

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG \_\_\_\_\_ ELECTRIC LOGS \_\_\_\_\_ FILE **X** WATER SANDS \_\_\_\_\_ LOCATION INSPECTED \_\_\_\_\_ SUB REPORT/abd. \_\_\_\_\_

DATE FILED **9-13-91**

LAND: FEE & PATENTED **X** STATE LEASE NO. \_\_\_\_\_ PUBLIC LEASE NO. \_\_\_\_\_ INDIAN \_\_\_\_\_

DRILLING APPROVED: **10-9-91**

SPUDED IN: \_\_\_\_\_

COMPLETED: **12-9-92** PUT TO PRODUCING: \_\_\_\_\_

INITIAL PRODUCTION: \_\_\_\_\_

GRAVITY A.P.I. \_\_\_\_\_

GOR: \_\_\_\_\_

PRODUCING ZONES: \_\_\_\_\_

TOTAL DEPTH: \_\_\_\_\_

WELL ELEVATION: \_\_\_\_\_

DATE ABANDONED: **LAD APD EXPIRED 12-9-92**

FIELD: **WILDCAT**

UNIT: \_\_\_\_\_

COUNTY: **CARBON**

WELL NO. **SUNNYBROOK FEE #41-2** API NO. **43-007-30148**

LOCATION **748' FNL** FT. FROM (N) (S) LINE. **640' FEL** FT. FROM (E) (W) LINE. **NE NE** 1/4 - 1/4 SEC. **2**

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
12S	7E	2	PG&E RESOURCES CO.				

DME  
12-10-92



STATE OF UTAH  
 NATURAL RESOURCES  
 Water Rights

Norman H. Bangerter, Governor  
 Dee 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

September 4, 1991

Lyle Bryner  
 6495 South Central Miller Creek Road  
 Price, Utah 84501

Re: Temporary Change Application t91-91-07  
 Exploratory Well Drilling - Carbon County, Utah  
 NE4NE4 Section 2, T12S, R7E, SLB&M  
 Expiration Date: December 31, 1991

Dear Mr. Bryner:

*Summary Book Fee 41-0 43-007-30148  
 P&E Records*

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

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

Sincerely,

*William A. Wermack*  
 for Mark P. Page  
 Regional Engineer

cc: Bob Davis, Commissioner - Price River Distribution System  
 West Hazmat Trucking Corporation

Enclosures  
 MPP/mjk

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DIVISION OF  
 OIL GAS & MINING

# APPLICATION FOR TEMPORARY CHANGE OF WATER

## 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. t 91 - 91 - 07

Changes are proposed in (check those applicable)

point of diversion.  place of use.  nature of use.  period of use.

### 1. OWNER INFORMATION

Name: Lyle Bryner \*Interest: \_\_\_\_\_%

Address: 6495 South Central Miller Creek Road

City: Price State: Utah Zip Code: 84501

2. \*PRIORITY OF CHANGE: September 4, 1991 \*FILING DATE: September 4, 1991

\*Is this change amendatory? (Yes/No): No

3. RIGHT EVIDENCED BY: Price River Water Users Assoc. Stock Cert. #4202  
156.2 shares delivered through Carbon Canal

Prior Approved Temporary Change Applications for this right: \_\_\_\_\_

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

4. QUANTITY OF WATER: \_\_\_\_\_ cfs and/or 156.2 ac-ft.

5. SOURCE: Price River

6. COUNTY: Carbon

7. POINT(S) OF DIVERSION: S. 560 ft. & E. 680 ft. from N $\frac{1}{2}$  Cor. Sec. 1, T14S, R9E, S1B&M.

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

### 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 \_\_\_\_\_ cfs or 156.2 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): \_\_\_\_\_

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

Temporary Change

10. NATURE AND PERIOD OF USE

Irrigation: From April 1 to September 30
Stockwatering: From \_\_\_\_\_ to \_\_\_\_\_
Domestic: From \_\_\_\_\_ to \_\_\_\_\_
Municipal: From \_\_\_\_\_ to \_\_\_\_\_
Mining: From \_\_\_\_\_ to \_\_\_\_\_
Power: From \_\_\_\_\_ to \_\_\_\_\_
Other: From \_\_\_\_\_ to \_\_\_\_\_



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11. PURPOSE AND EXTENT OF USE

Irrigation: 39.05 acres. Sole supply of 39.05 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): \_\_\_\_\_

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 2.0 ac-ft.
15. SOURCE: Price River
Balance of the water will be abandoned: \_\_\_\_\_, or will be used as heretofore: X
16. COUNTY: Carbon
17. POINT(S) OF DIVERSION: N. 1000 ft. & W. 850 ft. from SE Cor. Sec. 10, T12S, R7E, SLB&M.

Description of Diverting Works:
\*COMMON DESCRIPTION: 4 miles NE of Scofield Colton Quad

18. POINT(S) OF REDIVERSION

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

19. POINT(S) OF RETURN

The amount of water to be consumed is \_\_\_\_\_ cfs or 2.0 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 9 / 3 /91 to 12 / 31 /91

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): Exploratory Well Drilling

22. PLACE OF USE

Legal description of place of use by 40 acre tract(s):
Sunnybrook Fee #41-2 Well:
S. 740 ft. & W. 640 ft. from NE Cor. Sec. 2, T12S, R7E, SLB&M (NE 1/4 NE 1/4).

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):
Water will be hauled by West Hazmat Trucking Corp. for PG&E to the place of use.

\*\*\*\*\*

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).

Kyle B. Byner
Signature of Applicant(s)

STATE ENGINEER'S ENDORSEMENT

TEMPORARY CHANGE APPLICATION NUMBER: t91-91-07

1. September 4, 1991 Change Application received by MP.
2. September 4, 1991 Application designated for APPROVAL by MP.
3. Comments:

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Conditions:

This application is hereby APPROVED, dated September 4, 1991, subject to prior rights and this application will expire on December 31, 1991.

