

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG  ELECTRIC LOGS  WATER SANDS  LOCATION INSPECTED  GAWELL SUB. REPORT/abd.

890607 Chg of opus name eff. 1/84 910128 Oper. from PGE to Prodeo eff. 1-9-91  
 931130 Prodeo to Chandler & Assoc. eff. 8-1-93:

DATE FILED 6-22-81

LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. U-9617 INDIAN

DRILLING APPROVED: 7-7-81

SPUDED IN: 3-27-82

COMPLETED: 7-8-82 POW. PUT TO PRODUCING: 7-8-82

INITIAL PRODUCTION: 169 BOPD,

GRAVITY A.P.I. 38.0

GOR:

PRODUCING ZONES: 4748-4753

TOTAL DEPTH: 10,000

WELL ELEVATION: 4777

DATE ABANDONED:

FIELD: ~~UNDESIGNATED~~ NATURAL BUTTES

UNIT: GLEN BENCH

COUNTY: UINTAH

WELL NO. GLEN BENCH #31-30

API NO. 43-047-31008

LOCATION 238' FT. FROM (N) ~~W~~ LINE. 1802' FT. FROM (E) ~~W~~ LINE. NW NE 1/4 - 1/4 SEC. 30

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
	22E	30	PG & E Released Chandler & Associates NATURAL GAS CORP. OF CALIF.				

## GEOLOGIC TOPS:

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

2285  
3964  
4100  
4446  
4581  
5308

8410

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK   
 b. TYPE OF WELL  
 OIL WELL  GAS WELL  OTHER  SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
 Natural Gas Corporation of California

3. ADDRESS OF OPERATOR  
 85 South 200 East, Vernal, UT 84078 801-789-4573

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)  
 At surface 338' FNL, 1802' FEL, Section 30, T8S, R22E  
 At proposed prod. zone 238'  
*NWNE*

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 11.6 miles east of Ouray, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
 338'

16. NO. OF ACRES IN LEASE  
 1785.08

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 320

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH  
 9025'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 4777' GR

22. APPROX. DATE WORK WILL START\*  
 August 1, 1981

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48#, H-40	80'	To surface
12-1/4"	8-5/8"	24#, K-55	2500'	600 sacks <i>To surface.</i>
7-7/8"	4-1/2"	11.6#, N-80	9025'	300 sacks

APPROVED BY THE STATE  
 OF UTAH  
 DEPARTMENT OF  
 OIL, GAS, AND MINES  
 DATE: 7-7-81  
 BY: M. J. Munder

*Providing BOP equipment and preventor are rated at 5000# WP.*

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 Rick Canterbury TITLE Associate Engineer DATE June 18, 1981  
 Rick Canterbury  
 (This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

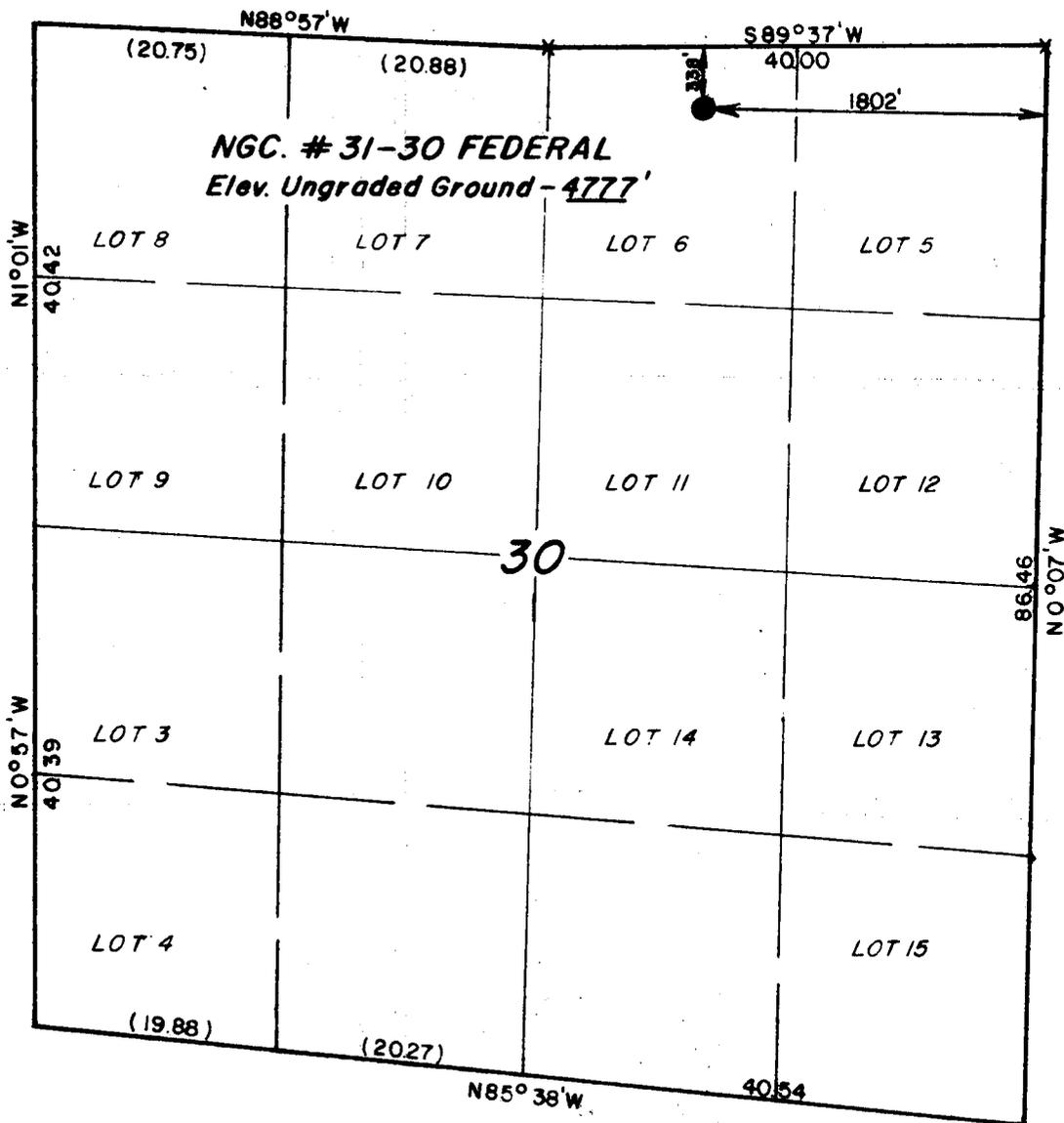
cc: USGS (5); Div. OG&M; Operations Supt.; C. T. Clark; E. R. Henry

\*See Instructions On Reverse Side

T8S , R22E , S.L.B.&M.

PROJECT  
**NATURAL GAS CORP OF CALIF**

Well location, *NGC # 31-30 FEDERAL*,  
 located as shown in the NW1/4 NE1/4 Section  
 30, T8S, R22E, S.L.B.&M. Uintah County, Utah.



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.

*Aene Stewart*

REGISTERED LAND SURVEYOR  
 REGISTRATION NO 3154  
 STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING  
 P. O. BOX Q - 110 EAST - FIRST SOUTH  
 VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 4 / 17 / 81
PARTY DA RT FCO	REFERENCES G L O Plat
WEATHER Fair	FILE NATURAL GAS CORP. OF CALIF.

X = Section Cornes Located

NATURAL GAS CORP.

OF CALIF.

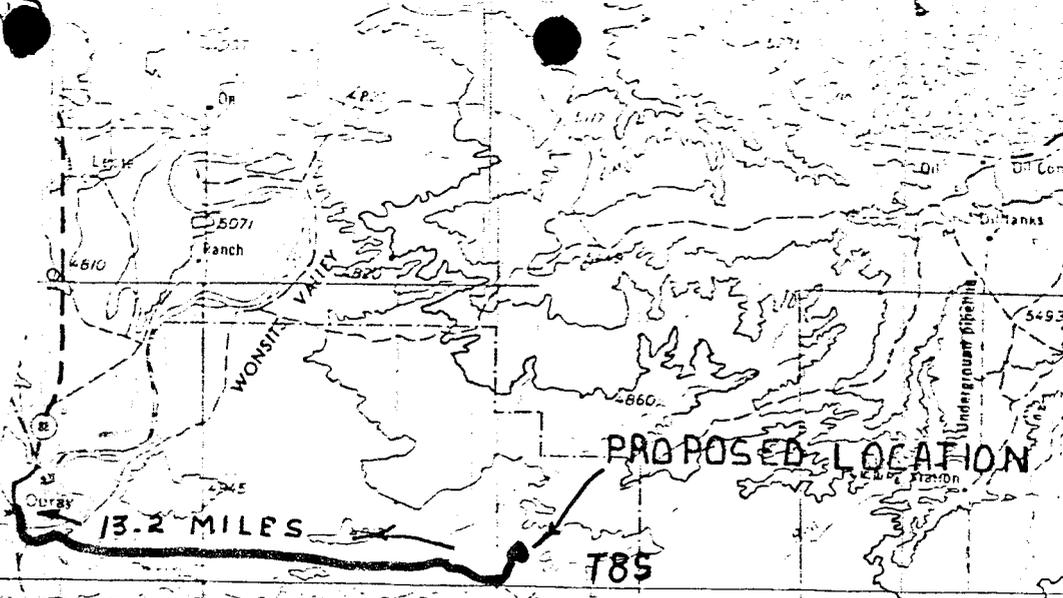
NGC # 31-30 FEDERAL

PROPOSED LOCATION

TOPO. MAP "A"

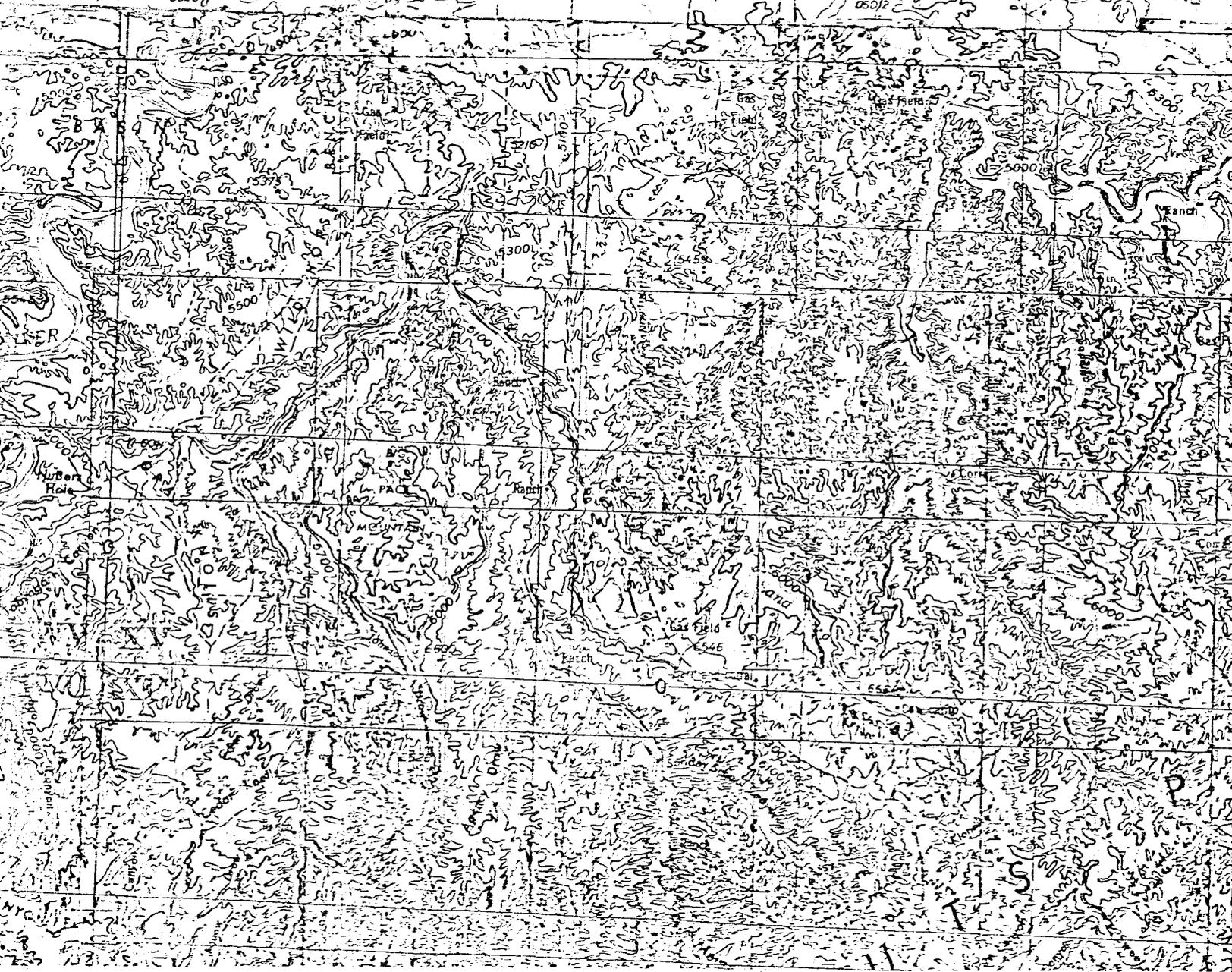


SCALE - 1" = 4 MI.



UINTAH AND OURAY INDIAN RESERVATION

21  
22  
E  
E



10 Point Plan  
 Natural Gas Corporation of California  
 Glen Bench Unit  
 NGC #31-30 Federal

1. Surface Formation: Uinta
2. Estimated Formation Tops and Datum:

<u>Formation</u>	<u>Depth</u>	<u>Datum</u>
Uinta	Surface	4791' KB
Green River	2025'	+2766'
Wasatch	5595'	- 804'
Top Mesaverde	8225'	-3434'

3. Anticipated producing formation: Green River, Wasatch, Mesaverde
4. Proposed Casing Program:

<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight/Ft.</u>	<u>Setting Depth</u>	<u>Casing-New/Used</u>
17-1/2"	13-3/8"	48#, H-40	80'	New
12-1/4"	8-5/8"	24#, K-55	2500'	New
7-7/8"	4-1/2"	11.6#, N-80	9025'	New

5. A 3000 psi WP BOP system as described in the BOP and Pressure Containment Data (attached) will be installed and maintained from under the 8-5/8" surface casing. BOP system including the casing will be pressure tested to a minimum of 3000 psi for 30 mins. prior to drilling and will be mechanically checked daily during drilling operations.

6. Mud Program:

<u>Interval</u>	<u>Mud Weight lbs/gal</u>	<u>Viscosity Sec/Qt</u>	<u>Fluid Loss ML/30 mins</u>	<u>Mud Type</u>
0-2500'	Clear Water	-----	No Control	Water Gel
2500- TD	9.5	35	10cc/Less	Brine

7. Auxiliary Equipment:

Upper Kelly cock, full opening stabbing valve, 2½" choke manifold, and pit level indicator.

8. Testing, Coring, Sampling and Logging:

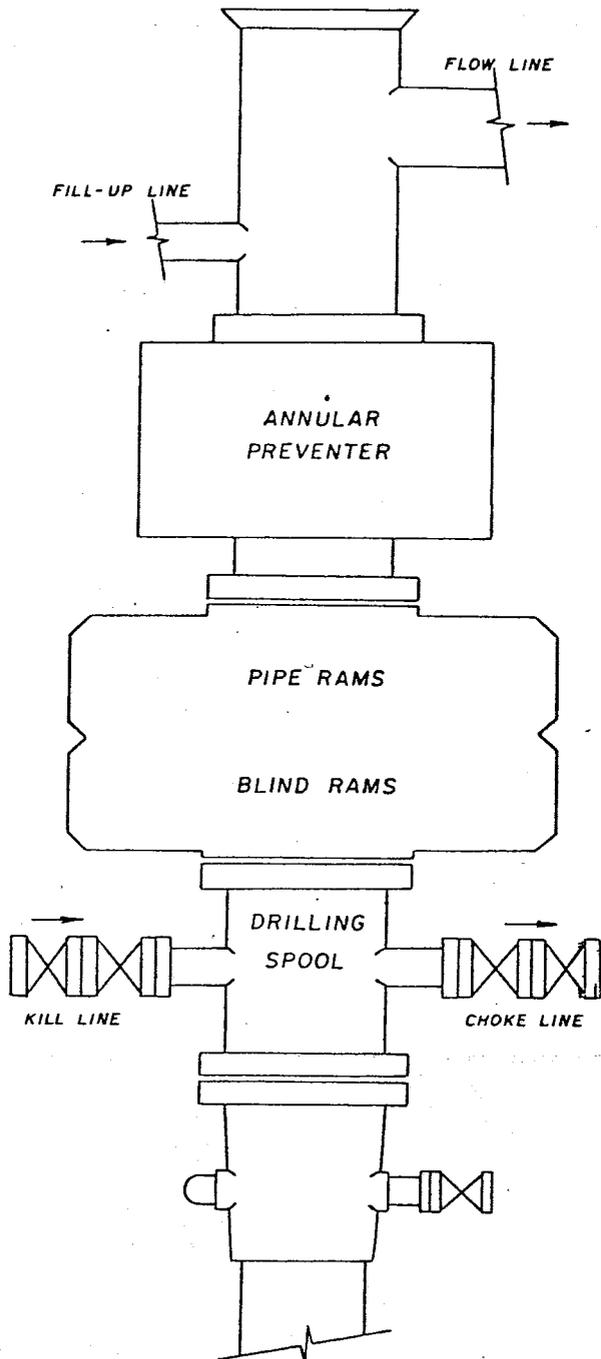
- (a) Testing: A minimum of three tests will be completed.
- (b) Coring: none.
- (c) Sampling: Samples will be taken on 10' intervals from 2500' to T.D.

(d) Logging:	<u>Type</u>	<u>Interval</u>
	(1) DIL w/GR	Surface - TD
	(2) BHC Sonic w/GR & Caliper & "F" Log Overlay	Surface - TD
	(3) CNL/FDC w/GR	Potential Pay Zones

Stimulation will be determined at the time of completion. A Sundry Notice will be submitted prior to the commencement of operations.

9. Abnormalities: No abnormal temperatures, pressures or other potential hazards are anticipated.
10. Drilling Schedule: Anticipated starting date is August 1, 1981 with duration of operations expected to be 30 days.

NATURAL GAS CORPORATION  
OF  
CALIFORNIA  
**BOP AND PRESSURE CONTAINMENT DATA**  
NGC #31-30 Federal



1. BOP equip shall consist of a double gate, hydraulically operated preventer with pipe & blind rams or two single ram type preventers, one equipped w/pipe rams, the other w/blind rams.
2. BOP's are to be well braced w/ hand controls extended clear of substructure.
3. Accumulator to provide closing pressure in excess of that required w/sufficient volume to operate all components.
4. Auxiliary equipment: Lower kelly cock, full opening stabbing valve, 2½" choke manifold, pit level indicator &/or flow sensors w/alarms.
5. All BOP equipment, auxiliary equipment stand pipe & valves & rotary hose to be tested to the rate pressure of the BOP's at time of installation & every 30 days thereafter. BOP's to be mechanically checked daily.
6. Modification of hook-up or testing procedure must be approved in writing on tour reports by wellsite representative.

Natural Gas Corporation of California

13 Point Surface Use Plan

for

Well Location

NGC #31-30

Located in

Section 30, T8S, R22E, S.L.B. & M.

Uintah County, Utah

Natural Gas Corporation of California  
NGC #31-30 Federal  
Section 30, T8S, R22E, S.L.B. & M.

## 1. EXISTING ROADS

See attached Topographic Map "A".

To reach Natural Gas Corporation of California well location NGC #31-30, located in the NW $\frac{1}{4}$  NE $\frac{1}{4}$  Section 30, T8S, R22E, S.L.B. & M., Uintah County, Utah:

Proceed East from Vernal, Utah along U.S. Highway 40 - 13 miles to its junction with Utah State Highway 245 to the South; proceed in a Southerly direction along Utah State Highway 245 + 17.6 miles to Red Wash, Utah; proceed Westerly from Red Wash, Utah on a Uintah County road (Glen Bench Rd.) + 11 miles to the junction of this road and an existing dirt road to the West; proceed Westerly along this road - 1.7 miles to its junction with the proposed access road. (To be discussed in Item #2.) Then one mile North following the above ground pipeline.

The Highways mentioned above are bituminous surface roads from Vernal, Utah to Red Wash, Utah. The County road is a dirt road constructed from the materials that were accumulated during its construction. The Highways are maintained by Utah State road crews, the County road is maintained by Uintah County forces. There will be no construction or mainenance required along the above described roads. They will meet the standards required for the drilling of this well.

## 2. PLANNED ACCESS ROAD

See Topographic Map "B".

The planned access road leaves the existing road described in Item #1 in the SW $\frac{1}{4}$  Section 30, T8S, R22E, S.L.B. & M. and proceeds in a Northeasterly direction approximately .5 mile to the proposed location site.

In order to facilitate the anticipated traffice flow necessary to drill and produce this well, the following standards will be met:

- 1) Width - 18 feet
- 2) Maximum grade - 5 percent.
- 3) Turnouts - none.
- 4) Drainage designs - Drain ditches along either side where it is determined necessary to handle run-off.
- 5) Location and size of culverts - none.
- 6) Surfacing materials - none.
- 7) Gates, cattleguards or fence cuts - none.
- 8) Proposed road has been flagged.

## 3. LOCATION OF EXISTING WELLS

- 1) Water wells - none.
- 2) Abandoned wells - none.
- 3) Temporarily abandoned wells - none.
- 4) Disposal wells - none.
- 5) Drilling wells - none.
- 6) Producing wells - none.
- 7) Shut-in wells - none.
- 8) Injection wells - none.
- 9) Monitoring or observation wells for other resources - none.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- A. 1) Tank batteries - none.
- 2) Production facilities - none.
- 3) Oil gathering lines - none.
- 4) Gas gathering lines - none.
- B. 1) In the event production is established, plans for a gas flow line from this location to existing gathering lines shall be submitted to the appropriate agencies for approval. All petroleum production facilities are to be contained within the proposed location site.
- 2) Construction methods and materials - Production facilities will be placed on the proposed pad. Construction materials will come from the unused portion of the pad.
- 3) Livestock and wildlife protection - The evaporation pond will be fenced on all four sides and overhead wire with flagging installed, if there is oil in the pit.
- C. The rehabilitation of the disturbed area that is not required for the production of this well will meet the requirements of Item #7 and #10, and these requirements will be adhered to.

5. LOCATION AND TYPE OF WATER SUPPLY

See Topographic Map "A".

The anticipated water supply for this location is from the White River in Section 6, T9S, R22E, S.L.B. & M. and will be hauled by truck the 2.5 miles over existing roads and the proposed access road.

If this water source is not available, then the necessary arrangements will be made to acquire the water needed for the drilling and production of this well and all agencies involved will be notified of any changes.

All regulations and guidelines will be followed and no deviations will be made unless all concerned agencies are notified.

All appropriate permits will be acquired and submitted to the proper authorities.

There will be no water well drilled at this location site.

6. SOURCE OF CONSTRUCTION MATERIALS

All construction materials for this location site and access road will be borrow materials, accumulated during construction of the location site. No additional road gravels or pit lining material from other sources are anticipated at this time, but if they are required, the appropriate actions will be taken to acquire them from private sources.

7. METHODS FOR HANDLING WASTE DISPOSAL

- 1) Cuttings, drilling fluids and produced fluids - A reserve pit will be constructed. The reserve pit will be approximately 10' deep and at least one-half of this depth shall be below the surface of the existing ground.

One-half of the reserve pit will be used as a fresh water storage area during the drilling of this well and the other one-half will be used to store non-flammable materials such as cuttings, salts, drilling fluids, chemicals, produced fluids, etc.

Prior to the onset of drilling, a "stock tight" fence shall be installed on three sides of the reserve pit. This fence will be either (1) woven wire at least 28 inches high and within 4 inches of ground surface with two strands of barbed wire above the woven wire with 10-inch spacing, or, (2) at least five strands of barbed wire spaced, starting from the ground, at approximately 6-, 8-, 10-, 12-, and 12-inch intervals.

If deemed necessary by the agencies concerned to prevent contamination to surrounding areas, the reserve pit will be lined with a gel.

- 2) Sewage - A portable chemical toilet will be supplied for human waste.
- 3) Garbage - Trash cages will be on all locations and all trash will be removed to an authorized sanitary landfill.
- 4) Site Clean-up - Immediately after the rig is moved out, the area around the well site will be cleaned and all refuse placed in trash cages.
- 5) If the reserve pit is constructed with a dike, the dike area will be prepared as follows:

Prior to dike embankment a cut-off trench, dozer (or scraper) width, 24 inches deep, will be excavated the full length of the dike, at center line. The excavated trench will be backfilled in 8 inch lifts. The dike will be constructed in 8 inch lifts. Each lift will be compacted by routing construction equipment uniformly over the entire embankment surface.

#### 8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

#### 9. WELL SITE LAYOUT

See typical rig layout.

As mentioned in Item #7, the pits will be unlined unless it is determined by the representatives of the agencies involved that the materials are too porous and would cause contamination to the surrounding area; then the pits will be lined with a gel and any other type material necessary to make it safe and tight.

When drilling activities commence, all work shall proceed in a neat and orderly sequence.

#### 10. PLANS FOR RESTORATION OF THE SURFACE

##### Topsoil

Prior to construction of the location, the top 6 inches of soil materials will be stripped and stockpiled. This will amount to approximately 1300 cubic yards of material that will be stockpiled.

Producing Well

Platform and pit areas no longer required for the production of the well will be backfilled, recontoured, topsoiled and seeded.

Abandoned Well

The entire disturbed area (including roads) will be restored by: (1) backfilling; (2) recontouring; (3) topsoiling; (4) seeding. Specifically: the platform high-wall(s) and road fill(s) will be eliminated by moving all excavated material back in place. Restoration of the location and access road will begin within 90 days after completion of the well.

Seeding

The seed mixture will be: 5 lbs/acre Western Wheatgrass  
5 lbs/acre Thickspike Wheatgrass

Seed will be planted after September 1 and prior to ground frost; or seed will be planted after the frost has left and before May 15. All seed will be drilled on the contour at a depth of  $\frac{1}{4}$  to  $\frac{1}{2}$  inch. Slopes too steep or rocky for machinery will be broadcast and the seed hand raked into the soil. When broadcasting the seed, the rate per acre will be doubled.

The reserve pit will remain fenced as stipulated in Item #7 and be allowed to dry completely before backfilling. If there is oil on the pits, overhead wire and flagging will be installed on the pits.

The Lessee further covenants and agrees that all of said clean-up and restoration activities shall be done and performed in a diligent and most workmanlike manner and in strict conformity with the above mentioned Items # 7 and #10.

11. OTHER INFORMATION

- 1) The soil is gravelly loamy clay with 5% vegetation coverage consisting of 75% sagebrush, 15% other shrubs, 5% grass and 5% miscellaneous.
- 2) The surface is within the Uintah and Ouray Indian Reservation. Cattle and sheep are grazed in the area.
- 3) There are no occupied dwellings or other facilities including archaeological, historical, or cultural sites near the proposed location. The nearest water is the White River 2.0 miles to the southwest.

