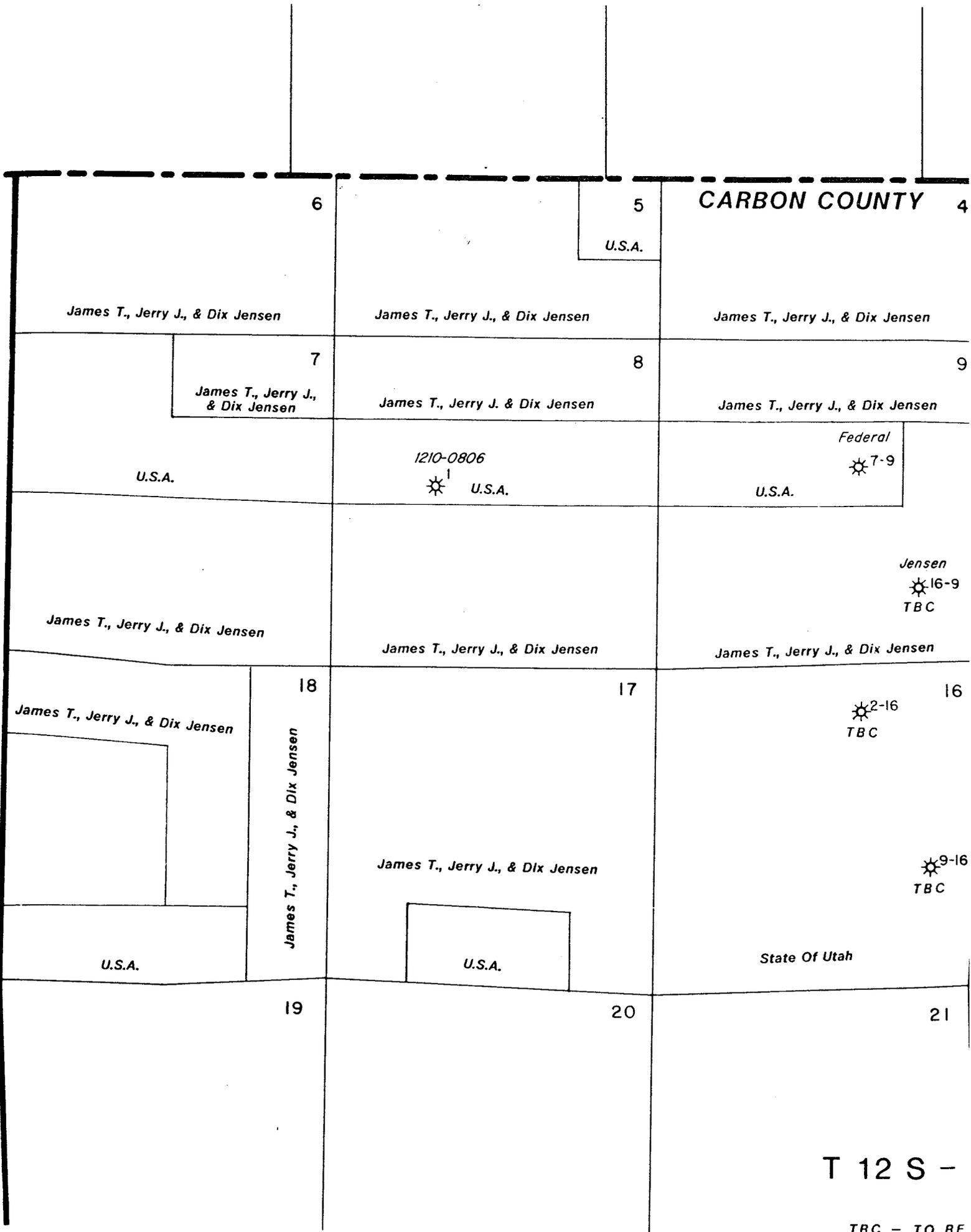
PG&E Resources Company
 6688 NORTH CENTRAL EXPRESSWAY SUITE #1000
 DALLAS, TEXAS 75206 (214) 750-3800

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 4

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

9

James T., Jerry J., & Dix Jensen

James T., Jerry J. & Dix Jensen

James T., Jerry J., & Dix Jensen

U.S.A.

1210-0806

☀¹ U.S.A.

Federal

☀⁷⁻⁹

U.S.A.

James T., Jerry J., & Dix Jensen

James T., Jerry J., & Dix Jensen

James T., Jerry J., & Dix Jensen

Jensen
☀¹⁶⁻⁹
TBC

18

17

16

James T., Jerry J., & Dix Jensen

James T., Jerry J., & Dix Jensen

James T., Jerry J., & Dix Jensen

☀²⁻¹⁶
TBC

U.S.A.

U.S.A.

☀⁹⁻¹⁶
TBC

State Of Utah

19

20

21

T 12 S -

TBC - TO BE

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>
September 9, 1992	Spectral Density Log
September 9, 1992	Dual Induction Guard Log

D. CEMENT BOND LOG

An Acoustic Cement Bond Log will be run on the subject well in early 1993 and will be submitted to the Division of Oil, Gas and Mining at that time.

E. CASING PROGRAM

This well was drilled, casing was set and the well temporarily abandoned on September 11, 1992. The well will be dually completed in early 1993. Production will be from the Blackhawk formation through the upper 2-7/8" tubing and disposal of salt water will be 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	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'	

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 four (4) offset wells which are located within a one-half (1/2) mile radius of the Jensen #16-10 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 7-15

	<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	543'	4,462'	3,294'
Amount of Cement	370 sacks	265 sacks	240/50
Type of Cement	Premium	50/50 Pozmix	Hilift/Class G
Slurry Volume	436.6	339.2	995.9
Top of Cement	Surface	3,294'	Surface
Date Set	9-5-92	9-26-92	9-26-92
PBTD		4,370'	

Jensen 9-10

	<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	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'	

Shimmin Trust 4

	<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)	23	17	
Grade	WC-50	WC-70	
Setting Depth	627'	4,630'	3,562'
Amount of Cement	450/25	320 sacks	310 sacks
Type of Cement	Premium/Pozmix	50/50 Pozmix	Silica Lite
Slurry Volume	563.25	409.6	1,212.1
Top of Cement	Surface	3,562'	Surface
Date Set	7-22-90	9-15-90	9-15-90
PBTD		4,583'	

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 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 #16-10 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



Signature

Jim LaFevers
Name

Supervisor, Regulatory Affairs
Title

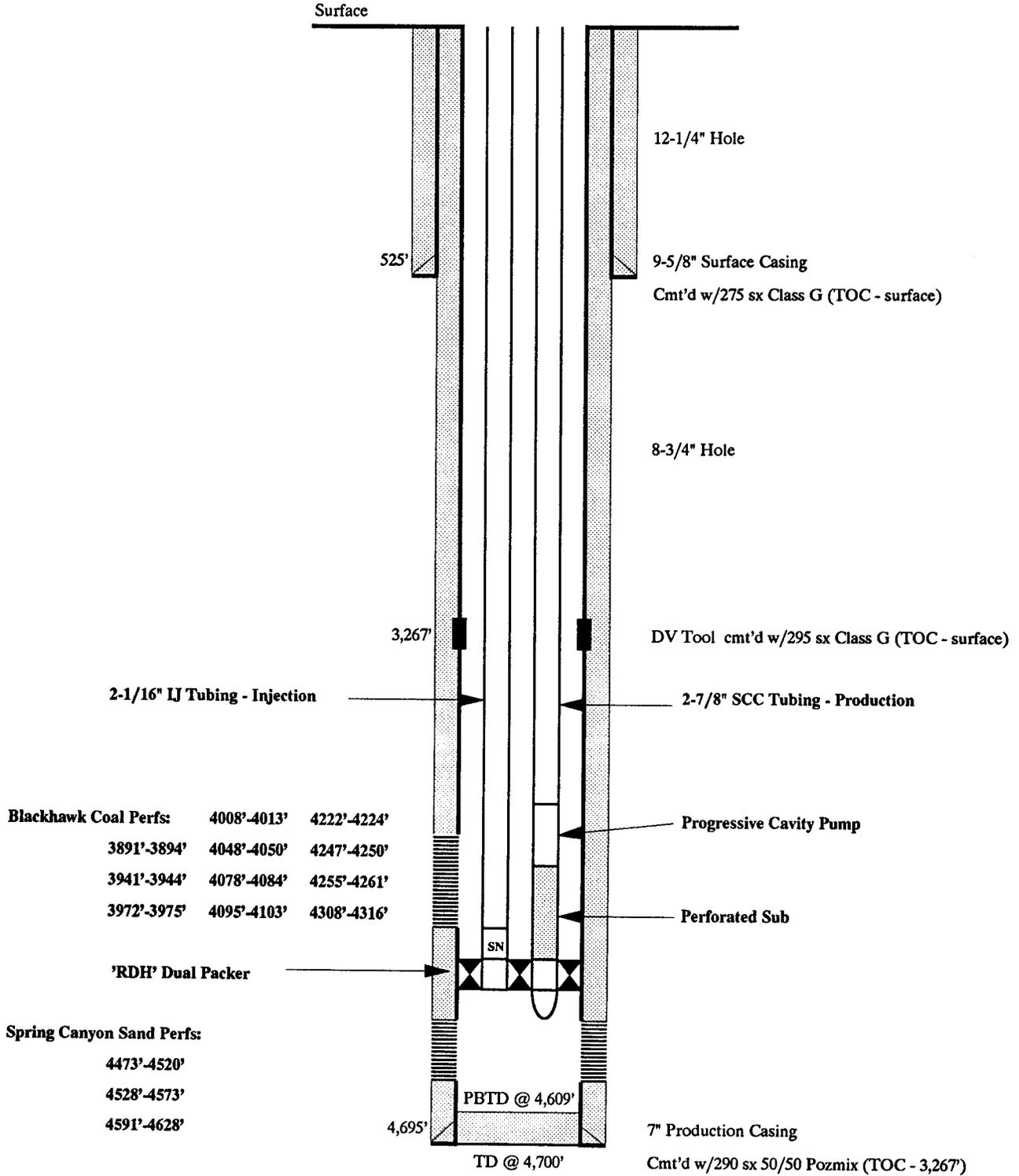
(214) 750-3988
Telephone

February 1, 1993
Date

JENSEN NO. 16-10

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.

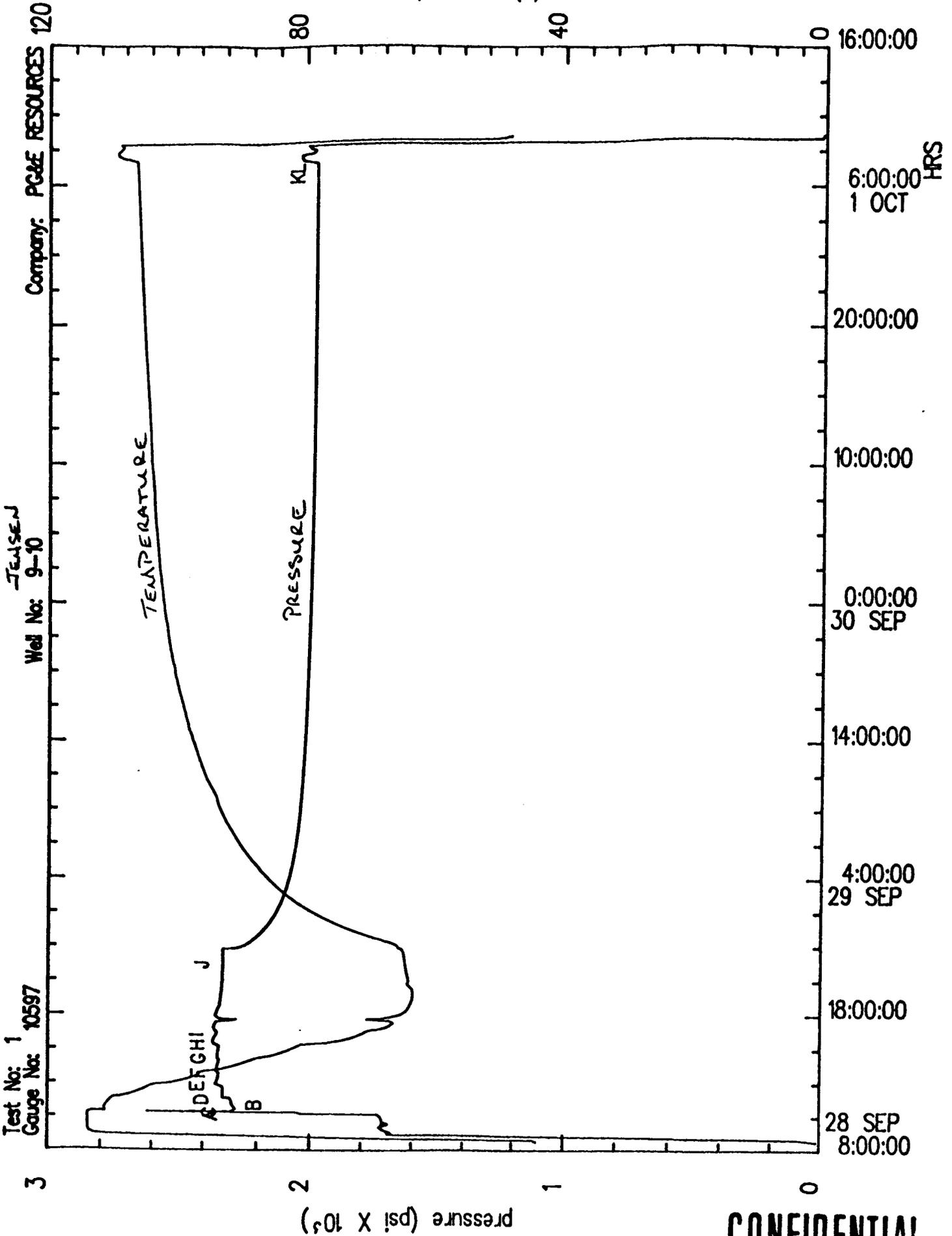
A swab sample was obtained from 4705'-74'. Comparison of the Spring Canyon water analysis from the swab sample to the analysis of the coal bed produced water sample which was used for injection tests indicated the TDS is slightly higher in the Spring Canyon, 10520 mg/l vs. 8250 mg/l. Chlorides in the 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.