*for* William A. Wernack  
Mark Page, Area Engineer  
for  
Robert L. Morgan, State Engineer

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

(Other instructions on reverse side)

5. Lease Designation and Serial No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

6. If Indian, Allottee or Tribe Name

1a. Type of Work

DRILL

DEEPEN

PLUG BACK

7. Unit Agreement Name

b. Type of Well

Oil Well

Gas Well

Other Coalbed Methane

Single Zone

Multiple Zone

8. Farm or Lease Name

2. Name of Operator

PG&E Resources Company

Sunnybrook Fee

3. Address of Operator

5950 Berkshire Lane, Suite 600  
Dallas, Texas 75225

9. Well No.

#41-2

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

At surface 748' FNL & 640' FEL (NE NE)

10. Field and Pool, or Wildcat

Sec 2 T12S R7E

Wildcat 001

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

Carbon Co. Utah

At proposed prod. zone

Same

12. County or Parrish 13. State

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

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

640'

16. No. of acres in lease

802.8

17. No. of acres assigned to this well

40

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

None

19. Proposed depth

8500' FRSD

20. Rotary or cable tools

Rotary

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

GR 8958' ungrade

22. Approx. date work will start\*

9/23/91

23.

PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12 1/4"	9 5/8"	36	600'	225 sx
8 3/4"	7"	26	8500'	650 sx

Surface Owner:

Sunnybrook Coal Company  
400 Tribune Bldg.  
Salt Lake City, UT 84111

Drilling Water:

Lyle Bryner  
6495 So. Central Miller Road  
Price, UT 84501

Contact: for field inspection

PG&E  
Mike McMican  
85 South 200 East  
Vernal, UT 84078  
(801) 789-4573

Price River Water Users Assoc.  
Stock Cert. # 4202

TECHNICAL REVIEW

Engr. JM 10-9-91

Geol. J. Jones 10-1-91

Surface B. Ball 9/30/91

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DIVISION OF OIL GAS & MINING

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

24.

Signed [Signature]

Title Dtg. Superintendent

Date 9/12/91

(This space for Federal or State office use)

Permit No. 43-007-30148

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

Approved by..... Title.....

DATE: 10-9-91  
BY: [Signature]  
WELL SPACING: 6/15-3-2

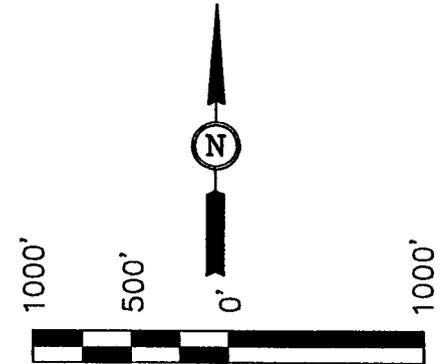
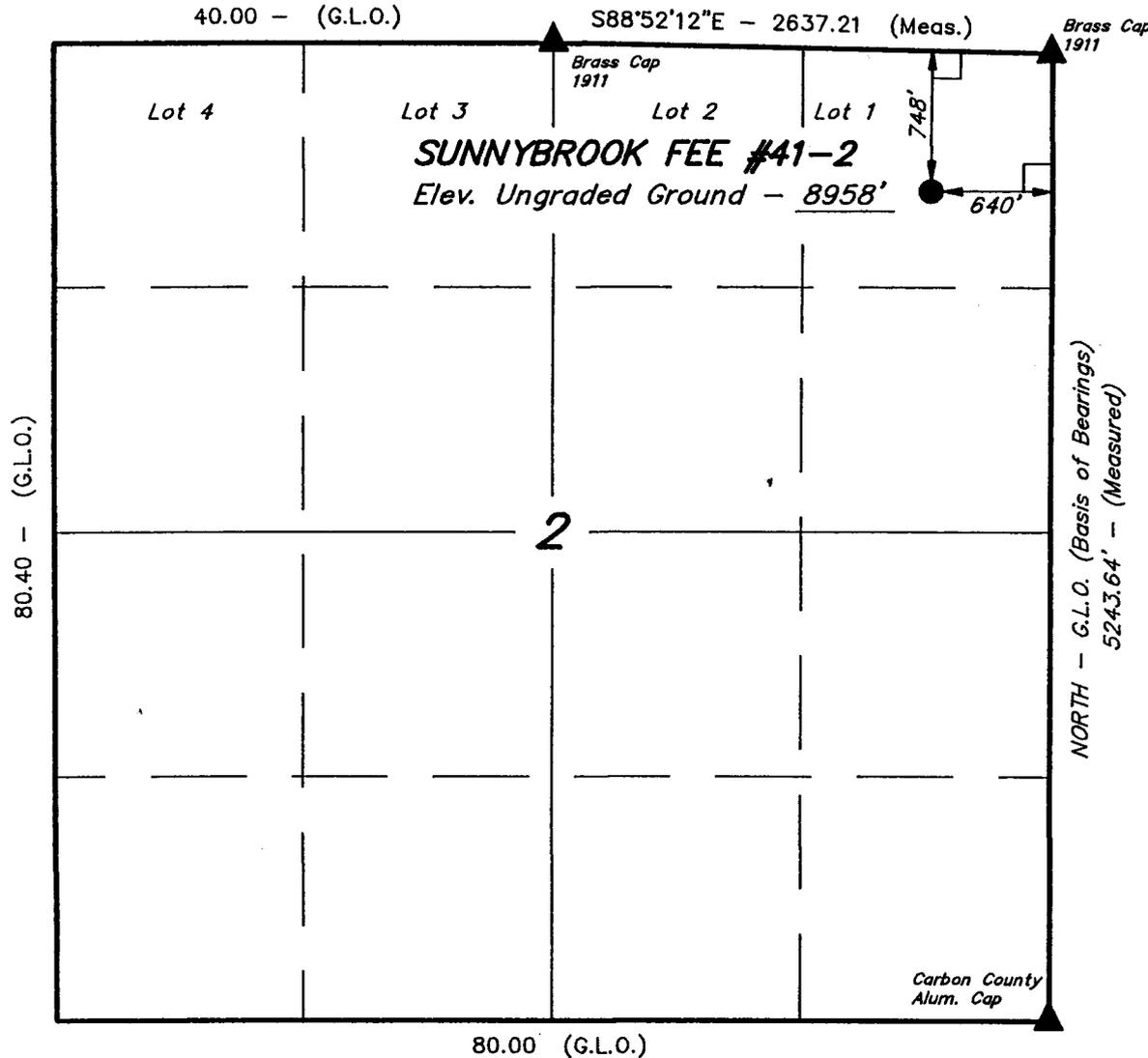
T12S, R7E, S.L.B.&M.