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

Mr. Rick Canterbury  
Natural Gas Corporation of California  
85 South 200 East  
Vernal, UT 84078  
Telephone: (801) 789-4573

13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge and belief, true and correct; and that the work associated with the operations proposed herein will be performed by Natural Gas Corporation of California and its contractors in conformity with this plan and terms and conditions with this plan and the terms and conditions under which it is approved.

June 18, 1981

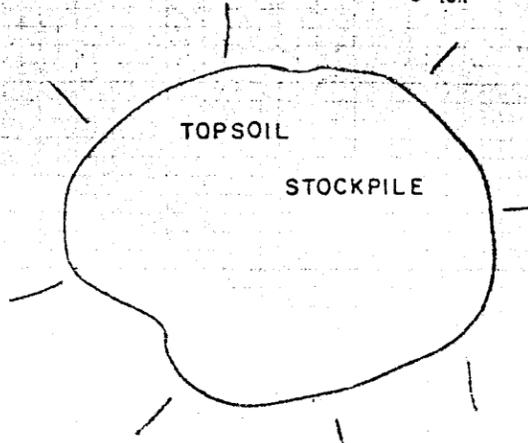
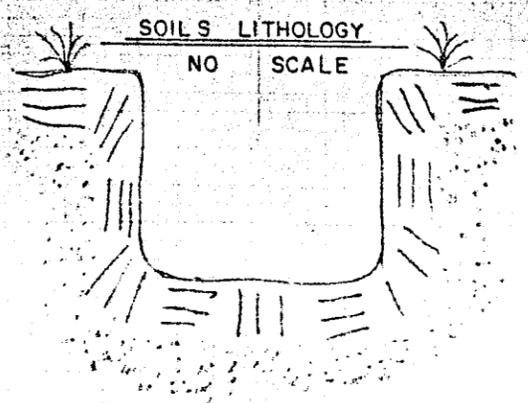
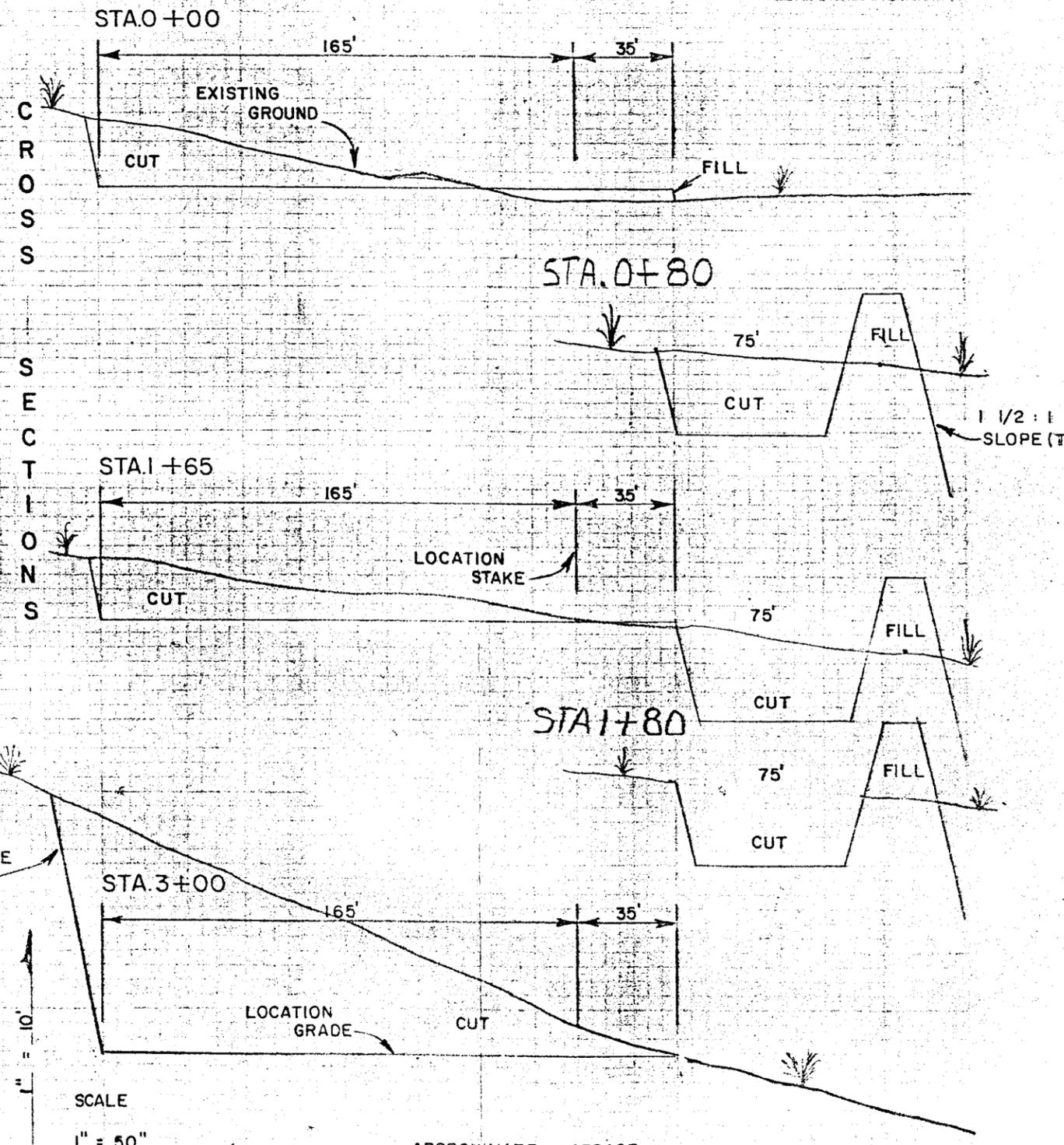
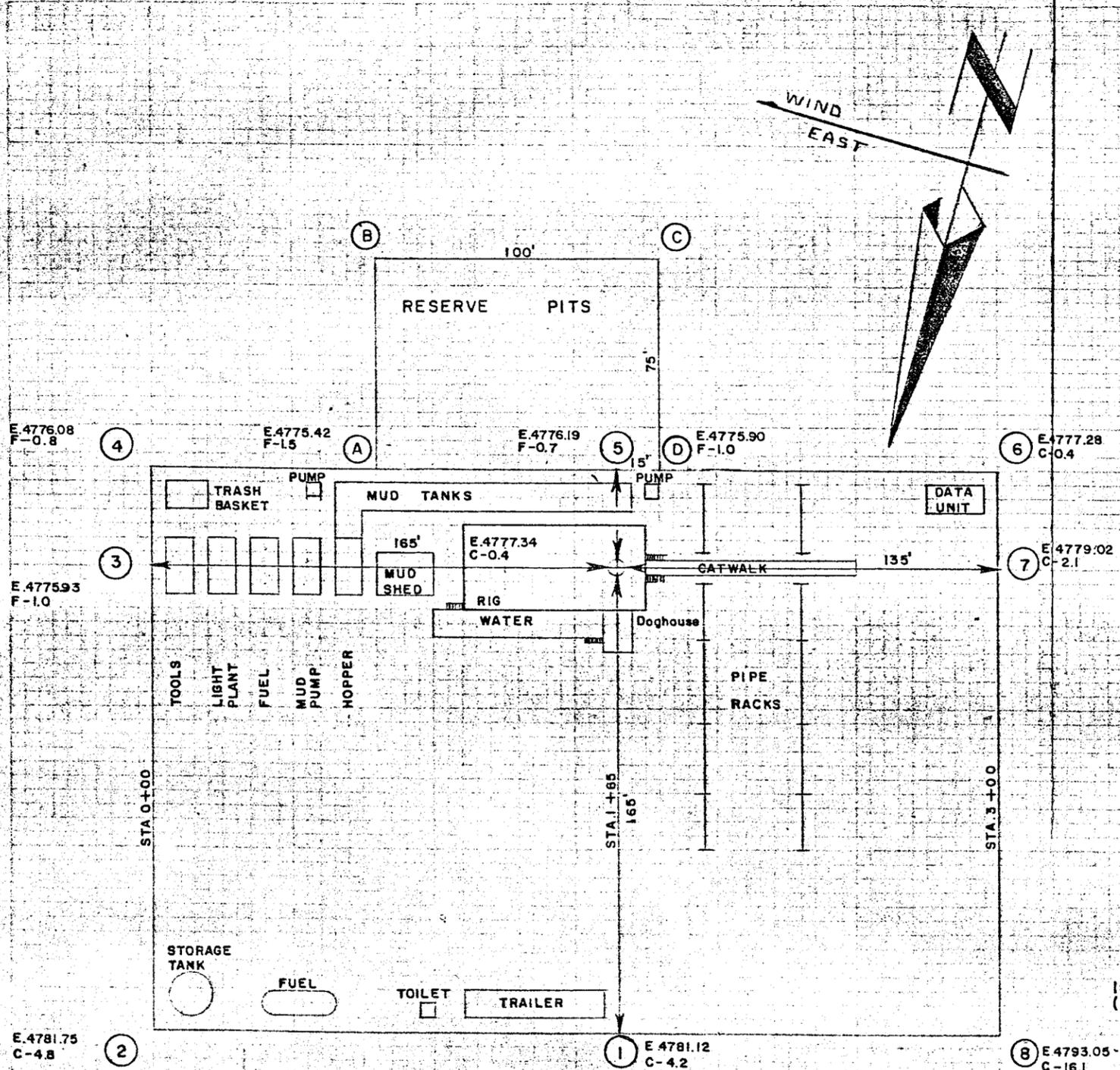
Date

Rick Canterbury

Rick Canterbury, Associate Engineer

# NATURAL GAS CORP OF CALIF.

NGC # 31-30 FEDERAL

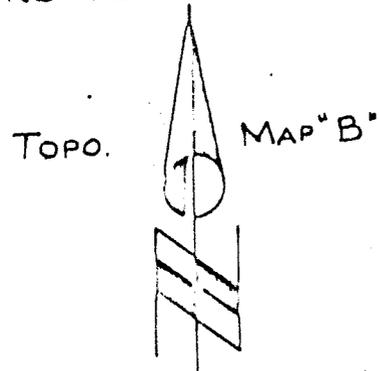


APPROXIMATE YARDAGE

Cubic Yards of Cut - 2824.83

Cubic Yards of Fill - 1482.32

NATURAL GAS CORP.  
OF CALIF.  
NGC # 30-31 FEDERAL  
PROPOSED LOCATION



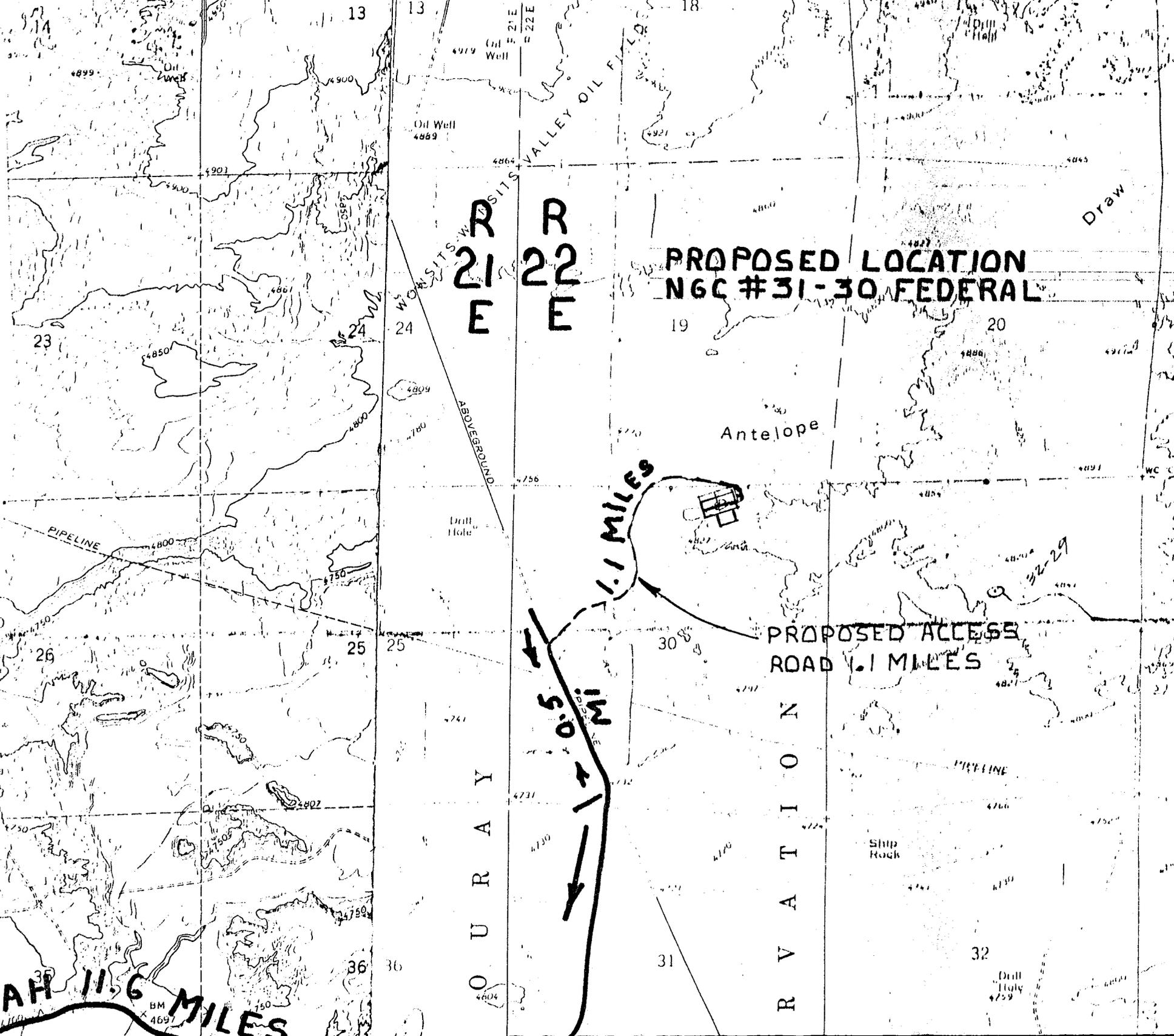
SCALE - 1" = 2000'

ROAD CLASSIFICATION

Light duty ——— Unimproved dirt - - - - -



OURAY, UTAH 11.6 MILES



T8S  
T9S

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WHITE RIVER

CHAPT. A. GEORGE

WHITE RIVER

WHITE RIVER

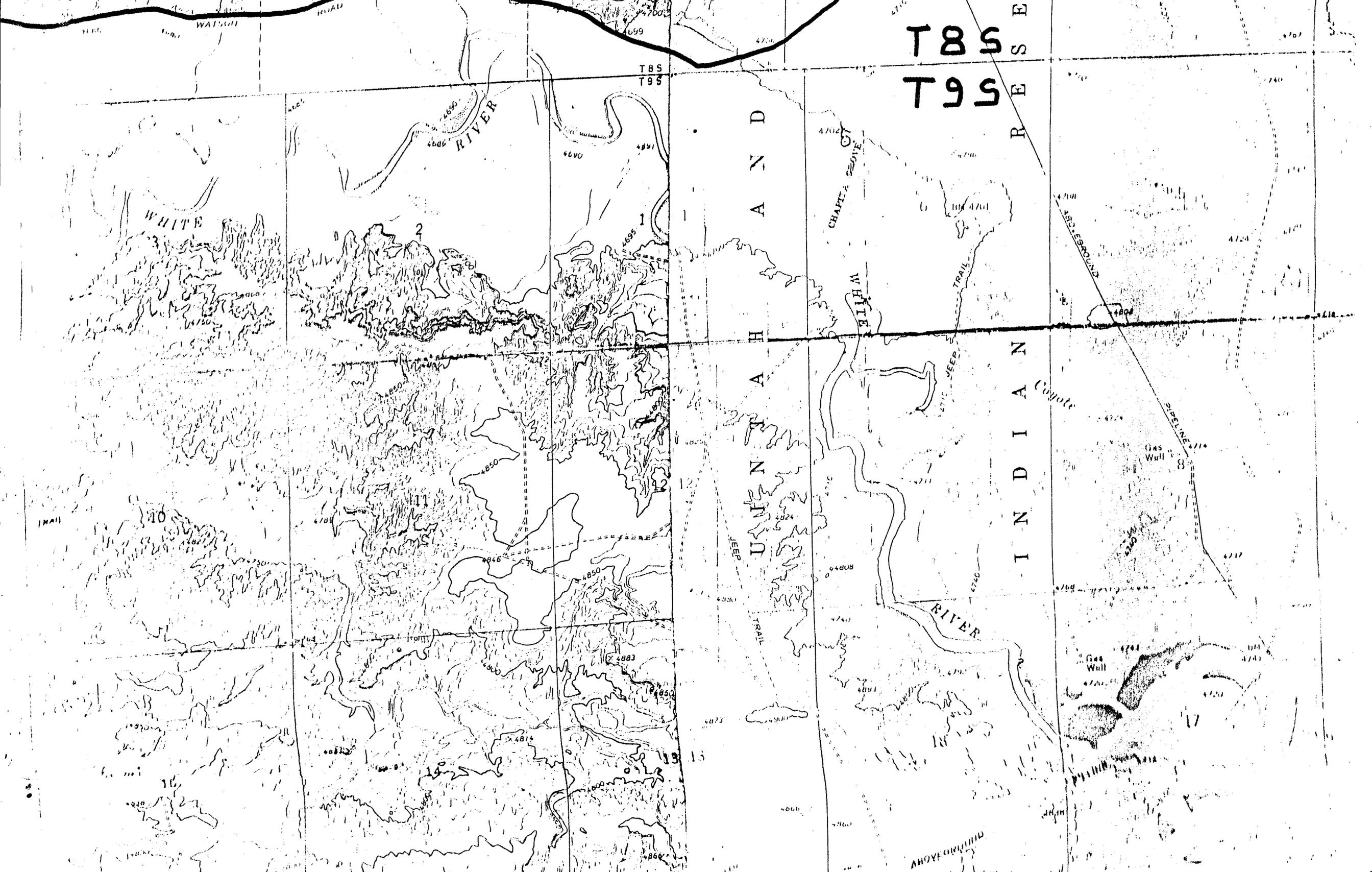
Coyote

Gas Well

Gas Well

T8S  
T9S

13



**NATURAL GAS CORPORATION  
OF CALIFORNIA**

85 South 200 East  
Vernal, Utah 84078  
(801) 789-4573

June 18, 1981

JUN 23 1981

Mr. E. W. Guynn  
Geological Survey-Conservation Div.  
2000 Administration Bldg.  
1745 West 1700 South  
Salt Lake City, UT 84104

DIVISION OF  
OIL, GAS & MINING

Mr. Michael T. Minder  
Division of Oil, Gas & Mining  
1588 West North Temple  
Salt Lake City, UT 84116

Re: NGC #31-30 Federal  
Glen Bench Unit  
Section 30, T8S, R22E  
Uintah County, Utah

Gentlemen:

Enclosed are the following documents relating to drilling the above captioned well:

- 1) Application for Permit to Drill
- 2) Surveyor's Plat
- 3) Ten Point Plan
- 4) BOP and Pressure Containment Specifications
- 5) 13 Point Surface Use Plan

Your early consideration and approval of this application would be appreciated. Should you require additional information, please contact this office.

Sincerely,

*Rick Canterbury*

Rick Canterbury  
Associate Engineer

/kh

Encls.

cc: Operations Supt.  
C. T. Clark  
E. R. Henry

\*\* FILE NOTATIONS \*\*

DATE: July 14, 1981  
OPERATOR: Natural Gas Corp. of Calif.  
WELL NO: D. Lin Bench # 31-30  
Location: Sec. 30 T. 8S R. 22E County: Uintah

File Prepared:  Entered on N.I.D.:   
Card Indexed:  Completion Sheet:

API Number 43-047-31008

CHECKED BY:

Petroleum Engineer: M.J. Mendes 7-7-81  
Providing BOP and associated equipment is replaced  
by 5000 # W.P. rated equipment.

Director: \_\_\_\_\_  
\_\_\_\_\_

Administrative Aide: \_\_\_\_\_  
\_\_\_\_\_

APPROVAL LETTER:

Bond Required:  Survey Plat Required:

Order No. \_\_\_\_\_ O.K. Rule C-3

Rule C-3(c), Topographic Exception - company owns or controls acreage  
within a 660' radius of proposed site

Lease Designation Feb Plotted on Map

Approval Letter Written

Hot Line  P.I.

*Bill Ryan*

*M*

**NATURAL GAS CORPORATION  
OF CALIFORNIA**

85 South 200 East  
Vernal, Utah 84078  
(801) 789-4573

July 6, 1981

Division of Oil, Gas & Mining  
1588 West North Temple  
Salt Lake City, UT 84116

Attn: Mike Minder

Re: Glen Bench Unit Well #31-30  
Federal Lease U-9617  
NW $\frac{1}{4}$  NE $\frac{1}{4}$  Section 30, T8S, R22E  
S.L.B.&M.  
Uintah County, Utah

Dear Mr. Minder:

Natural Gas Corporation of California, as operator of the Glen Bench Federal Unit, plans on relocating the subject well from 338' from the north line and 1802' from the east line of the subject section to 238' from the north line. The footage from the east section line will remain the same. This move was made in order to alleviate some drainage problems and reduce surface disturbance.

We would appreciate being notified if there is a problem with this change. Thank you.

Yours truly,

*Rick Canterbury*  
Rick Canterbury  
Associate Engineer

/sr

cc: Operations Supt.

**RECEIVED**  
JUL 07 1981

DIVISION OF  
OIL, GAS & MINING

July 9, 1981

Natural Gas Corp. of Calif.  
85 South 200 East  
Vernal, Utah 84078

RE: Well No. Glen Bench #31-30  
Sec. 30, T. 8S, R. 22E,  
Uintah County, Utah

Insofar as this office is concerned, approval to drill the above referred to gas well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure. However, this is providing that the BOP and associated equipment is replaced by 5000# W.P. rated equipment.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer  
Office: 533-5771  
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-047-31008.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

*M. T. Minder*  
Michael T. Minder  
Petroleum Engineer

MTM/db  
CC: USES

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK

b. TYPE OF WELL  
 OIL WELL  GAS WELL  OTHER  SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
 Natural Gas Corporation of California

3. ADDRESS OF OPERATOR  
 85 South 200 East, Vernal, UT 84078 801-789-4573

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface <sup>338'</sup> FNL, 1802' FEL, Section 30, T8S, R22E  
 At proposed prod. zone <sup>238'</sup>

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 11.6 miles east of Ouray, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 338'

16. NO. OF ACRES IN LEASE 1785.08

17. NO. OF ACRES ASSIGNED TO THIS WELL 320

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 4777' GR

22. APPROX. DATE WORK WILL START\*  
 August 1, 1981

5. LEASE DESIGNATION AND SERIAL NO.  
 U-9617

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 Uintah and Ouray

7. UNIT AGREEMENT NAME  
 Glen Bench

8. FARM OR LEASE NAME

9. WELL NO.  
 31-30

10. FIELD AND POOL, OR WILDCAT  
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 Section 30, T8S, R22E

12. COUNTY OR PARISH  
 Uintah

13. STATE  
 Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48#, H-40	80'	To surface
12-1/4"	8-5/8"	24#, K-55	2500'	600 sacks
7-7/8"	4-1/2"	11.6#, N-80	9025'	300 sacks

RECEIVED

JUL 17 1981

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 Rick Canterbury TITLE Associate Engineer DATE June 18, 1981  
 Rick Canterbury  
 (This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
 APPROVED BY WT Martin FOR E. W. GUYNN DISTRICT ENGINEER DATE JUL 16 1981  
 CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_ TITLE \_\_\_\_\_

cc: USGS (5); Div. OG&M; Operations Supt.; C. T. Clark; E. R. Henry

NOTICE OF APPROVAL

\*See Instructions On Reverse Side

CONDITIONS OF APPROVAL ATTACHED

State O & G TO OPERATOR'S COPY

FLARING OR VENTING OF  
GAS IS SUBJECT TO NTL 4-A  
DATED 1/1/80

Identification CER/EA No. 515-81

United States Department of the Interior  
Geological Survey  
2000 Administration Bldg.  
1745 West 1700 South  
Salt Lake City, Utah 84104

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator Natural Gas Corp. of California  
Project Type Gas Well - Wildcat  
Project Location 238' FNL 1802' FEL Section 30, T. 8S, R. 22E  
Well No. 31-30 Lease No. U-9617  
Date Project Submitted June 22, 1981

FIELD INSPECTION

Date July 1, 1981

Field Inspection  
Participants

<u>Craig Hansen</u>	<u>USGS, Vernal</u>
<u>Lynn Hall</u>	<u>BIA, Ft. Duchesne</u>
<u>Rick Canterbury</u>	<u>Natural Gas Corp.</u>
<u>Mel Steward</u>	<u>Natural Gas Corp.</u>
_____	_____
_____	_____

Related Environmental Documents: \_\_\_\_\_

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

7-13-81  
Date Prepared

Craig Hansen  
Environmental Scientist

I concur

JUL 14 1981

Date

W. W. Mouton FOR  
District Supervisor  
E. W. GYNN  
DISTRICT ENGINEER

Typing In 7-2-81 Typing Out 7-2-81



## CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

1. Surface Management Agency Input
2. Reviews Reports, or information received from Geological Survey  
(Conservation Division, Geological Division, Water Resource Division,  
Topographic Division)
3. Lease Stipulations/Terms
4. Application Permit to Drill
5. Operator Correspondence
6. Field Observation
7. Private Rehabilitation Agreement

RECOMMENDED STIPULATIONS FOR NATURAL GAS CORPORATION #31-30

1. Move location 100' north to 238' FNL 1802' FEL to reduce cut on south edge of location.
2. Production facilities will be painted a tan color to blend in with the natural surroundings.
3. Flowlines will follow existing access road to transmission south of the location.
4. Access road will be maintained to allow safe access.
5. Water permit will be obtained for water from Ute Tribe.

Utah and Ouray Agency  
Environmental Analysis and Negative Declaration

1. Description of Proposal:

Natural Gas Corp. of Calif., proposes to drill an gas well NGC No. 31-30 to a proposed depth of \_\_\_\_\_ feet; to construct approximately 1.1 miles of new access road; and upgrade approximately \_\_\_\_\_ miles of existing access road. The well site is located approximately 12 miles East of Ouray, Utah in the NWNE Sec. 30, T 8S, R 22E, SIM.

2. Description of the Environment:

The area is used for livestock, wildlife, hunting, scenic, oil and gas drilling and production. The topography is rolling hills and swales, sanddunes and claybeds. The vegetation consists of shadscale, galleta, greasewood, Indian ricegrass, horsebrush aster, mat saltbush.

The area is used as wildlife habitat for X deer, X antelope, \_\_\_ elk, \_\_\_ bear, X small animals, \_\_\_ pheasant X dove, X sage grouse, \_\_\_ ruffle grouse, \_\_\_ blue grouse, \_\_\_ bald eagle X, golden eagle, other rabbits, coyotes, rodents, reptiles, wildhorses. The climate is characterized by having cold snowy winters and warm dry summers. Temperatures range from -40°F during the winter to 105°F in the summer. The approximate annual precipitation is 6-8 inches. The elevation is 4777 feet.