temperature (F)

Pressure/Temperature History



CONFIDENTIAL

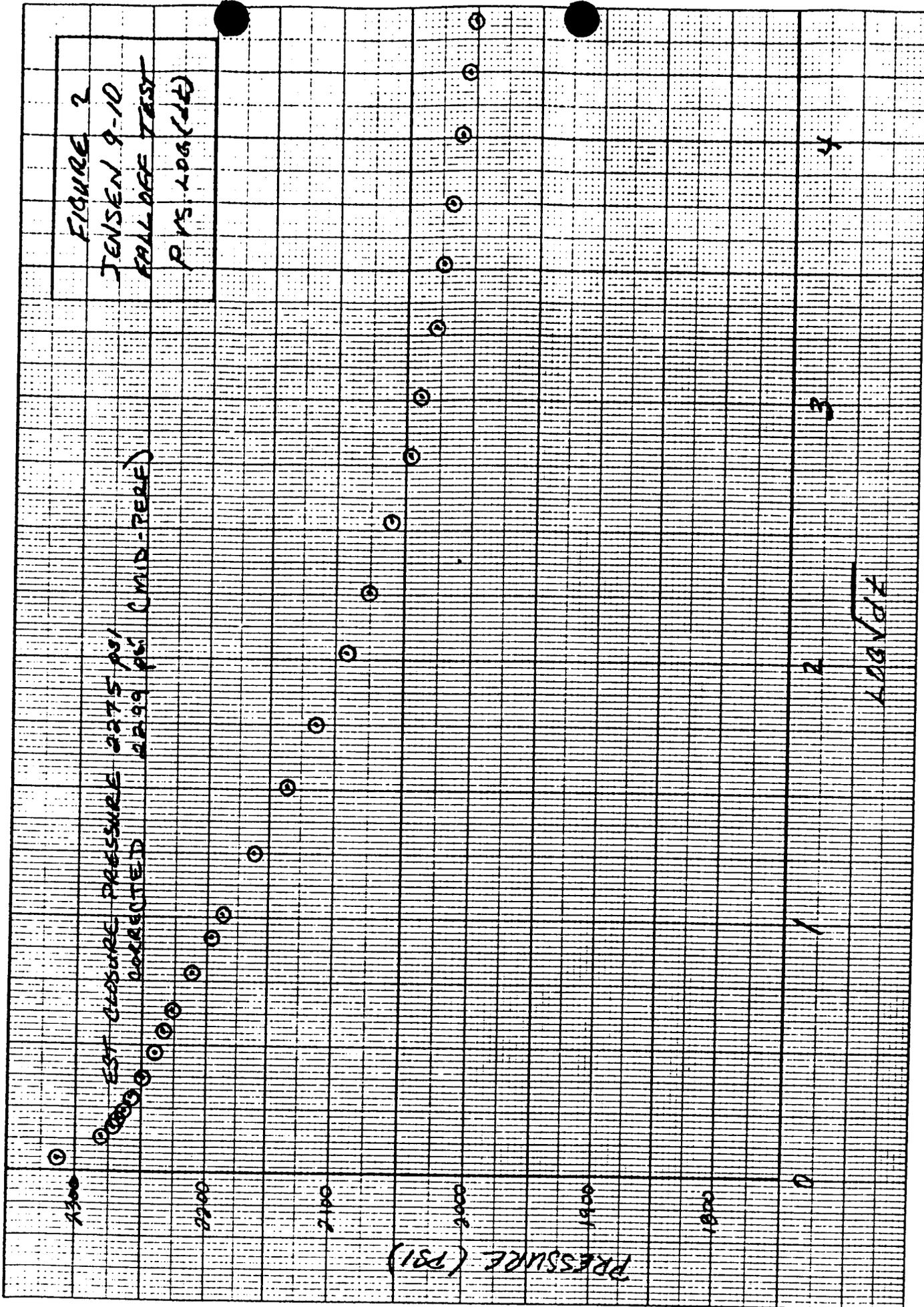
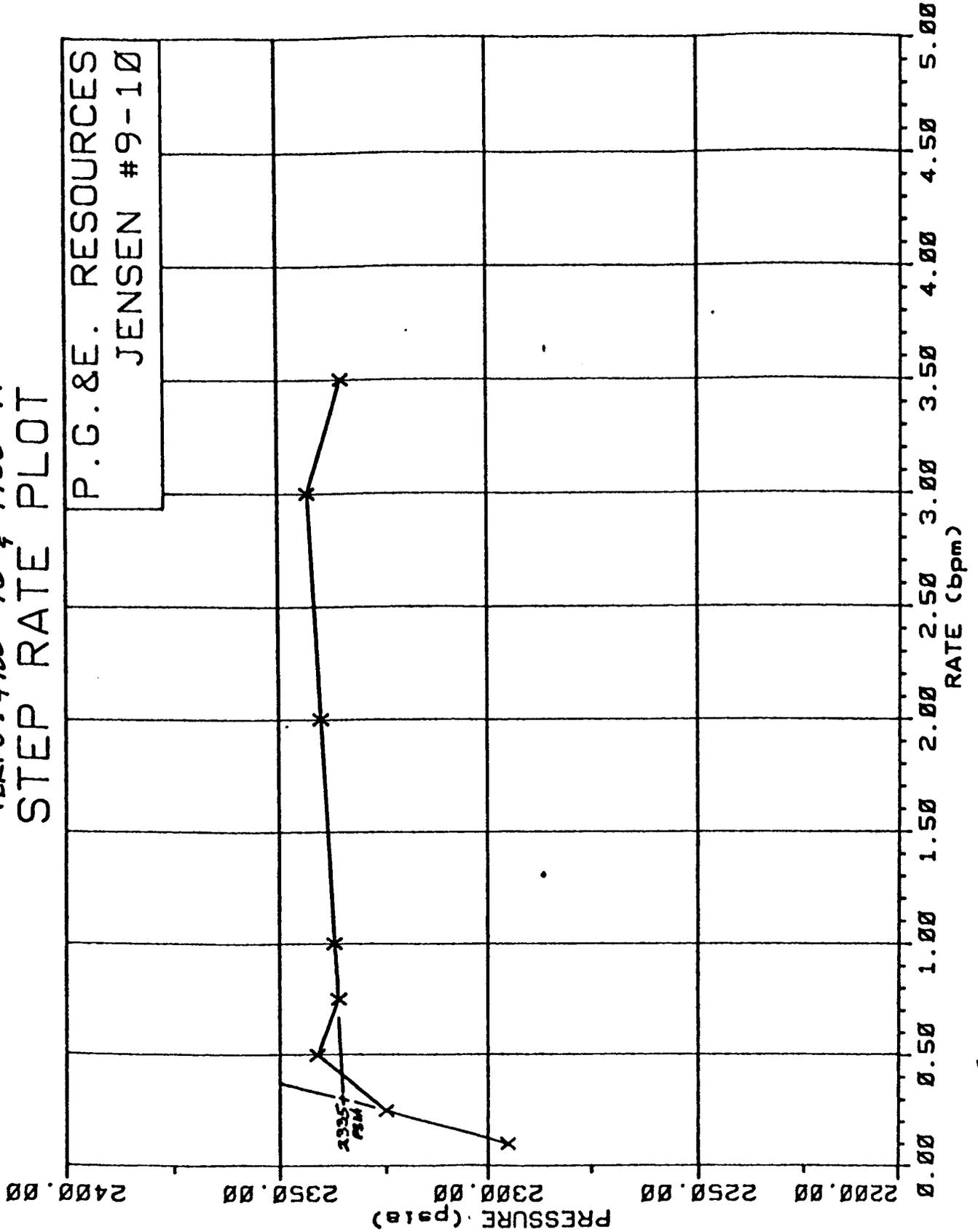
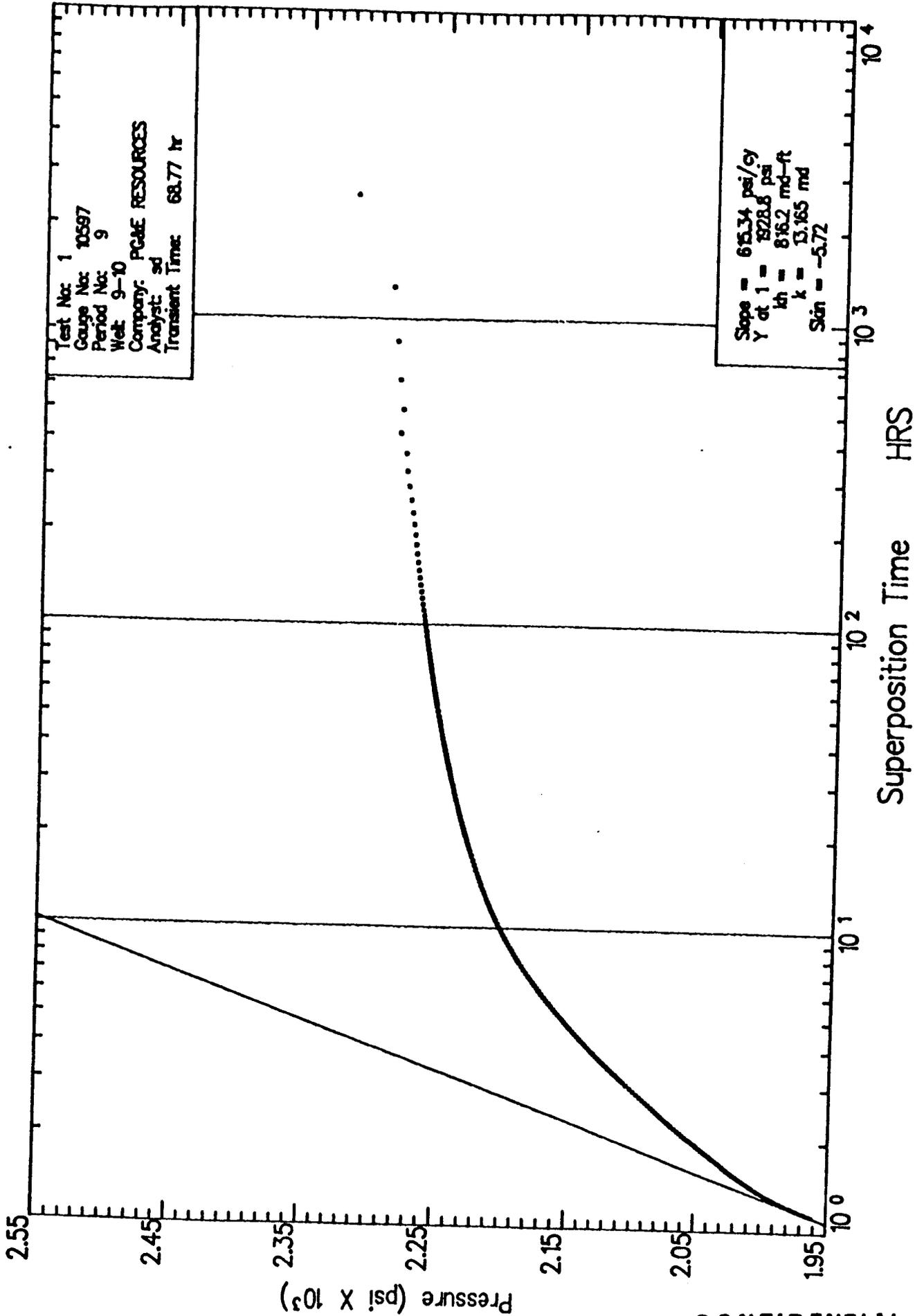


FIGURE 3
SPRING CANYON SAND
PERFS : 4705'-46' & 4753'-74'
STEP RATE PLOT



CONFIDENTIAL

FIGURE 4
SEMI-LOG PLOT



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: 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 ₂)	10
*BICARBONATE (HCO ₃)	2,122
**CARBONATE (CO ₃)	1,628
HYDROXIDE (OH)	0
SULFATE (SO ₄)	280
CHLORIDE (Cl)	2,610

	mg/l
P ALKALINITY (AS CaCO ₃)	1,360
M ALKALINITY (AS CaCO ₃)	3,100
TOTAL HARDNESS (AS CaCO ₃)	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)	CUMLATIVE 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.