**PG&E RESOURCES COMPANY**

Well location, SUNNYBROOK FEE #41-2, located as shown in the Lot 1 of Section 2, T12S, R7E, S.L.B.&M. Carbon County, Utah.

**BASIS OF ELEVATION**

SPOT ELEVATION AT THE NE CORNER OF SECTION 2, T12S, R7E, S.L.B.&M. TAKEN FROM THE COLTON QUADRANGLE, UTAH, CARBON COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 8894 FEET.



**CERTIFICATE**

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

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

**UINTAH ENGINEERING & LAND SURVEYING**  
 85 SOUTH - 200 EAST  
 VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 8-21-91
PARTY G.S. D.S. MDA	REFERENCES G.L.O. PLAT
WEATHER HOT	FILE PG&E RESOURCES COMPANY

▲ = SECTION CORNERS LOCATED.

**DRILLING LOCATION ASSESSMENT**

**State of Utah  
Division of Oil, Gas and Mining**

OPERATOR: PG&E RESOURCES CO. WELL NAME: SUNNYBROOK FEE #41-2  
SECTION: 2 TWP: 12S RNG: 7E LOC: 748 FNL 640 FEL  
QTR/QTR NE/NE COUNTY: CARBON FIELD: WILDCAT  
SURFACE OWNER: SUNNYBROOK COAL COMPANY  
SPACING: 460 F SECTION LINE 460 F QTR/QTR LINE 920 F ANOTHER WELL  
INSPECTOR: BRAD HILL DATE AND TIME: 9/24/91 11:30

**PARTICIPANTS:** Salty Miller-PG&E; Three representatives of construction companies were present. Their names have been misplaced.

**REGIONAL SETTING/TOPOGRAPHY:** The proposed location is in the Wasatch Plateau physiographic province. It is located on a gentle slope, to the west, coming off of a flat ridge top. The location is part on a sagebrush meadow and part in an aspen grove..

**LAND USE:**

**CURRENT SURFACE USE:** Domestic grazing and wildlife habitat.

**PROPOSED SURFACE DISTURBANCE:** A rectangular pad will be constructed with approximate dimensions of 300'X 130' with an, 130'X 50', extension for the reserve pit. Access will be from an existing road. 3.1 miles of existing road will be upgraded.

**AFFECTED FLOODPLAINS AND/OR WETLANDS:** None

**FLORA/FAUNA:** Sage, Sunflowers, Peavine, Aspen, Pine, Rabbitbrush, Thistle, Lupine, Aster, Grass/Deer, Elk, Birds, Rodents

**ENVIRONMENTAL PARAMETERS**

**SURFACE GEOLOGY**

**SOIL TYPE AND CHARACTERISTICS:** Clayey-Loam with abundant rock fragments.

**SURFACE FORMATION & CHARACTERISTICS:** Quaternary Alluvium

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

**PALEONTOLOGICAL POTENTIAL:** None observed.

**SUBSURFACE GEOLOGY**

OBJECTIVES/DEPTHS: Blackhawk-4,325'

ABNORMAL PRESSURES-HIGH AND LOW: None anticipated.

CULTURAL RESOURCES/ARCHAEOLOGY: NA

CONSTRUCTION MATERIALS: Onsite materials will be used for construction.

SITE RECLAMATION: As per landowner specifications.

RESERVE PIT

CHARACTERISTICS: The reserve pit will be rectangular in shape with dimensions of, 130'X 50'X 8'.

LINING: PG&E has agreed to line the pit with a synthetic liner.

MUD PROGRAM: 0-4,325'/water; 4,325-TD/LSND

DRILLING WATER SUPPLY: To be purchased from Price River Water Users Association.

STIPULATIONS FOR APD APPROVAL

Pit is to be lined with a synthetic liner of 12 mil minimum thickness.

Location is to be bermed to prevent run off from the location.

ATTACHMENTS

Photographs will be placed on file.

## DRILLING PROGRAM

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

Well: Sunnybrook Fee #41-2  
Wildcat  
NE NE Sec 2, T12S, R7E  
Carbon Co., Utah

Operations will comply with applicable State of Utah laws, regulations, and the approved APD. PG&E is responsible for the actions of contractors in its hire. A copy of the approved APD will be with field representatives to insure compliance.