3. Environmental Impacts:

During construction of the well dust and exhaust emissions will affect air quality. Soil and vegetation will be removed from 6.3 acres of land occupied by the well site and access road. The disturbance of the soil and removal of vegetation will:

A. Destroy wildlife habitat for: X deer, X antelope, \_\_\_ elk, \_\_\_ bear, X small mammals, \_\_\_ pheasant, X dove, \_\_\_ sage grouse, \_\_\_ ruffle grouse, \_\_\_ blue grouse, X rabbit, X golden eagle, \_\_\_ bald eagle, other rodents, reptiles

B. Remove from production: X rangeland for livestock grazing, \_\_\_ irrigated cropland, \_\_\_ irrigated pastureland, \_\_\_ prime timberland, \_\_\_ pinion-juniper land.

C. Result in the invasion of annual weeds and will cause accelerated soil erosion: During the construction and production of the well human activity in the area will increase significantly. This is expected to significantly increase: X poaching of wildlife, X disturbance of wildlife, X vandalism of property, \_\_\_ theft of firewood X litter accumulations, X livestock disturbance, X livestock thefts, X livestock loss to accidents, X increase the hazard to public health and safety. There is a high, X moderate, \_\_\_ slight possibility that pollution from this activity will enter a stream or lake.

Production facilities can easily be seen from a: community, \_\_\_ major highway, \_\_\_ public facility.

4. Mitigating measures:

To lessen the impact on the environment the provisions stipulated in the letter to Mr. Ed W. Owen, District Director, U.S. Geological Survey, dated February 13, 1980 will be implemented. Additional stipulations and changes to the 11 point surface use plan are: (1) Obtain right-of-ways & permits from the BIA and Ute Tribe. (2) Comply with all USGS, BIA and Tribal Regulations. (3) Pay surface owner for damages. (4) Operator must assume a continuing responsibility to correct problems related to his activity throughout the duration of the lease.

5. Unavoidable adverse effects:

None of the adverse effects listed in item 3) above can be avoided in a practical manner except those which were mitigated in item 4) above.

6. Relationship between short term and longterm productivity:

As long as oil or gas wells are producing and the access roads are retained there will be a total loss of production on the land and the Environmental Impacts will continue to affect the surrounding area. Normally oil and gas wells produce from 15 to 30 years. After the wells stop producing it is standard policy to restore the surface to near its original condition. Occasionally the site occupied by the well or road can be restored to produce as much as it originally produced, but most of the time it can not be restored to its original productive capacity. Therefore, the land surface productive ability will be permanently damaged.

7. Irreversible and Irretrievable commitment of Natural Resources:

There are two irreversible and irretrievable resources commit in this action.

A. Oil or Gas: Oil and gas is a non-renewable resource. Once it has been removed it can never be replaced.

B. Damage to the land surface: There are three causes of damage to the soil surface due to oil or gas wells and road construction. (1) Gravel is normally hauled onto the site as a pad foundation for equipment and traffic to operate on. Gravel has low fertility and low waterholding capacity. Therefore, after the site is restored the gravel must either be removed, or incorporated into the natural landscape. (2) Chemicals are often either accidentally spilled or intentionally applied to the site for weed and dust control. Generally the chemicals are crude oil or production water, which may contain as much as 20,000 PPM of salts. Once chemicals become incorporated in the soil they are difficult to remove and interfere with the soils ability to produce vegetation. (3) Soil compaction occurs where the site is subject to stormy wet weather and traffic from heavy trucks and equipment. Each of the above items cause soil damage and after the site is restored the productive ability of the soil will be damaged permanently.

8. Alternatives:

A. No. program - This alternative refuses the authorization of the application for permit to drill. This action would not allow the operator to enter upon the land surface to drill for oil or gas. Because the minerals usually cannot be developed without encroachment on the surface, the mineral estate is normally and traditionally designated as dominant, and the surface ownership subservient. The mineral operator's conduct is generally prescribed only by the rule of reasonableness and the limitations that he is not permitted to act in a wanton or negligent manner. Within their confines, the operator has considerable latitude in the necessary use of the surface to produce and develop the mineral estate. Therefore if the application for permit is not signed, the operator would undoubtedly initiate court proceedings against the surface owner, in this case the Ute Tribe and the Bureau of Indian Affairs. Historically the courts have upheld the right of the mineral owner to develop the mineral resource regardless of the surface owners desire, therefore the operators rights will likely be upheld if B.I.A. refuses to sign the application for permit to drill this well.

B. Sign the application for permit to drill. This alternative authorizes the operator to drill for oil or gas as prescribed in the application, providing he complies with stipulations which are considered reasonable as specified in paragraph 4 above under mitigating measures.

9. Consultation:

Craig Hansen - USGS

Rick Canterbury - Natural Gas of California

Melvin Steward - Natural Gas of California

Myron Accuttoroop & Ed Kurip - Ute Tribe Energy and Minerals.

R. Lynn Hall 7-2-81  
B.I.A. Representative

10. We (concur with or, recommend) approval of the Application for Permit to Drill the subject well.

Based on available information 7/1/81, we have cleared the proposed location in the following areas of environmental impact:

Yes  No  Listed threatened or endangered species

Yes  No  Critical wildlife habitat

Yes  No  Historical or cultural resources

Yes  No  Air quality aspects (to be used only if project is in or adjacent to a Class I area of attainment)

Yes  No  Other (if necessary)

Remarks: \_\_\_\_\_

The necessary surface protection and rehabilitation requirements are specified above.

R. Lynn Hall 7-2-81  
B.I.A. Representative

11. Declaration:

It has been determined that the drilling of the above well is not a Federal action significantly affecting the quality of the environment as would require the preparation of an environmental statement in accordance with Section 102 (2) (c) of the National Environmental Policy Act of 1969 (42 USC 4331) (2) (c).

L.W. Collier  
Superintendent

FROM : DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO : DISTRICT ENGINEER, O&amp;G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. 11-9617OPERATOR: NATURAL GAS CORP OF CALIFORNIAWELL NO. 31-312LOCATION: NW $\frac{1}{2}$  NE $\frac{1}{2}$  NW $\frac{1}{2}$  sec. 37, T. 8 S., R. 2 E, SLM ..UINTAH County, UTAH

## 1. Stratigraphy:

UINTAH	SURFACE
GREEN RIVER	7025'
WAGATCH	5595'
MESAVERDE	8225'
<u>TD</u>	<u>9025'</u>

## 2. Fresh Water:

FRESH WATER THROUGHOUT UINTAH FM.

SALINE USEABLE WATER IN GREEN RIVER FM.

## 3. Leasable Minerals:

OIL SHALE IN GREEN RIVER.

MANGANESE ZONE SHOULD OCCUR AT ~2950'.

4. Additional Logs Needed: ADEQUATE5. Potential Geologic Hazards: NONE EXPECTED6. References and Remarks: CASHION, OPEN FILE 1969Signature: David ResnoDate: 7-13-81

**NATURAL GAS CORPORATION  
OF CALIFORNIA**

85 South 200 East  
Vernal, Utah 84078  
(801) 789-4573

March 22, 1982

Mr. E. W. Gynn  
Minerals Management Service  
2000 Administration Bldg.  
1745 West 1700 South  
Salt Lake City, UT 84104

Mr. Sam Boltz, Jr.  
Chorney Oil Company  
1860 Lincoln, Suite 401  
Denver, CO 80295

Division of Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, UT 84114

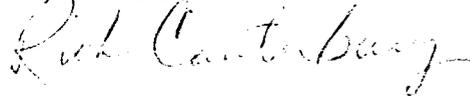
Mr. Bob Gilmore  
DeGolyer & MacNaughton  
No. 1 Energy Square  
Dallas, TX 75206

Re: NGC #31-30 Federal  
Section 30, T.8S., R.22E.  
Uintah County, Utah  
Glen Bench Unit

Gentlemen:

Attached are copies of Form 9-331, Sundry Notices and Reports on Wells, Request for Approval to Change Proposed Casing program, for the above captioned well.

Sincerely,



Rick Canterbury  
Associate Engineer

/kh

Attachments

cc: Operations  
C. T. Clark (Cover Letter Only)  
E. R. Henry  
S. Furtado

**RECEIVED**  
MAR 24 1982

DIVISION OF  
OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**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 Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR  
Natural Gas Corporation of California

3. ADDRESS OF OPERATOR  
85 South 200 East, Vernal, UT 84078

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 238' FNL and 1802' FEL, Sec. 30,  
AT TOP PROD. INTERVAL: T.8S., R.22E.  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

5. LEASE  
U-9617

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Uintah and Ouray

7. UNIT AGREEMENT NAME  
Glen Bench

8. FARM OR LEASE NAME

9. WELL NO.  
31-30

10. FIELD OR WILDCAT NAME  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 30, T.8S., R.22E.

12. COUNTY OR PARISH  
Uintah

13. STATE  
Utah

14. API NO.  
43-047-31008

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
4777' GR

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF
- FRACTURE TREAT
- SHOOT OR ACIDIZE
- REPAIR WELL
- PULL OR ALTER CASING
- MULTIPLE COMPLETE
- CHANGE ZONES
- ABANDON\*

SUBSEQUENT REPORT TO:

**RECEIVED**

MAR 24 1982

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

DIVISION OF  
OIL, GAS & MINING

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.)\*

Due to casing availability, Operator plans to substitute 9-5/8", 36#, K-55 casing for the 8-5/8" casing originally planned in the 10 Point Program.

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

DATE: 3/24/82  
BY: [Signature]

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED Rick Canterbury TITLE Associate Engr. DATE March 22, 1982

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

cc: Minerals Management Service; Div. OG&M; DeGolyer; Chorney; Operations; ERHenry; SFurtado

NOTICE OF SPUD

Company: Natural Gas Corp of CA

Caller: Carla

Phone: 789-4573

Well Number: # 31-30

Location: NW 1/4 NE 1/4 Sec 30 T 8 S R. 22 E

County: Uintah State: UT

Lease Number: 12-9617

Lease Expiration Date: \_\_\_\_\_

Unit Name (If Applicable): Glen Bench

Date & Time Spudded: 3-27-82 2:15 P.M.

Dry Hole Spudder/Rotary: \_\_\_\_\_

Details of Spud (Hole, Casing, Cement, etc.) 12 1/4" hole  
set 13 3/8 casing

Rotary Rig Name & Number: Ohlson # 2

Approximate Date Rotary Moves In: 3-25-82

FOLLOW WITH SUNDRY NOTICE

Call Received By: \_\_\_\_\_

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

cc: mms, Urral  
UT St. O & S  
Well file  
APD  
TAM

**RECEIVED**  
APR 01 1982

DIVISION OF  
OIL, GAS & MINING

**NATURAL GAS CORPORATION  
OF CALIFORNIA**

85 South 200 East  
Vernal, Utah 84078  
(801) 789-4573

April 2, 1982

Mr. E. W. Gynn  
Minerals Management Service  
2000 Administration Bldg.  
1745 West 1700 South  
Salt Lake City, UT 84104

Division of Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, UT 84114

Mr. Sam Boltz, Jr.  
Chorney Oil Company  
1860 Lincoln, Suite 401  
Denver, CO 80295

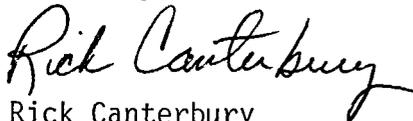
Mr. Bob Gilmore  
DeGolyer & MacNaughton  
No. 1 Energy Square  
Dallas, TX 75206

Re: NGC #31-30 Federal  
Section 30, T.8S., R.22E.  
Uintah County, Utah  
Glen Bench Unit

Gentlemen:

Attached are copies of Form 9-331, Sundry Notices and Reports on  
Wells, Report of Spud Date, for the above referenced well.

Sincerely,



Rick Canterbury  
Associate Engineer

/kh

Attachment

cc: Operations  
C. T. Clark  
E. R. Henry  
S. Furtado

**RECEIVED**  
APR 06 1982

**DIVISION OF  
OIL, GAS & MINING**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**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 Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR  
Natural Gas Corporation of California

3. ADDRESS OF OPERATOR  
85 South 200 East, Vernal, UT 84078

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 238' FNL, 1802' FEL, Sec. 30, T.8S. R.22E.  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

5. LEASE  
U-9617

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Uintah and Ouray

7. UNIT AGREEMENT NAME  
Glen Bench

8. FARM OR LEASE NAME  
Federal

9. WELL NO.  
31-30

10. FIELD OR WILDCAT NAME  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 30, T.8S., R.22E.

12. COUNTY OR PARISH  
Utah

13. STATE  
Utah

14. API NO.  
43-047-31008

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
4777' GR

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other) Report of Spud Date			

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)\*

Operator reports that subject well was spudded 3/27/82 at 2:15 p.m. by Olsen Drilling Rig #2.

Spud date was reported orally to Minerals Management Service, Salt Lake City, 3/31/82.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED Rick Canterbury TITLE Associate Engr. DATE 4/2/82  
Rick Canterbury  
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

cc: Minerals Management; Div. OG&M; Operations; CTClark; ERHenry; SFurtado; DeGolyer; Chorney

Contractor Olsen Drilling Co. Top Choke 1/4"  
 Rig No. 2 Bottom Choke 9/16"  
 Spot NW-NE Size Hole 7 7/8"  
 Sec. 30 Size Rat Hole --  
 Twp. 8 S Size & Wt. D. P. 4 1/2" 16.60  
 Rng. 22 E Size Wt. Pipe --  
 Field Natural Buttes I. D. of D. C. 2 1/4"  
 County Uintah Length of D. C. 661'  
 State Utah Total Depth 10,000'  
 Elevation 4777' GL Interval Tested 4748-4763'  
 Formation Wasatch Type of Test Inflate  
Straddle

Flow No. 1 15 Min.  
 Shut-in No. 1 30 Min.  
 Flow No. 2 40 Min.  
 Shut-in No. 2 180 Min.  
 Flow No. 3 -- Min.  
 Shut-in No. 3 -- Min.  
 Bottom Hole Temp. 185°F  
 Mud Weight 9.8  
 Gravity --  
 Viscosity 63

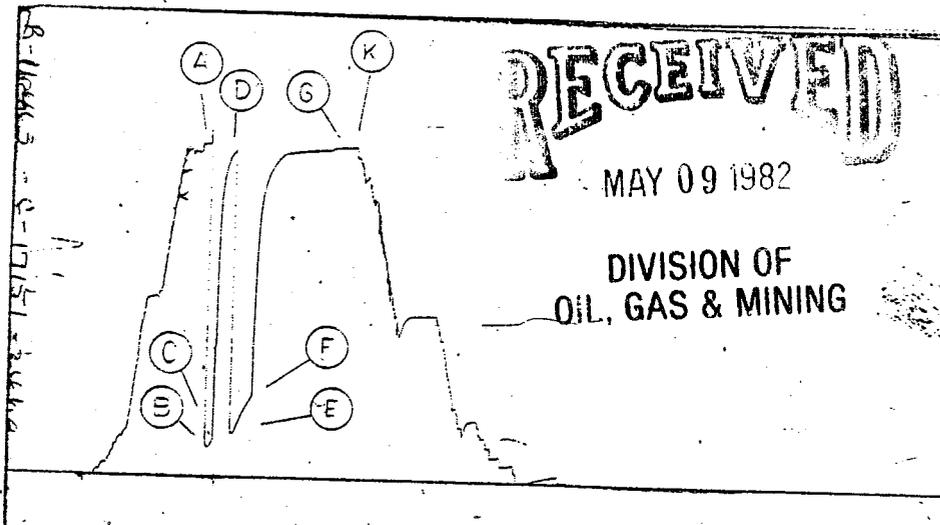
Tool opened @ 12:12 p.m.

Outside Recorder

PRD Make Kuster K-3  
 No. 16463 Cap. 3450 @ 4753'

	Press	Corrected
Initial Hydrostatic	A	2441
Final Hydrostatic	K	2431
Initial Flow	B	216
Final Initial Flow	C	274
Initial Shut-in	D	2384
Second Initial Flow	E	320
Second Final Flow	F	601
Second Shut-in	G	2433
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--
EXTRAPOLATION FSI		2473
EXTRAPOLATION SSI		2486

Lynes Dist.: Rock Springs, WY  
 Our Tester: Stormy Hayes  
 Witnessed By: Red Brewbaker



Did Well Flow - Gas Yes Oil No Water No  
 RECOVERY IN PIPE: 2353' Heavy tar sand & crude oil = 27.26 bbls.

Blow Description:

1st Flow: Tool opened with a bottom of bucket blow in 10 seconds, increased to 2 psi. in 1 minute with gas to surface in 5 minutes. See Gas Volume Report.

2nd Flow: Tool opened with gas to surface. See Gas Volume Report.

At conclusion of Final Flow Cycle gas was measured at a 26.5 MCF/D rate.

Operator Natural Gas Corp. of California  
 Well Name and No. Glen Bench #31-30  
 Address See Distribution  
 Ticket No. 27076  
 Date 5-24-82  
 No. Final Copies 9  
 DST No. 1

# LYNES, INC.

Natural Gas Corporation of California

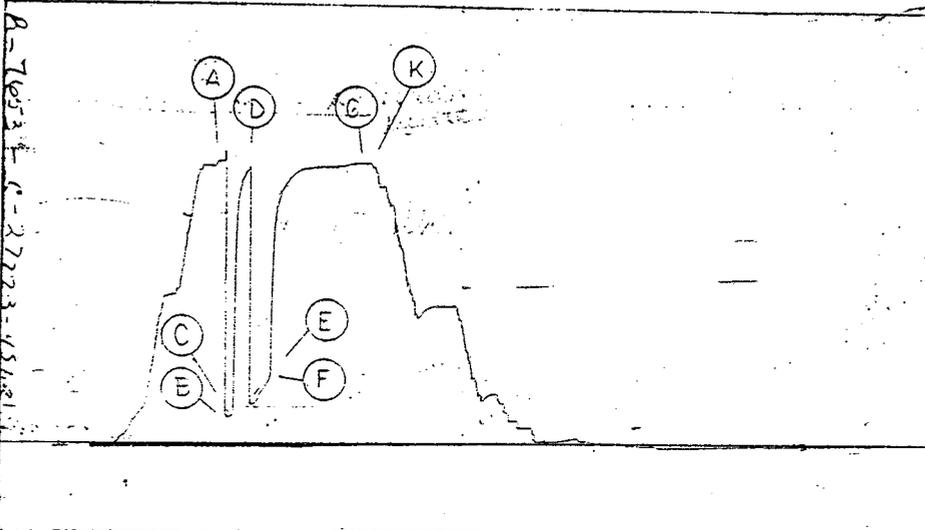
Glen Bench #31-30

1

Operator

Well Name and No.

DST No.



**Outside Recorder**

PRD Make Kuster K-3

No. 7653 Cap. 4000 @ 4753'

	Press	Corrected
Initial Hydrostatic	A	2411
Final Hydrostatic	K	2388
Initial Flow	B	233
Final Initial Flow	C	257
Initial Shut-in	D	2336
Second Initial Flow	E	341
Second Final Flow	F	586
Second Shut-in	G	2368
Third Initial Flow	H	---
Third Final Flow	I	---
Third Shut-in	J	---
Pressure Below Bottom Packer Bled To		

# LYNES, INC.

NATIONAL GAS CORPORATION OF CALIFORNIA

Operator

GLEN BENCH #31-30

Well Name and No.

1

DST No.

Comments relative to the analysis of the pressure chart form DST #1, Interval: 4748'-4763', which was run in the above captioned well located in the NW-NE Section 30, T8S, R22E, Uintah County, Utah.

The DST charts indicate a mechanically good test in which the tools and recorders functioned properly. This analysis has been made on the basis of the liquid recovery, with the Horner extrapolation method and the Horner equations applicable to liquid recovery tests as shown on the inside of the back cover of this report folder. For this analysis, the gas recovery has been assumed to be solution gas.

For purposes of this analysis, the following reservoir properties, fluid properties, and test parameters have been used:

BHT = 185<sup>o</sup>F;  $\mu$  = 6.00 cps., h = 10 feet (estimated), t = 55 minutes, m = 625.8 psi/log cycle.

1. Extrapolation of the Initial shut-in pressure build-up curve indicates a maximum reservoir pressure of 2490 psi at the recorder depth of 4753 feet. Extrapolation of the Final shut-in pressure build-up curve indicates a maximum reservoir pressure of 2505 psi. The extrapolated pressure differential is insignificant and is due to insufficient Initial shut-in time.
2. The calculated Average Production Rate which was used in this analysis, 713.9 BPD, is based upon the net liquid recovery of 27.3 barrels and the total flowing time of 55 minutes.
3. The calculated Damage Ratio of 0.6 indicates no significant presence of wellbore damage at the time of this formation test.
4. The calculated Effective Transmissibility of 185.5 md.-ft./cp., indicates an Average Permeability to the produced fluid of 111.3 md., for the estimated 10 feet of effective porosity within the total 15 feet of interval tested.
5. The evaluation criteria used in the Drill Stem Test Analysis System indicate the results obtained in this analysis should be reliable within reasonable limits relative to the assumptions which have been made.

*P.D. Banks*

P.D. Banks  
Technical Service Manager

Lynes, Inc.

PDB:gm

FITTED LINE:  $\text{LOG}((\text{TO}+\text{PHI})/\text{PHI}) = -0.00160 \text{ PSIG} + 4.00382$

EXTRAPOLATION OF SECOND SHUT IN = 2505.46 M = 625.77

RESERVOIR PARAMETERS:  
-----

COLLAR RECOV	661.000	PIPE RECOVRY	1692.000	INIT FLO TIM	15.000
FINL FLO TIM	40.000	MUD EXPANSN	1.000	BOTTM HOL TM	185.000
API GRAVITY	24.000	SPEC GRAVITY	.910	VISCOSITY	6.000
PAY THICKNES	10.000	SURSEA DEPTH	24.000	WATER GRADNT	.433

REPORT #3601

WELL NAME - GLEN BENCH 31-30

WELL OPERATOR - NATURAL GAS CORPORATION OF CALIF.

DST NUMBER - 1

RECORDER NUMBER - 16463

CALCULATIONS: SECOND SHUT IN  
-----

EXTRAPOLATED RESERVOIR PRESS.(PSIG) .....	2505.5
NO. OF POINTS ENTERED.....	20.0
NO. OF POINTS USED IN EXTRAPOLATION .....	6.0
ROOT MEAN SQUARE DEVIATION OF BEST FIT LINE(P.SI) ,	.005
TOTAL FLOW TIME(MIN) .....	55.0
AVERAGE PRODUCTION RATE DURING TEST(BBLS/DAY) .....	713.9
TRANSMISSIBILITY(MD-FT/CP) .....	185.5
IN SITU CAPACITY(MD-FT) .....	1113.0
AVERAGE EFFECTIVE PERMEABILITY(MD) .....	111.30
PRODUCTIVITY INDEX(BBLS/DAY-PSI) .....	.375
DAMAGE RATIO .....	.6
PRODUCTIVITY INDEX WITH DAMAGE REMOVED(BBLS/DAY-PSI) ...	
RADIUS OF INVESTIGATION(FT) .....	78.2
DRAWDOWN FACTOR(%) .....	
POTENTIOMETRIC SURFACE(FT) .....	5810.3

WELL NAME: GLEN BENCH 31-30

DST NUMBER: 001

RECORDER NUMBER: 016463

INTERVAL TESTED: 4748FT TO 4763FT

RECORDER DEPTH: 4753.000FT

TOTAL FLOW TIME: 15.0MIN

FIRST SHUT IN PRESSURE (LIQUID)

TIME (MIN)	(T+PHI) /PHI	PRESSURE (PSI)
.0	.0000	274.0
1.0	16.0000	818.0
2.0	8.5000	961.0
3.0	6.0000	1010.0
4.0	4.7500	1497.0
5.0	4.0000	1749.0
6.0	3.5000	1915.0
7.0	3.1429	1994.0
8.0	2.8750	2060.0
9.0	2.6667	2104.0
10.0	2.5000	2136.0
12.0	2.2500	2194.0
14.0	2.0714	2236.0
16.0	1.9375	2275.0
18.0	1.8333	2301.0
20.0	1.7500	2323.0
22.0	1.6818	2346.0
24.0	1.6250	2360.0
26.0	1.5769	2373.0
28.0	1.5357	2379.0
30.0	1.5000	2384.0

EXTRAPOLATED PRESSURE: 2489.60 PSI

WELL NAME: GLEN BENCH 31-30

DST NUMBER: 001

RECORDER NUMBER: 016463

INTERVAL TESTED: 4748FT TO 4763FT

RECORDER DEPTH: 4753.000FT

TOTAL FLOW TIME: 55.0MIN

SECOND SHUT IN PRESSURE (LIQUID)

TIME (MIN)	(T+PHI)	PRESSURE
PHI	/PHI	(PSI)
.0	.0000	601.0
1.0	56.0000	1111.0
2.0	28.5000	1317.0
3.0	19.3333	1415.0
4.0	14.7500	1585.0
5.0	12.0000	1672.0
6.0	10.1667	1772.0
7.0	8.8571	1856.0
8.0	7.8750	1900.0
9.0	7.1111	1952.0
10.0	6.5000	1978.0
12.0	5.5833	2043.0
14.0	4.9286	2086.0
16.0	4.4375	2120.0
18.0	4.0556	2147.0
20.0	3.7500	2176.0
22.0	3.5000	2205.0
24.0	3.2917	2223.0
26.0	3.1154	2240.0
28.0	2.9643	2253.0
30.0	2.8333	2268.0
40.0	2.3750	2327.0
50.0	2.1000	2366.0
60.0	1.9167	2381.0
70.0	1.7857	2385.0
80.0	1.6875	2391.0
90.0	1.6111	2395.0
100.0	1.5400	2400.0
110.0	1.5000	2402.0
120.0	1.4583	2404.0
130.0	1.4231	2407.0
140.0	1.3929	2410.0
150.0	1.3667	2424.0
160.0	1.3438	2438.0
170.0	1.3235	2431.0
180.0	1.3056	2433.0