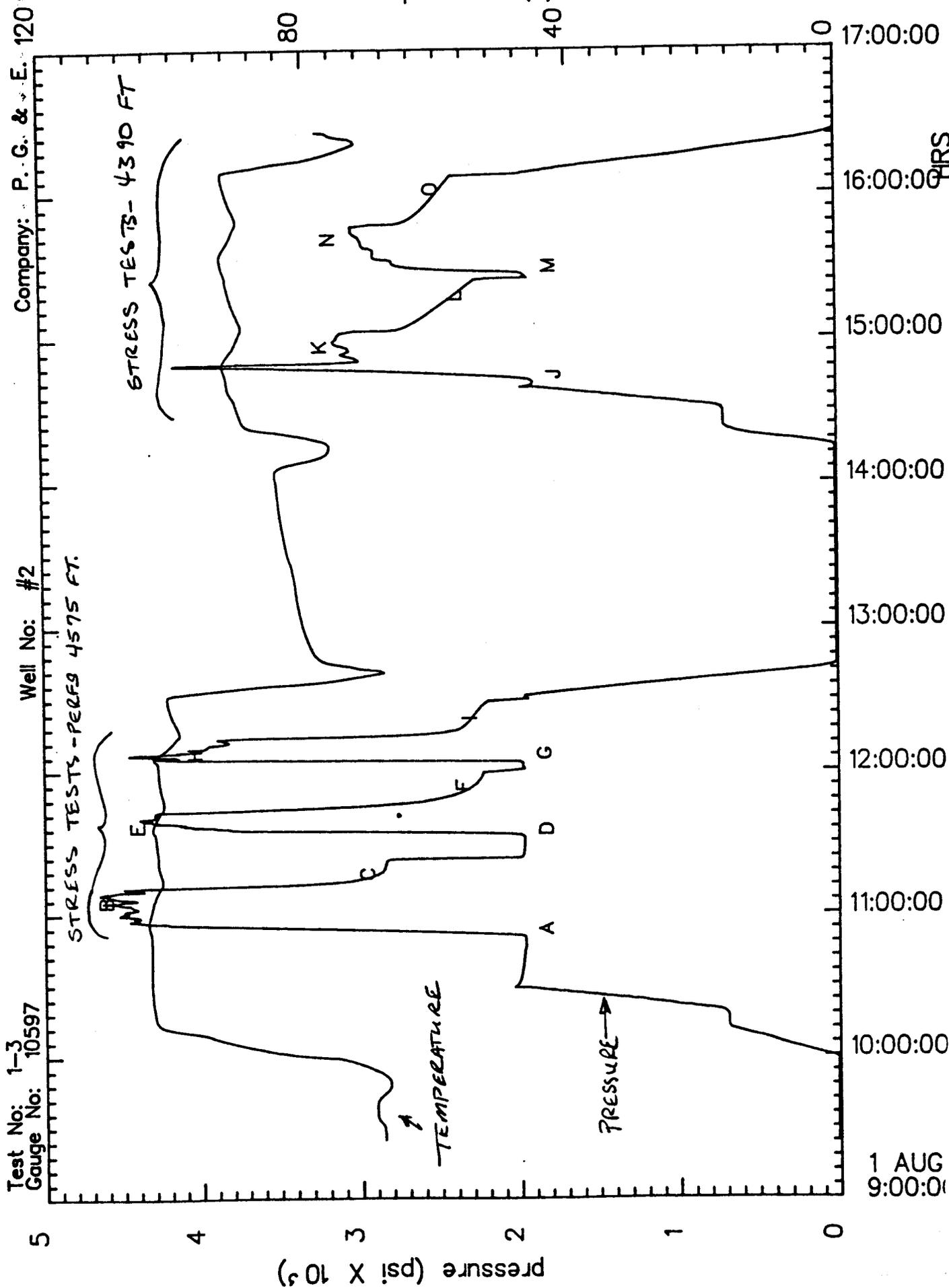
All of the data obtained indicates the Spring Canyon sand injection to be the most economic way of disposing of the produced water from the Castlegate project. Drilling has incorporated 7" casing in four wells to allow dual completion of the coals and injection interval.

CONFIDENTIAL

temperature (F)

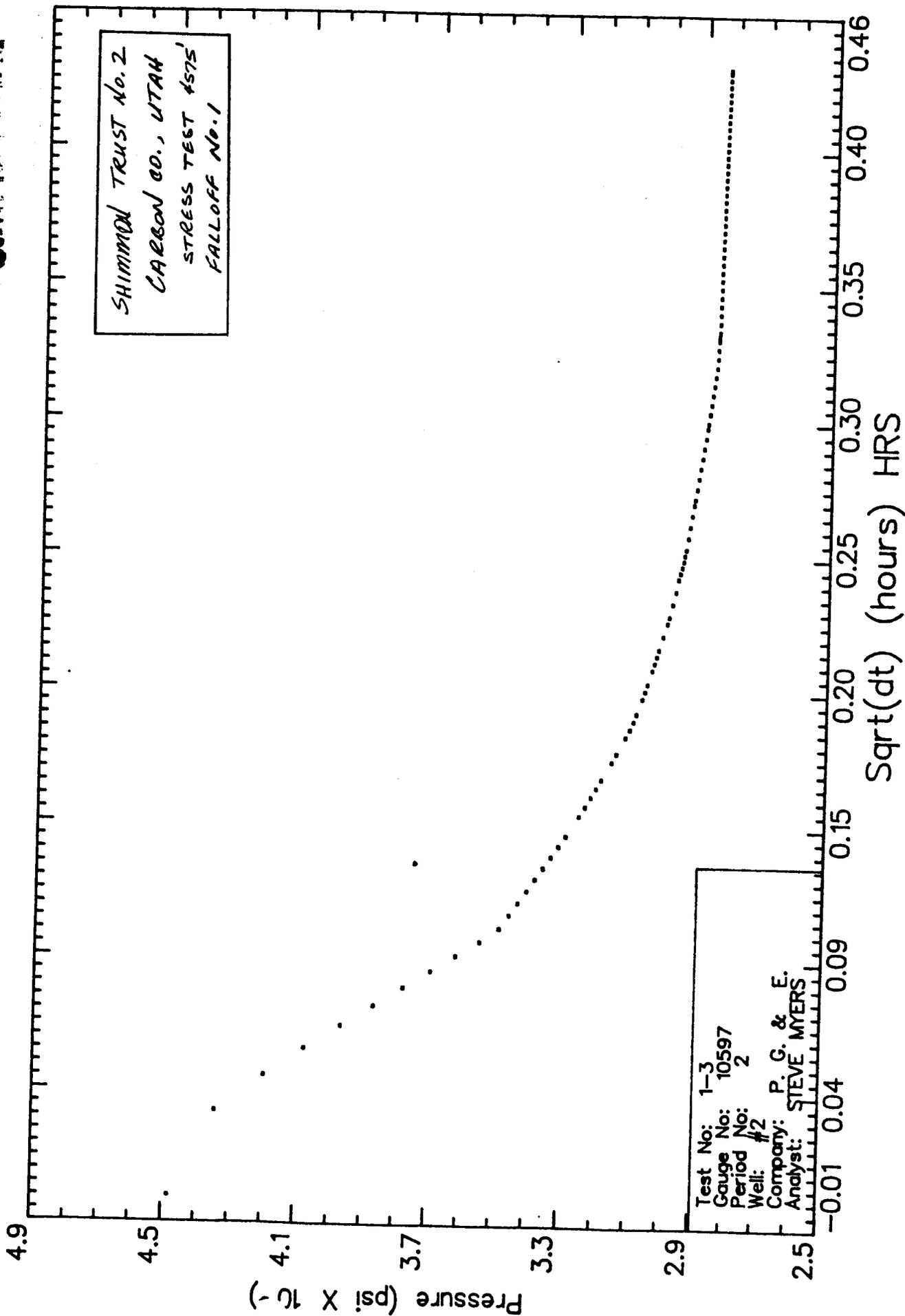
CONFIDENTIAL

Pressure/Temperature History



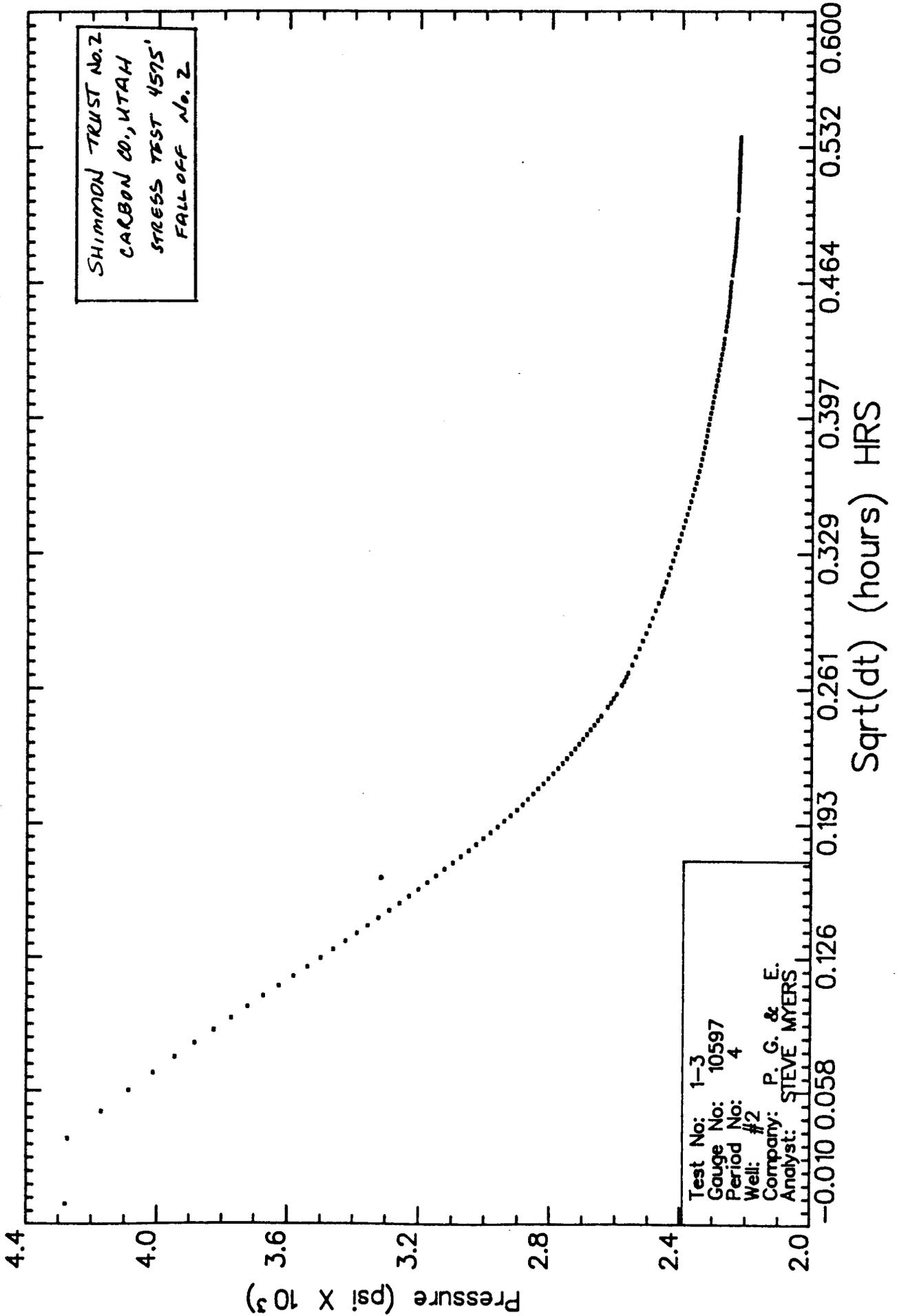
Pressure Vs Sqrt(dt)

CONFIDENTIAL



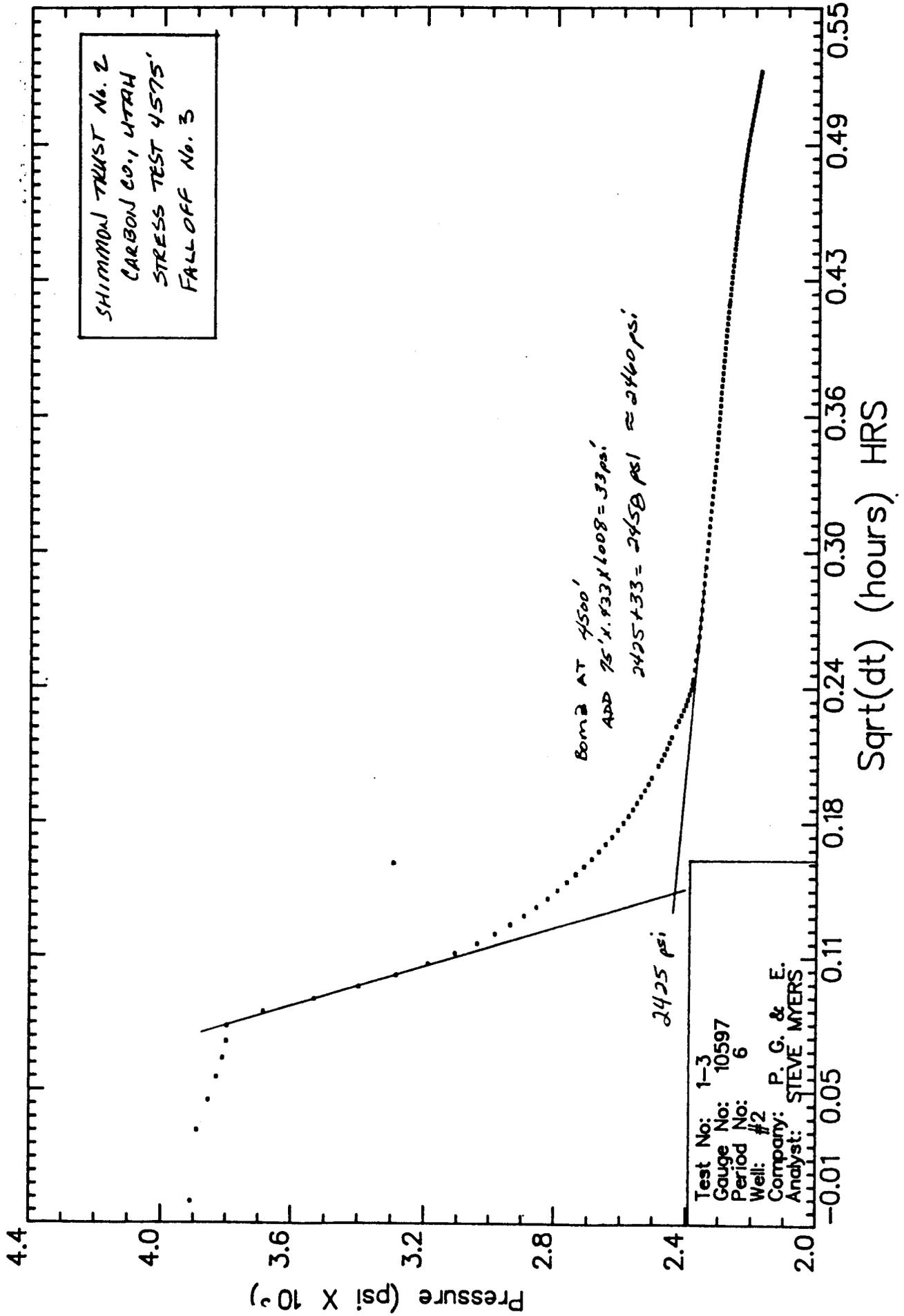
CONFIDENTIAL

Pressure Vs Sqrt(dt)