### 1. Surface Formation and Estimated Formation Tops

<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Blackhawk	3,780'	+5280'
Main Blackhawk Coal	4,325'	+4735'
Star Point	5,200'	+3860'
Mancos Shale	5,400'	+3660'
Emery Sand	5,500'	+3470
Ferron Sand	7,600'	+1370
Tununk Shale	8,000'	+ 970

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

<u>Expected Zones</u>	<u>Formation</u>	<u>Interval</u>
Oil zones	None	
Gas zones	None	
Water zones	None	
Mineral zones Coal	Blackhawk	4,325'
Other (Water Disposal)	Ferron	7,600'

### 3. Pressure Control Equipment

3000# WP BOPE and choke manifold (see Fig. 1) maintained, tested, in place and operating prior to drilling out surface casing until well is completed or abandoned. BOPE suitable for subfreezing conditions if exist. Pressure tests before drilling out all casing strings.

BOPE consisting of: annular preventers, double ram with blind and pipe rams, drilling spool or preventer with 2 side outlets (choke side 3" minimum, kill side 2" minimum), kill line 2" minimum, minimum 2 choke line valves 3" minimum, 3" choke line, 2 kill line valves one a check valve 2" minimum, 2 chokes, gauge on choke manifold, upper kelly cock valve with handle, safety valve and subs to fit all drill string connections, fillup line above top preventer, connections subject to well pressure flanged, welded, or clamped. Choke lines straight unless using tee blocks or targeted with running tees and anchored to prevent whip and reduce vibration. Choke manifold functionally equivalent to diagram. All valves (except chokes) in kill line, choke manifold, choke line full opening for straight through flow. Gauges types for drilling fluids.

Accumulator sufficient capacity to open hydraulic choke line valve if equipped, close rams and annular preventer, and retain a minimum of 200 psi over precharge on closing manifold without use of closing unit pumps. Fluid reservoir capacity double accumulator capacity with level maintained at specs. Two independent power sources from preventers. Nitrogen bottles (3 minimum) one independent power source charged to specifications. Accumulator precharge test conducted prior to connecting closing unit to BOP stack and every 6 months minimum, Accumulator pressure corrected if precharge above or below maximum or minimum limits (nitrogen gas precharge).

Power for closing unit pumps available all times so pumps auto start when manifold pressure decreases to preset level. BOP closing units with number and sizes of pumps so with accumulator system isolated from service pumps can open hydraulic gate valve if equipped, close annular preventer on smallest drill pipe in 2 minutes and obtain minimum 200 psi over precharge.

Hand wheels or auto locking device installed. A valve installed in closing line close to annular preventer from locking device. Valve will be open, closed when power source inoperative. Remote controls accessible to driller. Controls capable of closing all preventers. Master controls at accumulator capable of opening or closing all preventers, choke line valve if equipped. Hydraulic closing unit located near base of doghouse stairs.

Pressure tests with water, clear liquid for subfreezing with viscosity similar to water. Rams tested to WP if isolated by test plug, 70% casing burst if not isolated. Pressure maintained 10 minutes or requirements are met. Test plug used, no bleed-off acceptable. Without test plug, decline in pressure >10% in 30 min considered failure. Valve on casing head below test plug open during testing. Annular preventers tested 50% WP. Pressure maintained 10 minimum or provisions of test met. Test at installation, seal subject to test pressure broken, following repairs, and 30-day intervals. Valves tested from WP side with down stream valves open. When testing kill line valves check valve held open or ball removed. Annular preventers operated weekly. Rams activated each trip not more than daily. BOPE drills conducted weekly each crew. Tests and drills recorded in log.

Notice will be given with sufficient lead time for the State of Utah to be on location during pressure testing.

4. Casing and Cementing Program

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt/Ft</u>	<u>Grade</u>	<u>Threads</u>	<u>New/Used</u>	<u>Depth</u>
12-1/4"	9-5/8"	36#	J55	ST&C	New	600'
8-3/4"	7"	26#	K55	LT&C	New	TD
			& N-80			

Surface casing will be cemented to surface using 225 sx Premium + 2% CaCl<sub>2</sub> + 1/4#/sx flakes. The slurry will have a yield of 1.15 mixed at 15.8 ppg or volumes necessary to circulate cement to surface.

Surface casing will have centralizers every fourth joint starting with shoe joint up to bottom of cellar. A Top plug will be used to reduce contamination of cement by displacement fluid. Bottom plug or suitable pre-

flush fluid will be used to help isolate cement from contamination by mud fluid displaced ahead of cement slurry.

Production casing will be cemented to the top of the Blackhawk at 3,780. The slurry will be 400 sx premium cement with retarder and flakes (yield 1.15 mixed at 15.8 ppg) followed by 200 sx lite with flakes (yield 2.01 mixed at 12.3 ppg) tailed by 150 sx premium cement with retarder and flakes (yield 1.15 mixed at 15.8 ppg) to cement from TD to the top of Blackhawk.

All casing strings will be pressure tested to 0.22 psi/ft of casing string length or 1500 psi, whichever is greater, but not >70% of burst. If pressure declines more than 10% in 30 minutes, corrective action will be taken.

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

#### 5. Drilling Mud Program

<u>Interval</u>	<u>Mud Weight</u> <u>lbs/gal</u>	<u>Viscosity</u> <u>sec/qt</u>	<u>Fluid Loss</u> <u>ml/30 min</u>	<u>Mud Type</u>
0-600'	Dry Hole digger			
600-Blackhawk	8.3-8.5	27-32	no control	water
Blackhawk-TD	8.5-9.3	35-55	10-15	LSND

Volume of mud reserve material will be equal to or greater than the active system capacity. Visual mud monitoring will be used to detect volume changes indicating loss or gain of mud fluid volume. A mud test will be performed every 24 hours after mud up to determine density, viscosity, gel strength, filtration, and pH.