SLOPE: 625.77 PSI/LOG CYCLE

EXTRAPOLATED PRESSURE: 2505.46 PSI

HORNER PLOT

TEST DATE: 05 24 82

WELL NAME: GLEN BENCH 31-30

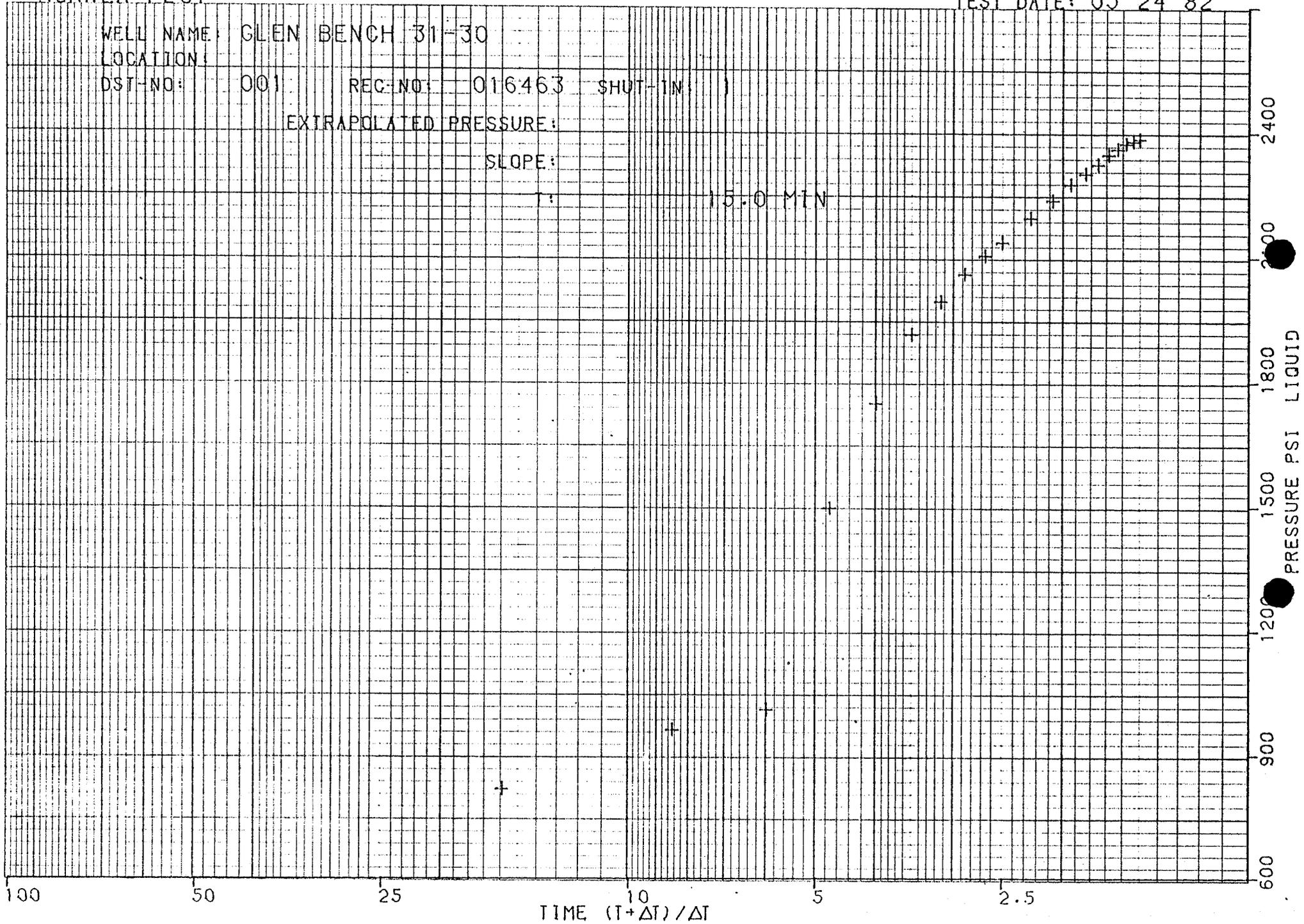
LOCATION:

DST-NO: 001 REC-NO: 016463 SHUT-IN

EXTRAPOLATED PRESSURE:

SLOPE:

t: 15.0 MIN



HORNER PLOT

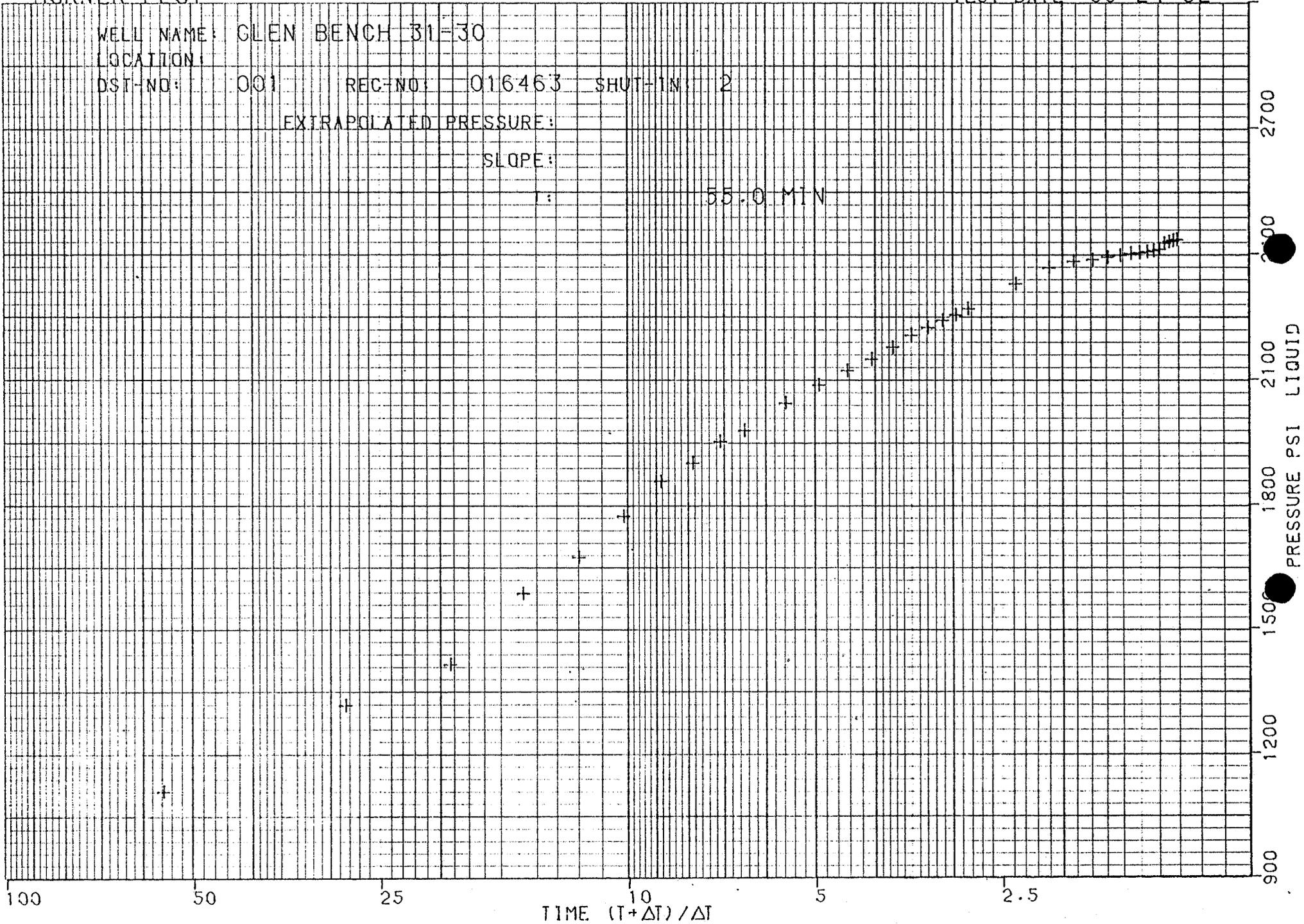
TEST DATE: 05 24 82

WELL NAME: GLEN BENCH 31-30  
LOCATION:  
DST-NO: 001 REC-NO: 016463 SHUT-IN: 2

EXTRAPOLATED PRESSURE:

SLOPE:

55.0 MIN





# LYNES, INC.

## Sampler Report

Company Natural Gas Corporation of California Date 5-24-82  
Well Name & No. Glen Bench #31-30 Ticket No. 27076  
County Uintah State Utah  
Test Interval 4748-4763' DST No. 1

Total Volume of Sampler: 2000 cc.  
Total Volume of Sample: 1800 cc.  
Pressure in Sampler: 475 psig  
Oil: 1800 cc.  
Water: None cc.  
Mud: None cc.  
Gas: 2.3 cu. ft.  
Other: None

### Resistivity

Make Up Water R.W.: 10.00 @ 74° F Salinity Content 450 ppm.  
Mud Pit Sample R.W.: .08 @ 70° F Salinity Content 100,000 ppm.  
Gas/Oil Ratio 204/1 Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F

Where was sample drained On location

Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# LYNES, INC.

## Distribution of Final Reports

Natural Gas Corporation of California  
Operator

Glen Bench #31-30  
Well Name and No.

Original: Natural Gas Corporation of California, 7800 East Union Avenue, Suite 800 ,  
Denver, Colorado 80237 Attn: Operations Supt.

2 copies: Natural Gas Corporation of California, 7800 East Union Avenue, Suite 800,  
Denver, Colorado 80237 Attn: Dave McGinley

1 copy: Natural Gas Corporation of California, 7800 East Union Avenue, Suite 800,  
Denver, Colorado 80237 Attn: Rod Boschee

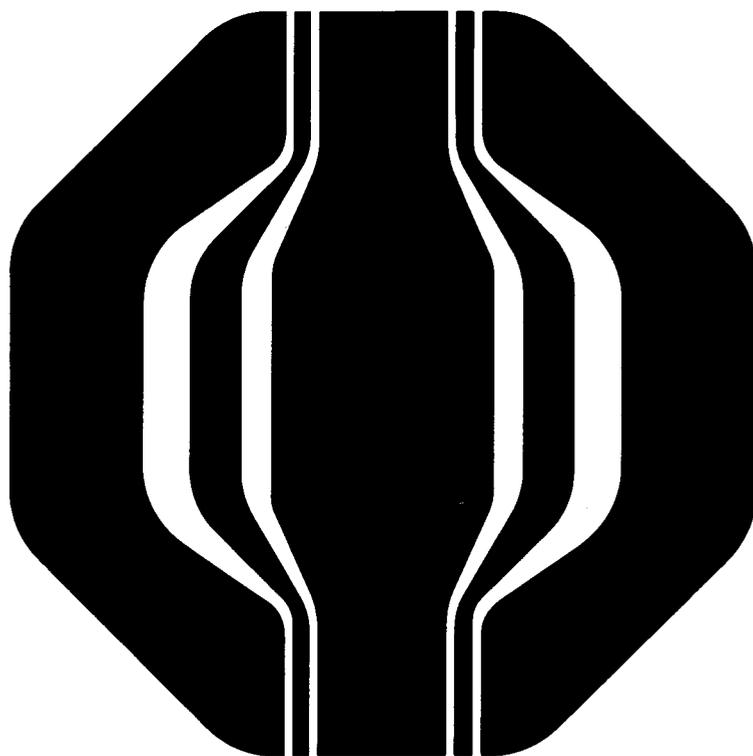
1 copy: Natural Gas Corporation of California, 85 South 200 East, Vernal, Utah  
84078

1 copy: Minerals Management Service, 2000 Administration Building, 1745 West  
1700 South, Salt Lake City, Utah 84104 Attn: E.W. Guynn

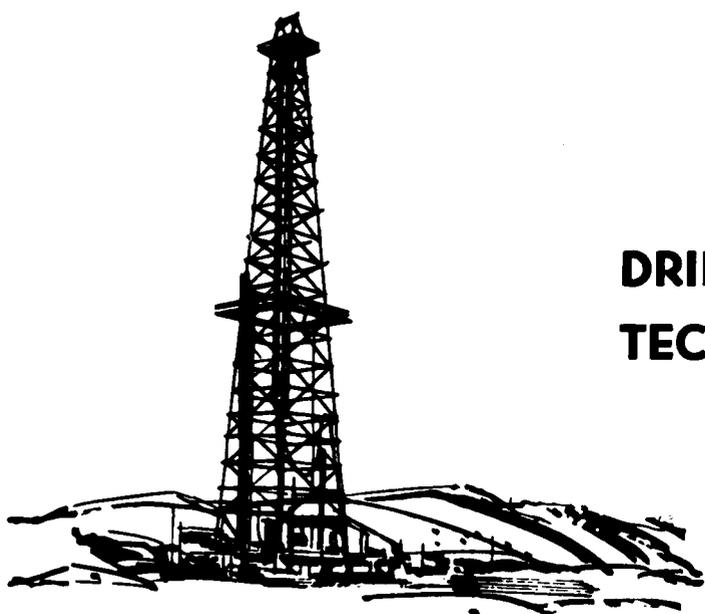
1 copy: Division of Oil, Gas, & Mining, 4241 State Office Building, Salt Lake City,  
Utah 84114

1 copy: Chorney Oil Company, 1860 Lincoln, Suite 401, Denver, Colorado 80295  
Attn: Sam Boltz

1 copy: Degolyer & MacNaughton, No. 1 Energy Square, Dallas, Texas 75206  
Attn: Bob Gilmore



**LYNES**



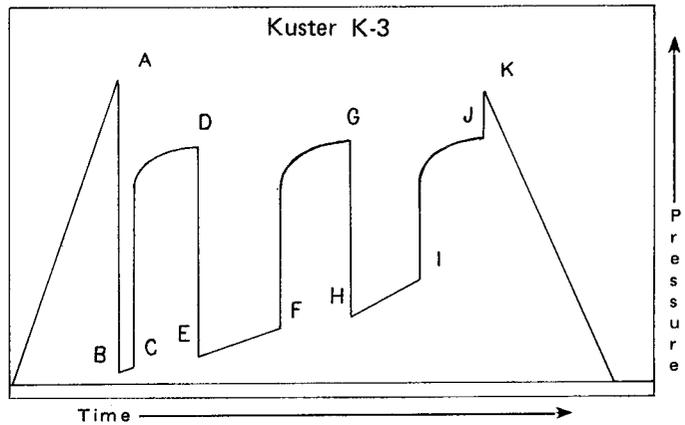
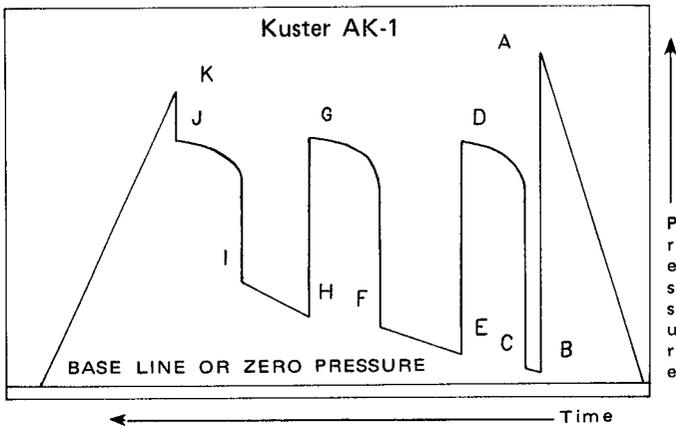
**DRILL STEM TEST  
TECHNICAL SERVICE REPORT**

## GUIDE TO INTERPRETATION AND IDENTIFICATION OF LYNES DRILL STEM TEST PRESSURE CHARTS

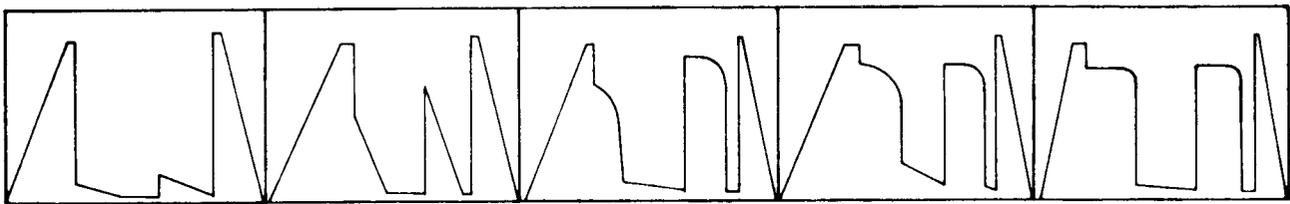
In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation made by any of our agents or employees.

AK-1 recorders. Read from right to left.

K-3 recorders. Read from left to right.



- A – Initial Hydrostatic
- B – First Initial Flow
- C – First Final Flow
- D – Initial Shut-in
- E – Second Initial Flow
- F – Second Final Flow
- G – Second Shut-in
- H – Third Initial Flow
- I – Third Final Flow
- J – Third Shut-in
- K – Final Hydrostatic



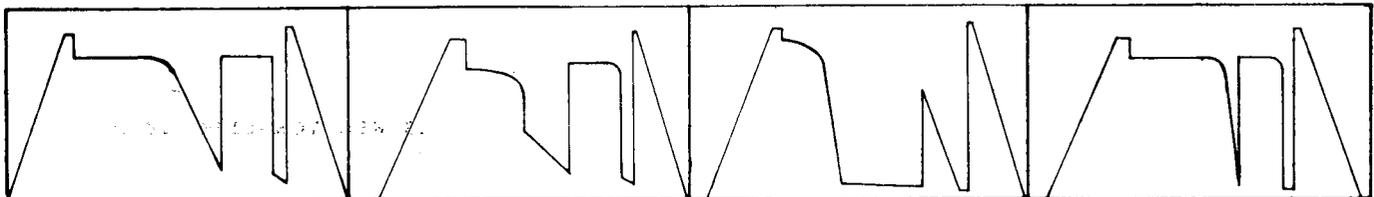
Very low permeability. Usually only mud recovered from interval tested. Virtually no permeability.

Slightly higher permeability. Again usually mud recovered.

Slightly higher permeability. Small recovery, less than 200 ft).

Average permeability. Final and initial shut-ins differ by 50 psi.

Average permeability. Strong damage effect. High shut-in pressure, low flow pressure.



Excellent permeability where final flow final shut-in pressure.

High permeability where ISIP and FSIP are within 10 psi.

Deep well bore invasion or damage. Final shut-in higher than the initial shut-in.

Tight hole chamber tester. Permeability very difficult to interpret unless the recovery is less than chamber length. Flow pressure builds up rapidly if recovery is large, similar to a shut-in.

Contractor Olsen Drilling Co.  
 Rig No. 2  
 Spot NW-NE  
 Sec. 30  
 Twp. 8 S  
 Rng. 22 E  
 Field Natural Buttes  
 County Uintah  
 State Utah  
 Elevation 4777' GL  
 Formation Wasatch

Top Choke 1/4"  
 Bottom Choke 9/16"  
 Size Hole 7 7/8"  
 Size Rat Hole --  
 Size & Wt. D. P. 4 1/2" 16.60  
 Size Wt. Pipe --  
 I. D. of D. C. 2 1/4"  
 Length of D. C. 661'  
 Total Depth 10,000'  
 Interval Tested 4748-4763'  
 Type of Test Inflate  
Straddle

Flow No. 1 15 Min.  
 Shut-in No. 1 30 Min.  
 Flow No. 2 40 Min.  
 Shut-in No. 2 180 Min.  
 Flow No. 3 -- Min.  
 Shut-in No. 3 -- Min.

Bottom  
 Hole Temp. 185° F  
 Mud Weight 9.8  
 Gravity --  
 Viscosity 63

Tool opened @ 12:12 p.m.

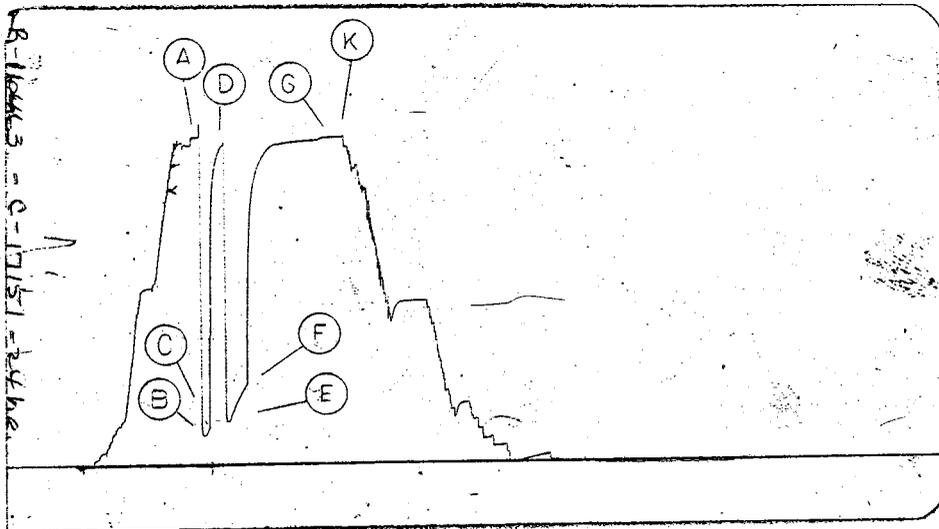
**Outside Recorder**

PRD Make Kuster K-3  
 No. 16463 Cap. 3450 @ 4753'

	Press	Corrected
Initial Hydrostatic	A	2441
Final Hydrostatic	K	2431
Initial Flow	B	216
Final Initial Flow	C	274
Initial Shut-in	D	2384
Second Initial Flow	E	320
Second Final Flow	F	601
Second Shut-in	G	2433
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--

EXTRAPOLATION FSI 2473  
 EXTRAPOLATION SSI 2486

Lynes Dist.: Rock Springs, WY  
 Our Tester: Stormy Hayes  
 Witnessed By: Red Brewbaker



Did Well Flow - Gas Yes Oil No Water No

RECOVERY IN PIPE: 2353' Heavy tar sand & crude oil = 23.00 bbl.

**Blow Description:**

1st Flow: Tool opened with a bottom of bucket blow in 10 seconds, increased to 2 psi. in 1 minute with gas to surface in 5 minutes. See Gas Volume Report.

2nd Flow: Tool opened with gas to surface. See Gas Volume Report.  
 At conclusion of Final Flow Cycle gas rate was 26.5 MCF/D rate.

**RECEIVED**

JUN 04 1982

DIVISION OF  
OIL, GAS & MINING

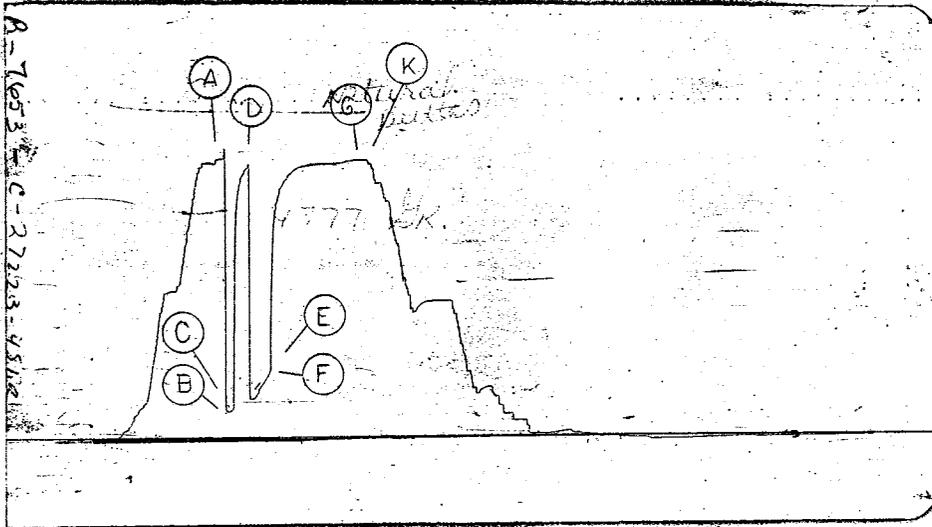
Operator Natural Gas Corp. of California  
 Well Name and No. Glen Bench #31-30  
 Address See Distribution  
 Ticket No. 27076  
 Date 5-24-82  
 No. Final Copies 9  
 DST No. 1

# LYNES, INC.

Natural Gas Corporation of California  
Operator

Glen Bench #31-30  
Well Name and No.