CONFIDENTIAL

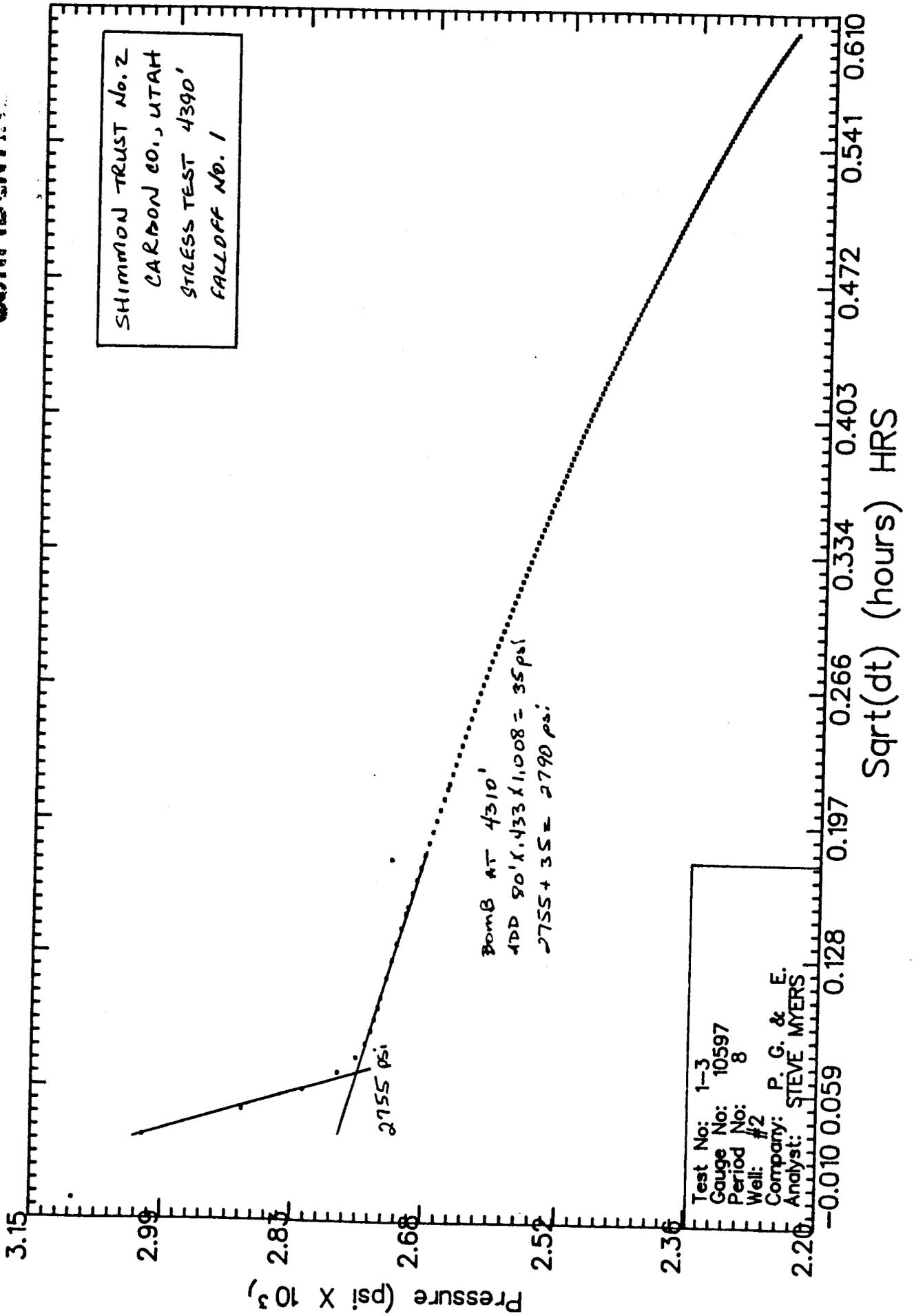
Pressure Vs Sqrt(dt)



Pressure Vs Sqrt(dt)

CONFIDENTIAL

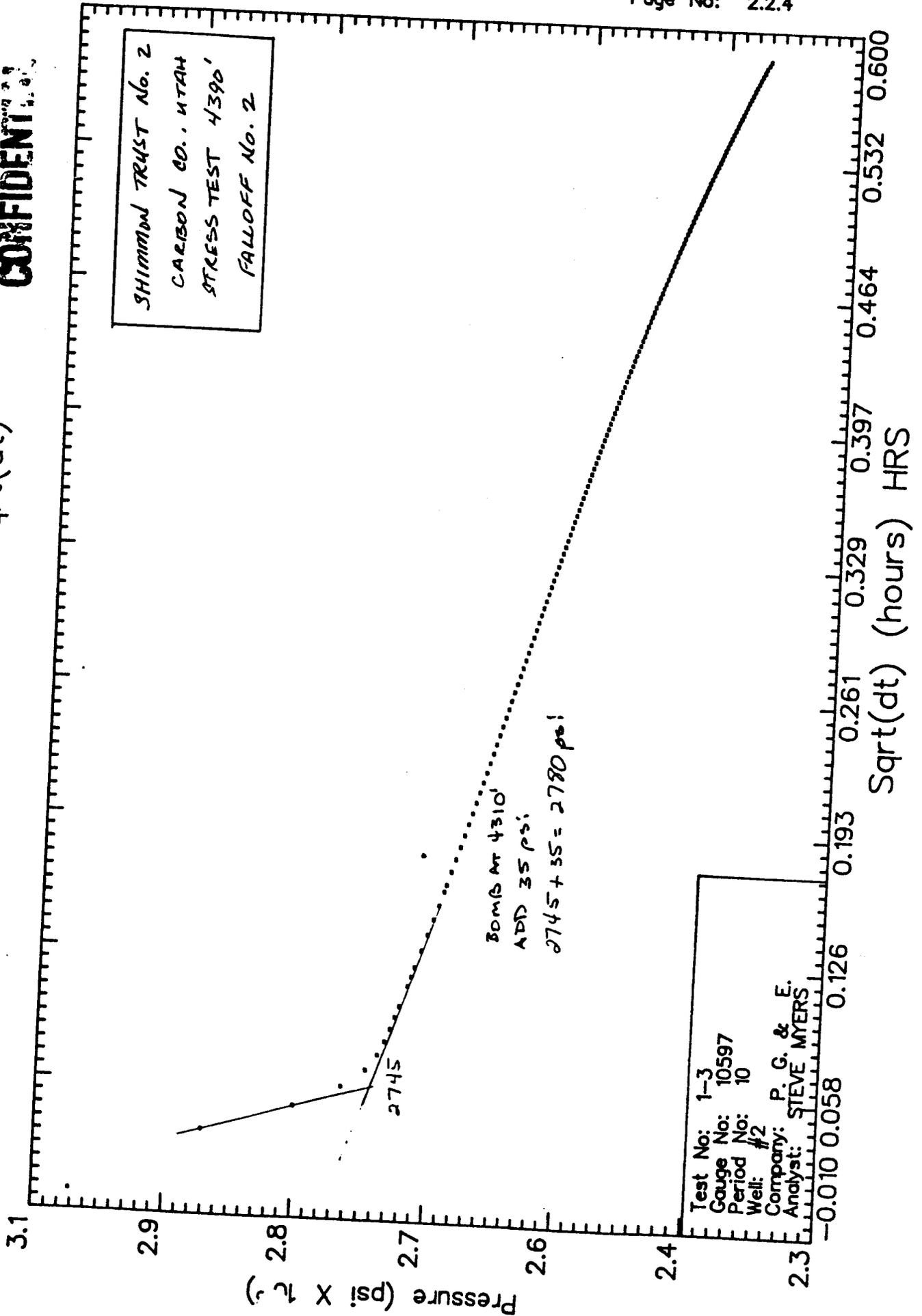
SHIMMON TRUST No. 2
 CARBON CO., UTAH
 STRESS TEST 4390'
 FALLOFF No. 1



Test No: 1-3
 Gauge No: 10597
 Period No: 8
 Well: #2
 Company: P. G. & E.
 Analyst: STEVE MYERS

CONFIDENTIAL

Pressure Vs Sqrt(dt)



Date: 01-AUG-92

Ticket No: 005117

Page No: 1.4

temperature (F)