#### 6. Testing, Coring, Logging and Sampling

- a. Testing: Possible two in Blackhawk Coal
- b. Coring: Rotary Sidewall in Blackhawk Coal
- d. Logging: DIL/SFL/SP/GR 2" & 5" TD - surface casing  
SDL/DSNL/GR/CAL 5" TD - surface casing  
Microlog 5" TD - surface casing  
High Resolution SDL 5" TD - 2,000'

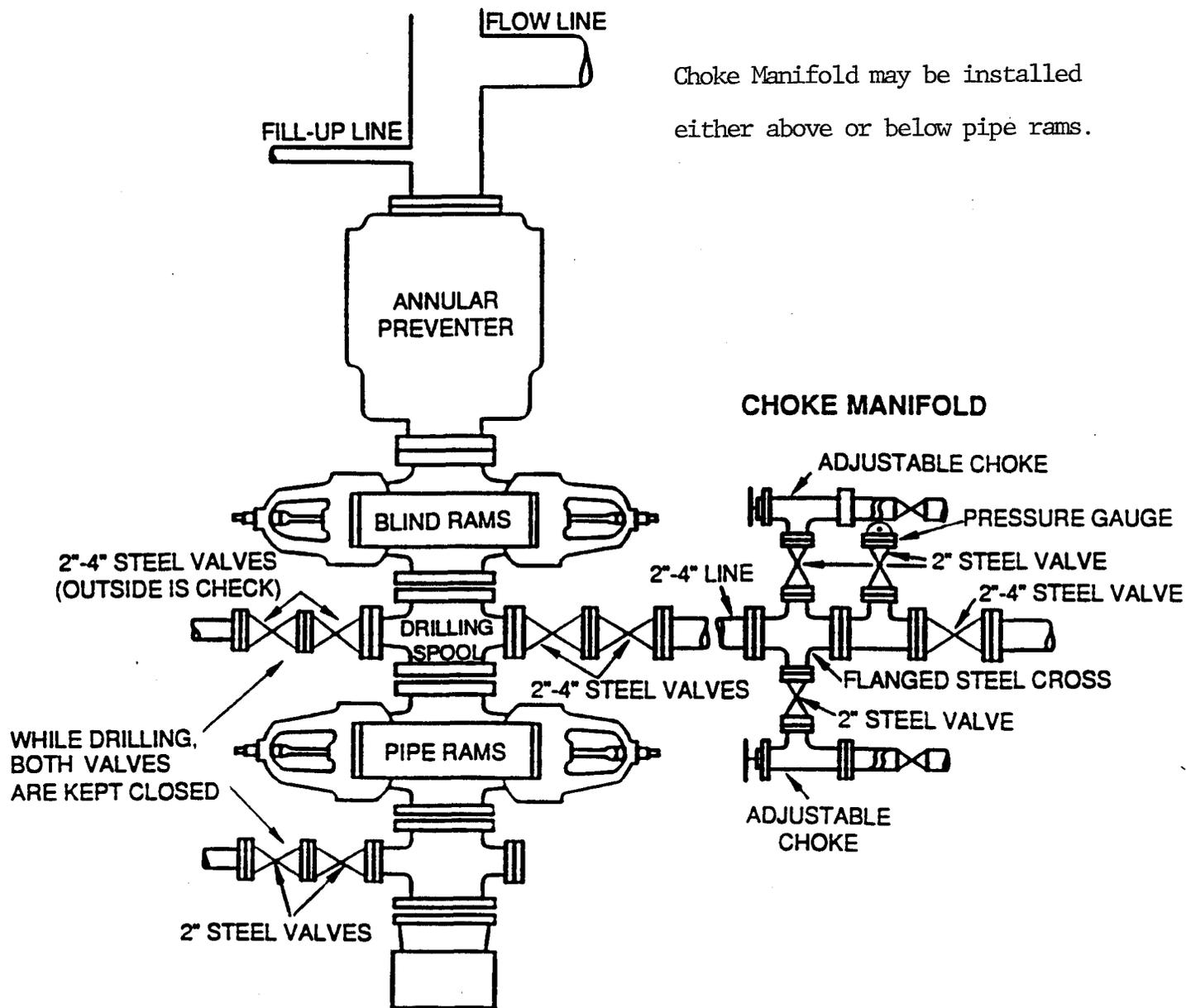
#### 7. Abnormal Conditions, Bottom Hole Pressures and Potential Hazards

Normal pressures and temperatures are expected. No hazardous gases are expected. Anticipated pore pressure is 2650 psi with a frac gradient of about 0.85. Expected mud hydrostatic pressure is 3900 psi.