1  
DST No.



### Outside Recorder

PRD Make Kuster K-3  
No. 7653 Cap. 4000 @ 4753'

	Press	Corrected
Initial Hydrostatic	A	2411
Final Hydrostatic	K	2388
Initial Flow	B	233
Final Initial Flow	C	257
Initial Shut-in	D	2336
Second Initial Flow	E	341
Second Final Flow	F	586
Second Shut-in	G	2368
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--

Pressure Below Bottom Packer Bled To

PRD Make \_\_\_\_\_  
No. \_\_\_\_\_ Cap. \_\_\_\_\_ @ \_\_\_\_\_

	Press	Corrected
Initial Hydrostatic	A	
Final Hydrostatic	K	
Initial Flow	B	
Final Initial Flow	C	
Initial Shut-in	D	
Second Initial Flow	E	
Second Final Flow	F	
Second Shut-in	G	
Third Initial Flow	H	
Third Final Flow	I	
Third Shut-in	J	

Pressure Below Bottom Packer Bled To

WELL NAME: GLEN BENCH #31-30

DST NUMBER: 001

RECORDER NUMBER: 016463

INTERVAL TESTED: 4748FT TO 4763FT

RECORDER DEPTH: 4753.000FT

TOTAL FLOW TIME: 15.0MIN

FIRST SHUT IN PRESSURE (LIQUID)

TIME (MIN)	(T+PHI) PHI	PRESSURE (PSI)
.0	.0000	274.0
1.0	16.0000	818.0
2.0	8.5000	961.0
3.0	6.0000	1010.0
4.0	4.7500	1497.0
5.0	4.0000	1749.0
6.0	3.5000	1915.0
7.0	3.1429	1994.0
8.0	2.8750	2060.0
9.0	2.6667	2104.0
10.0	2.5000	2136.0
12.0	2.2500	2194.0
14.0	2.0714	2236.0
16.0	1.9375	2275.0
18.0	1.8333	2301.0
20.0	1.7500	2323.0
22.0	1.6818	2346.0
24.0	1.6250	2360.0
26.0	1.5769	2373.0 *
28.0	1.5357	2379.0 *
30.0	1.5000	2384.0 *

\* VALUES USED IN HORNER ANALYSIS

SLOPE: 506.77741 PSI/CYCLE

EXTRAPOLATED PRESSURE: 2473.3 PSI

WELL NAME: GLEN BENCH #31-30

DST NUMBER: 001

RECORDER NUMBER: 016463

INTERVAL TESTED: 4748FT TO 4763FT

RECORDER DEPTH: 4753.000FT

TOTAL FLOW TIME: 55.0MIN

SECOND SHUT IN PRESSURE (LIQUID)

TIME (MIN)	(T+PHI)	PRESSURE
PHI	/PHI	(PSI)
.0	.0000	601.0
1.0	56.0000	1111.0
2.0	28.5000	1317.0
3.0	19.3333	1415.0
4.0	14.7500	1585.0
5.0	12.0000	1672.0
6.0	10.1667	1772.0
7.0	8.8571	1856.0
8.0	7.8750	1900.0
9.0	7.1111	1952.0
10.0	6.5000	1978.0
12.0	5.5833	2043.0
14.0	4.9286	2086.0
16.0	4.4375	2120.0
18.0	4.0556	2147.0
20.0	3.7500	2176.0
22.0	3.5000	2205.0
24.0	3.2917	2223.0
26.0	3.1154	2240.0
28.0	2.9643	2253.0
30.0	2.8333	2268.0
40.0	2.3750	2327.0
50.0	2.1000	2366.0
60.0	1.9167	2381.0
70.0	1.7857	2385.0
80.0	1.6875	2391.0
90.0	1.6111	2395.0
100.0	1.5500	2400.0
110.0	1.5000	2402.0
120.0	1.4583	2404.0
130.0	1.4231	2407.0
140.0	1.3929	2410.0
150.0	1.3667	2424.0 *
160.0	1.3438	2428.0 *
170.0	1.3235	2431.0 *
180.0	1.3056	2433.0 *

\* VALUES USED IN HORNER ANALYSIS

EXTRAPOLATED PRESSURE: 2486.1 PSI

SLOPE: 455.42944 PSI/CYCLE

HORNER PLOT

TEST DATE: 05 24 82

WELL NAME: GLEN BENCH #31-30

LOCATION:

POST-NO: 001

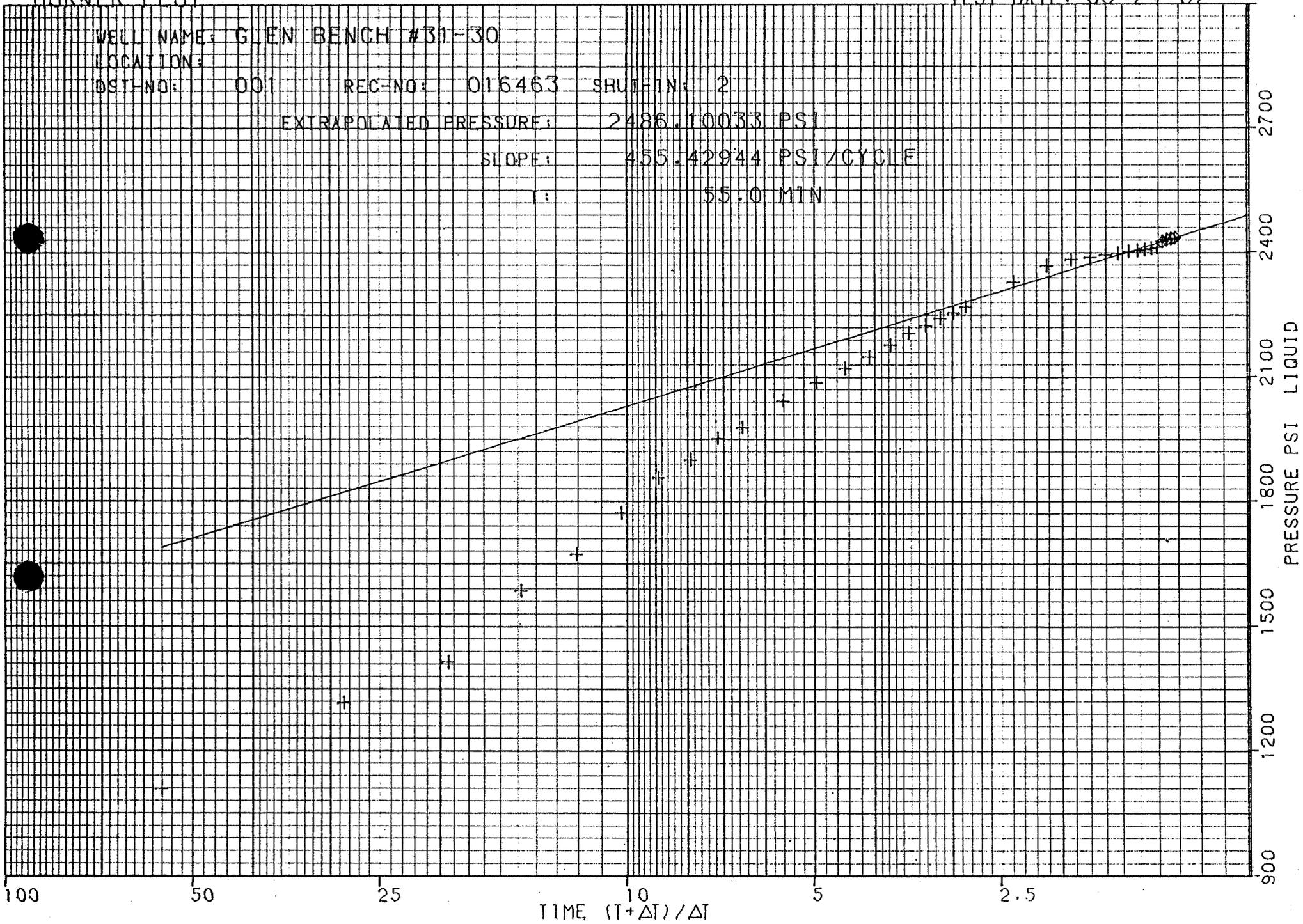
REC-NO: 016463

SHUT-IN: 2

EXTRAPOLATED PRESSURE: 2486.10033 PSI

SLOPE: 455.42944 PSI/CYCLE

t: 55.0 MIN



HORNER PLOT

TEST DATE: 05 24 82

WELL NAME: GLEN BENCH #31-30

LOCATION:

DST-NO: 001

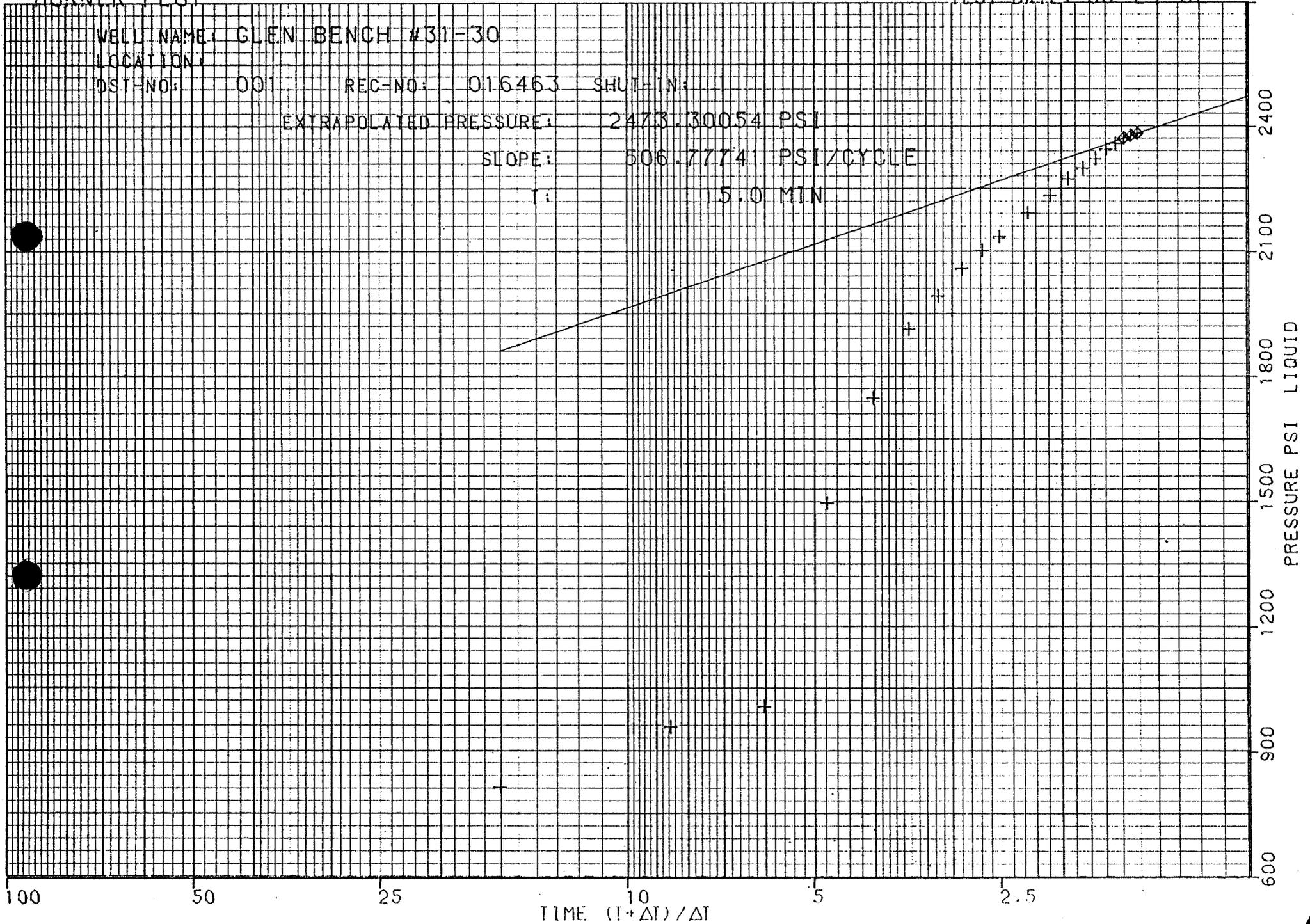
REC-NO: 016463

SHUT-IN:

EXTRAPOLATED PRESSURE: 2473.30054 PSI

SLOPE: 506.77741 PSI/CYCLE

t: 5.0 MIN





# LYNES, INC.

## Distribution of Final Reports

Natural Gas Corporation of California  
Operator

Glen Bench #31-30  
Well Name and No.

Original: Natural Gas Corporation of California, 7800 East Union Avenue, Suite 800 ,  
Denver, Colorado 80237 Attn: Operations Supt.

2 copies: Natural Gas Corporation of California, 7800 East Union Avenue, Suite 800,  
Denver, Colorado 80237 Attn: Dave McGinley

1 copy: Natural Gas Corporation of California, 7800 East Union Avenue, Suite 800,  
Denver, Colorado 80237 Attn: Rod Boschee

1 copy: Natural Gas Corporation of California, 85 South 200 East, Vernal, Utah  
84078

1 copy: Minerals Management Service, 2000 Administration Building, 1745 West  
1700 South, Salt Lake City, Utah 84104 Attn: E.W. Gynn

1 copy: Division of Oil, Gas, & Mining, 4241 State Office Building, Salt Lake City,  
Utah 84114

1 copy: Chorney Oil Company, 1860 Lincoln, Suite 401, Denver, Colorado 80295  
Attn: Sam Boltz

1 copy: Degolyer & MacNaughton, No. 1 Energy Square, Dallas, Texas 75206  
Attn: Bob Gilmore

# LYNES, INC.

## Sampler Report

Company Natural Gas Corporation of California Date 5-24-82  
Well Name & No. Glen Bench #31-30 Ticket No. 27076  
County Uintah State Utah  
Test Interval 4748-4763' DST No. 1

Total Volume of Sampler: 2000 cc.  
Total Volume of Sample: 1800 cc.  
Pressure in Sampler: 475 psig  
Oil: 1800 cc.  
Water: None cc.  
Mud: None cc.  
Gas: 2.3 cu. ft.  
Other: None

### Resistivity

Make Up Water R.W.: 10.00 @ 74° F Salinity Content 450 ppm.  
Mud Pit Sample R.W.: .08 @ 70° F Salinity Content 100,000 ppm.  
Gas/Oil Ratio 204/1 Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F

Where was sample drained On location

Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**NATURAL GAS CORPORATION  
OF CALIFORNIA**

85 South 200 East  
Vernal, Utah 84078  
(801) 789-4573

June 4, 1982

Mr. E. W. Guynn  
Minerals Management Service  
2000 Administration Bldg.  
1745 West 1700 South  
Salt Lake City, UT 84104

Mr. Sam Boltz, Jr.  
Chorney Oil Company  
1860 Lincoln, Suite 401  
Denver, CO 80295

✓ Division of Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, UT 84114

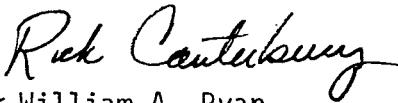
Mr. Bob Gilmore  
DeGolyer & MacNaughton  
No. 1 Energy Square  
Dallas, TX 75206

Re: NGC #31-30 Federal  
Section 30, T.8S., R.22E.  
Uintah County, Utah  
Glen Bench Unit

Gentlemen:

Attached are copies of Form 9-331, Sundry Notices and Reports on Wells, Request for Approval to Shoot or Acidize, the above captioned well.

Yours truly,

*for*   
William A. Ryan  
Petroleum Engineer

/kh

Attachment

cc: Operations  
C. T. Clark (Cover Letter Only)  
E. R. Henry  
S. Furtado

**RECEIVED**  
JUN 08 1982

DIVISION OF  
OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil well  gas well  other \_\_\_\_\_

2. NAME OF OPERATOR  
Natural Gas Corporation of California

3. ADDRESS OF OPERATOR  
85 South 200 East Vernal, UT 84078

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 238' FNL, 1802' FEL  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH: Section 30, T.8S., R.22E

5. LEASE  
U-9617

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Uintah and Ouray

7. UNIT AGREEMENT NAME  
Glen Bench

8. FARM OR LEASE NAME

9. WELL NO.  
#31-30

10. FIELD OR WILDCAT NAME  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 30, T.8S., R.22E.

12. COUNTY OR PARISH  
Uintah

13. STATE  
Utah

14. API NO.  
43-047-31008

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
4777 GR

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input checked="" type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other)			

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)\*

Operator proposes to move in completion equipment and perforate @ 4748' 53' with 16 shots and use a small acid breakdown.

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 6/4/82  
BY: [Signature]

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED Rich Canterbury TITLE Petroleum Engineer DATE June 4, 1982  
W. A. Ryan  
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

cc: MMS; Div. OG&M; DeGolyer; Chorney; Operations; ERHenry; SFurtado

**NATURAL GAS CORPORATION  
OF CALIFORNIA**

85 South 200 East  
Vernal, Utah 84078

July 29, 1982

Mr. E. W. Guynn  
Minerals Management Service  
2000 Administration Bldg.  
1745 West 1700 South  
Salt Lake City, UT 84104

Division of Oil, Gas & Mining  
4241 State Office Bldg.  
Salt Lake City, UT 84114

Mr. R. B. Edmundson  
P.O. Box 1707  
Denver, CO 80201

Mr. Sam Boltz, Jr.  
Chorney Oil Company  
1860 Lincoln, Suite 401  
Denver, CO 80295

Mr. Bob Gilmore  
DeGolyer & MacNaughton  
No. 1 Energy Square  
Dallas, TX 75206

Re: NGC #31-30 Federal  
Section 30, T.8S., R.22E.  
Uintah County, Utah  
Glen Bench Unit

Gentlemen:

Attached are copies of Form 9-330, ~~Well Completion~~ or Recompletion  
Report and Log, for the above referenced well.

Yours truly,

William A. Ryan  
Petroleum Engineer

/kh

Attachment

cc: Operations  
C. T. Clark  
E. R. Henry  
R. Boschee  
D. McGinley  
J. M. Kunz  
K. E. Reed  
I. Chai  
S. Furtado

**RECEIVED**  
AUG 03 1982

DIVISION OF  
OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

See other instructions on reverse side

Form approved.  
Budget Bureau No. 42-R355.5

2

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  
Natural Gas Corporation of California

3. ADDRESS OF OPERATOR  
85 South 200 East, Vernal, UT 84078

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 238' FNL, 1802' FEL, Sec. 30, T.8S., R.22E. (NW $\frac{1}{4}$  NE $\frac{1}{4}$ )  
At top prod. interval reported below  
At total depth

14. PERMIT NO. 43-047-31003 DATE ISSUED 3/20/82

5. LEASE DESIGNATION AND SERIAL NO.

U-9617

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Uintah & Ouray

7. UNIT AGREEMENT NAME

Glen Bench

8. FARM OR LEASE NAME

Federal

9. WELL NO.

NGC 31-30

10. FIELD AND POOL, OR WILDCAT

Undesignated

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

Section 30, T.8S., R.22E.

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

15. DATE SPUDDED 3-27-82 16. DATE T.D. REACHED 5-21-82 17. DATE COMPL. (Ready to prod.) 7-8-82 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 4777' 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 10,000 21. PLUG, BACK T.D., MD. & TVD 5115 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY 0-TD ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 4748-53 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN DIL w/GR, BHC Sonic w/GR and Galiper, "F" Log Overlay CNL/FDC w/GR 27. WAS WELL CORED No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"		80'		To surface	
9-5/8"	36#, K-55	2510'	12-1/4"	625 sx	
5-1/2"	17#, N-80	5115'	7-7/8"	535 sx	

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	5046'	

31. PERFORATION RECORD (Interval, size and number)			32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
INTERVAL	SIZE	NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4748'-53'	3 SPF	15 holes	4748-53	1000 gal 7 1/2% HCL

33.\* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)		
7-8-82		Pumping American 320				Producing		
DATE OF TEST	HOURS TESTED	CHOKES SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	
7-11-82	24		→	169	0	0		
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
0	200	→	169	0	0	38.0		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) No gas TEST WITNESSED BY Boyd Snow

35. LIST OF ATTACHMENTS  
Geological report to follow.

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

SIGNED William A. Ryan TITLE Petroleum Engineer DATE 7/28/82  
W. A. Ryan

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



# NATURAL GAS CORPORATION OF CALIFORNIA

DENVER CORPORATE CENTER - TOWER II  
7800 EAST UNION AVE. • SUITE 800  
DENVER, COLORADO 80237  
(303) 694-6076

August 6, 1982

Utah Oil and Gas Division  
4241 State Office Building  
Salt Lake City, Utah 84114

RE: 31-30 Glen Bench  
34-27 Glen Bench  
13-35-D Pleasant Valley

Dear Sirs or Madams:

Please keep the information of these wells ~~confidential~~  
as long as possible:

31-30 Glen Bench (Section 30, Township 8S, Range 22 East)  
34-27 Glen Bench (Section 27, Township 8S, Range 22 East)  
13-35-D Pleasant Valley (Section 35, Township 8S, Range 18 East)

Thank you,



John Fleming  
Lead Development Geologist

JF/wl

RECEIVED

AUG 09 1982

DIVISION OF  
OIL, GAS & MINING



**LEASE & WELL NO.**

K.B. - 16'  
G.L. - 4756'

Loc.  
Fld./Cty./St.

Glen Bench Federal #22-30

1667' FNL, 1599' FWL SE/NW

Sec 30-T8S-R22E

Uintah County, Utah

**WELLHEAD**

Csg. Head  
Tubing Head  
Tree

6" 3000# WP

Screwed adapter flange w/ball valve

**CONDUCTOR**

Cement

NONE

**SURFACE**

Size 9-5/8"

JTS.	WT.	GRADE	CPLG.	AMT. SET
8	36#	K-55	STC	306'

Cmt'd w/165 sx "G" + 2% CaCl2 + 1/4#/sk flocele to surface

Total Csg.  
K.B. Corr.  
Float Equip.  
Depth Set  
Cement

**PRODUCTION/ INTERMEDIATE**

Size 5-1/2"

JTS.	WT.	GRADE	CPLG.	AMT. SET
133	20#	N-80	LTC	5471'

Cmt'd thru shoe w/485 sx "H" + 2% gel + 18% salt +1% CFR-2 + 1/4#/sk flocele, thru DV w/190 sx Howcolite.

Total Csg.  
Float Equip.  
Misc. Equip.  
K.B. Corr.  
Depth Set  
Cement

Est. cement top @ 1835'

Centralizers @ 5449', 5374', 5258', 5141', 5021', 3552, 3471, 3351, 3232'

**LINER**

Size  
H.R. Hanger  
Misc. Equip.  
Float Equip.  
K.B. Corr.  
Depth Set  
Cement

JTS.	WT.	GRADE	CPLG.	AMT. SET
NONE				

**TUBING**

Size  
Subs  
Misc. Equip.  
Packer  
Pkr. Ext.  
Tbg. Anchor  
Perf. Sub.  
Mud Anchor  
K.B. Corr.  
Depth Set

JTS.	WT.	GRADE	CPLG.	AMT. SET
NONE				

NO TUBING IN THE HOLE

322' KB  
12-1/4" hole

3342' - 52'  
4 SPF

DV @ 3511'

4700'

CIBP  
4714' - 19'  
3 SPF

5487'

5500'

7-7/8" hole

1835'  
cmt xxx  
top xx  
x

Cored  
4700' - 4733'

P.B.T.D. - 4700' (CIBP)  
T.D. - 5500' Open Hole

**Schlumberger**

**CEMENT BOND LOG  
VARIABLE DENSITY**

COUNTY UINTAH  
Field or LOCATION GLEN BENCH  
WELL NGC #22-30 FED.  
COMPANY NATURAL GAS CORP.

COMPANY NATURAL GAS CORPORATION OF CALIFORNIA

WELL NGC #22-30 FEDERAL

FIELD GLEN BENCH

COUNTY UINTAH STATE UTAH

LOCATION N API Serial No. \_\_\_\_\_  
SE 1/4, NW 1/4,

Other Services:  
PERF.

Sec. 30 Twp. 8 S Rge. 22 E

Permanent Datum: GL, Elev. 4756  
Log Measured From KB 16 Ft. Above Perm. Datum  
Drilling Measured From KB

Elev.: K.B. 4772  
D.F. \_\_\_\_\_  
G.I. 4756

Date	<u>11-19-82</u>	Casing Fluid	<u>KCL WATER</u>
Run No.	<u>ONE</u>	Fluid Level	<u>FULL</u>
Depth - Driller	<u>5400</u>	Max. Rec. Temp.	<u>148 &amp; 146°F</u>
Depth - Logger	<u>5394</u>	Est. Cement Top	<u>1836</u>
Btm. Log Interval	<u>5386</u>	Unit	<u>8109</u>
Top Log Interval	<u>1600</u>	District	<u>VERNAL</u>
Open Hole Size	<u>7 7/8</u>	Recorded By	<u>ED MIXA</u>
		Witnessed By	<u>PETE HEDDLESTON</u>

CASING REC.	Size	Wt/Ft	Grade	Type Joint	Top	Bottom
Surface String						
Prot. String						
Prod. String	<u>5 1/2</u>	<u>20</u>			<u>SURF</u>	<u>5430</u>
Liner						

PRIMARY CEMENTING DATA				
STRING	Surface	Protection	Production	Liner
Vol. of cement			<u>N/A</u>	
Type of cement				
Additive				
Retarder				
Wt. of slurry				
Water loss				
Type fluid in csg.				
Fluid wt.				

FOLD HERE The well name, location and borehole reference data were furnished by the customer.

**REMARKS:**

Actual  Estimated Hour - Date

Started pumping cement

Release pressure

Start Cement Bond Log

Finish Cement Bond Log

Service Order Number 183932

Casing Collar Memory Distance 24 1/2 ft.

Radiation Log Memory Distance 20 1/2 ft.

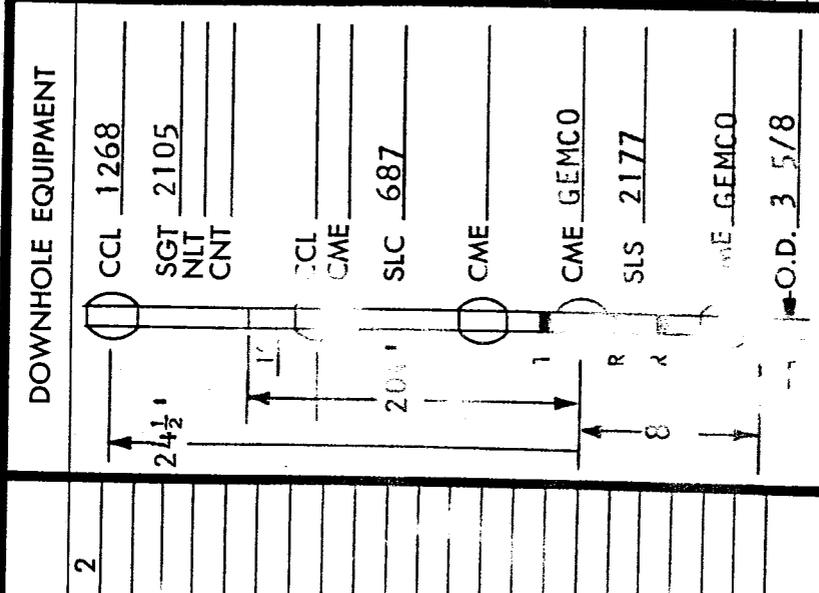
Preceding fluid \_\_\_\_\_ Volume \_\_\_\_\_ bbls.

Cement pumped \_\_\_\_\_ bbls./minute

Pipe reciprocated during Pumping: Yes \_\_\_\_\_ No \_\_\_\_\_

Pipe reciprocated after plug down: Yes \_\_\_\_\_ min, No \_\_\_\_\_

SQUEEZE JOB DETAIL	
Squeeze number	Hour - Date
<u>1</u>	<u>2</u>
Date	
Depth interval	
Type cement	
Volume of cement	
Additive	
Retarder	
Weight of slurry	
Preceding fluid	
Breakdown pressure	
Max. pressure-stage 1	
" " " 2	
" " " 3	
Final maximum pressure	
Started pumping cement	
Released pressure	
Start CBI	
Finish CBI	

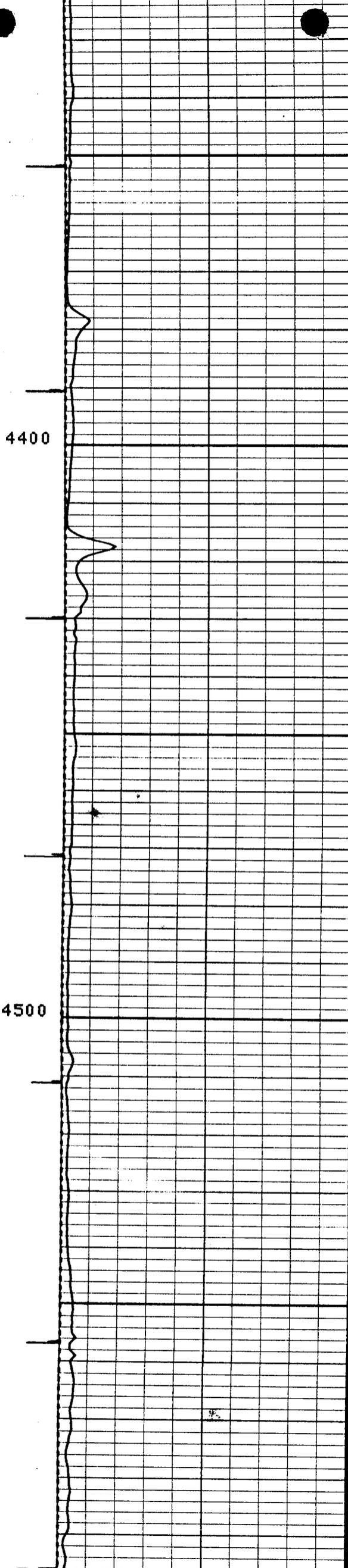
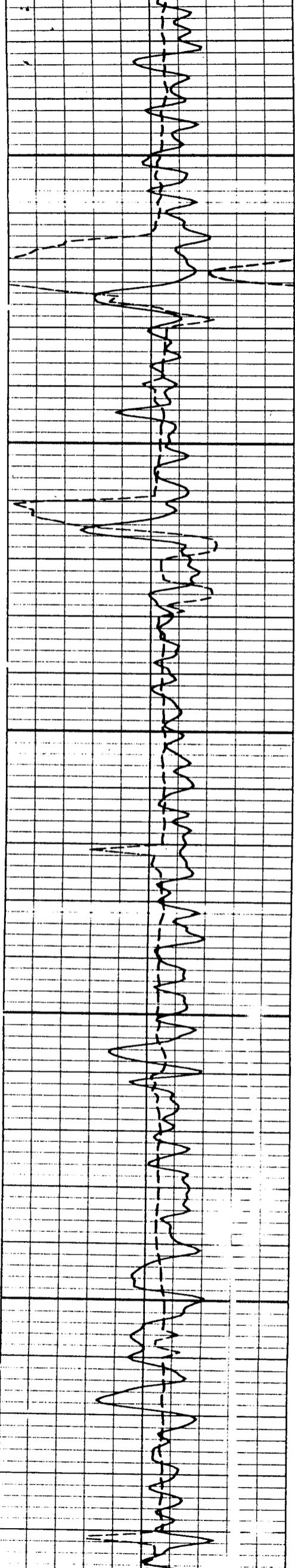


SURFACE EQUIPMENT	
TYPE	MOD.
Sonic Panel	SLM DA 1
Memorizer	GEU BAA 6
GNP	NLM BC 1
CRP	
OWE	
CPU	CBA 3
CRP Intensity	---
R9G Intensity	---
Logging Speed	4000
Time Constant	AUTO
Sweep Time $\mu$ -sec	1000
Amplitude mv/cm	
Casing Centralizer Pattern	
/Joint from	to
/Joint from	to
/Joint from	to
Casing Scratcher Pattern	
/Joint from	to
/Joint from	to
/Joint from	to

AVERAGE WELL DRIFT: \_\_\_\_\_ from \_\_\_\_\_ to \_\_\_\_\_ from \_\_\_\_\_ to \_\_\_\_\_

All interpretations are opinions based on inferences from electrical or other logs. Schlumberger is not responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our employees or agents or employees. These interpretations are also subject to our General Terms and Conditions as set out in our current Price Schedule.