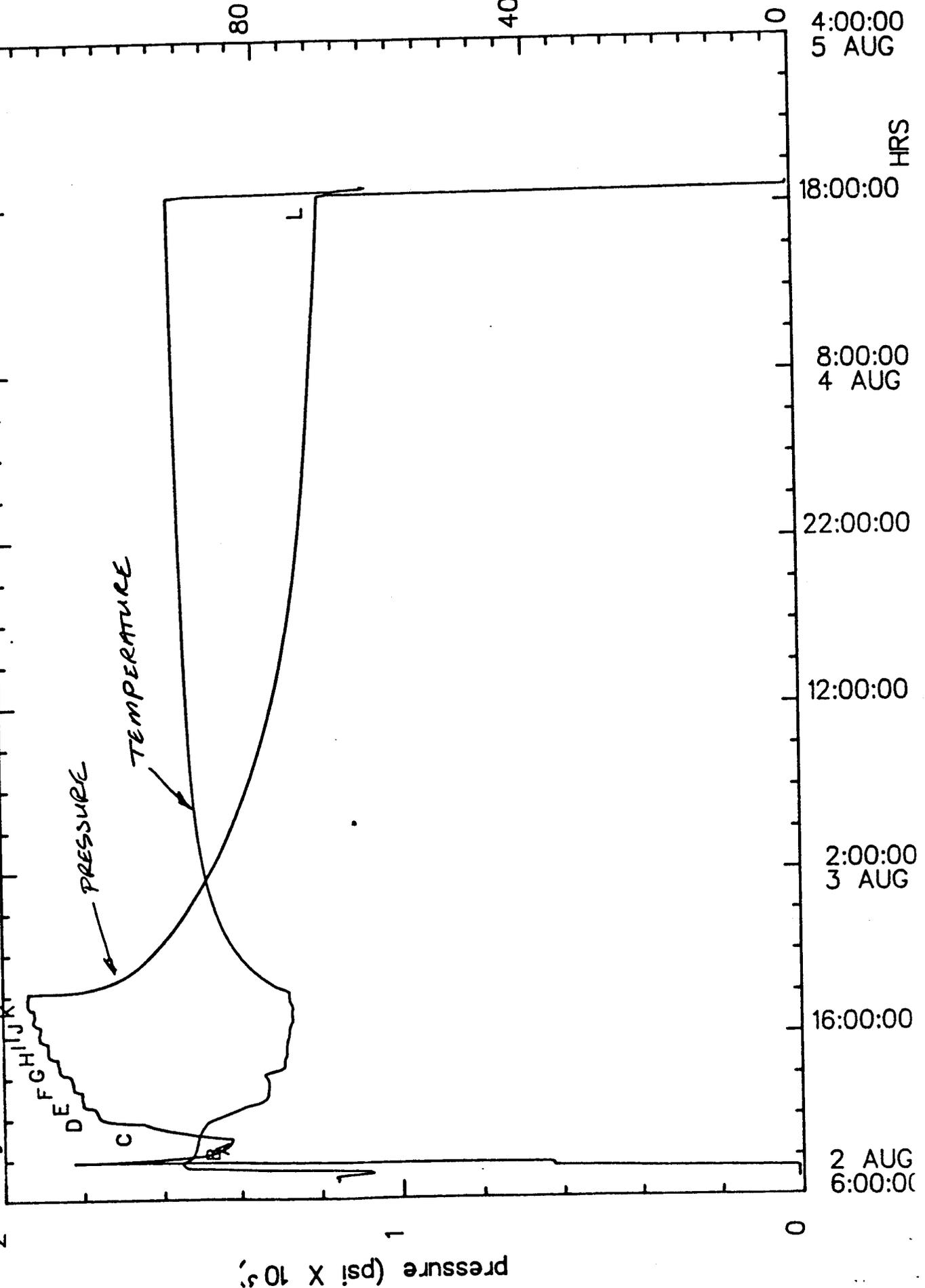
CONFIDENTIAL

Pressure/Temperature History

Company: P. G. & E. 120

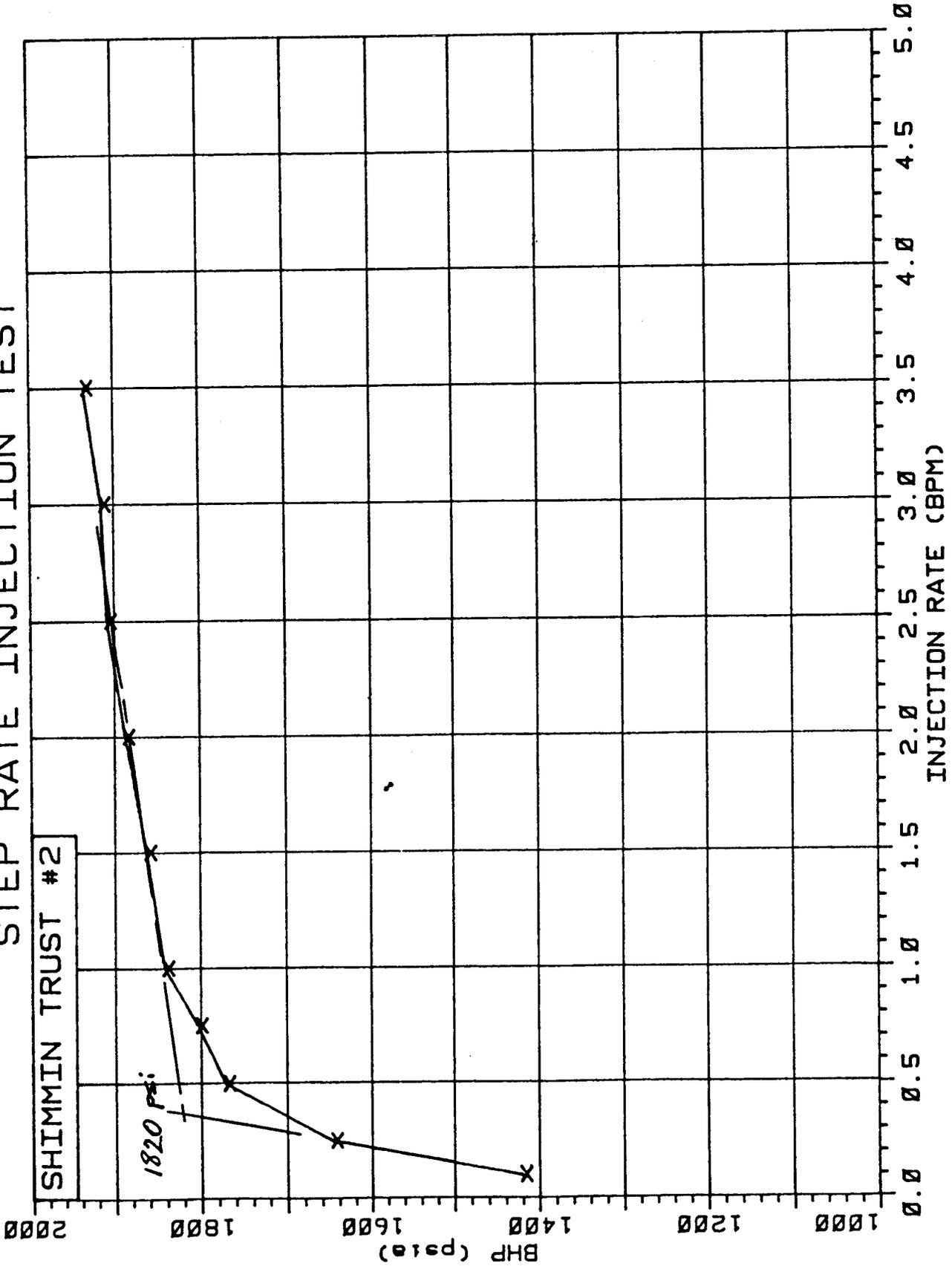
Well No: #2

Test No: 1-3
Gauge No: 10596



CONFIDENTIAL

PERFS: 4440' - 4528'
STEP RATE INJECTION TEST



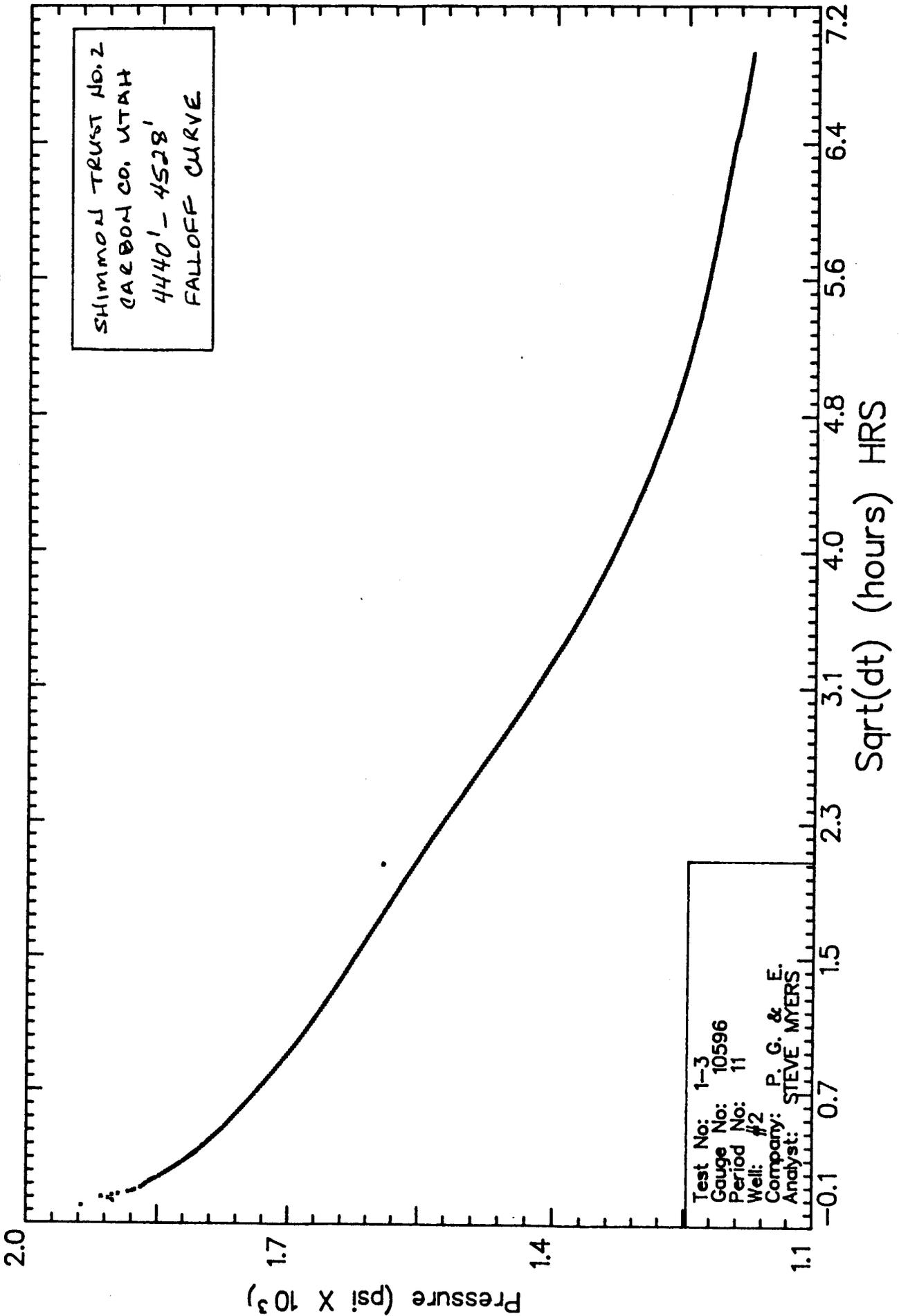
SHIMMIN TRUST #2

1820 psi

• ADJUST TO MDPERF 4484'
 • BOMB AT 4060'
 ADD (4484' - 4060') (1.433 x 1.000) = 185 psi
 1820 + 185 = 2005 psia

CONFIDENTIAL

Pressure Vs Sqrt(dt)



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



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 #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)	2,165
POTASSIUM (K)	1
BARIUM (Ba)	<1
IRON (Fe)	0.2
SILICA (SiO2)	13
*BICARBONATE (HCO3)	5,182
CARBONATE (CO3)	0
HYDROXIDE (OH)	0
SULFATE (SO4)	1
CHLORIDE (Cl)	470

	mg/l		
'P' ALKALINITY (AS CaCO3)	0	RESISTIVITY @ 77 DEG. F.	0.873
'M' ALKALINITY (AS CaCO3)	4,250	SPECIFIC GRAVITY @ 74 DEG. F.	1.007
TOTAL HARDNESS (AS CaCO3)	160	pH VALUE	7.98
TOTAL DISSOLVED SOLIDS	7,900		

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 CaCO3: 4250



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 #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



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 #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
M ALKALINITY (AS CaCO3)	4,450
TOTAL HARDNESS (AS CaCO3)	120
TOTAL DISSOLVED SOLIDS	8,535

RESISTIVITY @ 77 DEG. F.	0.796
SPECIFIC GRAVITY @ 74 DEG. F.	1.009
pH VALUE	8.26

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



**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 #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	RESISTIVITY @ 77 DEG. F.	0.847
M ALKALINITY (AS CaCO3)	3,920	SPECIFIC GRAVITY @ 74 DEG. F.	1.009
TOTAL HARDNESS (AS CaCO3)	104	pH VALUE	8.36
TOTAL DISSOLVED SOLIDS	7,690		

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



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 RO 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 $CaCO_3$; 35



**PETROLEUM LABORATORY
AND GAS ENGINEERING**

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

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 ⁺ -B	0.1 UNIT
BICARBONATES (HCO ₃)	2320-B	1.0
CARBONATE (CO ₃)	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)



PETROLEUM LABORATORY
AND GAS ENGINEERING

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

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

1 - WAYNE SUTTON - DALLAS, TX



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



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 (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

STATE OF UTAH
OIL AND 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 10-10, JENSEN 9-10, SHIMMIN TRUST 11-11, AND SHIMMIN TRUST 10-10 AND 11, TOWNSHIP 10 SOUTH, RANGE 10 EAST, SLIM CANYON 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 10-10, Jensen 9-10, Shimmin Trust 11-11, and Shimmin Trust 10-10 and 11, Township 10 South, Range 10 East, Slim Canyon 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 4869 feet (Spring of the Mesa Valley) to be selectively permeable for water disposal. The injection pressure is estimated to be 1500 psig or less. The maximum requested injection volume is approximately 600,000 gallons per day.

Any person desiring to be heard in the application of PG & E Resources Company must file a written protest or intervention with the Division within fifteen days of the date of publication of this notice. A protest or intervention must be scheduled with the Division of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how his matter affects their interests.

DATED this 17th day of February 1993.

STATE OF UTAH
DIVISION OF OIL AND GAS AND MINING
M. J. RICH

2-23-93
M. J. RICH

AFFIDAVIT OF PUBLICATION

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

Deirdre M. [Signature]
Notary Public

My Commission expires January 10, 1995

Residing at Price, Utah

Publication fee, \$ 32.00

**NOTICE OF AGENCY ACTION
CAUSE NO. UIC-131
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, JENSON 9-10, SHIMMIN TRUST 11-11, AND SHIMMIN
TRUST 10-11 WELLS LOCATED IN SECTIONS 10 AND 11, TOWN-
SHIP 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 Sec-
tions 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
-s-R.J. Firth

Associate Director, Oil and Gas
Published in the Sun Advocate February 23, 1993.

January 29, 1993

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

RE: UIC Form 1 Application
Jensen #16-10
Castlegate CBM Project
Carbon County, Utah

Gentlemen:

In compliance with the requirement of R615-5-2(2.12) of the State of Utah - Department of Natural Resources - Division of Oil, Gas and Mining - Underground Injection Control regulations, which requires that a copy of UIC Form 1 be provided to all surface owners within a one-half mile radius of the proposed disposal well, please find attached a copy of the UIC Form 1 application to dispose salt water into the referenced well.

If you have any questions, please contact the undersigned at (214) 750-3988.

Sincerely,



Jim LaFevers
Supervisor,
Regulatory Affairs

JBL/mp

Enclosure

January 29, 1993

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

RE: UIC Form 1 Application
Jensen #16-10
Castlegate CBM Project
Carbon County, Utah

Gentlemen:

In compliance with the requirement of R615-5-2(2.12) of the State of Utah - Department of Natural Resources - Division of Oil, Gas and Mining - Underground Injection Control regulations, which requires that a copy of UIC Form 1 be provided to all surface owners within a one-half mile radius of the proposed disposal well, please find attached a copy of the UIC Form 1 application to dispose salt water into the referenced well.

If you have any questions, please contact the undersigned at (214) 750-3988.

Sincerely,



Jim LaFavers
Supervisor,
Regulatory Affairs

JBL/mp

Enclosure

January 29, 1993

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

RE: UIC Form 1 Application
Jensen #16-10
Castlegate CBM Project
Carbon County, Utah

Gentlemen:

In compliance with the requirement of R615-5-2(2.12) of the State of Utah - Department of Natural Resources - Division of Oil, Gas and Mining - Underground Injection Control regulations, which requires that a copy of UIC Form 1 be provided to all surface owners within a one-half mile radius of the proposed disposal well, please find attached a copy of the UIC Form 1 application to dispose salt water into the referenced well.

If you have any questions, please contact the undersigned at (214) 750-3988.

Sincerely,



Jim LaFevers
Supervisor,
Regulatory Affairs

JBL/mp

Enclosure

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
RECORD OF ABANDONMENT OPERATIONS

COMPANY NAME: ANADARKO PETROLEUM CORP.

WELL NAME: JENSEN 16-10
QTR/QTR: SE/SE SECTION: 10 TOWNSHIP: 12S RANGE: 10E

COUNTY: CARBON API NO: 43-007-30161

INSPECTOR: DAVID HACKFORD TIME: VARIOUS DATE: 6/24/98
SURFACE CASING SHOE DEPTH 525' 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 3831' FT. TO 3748' FT. TAGGED YES NO
SLURRY: PREMIUM PLUS, 1.18 YIELD, 15.6 PPG. 14 SACKS

PLUG 2. SET FROM 550' FT. TO 500' 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

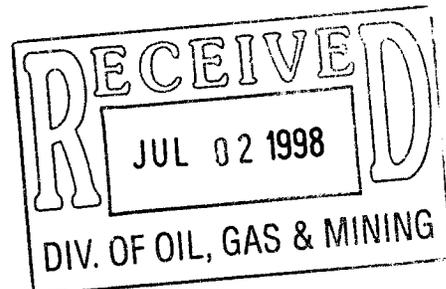
PERFORATIONS: ALL BELOW 3831 FT. TO FT.
FROM FT. TO FT.

1 CIBP SET: 3831'

2 CIBP SET: _____

ABANDONMENT MARKER: PLATE: PIPE: CORRECT INFORMATION:

COMMENTS: ALL CEMENT PLUGS WERE PUMPED AND SET THROUGH HALLIBURTON ENDLESS TUBING.



Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING
 CDW

X - Change of Operator (Well Sold)

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

4/1/2013

FROM: (Old Operator): N0035-Anadarko Petroleum Corporation PO Box 173779 Denver, CO, 80214 Phone: 1 (720) 929-6000	TO: (New Operator): N3940- Anadarko E&P Onshore LLC PO Box 173779 Denver, CO 802014 Phone: 1 (720) 929-6000
---	---

CA No.			Unit:					
WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
See Attached List								

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: 4/9/2013
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/9/2013
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 4/10/2013
- a. Is the new operator registered in the State of Utah: Business Number: 593715-0161
- 5a. (R649-9-2)Waste Management Plan has been received on: Yes
- 5b. Inspections of LA PA state/fee well sites complete on: 4/10/2013
- 5c. Reports current for Production/Disposition & Sundries on: 4/10/2013
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 4/2/2013 BIA N/A
- Federal and Indian Units:**
 The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
- Federal and Indian Communization Agreements ("CA"):**
 The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** 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: 4/10/2013

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 4/11/2013
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 4/11/2013
- Bond information entered in RBDMS on: 4/10/2013
- Fee/State wells attached to bond in RBDMS on: 4/11/2013
- Injection Projects to new operator in RBDMS on: 4/11/2013
- Receipt of Acceptance of Drilling Procedures for APD/New on: N/A

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: WYB000291
- Indian well(s) covered by Bond Number: N/A
- a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 22013542
- b. The **FORMER** operator has requested a release of liability from their bond on: N/A

LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **NEW** 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: 4/11/2013

COMMENTS:

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 type="checkbox"/> OTHER <u>CBM Wells</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: <u>See Wells</u>
2. NAME OF OPERATOR: <u>Anadarko Petroleum Corporation</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 CITY <u>Denver</u> STATE <u>CO</u> ZIP <u>80217</u>		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: <u>(720) 929-6000</u>		8. WELL NAME and NUMBER:
4. LOCATION OF WELL FOOTAGES AT SURFACE:		9. API NUMBER: <u>See Wells</u>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		10. FIELD AND POOL, OR WILDCAT:
COUNTY: <u>Denver</u>		STATE: <u>UTAH</u>

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: <u>4/8/2013</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 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.

The operator is requesting authorization to transfer the wells from Anadarko Petroleum Corporation and Anadarko Production Company to Anadarko E&P Onshore, LLC. Please see the attached list of 181 wells that are currently filed under Anadarko Petroleum Corporation and Anadarko Production Company. The state/fee wells will be under bond number 22013542, and the federal wells will be under bond number WYB000291.

Effective 4/1/13

Please contact the undersigned if there are any questions.

RECEIVED
APR 09 2013

Jaime Scharnowske
Jaime Scharnowske
Regulatory Analyst

Anadarko Petroleum Corporation **N0035**
P.O. Box 173779
Denver, CO 80214
(720) 929-6000

DIV. OF OIL, GAS & MINING
Jaime Scharnowske
Jaime Scharnowske
Regulatory Analyst

Anadarko E&P Onshore, LLC **N3940**
P.O. Box 173779
Denver, CO 80214
(720) 929-6000

NAME (PLEASE PRINT) <u>Jaime Scharnowske</u>	TITLE <u>Regulatory Analyst</u>
SIGNATURE <u>Jaime Scharnowske</u>	DATE <u>4/8/2013</u>

(This space for State use only)
APPROVED
APR 11 2013
DIV. OIL GAS & MINING
Rachel Medina

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940)
 Effective 1st April-2013

Well Name	Sec	Twncshp	Range	API	Entity No.	Lease Type	Well Type	Well status
HELPER ST SWD 1	03	140S	100E	4300730361	12258	State	WD	A
FED F-2 SWD	08	140S	100E	4300730555	12557	Federal	WD	A
CLAWSON SPRING ST SWD 4	13	160S	080E	4301530477	12979	State	WD	A
CLAWSON SPRING ST SWD 1	36	150S	080E	4300730721	12832	State	WD	I
HELPER FED B-1	33	130S	100E	4300730189	11537	Federal	GW	P
HELPER FED A-1	23	130S	100E	4300730190	11517	Federal	GW	P
HELPER FED A-3	22	130S	100E	4300730213	11700	Federal	GW	P
HELPER FED C-1	22	130S	100E	4300730214	11702	Federal	GW	P
HELPER FED B-5	27	130S	100E	4300730215	11701	Federal	GW	P
HELPER FED A-2	22	130S	100E	4300730216	11699	Federal	GW	P
HELPER FED D-1	26	130S	100E	4300730286	12061	Federal	GW	P
BIRCH A-1	05	140S	100E	4300730348	12120	Fee	GW	P
HELPER ST A-1	03	140S	100E	4300730349	12122	State	GW	P
HELPER ST D-7	04	140S	100E	4300730350	12121	State	GW	P
CHUBBUCK A-1	31	130S	100E	4300730352	12397	Fee	GW	P
VEA A-1	32	130S	100E	4300730353	12381	Fee	GW	P
VEA A-2	32	130S	100E	4300730354	12483	Fee	GW	P
VEA A-3	32	130S	100E	4300730355	12398	Fee	GW	P
VEA A-4	32	130S	100E	4300730356	12482	Fee	GW	P
HELPER ST A-8	02	140S	100E	4300730357	12257	State	GW	P
HELPER ST A-3	02	140S	100E	4300730358	12254	State	GW	P
HELPER ST A-4	02	140S	100E	4300730359	12255	State	GW	P
HELPER ST A-7	02	140S	100E	4300730360	12256	State	GW	P
HELPER ST A-2	03	140S	100E	4300730362	12232	State	GW	P
HELPER ST A-5	03	140S	100E	4300730363	12231	State	GW	P
HELPER ST A-6	03	140S	100E	4300730364	12233	State	GW	P
HELPER ST D-4	04	140S	100E	4300730365	12228	State	GW	P
HELPER ST D-3	05	140S	100E	4300730366	12184	State	GW	P
HELPER ST D-5	04	140S	100E	4300730367	12226	State	GW	P
HELPER ST D-8	04	140S	100E	4300730368	12229	State	GW	P
HELPER ST D-2	05	140S	100E	4300730369	12481	State	GW	P
HELPER ST D-6	05	140S	100E	4300730370	12234	State	GW	P
HELPER ST D-1	06	140S	100E	4300730371	12399	State	GW	P
BIRCH A-2	08	140S	100E	4300730372	12189	Fee	GW	P
HELPER ST A-9	10	140S	100E	4300730373	12230	State	GW	P
HELPER ST B-1	09	140S	100E	4300730376	12227	State	GW	P
HELPER FED F-3	08	140S	100E	4300730378	12252	Federal	GW	P
HELPER FED F-4	09	140S	100E	4300730379	12253	Federal	GW	P
HELPER ST A-10	10	140S	100E	4300730433	12488	State	GW	P
HELPER ST A-11	11	140S	100E	4300730434	12487	State	GW	P
HELPER ST A-12	10	140S	100E	4300730435	12486	State	GW	P
HELPER ST A-13	10	140S	100E	4300730436	12485	State	GW	P
HELPER ST B-2	09	140S	100E	4300730437	12484	State	GW	P
HELPER FED E-7	19	130S	100E	4300730508	13623	Federal	GW	P
HELPER FED B-2	33	130S	100E	4300730530	12619	Federal	GW	P
HELPER FED B-3	33	130S	100E	4300730531	12622	Federal	GW	P
HELPER FED B-4	33	130S	100E	4300730532	12623	Federal	GW	P
HELPER FED B-6	27	130S	100E	4300730533	12644	Federal	GW	P
HELPER FED B-7	27	130S	100E	4300730534	12645	Federal	GW	P
HELPER FED B-8	27	130S	100E	4300730535	12631	Federal	GW	P

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940)
 Effective 1-April-2013

Well Name	Sec	Twnshp	Range	API	Entity No.	Lease Type	Well Type	Well status
HELPER FED B-9	34	130S	100E	4300730536	12646	Federal	GW	P
HELPER FED B-10	34	130S	100E	4300730537	12626	Federal	GW	P
HELPER FED B-11	34	130S	100E	4300730538	12628	Federal	GW	P
HELPER FED B-12	34	130S	100E	4300730539	12627	Federal	GW	P
HELPER FED B-13	28	130S	100E	4300730540	12621	Federal	GW	P
HELPER FED B-14	28	130S	100E	4300730541	12620	Federal	GW	P
HELPER FED D-2	26	130S	100E	4300730542	12650	Federal	GW	P
HELPER FED D-3	26	130S	100E	4300730543	12634	Federal	GW	P
HELPER FED D-4	35	130S	100E	4300730544	12625	Federal	GW	P
HELPER FED D-5	35	130S	100E	4300730545	12637	Federal	GW	P
HELPER FED D-6	35	130S	100E	4300730546	12635	Federal	GW	P
HELPER FED E-1	29	130S	100E	4300730547	13246	Federal	GW	P
HELPER FED E-2	29	130S	100E	4300730548	12636	Federal	GW	P
HELPER FED H-1	01	140S	100E	4300730549	12653	Federal	GW	P
HELPER FED H-2	01	140S	100E	4300730550	12647	Federal	GW	P
OLIVETO FED A-2	08	140S	100E	4300730556	12630	Federal	GW	P
HELPER FED F-1	08	140S	100E	4300730557	12629	Federal	GW	P
SMITH FED A-1	09	140S	100E	4300730558	13004	Federal	GW	P
SE INVESTMENTS A-1	06	140S	100E	4300730570	12624	Fee	GW	P
HELPER ST A-14	11	140S	100E	4300730571	12612	State	GW	P
HELPER ST A-15	11	140S	100E	4300730572	12613	State	GW	P
HELPER ST E-1	36	130S	100E	4300730573	12615	State	GW	P
HELPER ST E-2	36	130S	100E	4300730574	12614	State	GW	P
HARMOND A-1	07	140S	100E	4300730586	12616	Fee	GW	P
HELPER ST E-3	36	130S	100E	4300730592	12868	State	GW	P
HELPER FED A-6	23	130S	100E	4300730593	12649	Federal	GW	P
HELPER FED D-7	26	130S	100E	4300730594	12651	Federal	GW	P
HELPER FED D-8	35	130S	100E	4300730595	12652	Federal	GW	P
CLAWSON SPRING ST A-1	36	150S	080E	4300730597	12618	State	GW	P
HELPER ST E-4	36	130S	100E	4300730598	12825	State	GW	P
HELPER ST A-16	11	140S	100E	4300730603	12638	State	GW	P
CHUBBUCK A-2	06	140S	100E	4300730604	12648	Fee	GW	P
CLAWSON SPRING ST A-2	36	150S	080E	4300730635	12856	State	GW	P
CLAWSON SPRING ST A-3	36	150S	080E	4300730636	13001	State	GW	P
CLAWSON SPRING ST A-4	36	150S	080E	4300730637	12844	State	GW	P
CLAWSON SPRING ST D-5	31	150S	090E	4300730642	12852	State	GW	P
CLAWSON SPRING ST D-6	31	150S	090E	4300730643	12847	State	GW	P
CLAWSON SPRING ST D-7	31	150S	090E	4300730644	12849	State	GW	P
HELPER FED A-5	23	130S	100E	4300730677	13010	Federal	GW	P
HELPER FED A-7	22	130S	100E	4300730678	13346	Federal	GW	P
HELPER FED B-15	28	130S	100E	4300730679	13015	Federal	GW	P
HELPER FED B-16	28	130S	100E	4300730680	13203	Federal	GW	P
HELPER FED C-2	24	130S	100E	4300730681	13016	Federal	GW	P
HELPER FED C-4	24	130S	100E	4300730682	13012	Federal	GW	P
HELPER FED C-7	21	130S	100E	4300730684	13204	Federal	GW	P
HELPER FED D-9	25	130S	100E	4300730685	13245	Federal	GW	P
HELPER FED D-10	25	130S	100E	4300730686	12993	Federal	GW	P
HELPER FED D-11	25	130S	100E	4300730687	12992	Federal	GW	P
HELPER FED D-12	25	130S	100E	4300730688	13005	Federal	GW	P
HELPER FED E-4	29	130S	100E	4300730689	13229	Federal	GW	P

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940)
 Effective 1-April-2013