#### 8. Anticipated Starting Dates and Duration of Operations

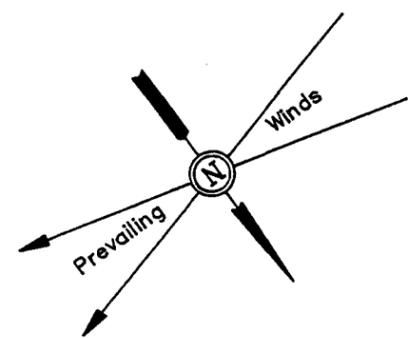
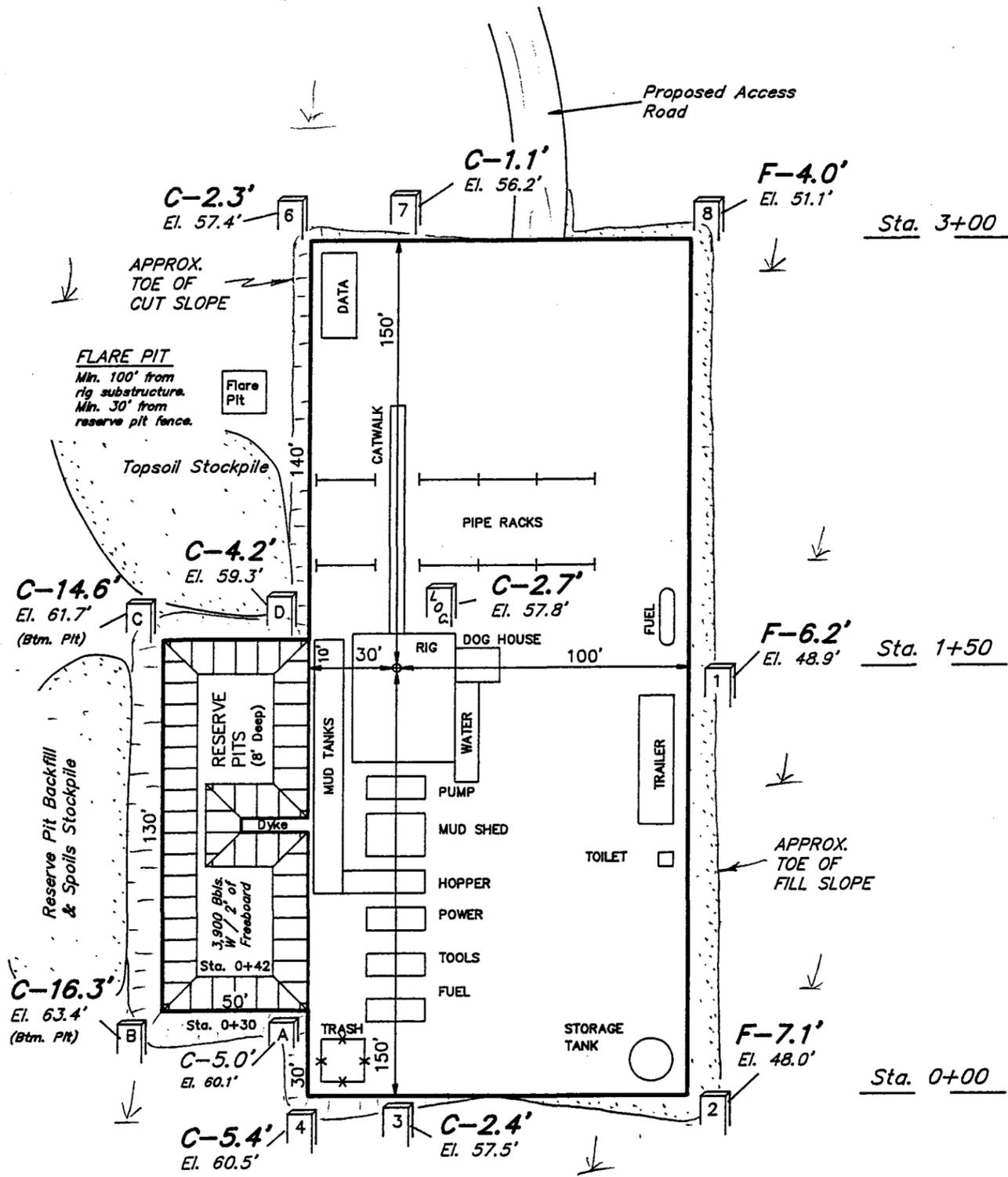
Anticipated spud date is September 23, 1991. The well should take about 35-40 days to drill. Completion operations will begin in the Spring after frost as thawed. Production equipment installation and hookup will follow completion and the well should be on production next spring.

**FIGURE NO. 1**  
**THREE PREVENTER HOOKUP**  
**CLASS III**  
**(MEETS 43 CFR, PART 3160, 3M SPECIFICATIONS)**

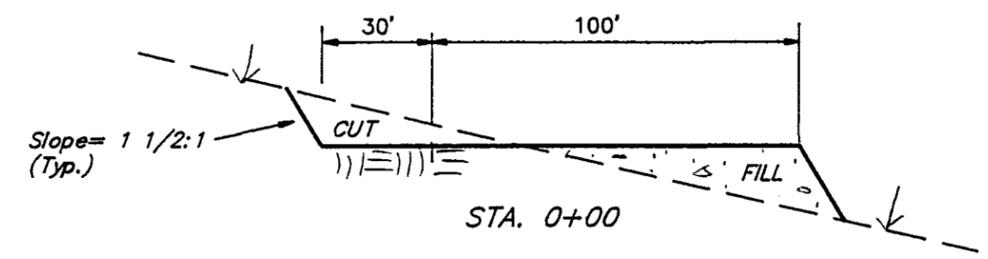
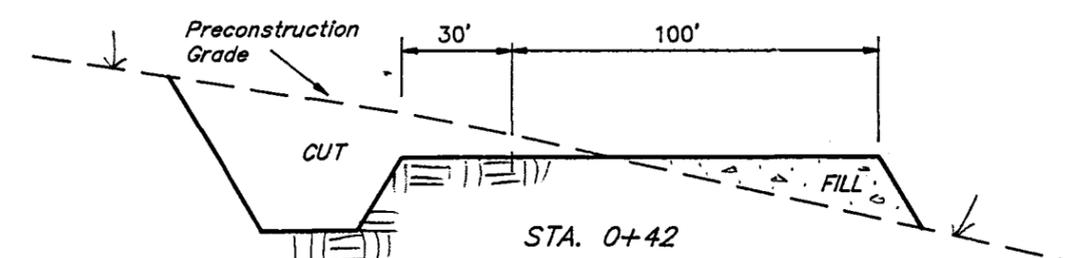
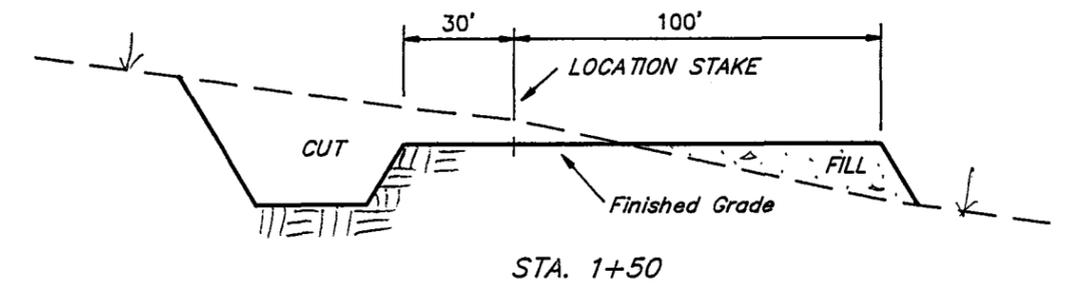
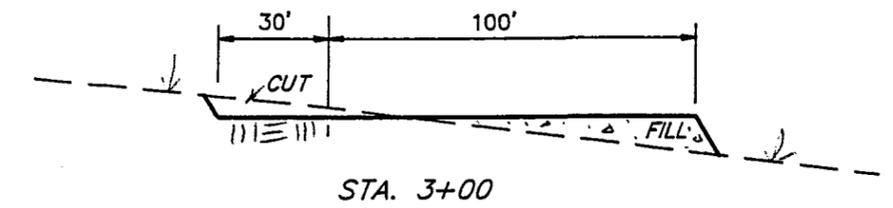
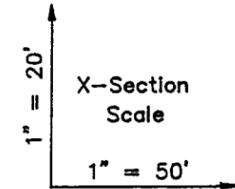