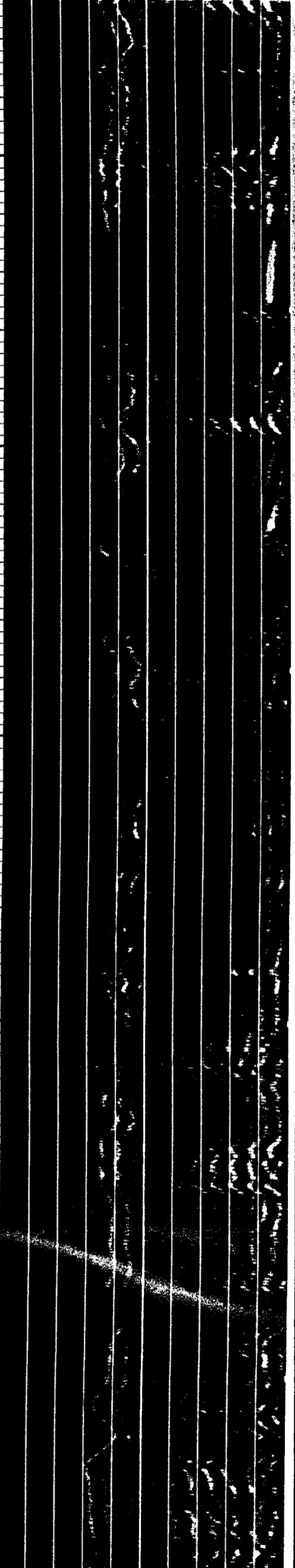
IT (US)	200.0
GR (GAPI)	150.0
TENS (LB)	0.0
CBL (MV)	100.0
VARIABLE DENSITY	200
	1200

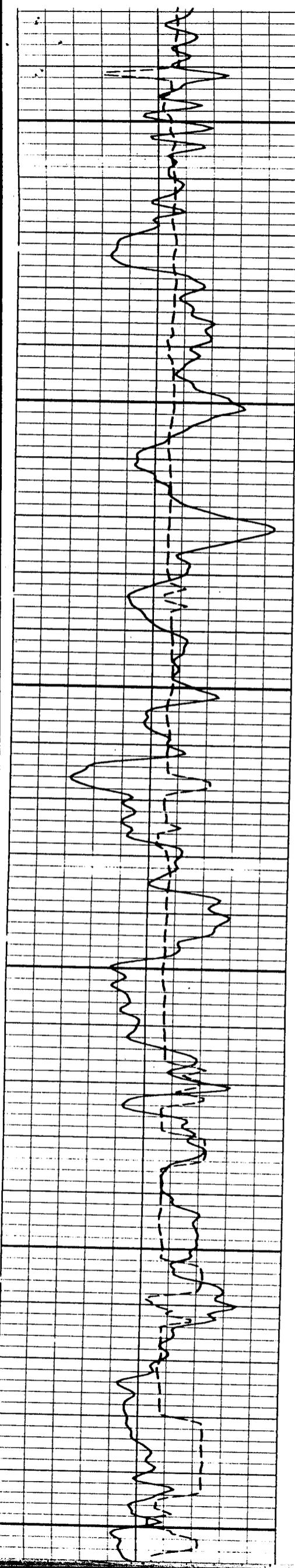


4400

4500

4600

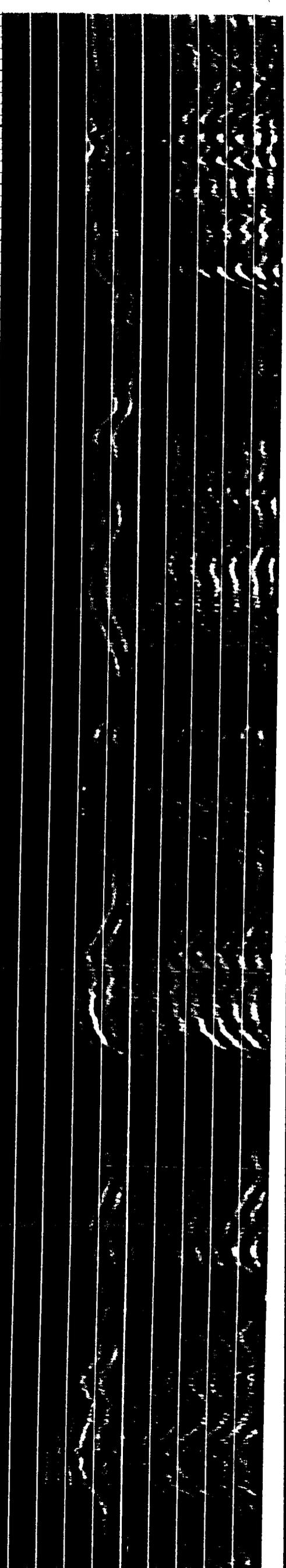
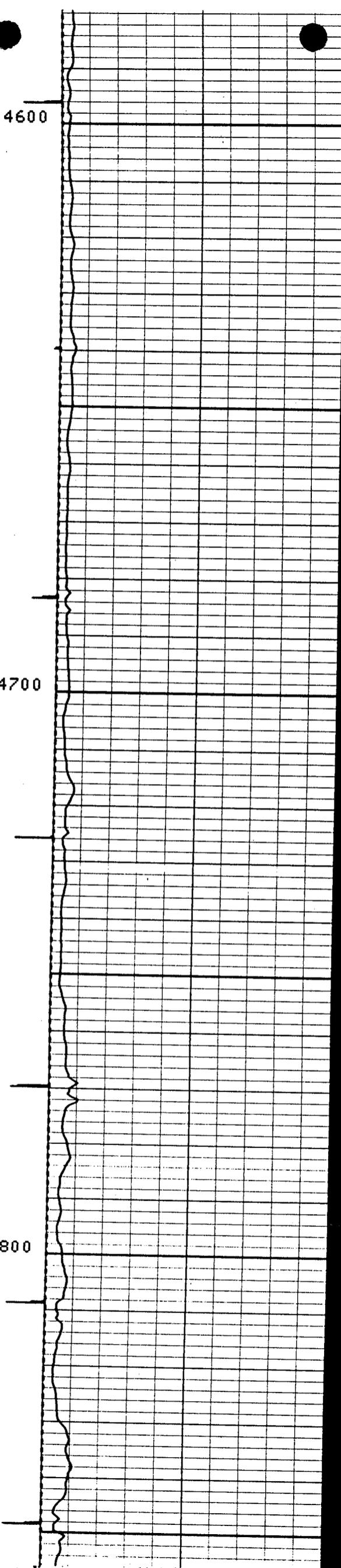


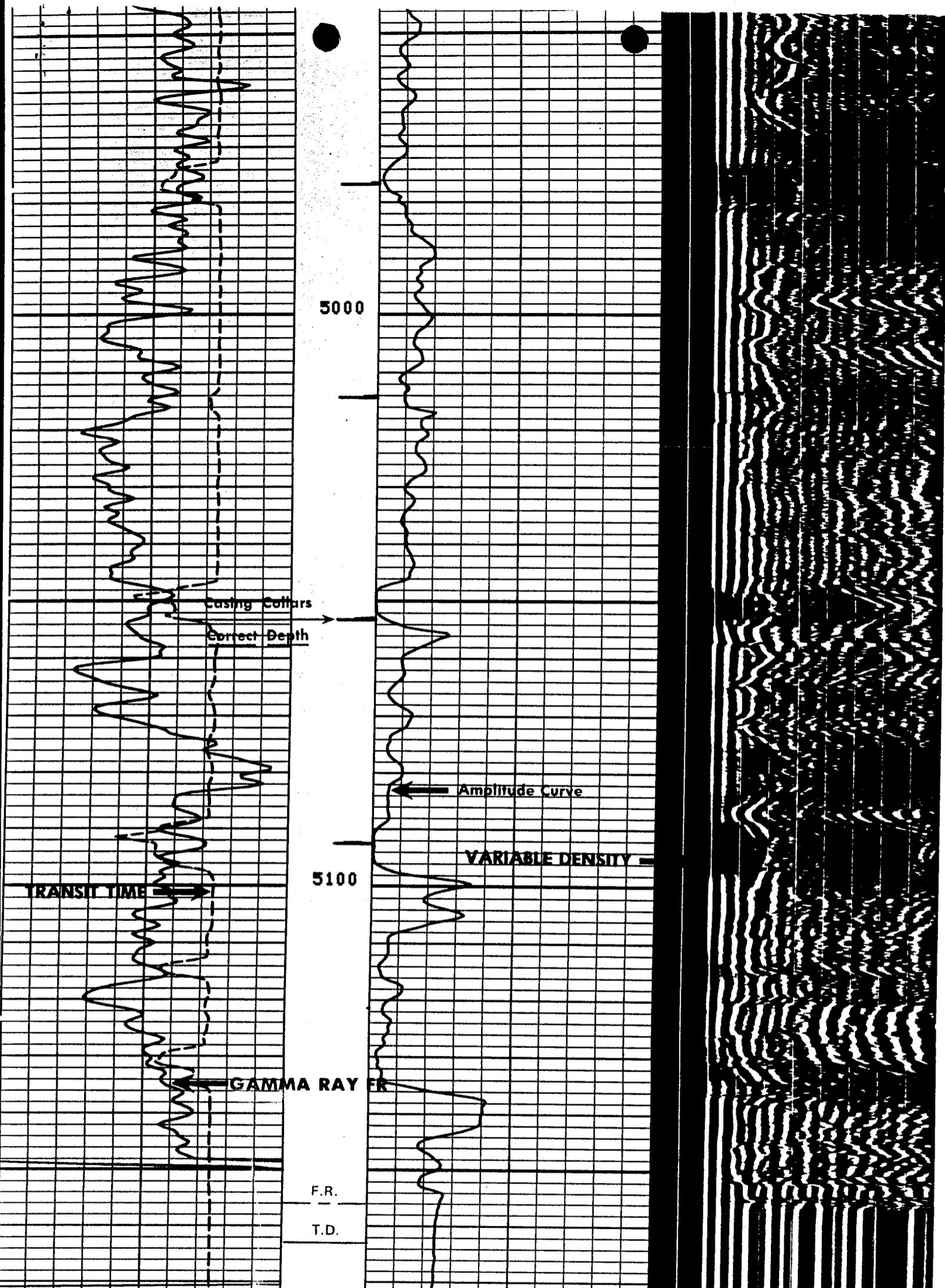


4600

4700

4800





FILE 4 RUN UNDER 3000 PSI

TT (US)	400.00	200.00		
GR (GAPI)	0.0	150.00	CBL (MV)	0.0 100.00 200.00
			VDL (US)	200.00 1200.0

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

AMPL	.0	FEET	DT	4.8	FEET
SRAT	4.8	FEET	CBL	.0	FEET
GR	20.8	FEET	TT	.0	FEET
CCI	21.1	FEET	TENC	.0	FEET

GENERAL INFO	Lease Name Federal		Well No 44-19		Field Glen Bench		Lse. No U-9617		
	Loc./Sect. 793' FEL + 830' FSL SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 19			Twp. 8S.		Rge. 22E.		County Uintah	
	AFE Nos. 85422			TYPE OF COMPLETION <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other			ELEVATION G.L. 4770'      16' K.B. 4786'		
	TOOLS		DATE COMMENCED	DATE COMPLETED	DEPTH FROM      TO		CONTRACT PRICE PER FOOT      DAY WORK W/D.P. \$      WO/D.P. \$		
	ROTARY		10-11-82	10-28-82	316'      5576'		Contractor Olsen #2		
COMPLETION		11-03-82	12-07-82	Surf.      5203'		Contractor			

CSG.-CMT. RECORD	HOLE		CASING				CEMENT			
	SIZE	DEPTH	SET AT	SIZE	WEIGHT	GRADE	COND	# SX	TYPE	CMT. TOP
	12-1/4"	316'	316'	8-5/8"	24#	K-55	New			Surface
	7-7/8"	5576'	5290'	5-1/2"	17#	N-80	New	600	300 50-50 Poz 1st stage	4480'
									300 65-35 light 2nd	2400'

CORES	INTERVAL	FORMATION	RECOVERY AND DESCRIPTION (Full analysis submitted separately)

DST	INTERVAL	FORMATION	TIME OPEN	RECOVERY & PRESSURE DATA (Full analysis submitted separately)

LOGGING	TYPE LOG	LOGGING COMPANY	INTERVAL LOGGED	REMARKS
	Dual Ind-Laterlog	Birdwell	2480'-5384'	
	Density-Neutron	Birdwell	2480'-5372'	
	Cement Bond	Schlumberger	2190'-5156'	run under 3000 psi; good bond

PERFS	PERFORATED INTERVALS 4738'-44'		TYPE GUN 4" casing gun		NO. SHOTS PER FOOT 3 SPF
	PERFORATING COMPANY Schlumberger				

BRIDGE PLUGS	SQUEEZE PERFS
--------------	---------------

INITIAL PRODUCTION	DATE FIRST PROD.	ZONE-PERFS.	BOPD	OIL GVTY.	BWPD	GAS MCFD	GOR	BHP
		11-30-82	4738'-44'	66 $\frac{1}{2}$	46.5 @ 60 <sup>o</sup>	49.9		
Flowing Pressure		Choke Size	Pumping	Shut in Pressure				
TUBING 0		CASING 80		TUBING      CASING				

EQUIPMENT	TUBING	PKR. TBG. ANCHOR	RODS	SUB SURF. PUMP	PUMPING UNIT	PRIME MOVER	DRILLING DATA
	SIZE 2-7/8" NO. JOINTS 149 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Mud Anchor-Etc.	TYPE 6.5# DEPTH 4853.28'	GRADE J-55, EUE S.N. DEPTH	SIZE 3/4" x 25' NO. 47 SIZE 7/8" x 25' NO. 69 SIZE 3/4" x 25' NO. 71	MAKE Axelson SIZE 2 $\frac{1}{2}$ x1 $\frac{1}{2}$ TYPE RWAC	MAKE American SIZE 320	

PARTNERS	CO.	W.I.	CO.	W.I.	COMPLETION DATA
	NGC	66.67%			

**LEASE & WELL NO.**

Glen Bench #44-19 Federal

K.B. - 4786'  
G.L. - 4770'

Loc.  
Fld./Ctry./St.

SE $\frac{1}{4}$  SE $\frac{1}{4}$  Section 19, T.8S., R.22E.  
Uintah County, Utah

**WELLHEAD**

Csg. Head  
Tubing Head  
Tree

8-5/8" (316' GR)

**CONDUCTOR**

Cement

**SURFACE**

Size 8-5/8"

JTS.	WT.	GRADE	CPLG.	AMT. SET
8				316' GR

Total Csg.  
K.B. Corr.  
Float Equip.  
Depth Set  
Cement

316' GR

**PRODUCTION/ INTERMEDIATE**

Size 5-1/2"

JTS.	WT.	GRADE	CPLG.	AMT. SET
134	17#	N-80	LTC	

Total Csg.  
Float Equip.  
Misc. Equip.  
K.B. Corr.  
Depth Set  
Cement

5293  
5207 Halliburton Super Seal  
D.V. @ 3358'  
5290'  
1st stage 300 sxs. 25% returns. 2nd stage

**LINER**

Size  
P.B.R. Hanger  
Misc. Equip.  
Float Equip.  
K.B. Corr.  
Depth Set  
Cement

JTS.	WT.	GRADE	CPLG.	AMT. SET

Perf 4738' - 44' (19 shots)

4853 tbg.

Float @ 5207'

Shoe @ 5290'

**TUBING**

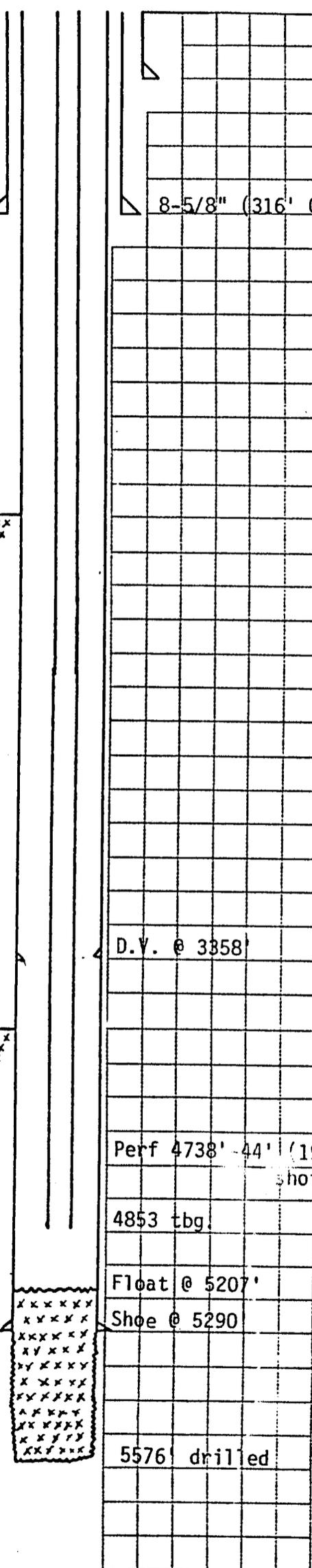
Size 2-7/8"  
Subs  
Misc. Equip.  
Packer  
Pkr. Ext.  
Tbg. Anchor  
Perf. Sub.  
Mud Anchor  
K.B. Corr.  
Depth Set

JTS.	WT.	GRADE	CPLG.	AMT. SET
149	6.5#	J-55	EUE	4834.2
				notched collar
				SN 1.08
				1 Baker 45A Model B-2 2.76
				14.00
				4853.28

P.B.T.D. - 5203'  
T.D. - 5576'

ement top  
2400'

ement top  
4480'



COUNTY UINTAH  
Field or LOCATION GLEN BENCH  
WELL GLEN BENCH FED. #44-19  
COMPANY NATURAL GAS CORP.

COMPANY NATURAL GAS CORP. OF CALIF.

WELL GLEN BENCH FEDERAL #44-19

FIELD GLEN BENCH

COUNTY UINTAH STATE UTAH

LOCATION N SE/SE API Serial No. \_\_\_\_\_ Other Services: PERF.

Sec. 19 Twp. 8 S Rge. 22 E

Permanent Datum: GL, Elev. 4770 Elev.: K.B. 4786

Log Measured From KB, 16 Ft. Above Perm. Datum D.F. \_\_\_\_\_

Drilling Measured From KB G.L. 4770

Date	NOV. 5, 1982	Casing Fluid	KCL WATER
Run No.	ONE	Fluid Level	FULL
Depth - Driller	5180	Max. Rec. Temp.	144 °F
Depth - Logger	5163	Est. Cement Top	4470 & 2398
Btm. Log Interval	5156	Unit	8152
Top Log Interval	2190	District	VERNAL
Casing Hole Size	7 7/8	Recorded By	DAVE SHELTON
		Witnessed By	PETE HEDDLESON

CASING REC.	Size	Wt/Ft	Grade	Type Joint	Top	Bottom
Surface String	8 5/8	24	K55		SURF	316
Prot. String						
Prod. String	5 1/2	17	N80		SURF	5292
Liner						

PRIMARY CEMENTING DATA				
STRING	Surface	Protection	Production	Liner
Vol. of cement			300 SACK	300 SACK
Type of cement			50-50 POZ	65-35 LIGHT
Additive			1 ST STAGE	2 ND STAGE

Retarder	
Wt. of slurry	
Water loss	
Type fluid in csg.	
Fluid wt.	

FOLD HERE The well name, location and borehole reference data were furnished by the customer.

REMARKS: 2ND STAGE CEMENT JOB. RAN MAIN LOG UNDER 3000 P PRESSURE. REPEAT RAN WITH NO PRESSURE. NO OPEN HOLE LOG WELL SITE TO TIE INTO. USED TOOLS OFF TRUCK 8109 AFTER HAD COMPUTER FAILURE WHILE LOGGING.

Service Order Number 188272

Casing Collar Memory Distance 25 1/2 ft.

Radiation Log Memory Distance 21 ft.

PRIMARY CEMENTING DATA	
Hour - Date	Volume
Started pumping cement	bbls./minute
Release pressure	
Start Cement Bond Log	1500
Finish Cement Bond Log	1700

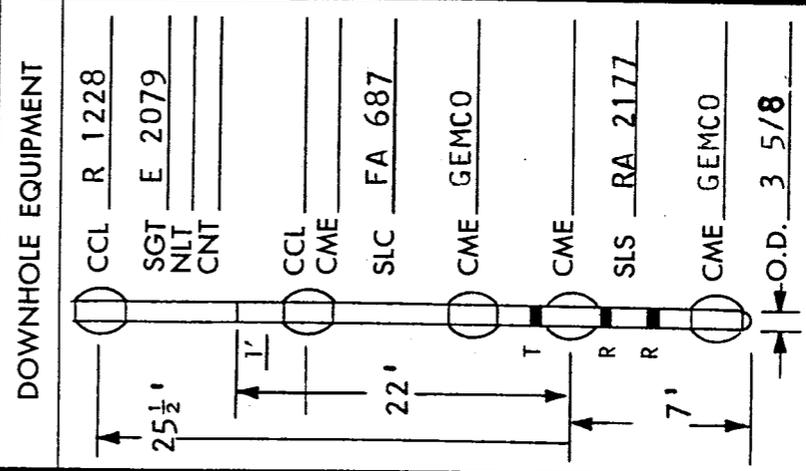
Preceding fluid \_\_\_\_\_ bbls.

Cement pumped \_\_\_\_\_ bbls./minute

Pipe reciprocated during Pumping: Yes \_\_\_\_\_ No \_\_\_\_\_

Pipe reciprocated after plug down: Yes \_\_\_\_\_ No \_\_\_\_\_

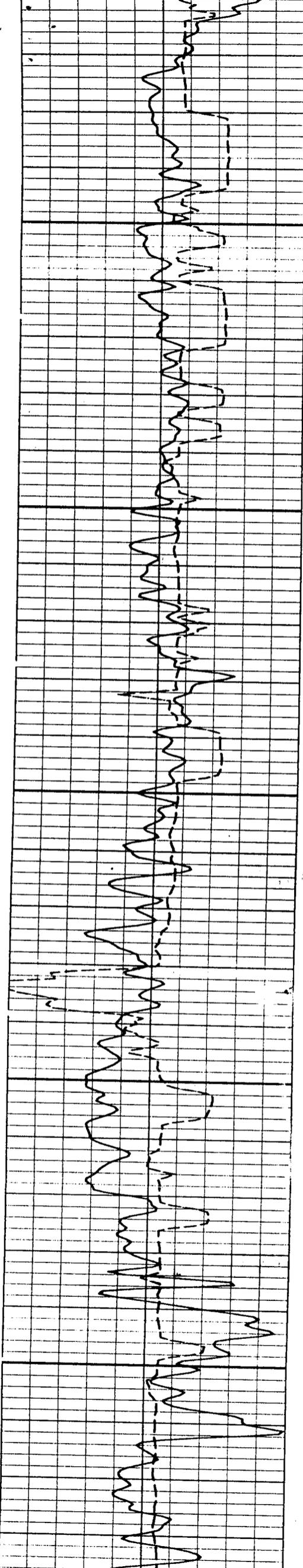
SQUEEZE JOB DETAIL	
Squeeze number	Hour - Date
1	2
Date	
Depth interval	
Type cement	
Volume of cement	
Additive	
Retarder	
Weight of slurry	
Preceding fluid	
Breakdown pressure	
Max. pressure-stage 1	
" " 2	
" " 3	
Final maximum pressure	
Started pumping cement	
Released pressure	
Start CBL	
Finish CBL	
AVERAGE WELL DRIFT: _____ from _____ to _____ from _____ to _____	



SURFACE EQUIPMENT	
TYPE	MOD.
Sonic Panel	SLM DA
Memorizer	CPU CBC
GNP	NLM BC
CRP	OEU EAA
OWE	
CRP Intensity	
R9G Intensity	
Logging Speed	75 FT//
Time Constant	
Sweep Time	μ-sec
Amplitude	mv/cm
Casing Centralizer Pattern	
/Joint from	to
/Joint from	to
/Joint from	to
Casing Scratcher Pattern	
/Joint from	to
/Joint from	to
/Joint from	to

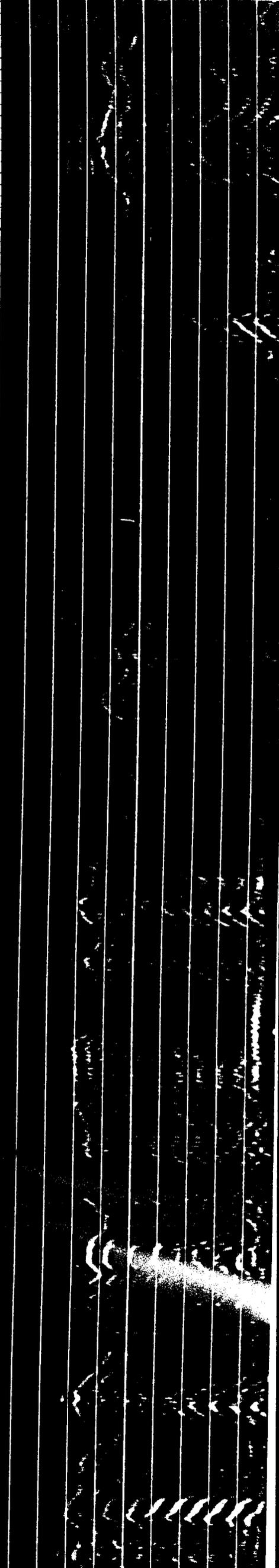
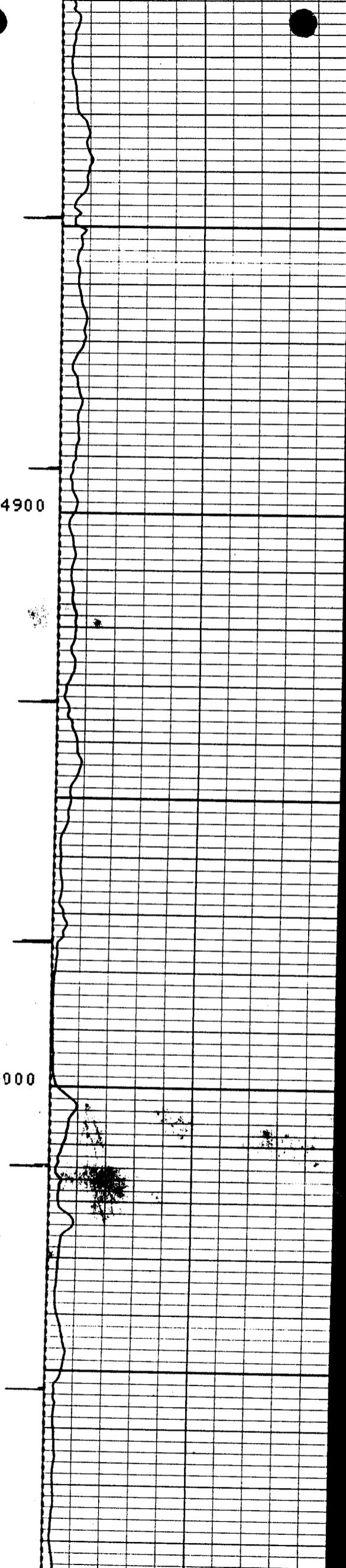
All interpretations are opinions based on inferences from electrical or other measurements. We shall not be liable for any errors or omissions in this log, or for any damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions as set out in our current Price Schedule.