Well Name	Sec	Twنشp	Range	API	Entity No.	Lease Type	Well Type	Well status
HELPER FED A-4	23	130S	100E	4300730692	13009	Federal	GW	P
HELPER FED C-5	24	130S	100E	4300730693	13013	Federal	GW	P
HELPER FED G-1	30	130S	110E	4300730694	13006	Federal	GW	P
HELPER FED G-2	30	130S	110E	4300730695	13007	Federal	GW	P
HELPER FED G-3	31	130S	110E	4300730696	13002	Federal	GW	P
HELPER FED G-4	31	130S	110E	4300730697	13003	Federal	GW	P
HELPER FED H-3	01	140S	100E	4300730698	12831	Federal	GW	P
HELPER FED H-4	01	140S	100E	4300730699	12833	Federal	GW	P
CLAWSON SPRING ST D-8	31	150S	090E	4300730701	12851	State	GW	P
HELPER FED C-3	24	130S	100E	4300730702	13011	Federal	GW	P
CLAWSON SPRING ST J-1	35	150S	080E	4300730726	13299	Fee	GW	P
PIERUCCI 1	35	150S	080E	4300730727	13325	Fee	GW	P
POTTER ETAL 1	35	150S	080E	4300730728	12958	Fee	GW	P
POTTER ETAL 2	35	150S	080E	4300730737	12959	Fee	GW	P
HELPER FED G-5	30	130S	110E	4300730770	13655	Federal	GW	P
HELPER FED G-6	30	130S	110E	4300730771	13656	Federal	GW	P
HELPER FED G-7	31	130S	110E	4300730772	13657	Federal	GW	P
HELPER FED G-8	31	130S	110E	4300730773	13658	Federal	GW	P
GOODALL A-1	06	140S	110E	4300730774	13348	Fee	GW	P
HELPER FED E-8	19	130S	100E	4300730776	13624	Federal	GW	P
HAUSKNECHT A-1	21	130S	100E	4300730781	13347	Fee	GW	P
HELPER FED E-9	19	130S	100E	4300730868	13628	Federal	GW	P
HELPER FED E-5	20	130S	100E	4300730869	13625	Federal	GW	P
HELPER FED E-6	20	130S	100E	4300730870	13631	Federal	GW	P
HELPER FED E-10	30	130S	100E	4300730871	13629	Federal	GW	P
SACCOMANNO A-1	30	130S	100E	4300730872	13622	Fee	GW	P
HELPER FED E-11	30	130S	100E	4300730873	13630	Federal	GW	P
BLACKHAWK A-2	29	130S	100E	4300730886	13783	Fee	GW	P
BLACKHAWK A-3	20	130S	100E	4300730914	13794	Fee	GW	P
BLACKHAWK A-4	21	130S	100E	4300730915	13795	Fee	GW	P
BLACKHAWK A-1X	20	130S	100E	4300730923	13798	Fee	GW	P
HELPER STATE 12-3	03	140S	100E	4300750070	17824	State	GW	P
HELPER STATE 32-3	03	140S	100E	4300750071	17827	State	GW	P
HELPER STATE 32-36	36	130S	100E	4300750072	17825	State	GW	P
VEA 32-32	32	130S	100E	4300750075	17826	Fee	GW	P
CLAWSON SPRING ST E-7	07	160S	090E	4301530392	12960	State	GW	P
CLAWSON SPRING ST E-8	07	160S	090E	4301530394	12964	State	GW	P
CLAWSON SPRING ST E-3	06	160S	090E	4301530403	12965	State	GW	P
CLAWSON SPRING ST E-1	06	160S	090E	4301530404	12966	State	GW	P
CLAWSON SPRING ST E-2	06	160S	090E	4301530405	12961	State	GW	P
CLAWSON SPRING ST E-4	06	160S	090E	4301530406	12962	State	GW	P
CLAWSON SPRING ST C-1	12	160S	080E	4301530410	12617	State	GW	P
CLAWSON SPRING ST B-1	01	160S	080E	4301530427	12845	State	GW	P
CLAWSON SPRING ST B-2	01	160S	080E	4301530428	12846	State	GW	P
CLAWSON SPRING ST B-3	01	160S	080E	4301530429	12848	State	GW	P
CLAWSON SPRING ST B-4	01	160S	080E	4301530430	12854	State	GW	P
CLAWSON SPRING ST B-5	12	160S	080E	4301530431	12963	State	GW	P
CLAWSON SPRING ST B-8	11	160S	080E	4301530432	12863	State	GW	P
CLAWSON SPRING ST B-9	11	160S	080E	4301530433	12864	State	GW	P
CLAWSON SPRING ST C-2	12	160S	080E	4301530434	12850	State	GW	P

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940)
 Effective 1-April-2013

Well Name	Sec	Twnshp	Range	API	Entity No.	Lease Type	Well Type	Well status
CLAWSON SPRING ST C-4	14	160S	080E	4301530435	13199	State	GW	P
CLAWSON SPRING ST B-7	11	160S	080E	4301530460	12967	State	GW	P
CLAWSON SPRING ST C-6	14	160S	080E	4301530461	13355	State	GW	P
CLAWSON SPRING ST C-3	12	160S	080E	4301530463	12968	State	GW	P
CLAWSON SPRING ST B-6	11	160S	080E	4301530465	12969	State	GW	P
CLAWSON SPRING ST H-1	13	160S	080E	4301530466	13323	State	GW	P
CLAWSON SPRING ST H-2	13	160S	080E	4301530467	12955	State	GW	P
CLAWSON SPRING ST IPA-1	10	160S	080E	4301530468	12956	Fee	GW	P
CLAWSON SPRING ST IPA-2	15	160S	080E	4301530469	13200	Fee	GW	P
CLAWSON SPRING ST E-5	07	160S	090E	4301530470	12971	State	GW	P
CLAWSON SPRING ST G-1	02	160S	080E	4301530471	13014	State	GW	P
CLAWSON SPRING ST F-2	03	160S	080E	4301530472	13282	State	GW	P
CLAWSON SPRING ST F-1	03	160S	080E	4301530473	13278	State	GW	P
CLAWSON SPRING ST E-6	07	160S	090E	4301530474	13052	State	GW	P
CLAWSON SPRING ST G-2	02	160S	080E	4301530475	12957	State	GW	P
CLAWSON SPRING ST M-1	02	160S	080E	4301530488	13201	State	GW	P
CLAWSON SPRING ST K-1	02	160S	080E	4301530489	13202	State	GW	P
SHIMMIN TRUST 3	14	120S	100E	4300730119	11096	Fee	GW	PA
SHIMMIN TRUST 1	11	120S	100E	4300730120	11096	Fee	GW	PA
SHIMMIN TRUST 2	14	120S	100E	4300730121	11096	Fee	GW	PA
SHIMMIN TRUST 4	11	120S	100E	4300730123	11096	Fee	GW	PA
ST 9-16	16	120S	100E	4300730132	11402	State	GW	PA
ST 2-16	16	120S	100E	4300730133	11399	State	GW	PA
MATTS SUMMIT ST A-1	14	120S	090E	4300730141	11273	State	GW	PA
SLEMAKER A-1	05	120S	120E	4300730158	11441	Fee	GW	PA
JENSEN 16-10	10	120S	100E	4300730161	11403	Fee	GW	PA
JENSEN 7-15	15	120S	100E	4300730165	11407	Fee	GW	PA
SHIMMIN TRUST 12-12	12	120S	100E	4300730168	11420	Fee	GW	PA
JENSEN 11-15	15	120S	100E	4300730175	11425	Fee	GW	PA
BRYNER A-1	11	120S	120E	4300730188	11503	Fee	GW	PA
BRYNER A-1X (RIG SKID)	11	120S	120E	4300730209	11503	Fee	GW	PA
BLACKHAWK A-1	20	130S	100E	4300730885	13798	Fee	D	PA
BLACKHAWK A-5H	20	130S	100E	4300731402	17029	Fee	D	PA
CLAWSON SPRING ST SWD 3	06	160S	090E	4301530476	12978	State	D	PA
HELPER FED C-6	21	130S	100E	4300730683	13008	Federal	GW	S
UTAH 10-415	10	160S	080E	4301530391	12632	State	GW	TA

	API Well Number	Well Name	Qtr/Qtr	Section	Township	Range	Mineral Lease Type	Mineral Lease Number	Well Status
1	4300730189	HELPER FED B-1	NESW	33	13S	10E	Federal	USA UTU 71392	Producing
2	4300730190	HELPER FED A-1	C-SW	23	13S	10E	Federal	USA UTU 58434	Producing
3	4300730213	HELPER FED A-3	SESE	22	13S	10E	Federal	USA UTU 58434	Producing
4	4300730214	HELPER FED C-1	SENE	22	13S	10E	Federal	USA UTU 71391	Producing
5	4300730215	HELPER FED B-5	NENE	27	13S	10E	Federal	USA UTU 71392	Producing
6	4300730216	HELPER FED A-2	NESW	22	13S	10E	Federal	USA UTU 58434	Producing
7	4300730286	HELPER FED D-1	SWNE	26	13S	10E	Federal	USA UTU 68315	Producing
8	4300730378	HELPER FED F-3	NENE	8	14S	10E	Federal	USA UTU 65762	Producing
9	4300730379	HELPER FED F-4	NWNW	9	14S	10E	Federal	USA UTU 65762	Producing
10	4300730508	HELPER FED E-7	SESE	19	13S	10E	Federal	USA UTU 77980	Producing
11	4300730530	HELPER FED B-2	SENE	33	13S	10E	Federal	USA UTU 71392	Producing
12	4300730531	HELPER FED B-3	NESE	33	13S	10E	Federal	USA UTU 71392	Producing
13	4300730532	HELPER FED B-4	NENE	33	13S	10E	Federal	USA UTU 71392	Producing
14	4300730533	HELPER FED B-6	NENW	27	13S	10E	Federal	USA UTU 71392	Producing
15	4300730534	HELPER FED B-7	NESW	27	13S	10E	Federal	USA UTU 71392	Producing
16	4300730535	HELPER FED B-8	SESE	27	13S	10E	Federal	USA UTU 71392	Producing
17	4300730536	HELPER FED B-9	SENE	34	13S	10E	Federal	USA UTU 71392	Producing
18	4300730537	HELPER FED B-10	NWNE	34	13S	10E	Federal	USA UTU 71392	Producing
19	4300730538	HELPER FED B-11	SESW	34	13S	10E	Federal	USA UTU 71392	Producing
20	4300730539	HELPER FED B-12	NESE	34	13S	10E	Federal	USA UTU 71392	Producing
21	4300730540	HELPER FED B-13	SWSE	28	13S	10E	Federal	USA UTU 71392	Producing
22	4300730541	HELPER FED B-14	SWSW	28	13S	10E	Federal	USA UTU 71392	Producing
23	4300730542	HELPER FED D-2	SWNW	26	13S	10E	Federal	USA UTU 68315	Producing
24	4300730543	HELPER FED D-3	SESW	26	13S	10E	Federal	USA UTU 68315	Producing
25	4300730544	HELPER FED D-4	NWNW	35	13S	10E	Federal	USA UTU 68315	Producing
26	4300730545	HELPER FED D-5	SESW	35	13S	10E	Federal	USA UTU 68315	Producing
27	4300730546	HELPER FED D-6	NWSE	35	13S	10E	Federal	USA UTU 68315	Producing
28	4300730547	HELPER FED E-1	NESE	29	13S	10E	Federal	USA UTU 71675	Producing
29	4300730548	HELPER FED E-2	SESW	29	13S	10E	Federal	USA UTU 71675	Producing
30	4300730549	HELPER FED H-1	NENW	1	14S	10E	Federal	USA UTU 72352	Producing
31	4300730550	HELPER FED H-2	SESW	1	14S	10E	Federal	USA UTU 72352	Producing
32	4300730556	OLIVETO FED A-2	NESW	8	14S	10E	Federal	USA UTU 65762	Producing
33	4300730557	HELPER FED F-1	SESE	8	14S	10E	Federal	USA UTU 65762	Producing
34	4300730558	SMITH FED A-1	NWSW	9	14S	10E	Federal	USA UTU 65762	Producing
35	4300730593	HELPER FED A-6	SESE	23	13S	10E	Federal	USA UTU 58434	Producing
36	4300730594	HELPER FED D-7	C-SE	26	13S	10E	Federal	USA UTU 68315	Producing
37	4300730595	HELPER FED D-8	NENE	35	13S	10E	Federal	USA UTU 68315	Producing
38	4300730677	HELPER FED A-5	NENE	23	13S	10E	Federal	USA UTU 58434	Producing
39	4300730678	HELPER FED A-7	SENE	22	13S	10E	Federal	USA UTU 58434	Producing
40	4300730679	HELPER FED B-15	SENE	28	13S	10E	Federal	USA UTU 71392	Producing
41	4300730680	HELPER FED B-16	SWNW	28	13S	10E	Federal	USA UTU 71392	Producing
42	4300730681	HELPER FED C-2	NENW	24	13S	10E	Federal	USA UTU 71391	Producing

API Well Number	Well Name	Qtr/Qtr	Section	Township	Range	Mineral Lease Type	Mineral Lease Number	Well Status	
43	4300730682	HELPER FED C-4	NWSW	24	13S	10E	Federal	USA UTU 71391	Producing
44	4300730683	HELPER FED C-6	SWSE	21	13S	10E	Federal	USA UTU 71391	Shut-In
45	4300730684	HELPER FED C-7	SESW	21	13S	10E	Federal	USA UTU 71391	Producing
46	4300730685	HELPER FED D-9	NWNW	25	13S	10E	Federal	USA UTU 68315	Producing
47	4300730686	HELPER FED D-10	SENE	25	13S	10E	Federal	USA UTU 68315	Producing
48	4300730687	HELPER FED D-11	SESW	25	13S	10E	Federal	USA UTU 68315	Producing
49	4300730688	HELPER FED D-12	SESE	25	13S	10E	Federal	USA UTU 68315	Producing
50	4300730689	HELPER FED E-4	NWNE	29	13S	10E	Federal	USA UTU 71675	Producing
51	4300730692	HELPER FED A-4	SWNW	23	13S	10E	Federal	USA UTU 58434	Producing
52	4300730693	HELPER FED C-5	SWNE	24	13S	10E	Federal	USA UTU 71391	Producing
53	4300730694	HELPER FED G-1	C-NW	30	13S	11E	Federal	USA UTU 71677	Producing
54	4300730695	HELPER FED G-2	SWSW	30	13S	11E	Federal	USA UTU 71677	Producing
55	4300730696	HELPER FED G-3	SENE	31	13S	11E	Federal	USA UTU 71677	Producing
56	4300730697	HELPER FED G-4	SESW	31	13S	11E	Federal	USA UTU 71677	Producing
57	4300730698	HELPER FED H-3	SWNE	1	14S	10E	Federal	USA UTU 72352	Producing
58	4300730699	HELPER FED H-4	NESE	1	14S	10E	Federal	USA UTU 72352	Producing
59	4300730702	HELPER FED C-3	SESW	24	13S	10E	Federal	USA UTU 71391	Producing
60	4300730770	HELPER FED G-5	SWNE	30	13S	11E	Federal	USA UTU 71677	Producing
61	4300730771	HELPER FED G-6	SWSE	30	13S	11E	Federal	USA UTU 71677	Producing
62	4300730772	HELPER FED G-7	NWNE	31	13S	11E	Federal	USA UTU 71677	Producing
63	4300730773	HELPER FED G-8	NESE	31	13S	11E	Federal	USA UTU 71677	Producing
64	4300730776	HELPER FED E-8	SENE	19	13S	10E	Federal	USA UTU 77980	Producing
65	4300730868	HELPER FED E-9	SESW	19	13S	10E	Federal	USA UTU 77980	Producing
66	4300730869	HELPER FED E-5	SWSW	20	13S	10E	Federal	USA UTU 71675	Producing
67	4300730870	HELPER FED E-6	SWNW	20	13S	10E	Federal	USA UTU 71675	Producing
68	4300730871	HELPER FED E-10	NENW	30	13S	10E	Federal	USA UTU 71675	Producing
69	4300730873	HELPER FED E-11	NWNE	30	13S	10E	Federal	USA UTU 71675	Producing
70	4300730119	SHIMMIN TRUST 3	SENE	14	12S	10E	Fee (Private)		Plugged and Abandoned
71	4300730120	SHIMMIN TRUST 1	SESE	11	12S	10E	Fee (Private)		Plugged and Abandoned
72	4300730121	SHIMMIN TRUST 2	SENE	14	12S	10E	Fee (Private)		Plugged and Abandoned
73	4300730123	SHIMMIN TRUST 4	SESW	11	12S	10E	Fee (Private)		Plugged and Abandoned
74	4300730158	SLEMAKER A-1	SWNE	5	12S	12E	Fee (Private)		Plugged and Abandoned
75	4300730161	JENSEN 16-10	SESE	10	12S	10E	Fee (Private)		Plugged and Abandoned
76	4300730165	JENSEN 7-15	SWNE	15	12S	10E	Fee (Private)		Plugged and Abandoned
77	4300730168	SHIMMIN TRUST 12-12	NWSW	12	12S	10E	Fee (Private)		Plugged and Abandoned
78	4300730175	JENSEN 11-15	NESW	15	12S	10E	Fee (Private)		Plugged and Abandoned
79	4300730188	BRYNER A-1	NESE	11	12S	12E	Fee (Private)		Plugged and Abandoned
80	4300730209	BRYNER A-1X (RIG SKID)	NESE	11	12S	12E	Fee (Private)		Plugged and Abandoned
81	4300730348	BIRCH A-1	NWSW	5	14S	10E	Fee (Private)		Producing
82	4300730352	CHUBBUCK A-1	NESE	31	13S	10E	Fee (Private)		Producing
83	4300730353	VEA A-1	SWNW	32	13S	10E	Fee (Private)		Producing
84	4300730354	VEA A-2	NENE	32	13S	10E	Fee (Private)		Producing