Choke Manifold may be installed either above or below pipe rams.

PG&E RESOURCES COMPANY  
 LOCATION LAYOUT FOR  
 SUNNYBROOK FEE #41-2  
 SECTION 2, T12S, R7E, S.L.B.&M.



SCALE: 1" = 50'  
 DATE: 8-20-91  
 Drawn By: J.R.S.

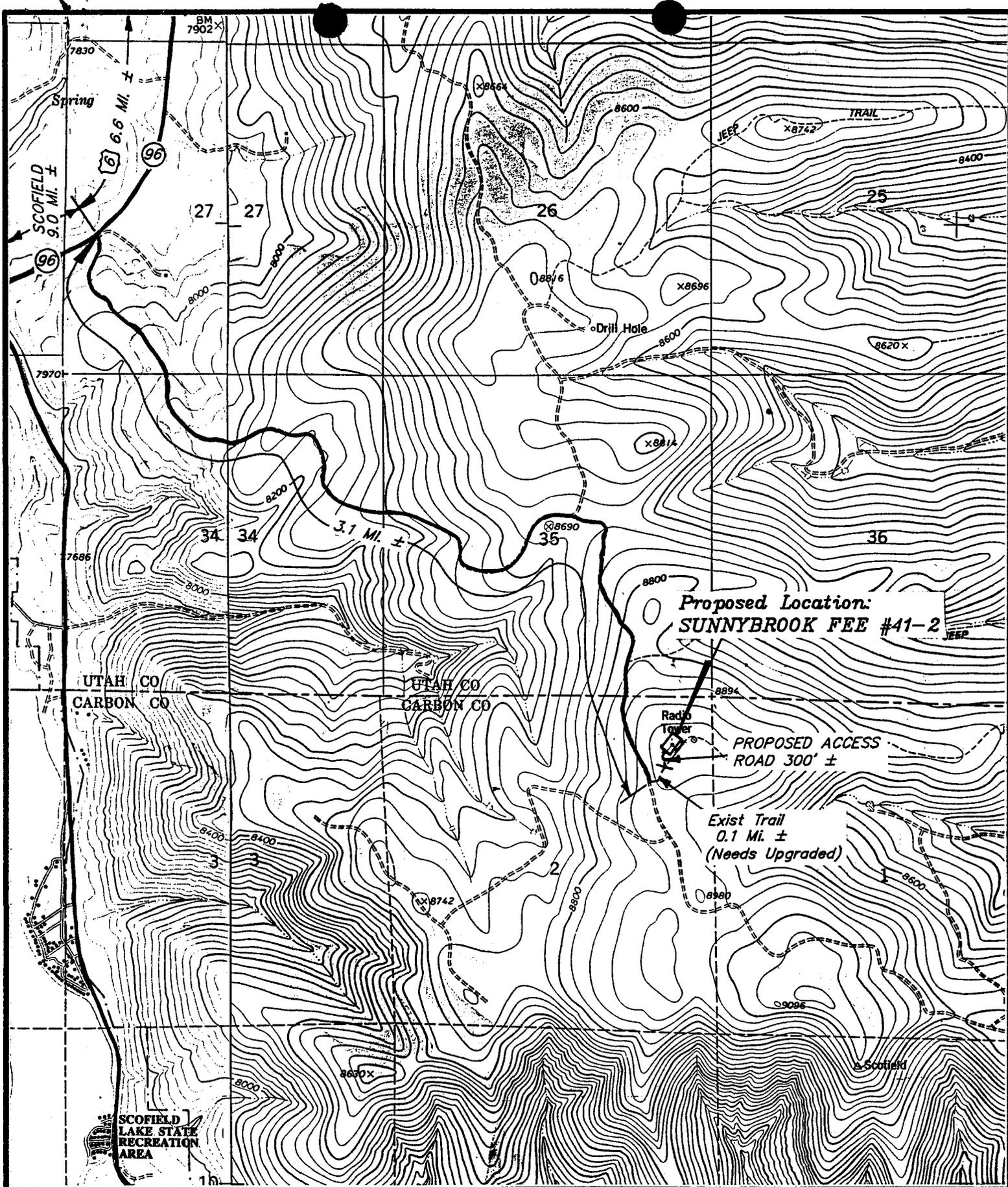


TYP. LOCATION LAYOUT  
 TYP. CROSS SECTIONS

APPROXIMATE YARDAGES

CUT (6") Topsoil Stripping	=	860 Cu. Yds.	EXCESS MATERIAL AFTER 5% COMPACTION	=	1,450 Cu. Yds.
Remaining Location	=	3,990 Cu. Yds.	Topsoil & Pit Backfill (1/2 Pit Vol.)	=	1,440 Cu. Yds.
<b>TOTAL CUT</b>	<b>=</b>	<b>4,850 CU.YDS.</b>	EXCESS UNBALANCE (After Rehabilitation)	=	10 Cu. Yds.
<b>FILL</b>	<b>=</b>	<b>3,230 CU.YDS.</b>			