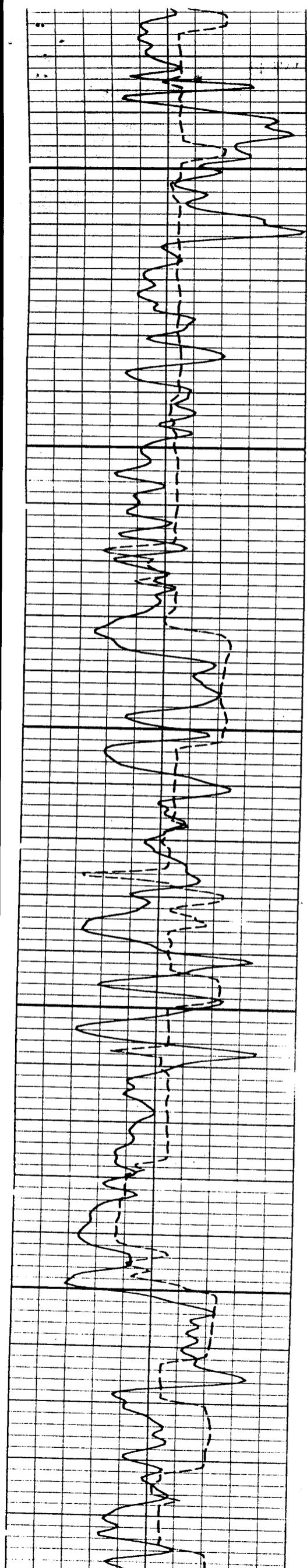
IT (SUS) 2	200.00
GR (GAPI)	150.00
CBL (MY)	100.00
YDL (SUS)	1200.00



4900

5000





5100

.00

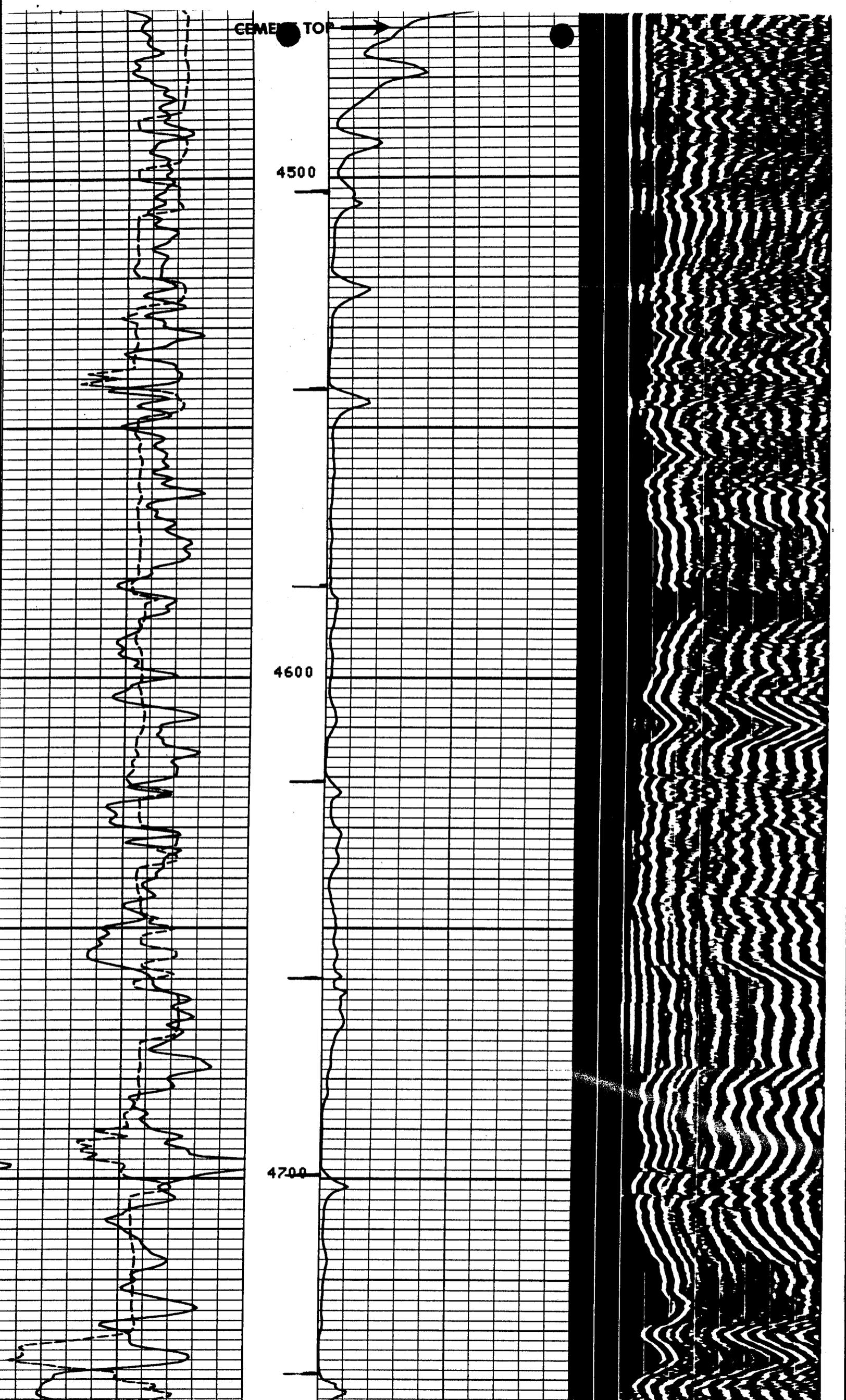


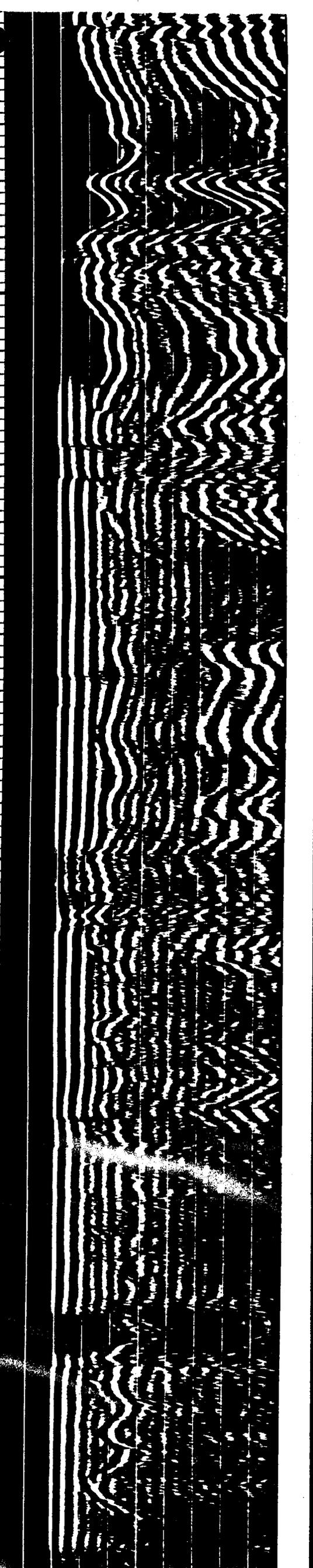
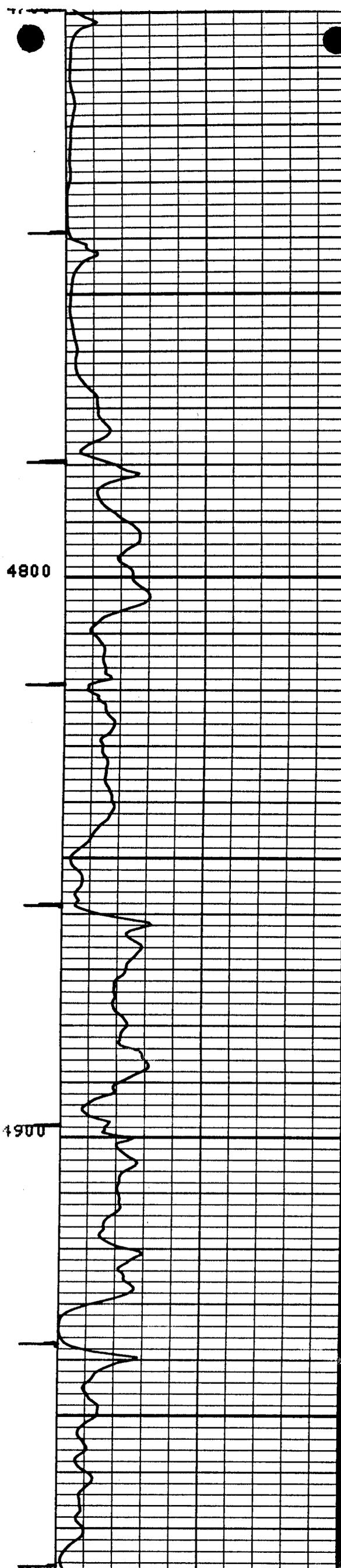
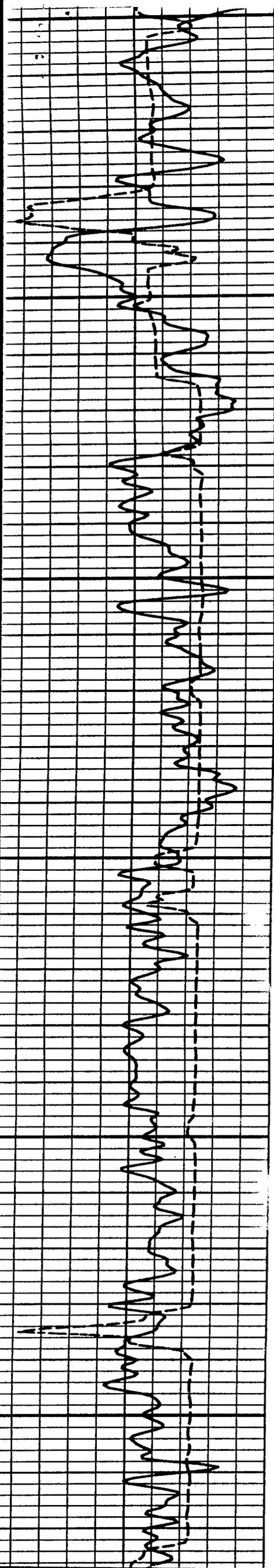
GEMETOP →

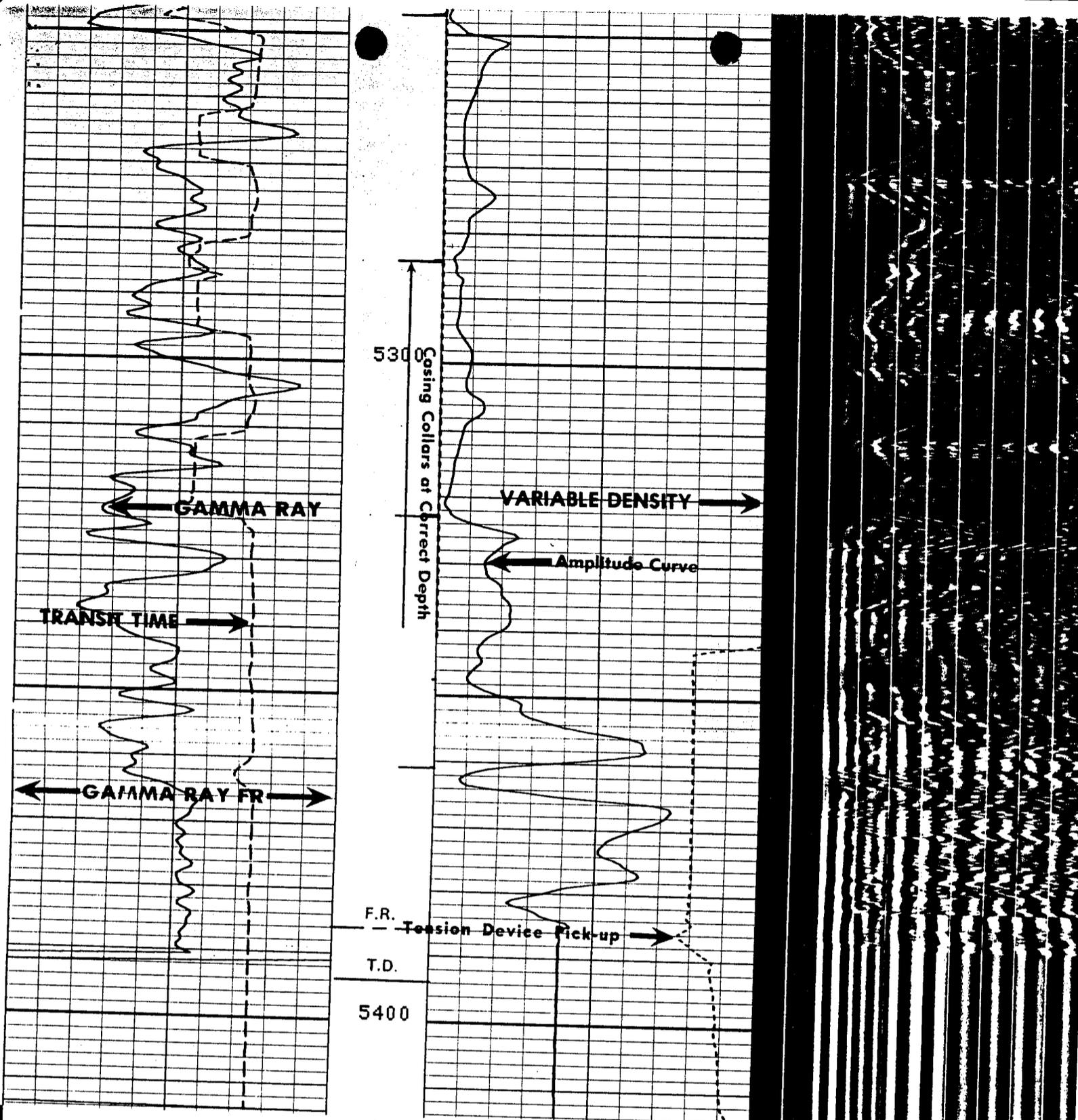
4500

4600

4700







FILE 6 RUN UNDER 2500 PSI

TT (US )	400.0	200.0	TENS(LB )	5000.	0.0	VARIABLE DENSITY
GR (GAPI)	0.0	150.0	CBL (MV )	0.0	100.0	

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

AMPL	2.0	FEET	VDL	4.8	FEET
SRAT	4.8	FEET	CBL	.0	FEET
GR	20.8	FEET	TT	.0	FEET
CCL	24.4	FEET	TENS	.0	FEET
NOIS	-1.0	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
CWEI	20.00	LB/F	BS	7.875	IN
CDTS	100.0		CSTR	2300.	PSI
DTF	189.0	US/F	DTM	56.00	US/F
BHS	CASE		CSIZ	5.500	IN
DD	0.0				

Natural Gas  
Corporation of  
California

June 6, 1983

Mr. E. W. Guynn  
BLM-Oil and Gas Operations  
1745 West 1700 South, Suite 2000  
Salt Lake City, UT 84104

Mr. Sam Boltz, Jr.  
Chorney Oil Company  
1860 Lincoln, Suite 401  
Denver, CO 80295

Division of Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, UT 84114

Mr. Bob Gilmore  
DeGolyer & MacNaughton  
No. 1 Energy Square  
Dallas, TX 75206

Re: NGC #31-30 Federal  
Section 30, T.8S., R.22E.  
Uintah County, Utah  
Glen Bench Unit

Gentlemen:

Attached are copies of Form 9-331, Sundry Notices and Reports on Wells,  
Request of Confidential Status, for the subject well.

Sincerely,

*Rick Canterbury*

Rick Canterbury  
Associate Engineer

/kh

Attachment

cc: Operations  
C. T. Clark  
E. R. Henry  
S. Furtado  
D. McGinley

*6-9-83  
This well location  
has been held for 9 months  
and is not eligible to be  
put back on the Confidential List*

JUN 06 1983

DIVISION OF  
OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR  
Natural Gas Corporation of California

3. ADDRESS OF OPERATOR  
85 South 200 East, Vernal, UT 84078

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 238' FNL, 1802' FEL (NW $\frac{1}{4}$  NE $\frac{1}{4}$ )  
AT TOP PROD. INTERVAL: Sec. 30, T.8S., R.22E.  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other)	<u>Request Confidential Status</u>		

5. LEASE  
U-9617

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Uintah and Ouray

7. UNIT AGREEMENT NAME  
Glen Bench

8. FARM OR LEASE NAME  
Federal

9. WELL NO.  
NGC Well #31-30

10. FIELD OR WILDCAT NAME  
Undesignated.

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 30, T.8S., R.22E.

12. COUNTY OR PARISH  
Uintah

13. STATE  
Utah

14. API NO.  
43-047-31003

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
4777'

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)\*

Operator requests that all information concerning the subject well be held confidential.

RECEIVED  
JUN 06 1983

DIVISION OF  
OIL, GAS & MINING

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED Rick Canterbury TITLE Associate Engr. DATE 6/6/83

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

cc: BLM; Div. OG&M; Chorney; DeGolyer; Operations; CTClark; ERHenry; SFurtado  
DMcGinley

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIP  
(Other instruction  
verse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

**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 checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-9617
2. NAME OF OPERATOR Natural Gas Corporation of California		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Uintah & Ouray
3. ADDRESS OF OPERATOR 85 South 200 East, Vernal, UT 84078		7. UNIT AGREEMENT NAME Glen Bench
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  238' FNL 1802' FEL NW¼ NE¼ Section 30, T.8S., R.22E.		8. FARM OR LEASE NAME Federal
14. PERMIT NO. 43-047-3100		9. WELL NO. NGC 31-30
15. ELEVATIONS (Show whether DF, RT, CR, etc.) 4777		10. FIELD AND POOL, OR WILDCAT Glen Bench
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 30, T.8S., R.22E.
		12. COUNTY OR PARISH Uintah
		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) Request Temporary Surface Pit <input checked="" 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.)\*

Operator requests an unlined surface pit per NTL-2B, Sec. VI. The subject pit would be used as a blow down pit when the well is flow tested.

If you require additional information, please contact me at our Vernal office - telephone 789-4573.

**RECEIVED**  
NOV 23 1984  
DIVISION OF  
OIL, GAS & MINING

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

SIGNED William A. Ryan TITLE Petroleum Engineer DATE November 15, 1984

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

Federal approval of this action is required before commencing operations.

\*See Instructions on Reverse Side

**ACCEPTED**  
**APPROVED BY THE STATE**  
**OF UTAH DIVISION OF**  
**OIL, GAS, AND MINING**  
DATE: 12/20/84  
BY: John R. Gays

January 9, 1985

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

SUBJECT: Request for NTL-2B Approval  
31-30 Glen Bench  
Section 30, T8S, R22E  
Lease # U-9617

Gentlemen:

Natural Gas Corporation of California requests approval to dispose of produced fluids from the above subject well into an unlined pit located on the well pad. This well qualifies under Section IV, part 4 of NTL-2B. The following information is being supplied pursuant to exception #4:

a) This well produces an average of 1.5 barrels water per day. This water is produced from the Greenriver formation. A copy of the water analysis is attached. A five day average production is as follows:

12-9-84	0 BW
12-10-84	0 BW
12-11-84	0 BW
12-12-84	7.49 BW
12-13-84	0 BW

- b) A topographical map showing the wells' location and a facility diagram are attached.
- c) The evaporation rate for this area, compensated for annual rainfall, is about 40"+ per year.
- d) The estimated percolation rate, based on soil characteristics, is .2" to .6" per hour.
- e) There are no known useable water aquifers above 500' in the area.

Should you have any questions regarding this application, please contact me at the number shown below.

Very truly yours,  
*Kathy Krutson*  
Kathy Krutson  
Technical Assistant

85 South 200 East  
Vernal, Utah 84078  
(801) 789-4573

cc: Division of Oil, Gas & Mining



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

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

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

April 2, 1985

Natural Gas Corporation of California  
85 South 200 East  
Vernal, Utah 84078

Gentlemen:

RE: Review of Submitted Production and Disposition Information.

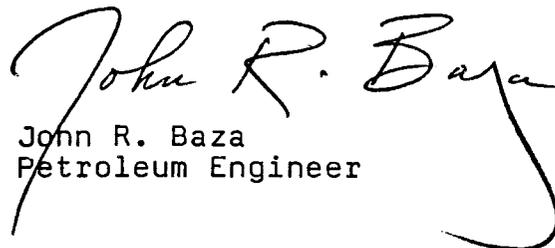
The Division staff has recently reviewed production and disposition reports submitted on several wells within Uintah County under your operatorship. The subject wells are listed on the enclosed tables, a comparison of submitted production and disposition reports on the subject wells indicate that the wells produced exactly the amount of gas used on lease each month through the year 1984. The Division staff has reasonable concern that the submitted production information is inaccurate and that proper measurements of gas production are not currently being performed.

It is requested that Natural Gas Corporation perform production tests of all the wells listed on the attached reports and that information be supplied which validates the production reported for the year 1984. The General Rules and Regulations of the Board of Oil, Gas and Mining require that measurement of all oil and gas produced from a well be performed and that such measurements be submitted in writing to the Division. Any additional information you could provide which would confirm your compliance with these Rules and Regulations would be greatly appreciated.

Your prompt consideration of this matter is appreciated. Please contact this office if you have additional questions.

Well No. Glen Bench # 31-30  
Sec. 30, T. 85 R. 22E  
Uintah County, Utah

Sincerely,

  
John R. Baza  
Petroleum Engineer

Enclosures  
cc: R.J. Firth  
Well File  
0090T-65

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  GAS WELL  OTHER

2. NAME OF OPERATOR  
Natural Gas Corporation of California

3. ADDRESS OF OPERATOR  
85 South 200 East, Vernal Utah 84078

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface  
238' FNL, 1802' FEL Section 30, T.8S., R.22E.

14. PERMIT NO. 43-047-31008

15. ELEVATIONS (Show whether OF, RT, OR, etc.)  
4777'

5. LEASE DESIGNATION AND SERIAL NO.  
U-9617

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Uintah & Ouray

7. UNIT AGREEMENT NAME  
Glen Bench

8. FARM OR LEASE NAME  
Federal

9. WELL NO.  
31-30

10. FIELD AND POOL, OR WILDCAT  
Glen Bench

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 30, T.8S., R.22E.

12. COUNTY OR PARISH  
Uintah

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.)\*

Natural Gas Corporation of California reports the subject well vented approximately 51 MCFD for the month of Nov.

RECEIVED  
DEC 15 1986

DIVISION OF  
OIL, GAS & MINING

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

SIGNED William A. Ryan TITLE Petroleum Engineer DATE \_\_\_\_\_

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:



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

5. LEASE DESIGNATION AND SERIAL NO.	U-9617
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	Uintah & Ouray
7. UNIT AGREEMENT NAME	Glen Bench
8. FARM OR LEASE NAME	Federal
9. WELL NO.	31-30
10. FIELD AND POOL, OR WILDCAT	Glen Bench
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	Sec. 30, T.8S., R.22E.
12. COUNTY OR PARISH	Uintah
13. STATE	Utah

**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  GAS WELL  OTHER

2. NAME OF OPERATOR  
Natural Gas Corporation of California

3. ADDRESS OF OPERATOR  
85 South 200 East, Vernal Utah 84078

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface  
238' FNL, 1802' FEL Section 30, T.8S., R.22E.

14. PERMIT NO.  
43-047-31008

15. ELEVATIONS (Show whether DF, RT, OR, etc.)  
4777'

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	<input type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	<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.)\*

Natural Gas Corporation of California reports the subject well vented approximately 40 MCFD for the month of Dec.

RECEIVED  
JAN 08 1987

DIVISION OF  
OIL, GAS & MINING

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

SIGNED William A. Ryan TITLE Petroleum Engineer DATE 1/6/87

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

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

PRINT IN TRIPLICATE\*  
(See instructions on reverse side)

031306

**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 checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		3. LEASE DESIGNATION AND SERIAL NO. U-9617
2. NAME OF OPERATOR Natural Gas Corporation of California		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Uintah & Ouray
3. ADDRESS OF OPERATOR 85 South 200 East, Vernal Utah 84078		7. UNIT AGREEMENT NAME Glen Bench
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 238' FNL, 1802' FEL Section 30, T.8S., R.22E.		8. FARM OR LEASE NAME Federal
14. PERMIT NO. 43-047-31008	15. ELEVATIONS (Show whether DF, RT, CR, etc.) 4777'	9. WELL NO. 31-30
		10. FIELD AND POOL, OR WILDCAT Glen Bench
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 30, T.8S., R.22E.
		12. COUNTY OR PARISH   13. STATE Uintah   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) _____	(Other) _____
(Other) _____		(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.)\*

Natural Gas Corporation of California reports the subject well vented approximately 44 MCFD for the month of Feb 1987.