	API Well Number	Well Name	Qtr/Qtr	Section	Township	Range	Mineral Lease Type	Mineral Lease Number	Well Status
85	4300730355	VEA A-3	SESW	32	13S	10E	Fee (Private)		Producing
86	4300730356	VEA A-4	NWSE	32	13S	10E	Fee (Private)		Producing
87	4300730372	BIRCH A-2	NWNW	8	14S	10E	Fee (Private)		Producing
88	4300730570	SE INVESTMENTS A-1	NESE	6	14S	10E	Fee (Private)		Producing
89	4300730586	HARMOND A-1	SENE	7	14S	10E	Fee (Private)		Producing
90	4300730604	CHUBBUCK A-2	SESW	6	14S	10E	Fee (Private)		Producing
91	4300730726	CLAWSON SPRING ST J-1	SESW	35	15S	8E	Fee (Private)		Producing
92	4300730727	PIERUCCI 1	SESW	35	15S	8E	Fee (Private)		Producing
93	4300730728	POTTER ETAL 1	SWNE	35	15S	8E	Fee (Private)		Producing
94	4300730737	POTTER ETAL 2	NESE	35	15S	8E	Fee (Private)		Producing
95	4300730774	GOODALL A-1	NWSW	6	14S	11E	Fee (Private)		Producing
96	4300730781	HAUSKNECHT A-1	SWNW	21	13S	10E	Fee (Private)		Producing
97	4300730872	SACCOMANNO A-1	NESE	30	13S	10E	Fee (Private)		Producing
98	4300730885	BLACKHAWK A-1	SESE	20	13S	10E	Fee (Private)		Plugged and Abandoned
99	4300730886	BLACKHAWK A-2	NWNW	29	13S	10E	Fee (Private)		Producing
100	4300730914	BLACKHAWK A-3	SENE	20	13S	10E	Fee (Private)		Producing
101	4300730915	BLACKHAWK A-4	NENE	21	13S	10E	Fee (Private)		Producing
102	4300730923	BLACKHAWK A-1X	SESE	20	13S	10E	Fee (Private)		Producing
103	4300731402	BLACKHAWK A-5H	NENE	20	13S	10E	Fee (Private)		Plugged and Abandoned
104	4300750075	VEA 32-32	SWNE	32	13S	10E	Fee (Private)		Producing
105	4301530468	CLAWSON SPRING ST IPA-1	SESE	10	16S	8E	Fee (Private)		Producing
106	4301530469	CLAWSON SPRING ST IPA-2	NENE	15	16S	8E	Fee (Private)		Producing
107	4300730132	ST 9-16	NESE	16	12S	10E	State	ML-44443	Plugged and Abandoned
108	4300730133	ST 2-16	NWNE	16	12S	10E	State	ML-44443	Plugged and Abandoned
109	4300730141	MATTS SUMMIT ST A-1	NWNW	14	12S	9E	State	ML-44496	Plugged and Abandoned
110	4300730349	HELPER ST A-1	SESW	3	14S	10E	State	ST UT ML 45805	Producing
111	4300730350	HELPER ST D-7	NWSW	4	14S	10E	State	ST UT ML 45804	Producing
112	4300730357	HELPER ST A-8	NWSE	2	14S	10E	State	ST UT ML 45805	Producing
113	4300730358	HELPER ST A-3	NWNW	2	14S	10E	State	ST UT ML 45805	Producing
114	4300730359	HELPER ST A-4	NWNE	2	14S	10E	State	ST UT ML 45805	Producing
115	4300730360	HELPER ST A-7	NESW	2	14S	10E	State	ST UT ML 45805	Producing
116	4300730362	HELPER ST A-2	NENE	3	14S	10E	State	ST UT ML 45805	Producing
117	4300730363	HELPER ST A-5	NESW	3	14S	10E	State	ST UT ML 45805	Producing
118	4300730364	HELPER ST A-6	NESE	3	14S	10E	State	ST UT ML 45805	Producing
119	4300730365	HELPER ST D-4	SWNW	4	14S	10E	State	ST UT ML 45804	Producing
120	4300730366	HELPER ST D-3	NENE	5	14S	10E	State	ST UT ML 45804	Producing
121	4300730367	HELPER ST D-5	NWNE	4	14S	10E	State	ST UT ML 45804	Producing
122	4300730368	HELPER ST D-8	SESE	4	14S	10E	State	ST UT ML 45804	Producing
123	4300730369	HELPER ST D-2	NENW	5	14S	10E	State	ST UT ML 45804	Producing
124	4300730370	HELPER ST D-6	SESE	5	14S	10E	State	ST UT ML 45804	Producing
125	4300730371	HELPER ST D-1	NENE	6	14S	10E	State	ST UT ML 45804	Producing
126	4300730373	HELPER ST A-9	SESW	10	14S	10E	State	ST UT ML 45805	Producing

	API Well Number	Well Name	Qtr/Qtr	Section	Township	Range	Mineral Lease Type	Mineral Lease Number	Well Status
127	4300730376	HELPER ST B-1	SWNE	9	14S	10E	State	ST UT ML 47556	Producing
128	4300730433	HELPER ST A-10	NWNE	10	14S	10E	State	ST UT ML 45805	Producing
129	4300730434	HELPER ST A-11	SWNW	11	14S	10E	State	ST UT ML 45805	Producing
130	4300730435	HELPER ST A-12	NWSW	10	14S	10E	State	ST UT ML 45805	Producing
131	4300730436	HELPER ST A-13	NESE	10	14S	10E	State	ST UT ML 45805	Producing
132	4300730437	HELPER ST B-2	NESE	9	14S	10E	State	ST UT ML 47556	Producing
133	4300730571	HELPER ST A-14	SESW	11	14S	10E	State	ST UT ML 45805	Producing
134	4300730572	HELPER ST A-15	SENE	11	14S	10E	State	ST UT ML 45805	Producing
135	4300730573	HELPER ST E-1	SESW	36	13S	10E	State	ST UT ML 45802	Producing
136	4300730574	HELPER ST E-2	SWNW	36	13S	10E	State	ST UT ML 45802	Producing
137	4300730592	HELPER ST E-3	NENE	36	13S	10E	State	ST UT ML 45802	Producing
138	4300730597	CLAWSON SPRING ST A-1	SWSE	36	15S	8E	State	ST UT ML 46106	Producing
139	4300730598	HELPER ST E-4	SWSE	36	13S	10E	State	ST UT ML 45802	Producing
140	4300730603	HELPER ST A-16	SWSE	11	14S	10E	State	ST UT ML 45805	Producing
141	4300730635	CLAWSON SPRING ST A-2	NWNW	36	15S	8E	State	ST UT ML 46106	Producing
142	4300730636	CLAWSON SPRING ST A-3	NESW	36	15S	8E	State	ST UT ML 46106	Producing
143	4300730637	CLAWSON SPRING ST A-4	NWNE	36	15S	8E	State	ST UT ML 46106	Producing
144	4300730642	CLAWSON SPRING ST D-5	NENW	31	15S	9E	State	ML-48226	Producing
145	4300730643	CLAWSON SPRING ST D-6	SWSW	31	15S	9E	State	ML-48226	Producing
146	4300730644	CLAWSON SPRING ST D-7	NWNE	31	15S	9E	State	ML-48226	Producing
147	4300730701	CLAWSON SPRING ST D-8	NWSE	31	15S	9E	State	ML-48226	Producing
148	4300750070	HELPER STATE 12-3	SWNW	3	14S	10E	State	ST UT ML 45805	Producing
149	4300750071	HELPER STATE 32-3	SWNE	3	14S	10E	State	ST UT ML 45805	Producing
150	4300750072	HELPER STATE 32-36	SWNE	36	13S	10E	State	ST UT ML 45802	Producing
151	4301530391	UTAH 10-415	NENE	10	16S	8E	State	ST UT ML 48189	Temporarily-Abandoned
152	4301530392	CLAWSON SPRING ST E-7	SENE	7	16S	9E	State	ST UT ML 48220-A	Producing
153	4301530394	CLAWSON SPRING ST E-8	SWSE	7	16S	9E	State	ST UT ML 48220-A	Producing
154	4301530403	CLAWSON SPRING ST E-3	SENE	6	16S	9E	State	ST UT ML 48220-A	Producing
155	4301530404	CLAWSON SPRING ST E-1	SENE	6	16S	9E	State	ST UT ML 48220-A	Producing
156	4301530405	CLAWSON SPRING ST E-2	NESW	6	16S	9E	State	ST UT ML 48220-A	Producing
157	4301530406	CLAWSON SPRING ST E-4	NWSE	6	16S	9E	State	ST UT ML 48220-A	Producing
158	4301530410	CLAWSON SPRING ST C-1	SWNW	12	16S	8E	State	ST UT UO 48209	Producing
159	4301530427	CLAWSON SPRING ST B-1	NENW	1	16S	8E	State	ST UT ML 48216	Producing
160	4301530428	CLAWSON SPRING ST B-2	NWSW	1	16S	8E	State	ST UT ML 48216	Producing
161	4301530429	CLAWSON SPRING ST B-3	NWNE	1	16S	8E	State	ST UT ML 48216	Producing
162	4301530430	CLAWSON SPRING ST B-4	SESE	1	16S	8E	State	ST UT ML 48216	Producing
163	4301530431	CLAWSON SPRING ST B-5	SWSW	12	16S	8E	State	ST UT ML 48216	Producing
164	4301530432	CLAWSON SPRING ST B-8	SENE	11	16S	8E	State	ST UT ML 48216	Producing
165	4301530433	CLAWSON SPRING ST B-9	NWSE	11	16S	8E	State	ST UT ML 48216	Producing
166	4301530434	CLAWSON SPRING ST C-2	SENE	12	16S	8E	State	ST UT UO 48209	Producing
167	4301530435	CLAWSON SPRING ST C-4	SWNW	14	16S	8E	State	ST UT UO 48209	Producing
168	4301530460	CLAWSON SPRING ST B-7	NWSW	11	16S	8E	State	ST UT ML 48216	Producing

	API Well Number	Well Name	Qtr/Qtr	Section	Township	Range	Mineral Lease Type	Mineral Lease Number	Well Status
169	4301530461	CLAWSON SPRING ST C-6	SENE	14	16S	8E	State	ST UT UO 48209	Producing
170	4301530463	CLAWSON SPRING ST C-3	C-SE	12	16S	8E	State	ST UT UO 48209	Producing
171	4301530465	CLAWSON SPRING ST B-6	NENW	11	16S	8E	State	ST UT ML 48216	Producing
172	4301530466	CLAWSON SPRING ST H-1	NENW	13	16S	8E	State	ST UT ML 48217-A	Producing
173	4301530467	CLAWSON SPRING ST H-2	NENE	13	16S	8E	State	ST UT ML 48217-A	Producing
174	4301530470	CLAWSON SPRING ST E-5	NENW	7	16S	9E	State	ST UT ML 48220-A	Producing
175	4301530471	CLAWSON SPRING ST G-1	NWNW	2	16S	8E	State	ST UT ML 46314	Producing
176	4301530472	CLAWSON SPRING ST F-2	NESE	3	16S	8E	State	ST UT ML 48515	Producing
177	4301530473	CLAWSON SPRING ST F-1	SENE	3	16S	8E	State	ST UT ML 48514	Producing
178	4301530474	CLAWSON SPRING ST E-6	SESW	7	16S	9E	State	ST UT ML 48220-A	Producing
179	4301530475	CLAWSON SPRING ST G-2	NESW	2	16S	8E	State	ST UT ML 46314	Producing
180	4301530488	CLAWSON SPRING ST M-1	NWNE	2	16S	8E	State	ST UT ML 47561	Producing
181	4301530489	CLAWSON SPRING ST K-1	SESE	2	16S	8E	State	ST UT ML 46043	Producing