Elev. Ungraded Ground at Location Stake = 8957.8'  
 Elev. Graded Ground at Location Stake = 8955.1'



TOPOGRAPHIC  
 MAP "B"  
 SCALE: 1" = 2000'  
 DATE 8-21-91 MDA

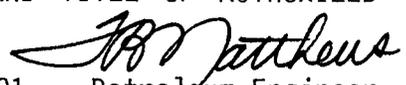


**PG&E RESOURCES COMPANY**  
 SUNNYBROOK FEE #41-2  
 SECTION 2, T12S, R7E, S.L.B.&M.



STATE ACTIONS

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

1. ADMINISTERING STATE AGENCY  
OIL, GAS AND MINING  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203
2. STATE APPLICATION IDENTIFIER NUMBER:  
(assigned by State Clearinghouse)
3. APPROXIMATE DATE PROJECT WILL START:  
September 23, 1991
4. AREAWIDE CLEARING HOUSE(S) RECEIVING STATE ACTIONS:  
(to be sent out by agency in block 1)  
Southeastern Utah Association of Governments
5. TYPE OF ACTION:  Lease  Permit  License  Land Acquisition  
 Land Sale  Land Exchange  Other \_\_\_\_\_
6. TITLE OF PROPOSED ACTION:  
Application for Permit to Drill
7. DESCRIPTION:  
PG & E Resources Company proposes to drill a wildcat well, the Sunnybrook Fee #41-2 on a private lease in Carbon County, Utah. This action is being presented to RDCC for consideration of resource issues affecting state interests. The DOGM is the primary administrative agency in this case and must issue approval to drill before operations can commence.
8. LAND AFFECTED (site location map required) (indicate county)  
NE/4, NE/4, Section 2, Township 12 South, Range 7 East, Carbon County, Utah
9. HAS THE LOCAL GOVERNMENT(S) BEEN CONTACTED?  
Unknown
10. POSSIBLE SIGNIFICANT IMPACTS LIKELY TO OCCUR:  
No significant impacts are likely to occur
11. NAME AND PHONE NUMBER OF DISTRICT REPRESENTATIVE FROM YOUR AGENCY NEAR PROJECT SITE, IF APPLICABLE:
12. FOR FURTHER INFORMATION, CONTACT:  
Frank R. Matthews  
PHONE: 538-5340
13. SIGNATURE AND TITLE OF AUTHORIZED OFFICIAL  
  
DATE: 9-23-91 Petroleum Engineer

OPERATOR PG E Resources Co J-0595 DATE 10-1-91

WELL NAME Sunnybrook tee # 41-0

SEC NENE 0 T 10S R 7E COUNTY Carbon

43-007-30148  
API NUMBER

tee (4)  
TYPE OF LEASE

CHECK OFF:

PLAT.

BOND

50,000  
80570600

NEAREST WELL

LEASE

FIELD SLBM

POTASH OR OIL SHALE

PROCESSING COMMENTS:

No other producing well within Sec 01 - fall in general state spacing water permit

Permit 9-116-91 (Geology included) 10-1-91

RDCC 9-00-91

APPROVAL LETTER:

SPACING:

R615-2-3

N/A  
UNIT

R615-3-2

N/A  
CAUSE NO. & DATE

R615-3-3

STIPULATIONS:

tee stipulation  
Pit is to be lined with a synthetic liner of 12 mil minimum thickness.

Location is to be bermed to prevent run off from the location.



# 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

October 9, 1991

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

Gentlemen:

Re: Sunnybrook Fee #41-2, 748 feet from the North line, 640 feet from the East line, NE NE, Section 2, Township 12 South, Range 7 East, Carbon County, Utah

Approval to drill the referenced well is hereby granted in accordance with Utah Admin. R.615-3-2, subject to the following stipulations:

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. Pit is to be lined with a synthetic liner of 12 mil minimum thickness.
3. Location is to be bermed to prevent run off from the location.

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

1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of Entity Action Form 6, within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.

Page 2  
PG & E Resources Company  
Sunnybrook Fee #41-2  
October 9, 1991

4. Prompt notification in the event it is 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
  5. Compliance with the requirements of Utah Admin. R.615-3-20, Gas Flaring or Venting.
  6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Department of Environmental Quality, Division of Drinking Water/Sanitation, telephone (801)538-6159.
  7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.
- The API number assigned to this well is 43-007-30148.

Sincerely,



R.J. Firth  
Associate Director, Oil and Gas

TAS/lde  
Enclosures  
cc: Bureau of Land Management  
J.L. Thompson  
WO11



# 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 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

December 9, 1992

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

Gentlemen:

Re: Sunnybrook #41-2, Sec. 2, T. 12S, R. 7E, Carbon County, Utah  
API No. 43-007-30148

Due to excessive time delay in commencing drilling operations, approval to drill the subject well is hereby rescinded, effective immediately.

Please note that a new Application for Permit to Drill must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division of Oil, Gas and Mining immediately.

Sincerely,

Don Staley  
Administrative Supervisor  
Oil and Gas

DME/lc  
cc: R.J. Firth  
Well file  
WOI219