**RECEIVED**  
MAR 06 1987

DIVISION OF  
OIL, GAS & MINING

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

SIGNED William A Ryan TITLE Petroleum Engineer DATE March 4, 1987

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

RECEIVED  
MAR 06 1987

March 4, 1987

DIVISION OF  
OIL, GAS & MINING

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

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

Re: Report of Vented Gas

Gentlemen,

Attached is form 3160-5, "Sundry Notices and Reports of Wells", notification of gas being vented in the Glen Bench Unit. The following wells are affected:

NGC #44-19 Federal  
Sec. 19, T.8S., R.22E.  
Uintah County, Utah

NGC #31-20 Federal  
Sec. 20, T.8S., R.22E.  
Uintah County, Utah

NGC #13-20 Federal  
Sec. 20, T.8S., R.22E.  
Uintah County, Utah

NGC #22-30 Federal  
Sec. 30, T.8S., R.22E.  
Uintah County, Utah

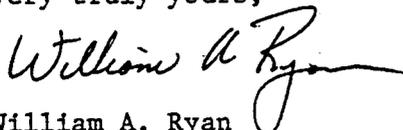
NGC #22-20 Federal  
Sec. 20, T.8S., R.22E.  
Uintah County, Utah

NGC #31-30 Federal  
Sec. 30, T.8S., R.22E.  
Uintah County, Utah

43-047-31008  
POW

If you need more information, please contact our Vernal office.

Very truly yours,



William A. Ryan  
Petroleum Engineer

/kh

Attachments

cc: S. Furtado (Rm 1449)  
L. Jorgensen (Rm 1421)  
W. G. Paulsell (Rm 1428)

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

SUBMIT IN TRIPLICATE\*  
(See instructions on  
reverse side)

040311

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.)

5. LEASE DESIGNATION AND SERIAL NO.	U-9617	POW
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	Uintah & Ouray	
7. UNIT AGREEMENT NAME	Glen Bench	
8. FARM OR LEASE NAME	Federal	
9. WELL NO.	31-30	
10. FIELD AND POOL, OR WILDCAT	Glen Bench	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	Sec. 30, T.8S., R.22E.	
12. COUNTY OR PARISH	Uintah	13. STATE Utah

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Natural Gas Corporation of California

3. ADDRESS OF OPERATOR  
85 South 200 East, Vernal Utah 84078

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface  
238' FNL, 1802' FEL Section 30, T.8S., R.22E.

14. PERMIT NO. 43-047-31008

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
4777'

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"/>	FULL 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) _____	
(Other) _____		(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.)\*

Natural Gas Corporation of California reports the subject well vented approximately 2515 MCFD for the month of March.

18. I hereby certify that the foregoing is true and correct  
SIGNED William A Ryan TITLE Petroleum Engineer DATE 3/28/87  
William A Ryan  
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

RECEIVED  
APR 02 1987

NGC NGC

DIVISION OF  
OIL, GAS & MINING

April 1, 1987

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

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

Re: Report of Vented Gas

Gentlemen,

Attached is form 3160-5, "Sundry Notices and Reports of Wells", notification of gas being vented in the Glen Bench Unit. The following wells are affected:

NGC #44-19 Federal  
Sec. 19, T.8S., R.22E.  
Uintah County, Utah

NGC #31-20 Federal  
Sec. 20, T.8S., R.22E.  
Uintah County, Utah

NGC #13-20 Federal  
Sec. 20, T.8S., R.22E.  
Uintah County, Utah

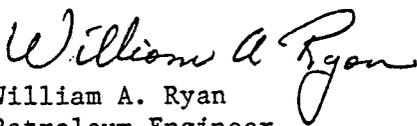
NGC #22-30 Federal  
Sec. 30, T.8S., R.22E.  
Uintah County, Utah

NGC #22-20 Federal  
Sec. 20, T.8S., R.22E.  
Uintah County, Utah

NGC #31-30 Federal  
Sec. 30, T.8S., R.22E.  
Uintah County, Utah

If you need more information, please contact our Vernal office.

Very truly yours,

  
William A. Ryan  
Petroleum Engineer

/kh

Attachments

cc: S. Furtado (Rm 1449)  
L. Jorgensen (Rm 1421)  
W. G. Paulsell (Rm 1428)

RECEIVED  
JUN 04 1987

DIVISION OF  
OIL, GAS & MINING

June 2, 1987

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

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

Re: Report of Vented Gas

Gentlemen,

Attached is form 3160-5, "Sundry Notices and Reports of Wells", notification of gas being vented in the Glen Bench Unit. The following wells are affected:

NGC #44-19 Federal  
Sec. 19, T.8S., R.22E.  
Uintah County, Utah

NGC #31-20 Federal  
Sec. 20, T.8S., R.22E.  
Uintah County, Utah

NGC #13-20 Federal  
Sec. 20, T.8S., R.22E.  
Uintah County, Utah

NGC #22-30 Federal  
Sec. 30, T.8S., R.22E.  
Uintah County, Utah

NGC #22-20 Federal  
Sec. 20, T.8S., R.22E.  
Uintah County, Utah

NGC #31-30 Federal  
Sec. 30, T.8S., R.22E.  
Uintah County, Utah

If you need more information, please contact our Vernal office.

Very truly yours,

*William A. Ryan /cw*  
William A. Ryan  
Petroleum Engineer

/kh

Attachments

cc: S. Furtado (Rm 1458)  
L. Jorgensen (Rm 1433)  
W. G. Paulsell (Rm 1428)

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

SUBMIT IN TRIPLICATE\*  
(See instructions on reverse side)

060920

**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 checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-9617 <i>POW</i>
2. NAME OF OPERATOR Natural Gas Corporation of California		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Uintah & Ouray
3. ADDRESS OF OPERATOR 85 South 200 East, Vernal Utah 84078		7. UNIT AGREEMENT NAME Glen Bench
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 238' FNL, 1802' FEL Section 30, T.8S., R.22E.		8. FARM OR LEASE NAME Federal
14. PERMIT NO. 43-047-31008	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4777'	9. WELL NO. 31-30
		10. FIELD AND POOL, OR WILDCAT Glen Bench
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 30, T.8S., R.22E.
		12. COUNTY OR PARISH Uintah
		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.)\*

Natural Gas Corporation of California reports the subject well vented approximately 3001 MCFD for the month of May 1987.

**RECEIVED**  
JUN 04 1987

DIVISION OF  
OIL, GAS & MINING

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

SIGNED William A. Ryan TITLE Petroleum Engineer DATE 6/2/87

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED  
JUL 09 1987

DIVISION OF  
OIL, GAS & MINING

July 6, 1987

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

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

Re: Report of Vented Gas

Gentlemen,

Attached is form 3160-5, "Sundry Notices and Reports of Wells", notification of gas being vented in the Glen Bench Unit. The following wells are affected:

NGC #44-19 Federal  
Sec. 19, T.8S., R.22E.  
Uintah County, Utah

NGC #31-20 Federal  
Sec. 20, T.8S., R.22E.  
Uintah County, Utah

NGC #13-20 Federal  
Sec. 20, T.8S., R.22E.  
Uintah County, Utah

NGC #22-30 Federal  
Sec. 30, T.8S., R.22E.  
Uintah County, Utah

NGC #22-20 Federal  
Sec. 20, T.8S., R.22E.  
Uintah County, Utah

NGC #31-30 Federal  
Sec. 30, T.8S., R.22E.  
Uintah County, Utah

If you need more information, please contact our Vernal office.

Very truly yours,

*William A. Ryan /cw*

William A. Ryan  
Petroleum Engineer

/kh

Attachments

cc: S. Furtado (Rm 1458)  
L. Jorgensen (Rm 1433)  
W. G. Paulsell (Rm 1428)

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

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

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  GAS WELL  OTHER

2. NAME OF OPERATOR  
Natural Gas Corporation of California

3. ADDRESS OF OPERATOR  
85 South 200 East, Vernal Utah 84078

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface  
238' FNL, 1802' FEL Section 30, T.8S., R.22E.

14. PERMIT NO.  
43-047-31008

15. ELEVATIONS (Show whether DF, RT, OR, etc.)  
4777'

RECEIVED  
JUL 09 1987

5. LEASE DESIGNATION AND SERIAL NO.  
U-9617 **0717**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Pow  
Uintah & Ouray

7. UNIT AGREEMENT NAME  
Glen Bench

8. FARM OR LEASE NAME  
Federal

9. WELL NO.  
31-30

10. FIELD AND POOL, OR WILDCAT  
Glen Bench

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 30, T.8S., R.22E.

12. COUNTY OR PARISH  
Uintah

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 an 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.)\*

Natural Gas Corporation of California reports the subject well vented approximately 29 MCFD for the month of July 1987.

*N/C PROPOSES TO CHANGE THE VENTED GAS TESTING SCHEDULE FROM A MONTHLY TO A QUARTERLY TEST. ATTACHED IS A RECORD OF VENTED GAS TESTS*

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

SIGNED Eric F. Haddell TITLE Petroleum Engineer DATE 7-6-87  
ERIC F. HADSELL

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side



RECEIVED

AUG 28 1987

DIVISION OF OIL  
GAS & MINING

August 26, 1987

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

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

Re: Report of Vented Gas

Gentlemen,

Attached is form 3160-5, "Sundry Notices and Reports of Wells", notification of gas being vented in the Glen Bench Unit. The following wells are affected:

NGC #44-19 Federal  
Sec. 19, T.8S., R.22E.  
Uintah County, Utah

NGC #31-20 Federal  
Sec. 20, T.8S., R.22E.  
Uintah County, Utah

NGC #13-20 Federal  
Sec. 20, T.8S., R.22E.  
Uintah County, Utah

NGC #22-30 Federal  
Sec. 30, T.8S., R.22E.  
Uintah County, Utah

NGC #22-20 Federal  
Sec. 20, T.8S., R.22E.  
Uintah County, Utah

NGC #31-30 Federal  
Sec. 30, T.8S., R.22E.  
Uintah County, Utah

If you need more information, please contact our Vernal office.

Very truly yours,



William A. Ryan  
Petroleum Engineer

/kh

Attachments

cc: S. Furtado (Rm 1458)  
L. Jorgensen (Rm 1433)  
W. G. Paulsell (Rm 1428)

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

or instructions on  
reverse side)

pow

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.)

5. LEASE DESIGNATION AND SERIAL NO.	U-9617
6. IF INDIAN, ALLOTMENT OR TRACT NAME	080410
	Uintah & Ouray
7. UNIT AGREEMENT NAME	Glen Bench
8. FARM OR LEASE NAME	Federal
9. WELL NO.	31-30
10. FIELD AND POOL, OR WILDCAT	Glen Bench
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	Sec. 30, T.8S., R.22E.
12. COUNTY OR PARISH	Uintah
13. STATE	Utah

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>
2. NAME OF OPERATOR Natural Gas Corporation of California
3. ADDRESS OF OPERATOR 85 South 200 East, Vernal Utah 84078
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 238' FNL, 1802' FEL Section 30, T.8S., R.22E.
14. PERMIT NO. 43-047-31008
15. ELEVATIONS (Show whether OF, RT, OR, etc.) 4777'

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) _____	

(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.)\*

Natural Gas Corporation of California reports the subject well vented approximately 25.7 MCFD for the month of Aug 1987.

18. I hereby certify that the foregoing is true and correct  
SIGNED William Ryan TITLE Petroleum Engineer DATE 8/26/87  
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

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

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

*POW*

**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  GAS WELL  OTHER

2. NAME OF OPERATOR  
Natural Gas Corporation of California

3. ADDRESS OF OPERATOR  
85 South 200 East, Vernal Utah 84078

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface  
238' FNL, 1802' FEL Section 30, T.8S., R.22E.

14. PERMIT NO. 43-047-31008

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
4777'

NOV 16 1987  
DIVISION OF OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.  
U-9617

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
111815  
Uintah & Ouray

7. UNIT AGREEMENT NAME  
Glen Bench

8. FARM OR LEASE NAME  
Federal

9. WELL NO.  
31-30

10. FIELD AND POOL, OR WILDCAT  
Glen Bench

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 30, T.8S., R.22E.

12. COUNTY OR PARISH  
Uintah

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"/>	

(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.)

Natural Gas Corporation of California reports the subject well vented approximately 36 MCFD for the month of November.

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

SIGNED William A. Ryan TITLE Petroleum Engineer DATE 11/12/87

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

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

5. LEASE DESIGNATION (PROPOSAL NO.)  
U-9617

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Uintah & Ouray

7. UNIT AGREEMENT NAME  
Glen Bench

8. FARM OR LEASE NAME  
Federal

9. WELL NO.  
31-30

10. FIELD AND POOL, OR WILDCAT  
Glen Bench

11. SEC., T., R., M., OR BLK. AND SUBVY OR AREA  
Sec. 30, T.8S., R.22E.

12. COUNTY OR PARISH  
Uintah

13. STATE  
Utah

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  GAS WELL  OTHER

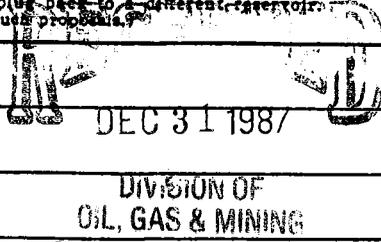
2. NAME OF OPERATOR  
Natural Gas Corporation of California

3. ADDRESS OF OPERATOR  
85 South 200 East, Vernal Utah 84078

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface  
238' FNL, 1802' FEL Section 30, T.8S., R.22E.

14. PERMIT NO.  
43-047-31008

15. ELEVATIONS (Show whether DF, RT, OR, etc.)  
4777'



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) _____	

(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.)\*

Natural Gas Corporation of California reports the subject well vented approximately 27 MCFD for the month of December, 1987

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

SIGNED William A. Ryan TITLE Petroleum Engineer DATE 12/16/87

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

Natural Gas  
Corporation of  
California

RECEIVED  
DEC 31 1987

DIVISION OF  
OIL, GAS & MINING

December 18, 1987

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

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

Re: Report of Vented Gas

Gentlemen,

Attached is form 3160-5, "Sundry Notices and Reports of Wells", notification of gas being vented in the Glen Bench Unit. The following wells are affected:

NGC #44-19 Federal  
Sec. 19, T.8S., R.22E.  
Uintah County, Utah

NGC #31-20 Federal  
Sec. 20, T.8S., R.22E.  
Uintah County, Utah

NGC #13-20 Federal  
Sec. 20, T.8S., R.22E.  
Uintah County, Utah

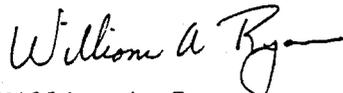
NGC #22-30 Federal  
Sec. 30, T.8S., R.22E.  
Uintah County, Utah

NGC #22-20 Federal  
Sec. 20, T.8S., R.22E.  
Uintah County, Utah

NGC #31-30 Federal  
Sec. 30, T.8S., R.22E.  
Uintah County, Utah

If you need more information, please contact our Vernal office.

Very truly yours,



William A. Ryan  
Petroleum Engineer

/kh

Attachments

cc: S. Furtado (Rm 1458)  
L. Jorgensen (Rm 1433)  
W. G. Paulsell (Rm 1428)

85 South 200 East  
Vernal, Utah 84078  
(801) 789-4573

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

SUBMIT IN TRIPLICATE\*  
(other instructions on reverse side)

**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  GAS WELL  OTHER

2. NAME OF OPERATOR  
Natural Gas Corporation of California

3. ADDRESS OF OPERATOR  
85 South 200 East, Vernal Utah 84078

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface  
238' FNL, 1802' FEL Section 30, T.8S., R.22E.

14. PERMIT NO.  
43-047-31008

15. ELEVATIONS (Show whether DF, RT, OR, etc.)  
4777'

**RECEIVED**  
FEB 24 1988  
DIVISION OF OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.  
U-9617 *low/cew*

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
030307  
Uintah & Ouray

7. UNIT AGREEMENT NAME  
Glen Bench

8. FARM OR LEASE NAME  
Federal

9. WELL NO.  
31-30

10. FIELD AND POOL, OR WILDCAT  
Glen Bench

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 30, T.8S., R.22E.

12. COUNTY OR PARISH  
Uintah

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.)\*

Natural Gas Corporation of California reports the subject well vented approximately 52 MCFD for the month of February, 1988

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

SIGNED Connie Wales TITLE Clerk DATE 2/22/88

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

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

SUBMIT IN TRIPLICATE\*  
(See instructions on reverse side)

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back into a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input checked="" type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. U-9617 POW/SRRU
2. NAME OF OPERATOR Natural Gas Corporation of California		6. IF INDIAN, ALLOTTEE OR TRIBE NAME 032908 Uintah & Ouray
3. ADDRESS OF OPERATOR 85 South 200 East, Vernal Utah 84078		7. UNIT AGREEMENT NAME Glen Bench
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 238' FNL, 1802' FEL Section 30, T.8S., R.22E.		8. FARM OR LEASE NAME Federal
14. PERMIT NO. 43-047-31008		9. WELL NO. 31-30
15. ELEVATIONS (Show whether OF, RT, GR, etc.) 4777'		10. FIELD AND POOL, OR WILDCAT Glen Bench
		11. SEC., T., R., M., OR B.L. AND SUBST OR AREA Sec. 30, T.8S., R.22E.
		12. COUNTY OR PARISH Uintah
		13. STATE Utah

MAR 28 1988  
DIVISION OF OIL, GAS & MINING

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"/>	FULL 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) _____	(Other) _____

(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.)\*

Natural Gas Corporation of California reports the subject well vented approximately 31 MCFD for the month of March, 1988.

18. I hereby certify that the foregoing is true and correct  
 SIGNED Connie Wales TITLE Clerk DATE 3/25/88

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

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

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

2

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different formation. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED  
JUN 2 1988

5. LEASE DESIGNATION AND SERIAL NO.	U-9617
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	Uintah & Ouray
7. UNIT AGREEMENT NAME	Glen Bench
8. FARM OR LEASE NAME	Federal
9. WELL NO.	31-30
10. FIELD AND POOL, OR WILDCAT	Glen Bench
11. SEC., T., R., M., OR B.L. AND SURVEY OR AREA	Sec. 30, T.8S., R.22E.
12. COUNTY OR PARISH	Uintah
13. STATE	Utah

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Natural Gas Corporation of California

3. ADDRESS OF OPERATOR  
85 South 200 East, Vernal Utah 84078

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface  
238' FNL, 1802' FEL Section 30, T.8S., R.22E.

14. PERMIT NO. 43-047-31008

15. ELEVATIONS (Show whether OF, FT, OR, etc.)  
4777'

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) _____	
(Other) _____		(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.)\*

Natural Gas Corporation of California reports the subject well vented approximately 27 MCFD for the month of May, 1988.

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

SIGNED Connie Wales TITLE Clerk DATE 5/31/88

(This space for Federal or State office use)

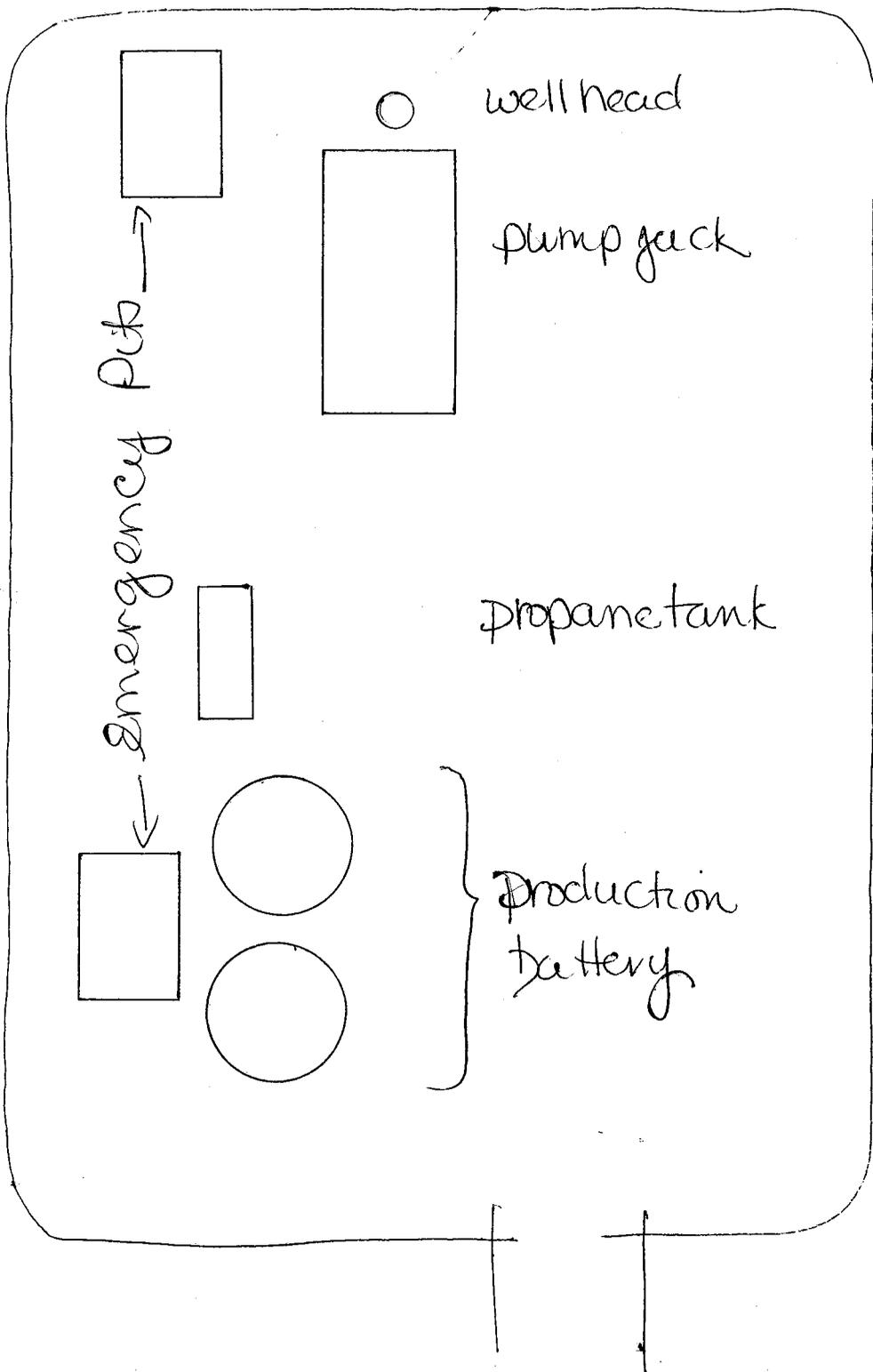
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

Glen Beach 31-30 Sec 30, T8 S0, R22E, Kirby 4/6/89

MICROFICHE

L N





355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Ut  
84180-1203. (801-538-5340)

## MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:

• NATURAL GAS CORP OF CA  
85 SOUTH 200 EAST  
VERNAL UT 84078  
ATTN: PROD. ACCOUNTING

Utah Account No. NO700

Report Period (Month/Year) 5 / 89

Amended Report

Well Name	Producing Zone	Days Oper	Production Volume		
API Number    Entity    Location	Zone	Oper	Oil (BBL)	Gas (MSCF)	Water (BBL)
X GLEN BENCH 31-30 4304731008 06045 08S 22E 30	GRRV				
X NGC FED 44-19 4304731257 06045 08S 22E 19	GRRV				
X NGC 13-20 4304731355 06045 08S 22E 20	GRRV				
X NGC 22-30 4304731260 06050 08S 22E 30	GRRV				
X GLEN BENCH 23-21 4304731007 06054 08S 22E 21	MVRD				
X FEDERAL 11-9-H 4301330887 06058 09S 17E 9	GRRV				
X NGC FED 11-31-1 4304731244 06065 09S 18E 31	GRRV				
X FED NGC 31-8H 4301330679 06075 09S 17E 8	GRRV				
X FED NGC 42-8H 4301330678 06080 09S 17E 8	GRRV				
X NGC 41-8H 4301330741 06085 09S 17E 8	GRRV				
X FED 41-30 4301330601 06095 09S 17E 30	GRRV				
X NGC 12-4G 4301330699 06100 09S 16E 4	GRRV				
X NGC FED 21-5G 4301330698 06105 09S 16E 5	GRRV				
<b>TOTAL</b>					

Comments (attach separate sheet if necessary) \_\_\_\_\_

I have reviewed this report and certify the information to be accurate and complete. Date \_\_\_\_\_

Authorized signature \_\_\_\_\_ Telephone \_\_\_\_\_

NGC  
Energy  
Company

2001 Bryan Tower  
Suite 953  
Dallas, Texas 75201  
(214) 742-2396

RECEIVED  
JUN 21 1989

DEPARTMENT OF  
OIL, GAS & MINING

June 12, 1989

Dear Operator/Vendor:

NGC Energy Company has changed its name to PG&E Resources Company and has relocated its corporate headquarters from Concord, California to Dallas, Texas. All invoices and correspondence currently mailed to Concord, California should now be addressed to:

PG&E RESOURCES COMPANY  
2001 Bryan Tower, Suite 953  
Dallas, TX 75201

PG&E Resources Company's Rocky Mountain Regional office will continue to operate in Vernal, Utah. Please mail all invoices and correspondence pertaining to the Rocky Mountain region to:

PG&E RESOURCES COMPANY  
85 South 200 East  
Vernal, UT 84078

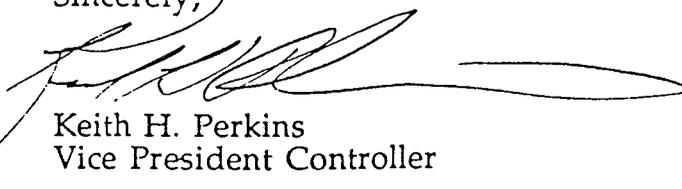
All remittances should be mailed to:

PG&E RESOURCES COMPANY  
P. O. Box 840274  
Dallas, Texas 75284-0274

PG&E Resources Company federal tax identifying number is 94-2882054.

Should you need any additional information, please contact Patti Sanders, Accounts Payable Supervisor.

Sincerely,

  
Keith H. Perkins  
Vice President Controller

KHP/chs

6-26-89

NGC Energy Co : Natural Gas Corp  
of CA are one in the same  
company. talked w/ Mr. Perkins  
he indicated both companies  
should reflect the chg. NGC Co.  
will send a chg of op from  
Natural Gas Corp to NGC.  
AS



# 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

January 18, 1991

Mr. Garr Roberts  
Prodco, Inc.  
5690 DTC Blvd., Suite 240E Tower  
Englewood, Colorado 80111

Dear Mr. Roberts:

Re: Operator Change, PG&E Resources Company to Prodco, Inc. - Uintah County, Utah

In reviewing the operator change for the referenced companies, it was determined that your company is not currently registered with the Utah Department of Commerce. This letter is written to advise you of your responsibility to register your company with the state prior to conducting business within Utah. This can be accomplished by contacting:

Department of Commerce  
Division of Corporations  
160 East 300 South  
Salt Lake City, Utah 84111  
(801) 530-4849

Sincerely,

Lisha Romero  
Administrative Analyst

cc: Dept. of Commerce  
D. T. Staley  
R. J. Firth  
Operator Change File  
WE76

January 18, 1991

**RECEIVED**  
JAN 22 1991

DIVISION OF  
OIL, GAS & MINING

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

Attention: Lisha Romero

RE: Change of Operator

Gentlemen:

Effective October 1, 1990, PG&E Resources Company sold several leases and associated wells to:

Prodco, Inc.  
5690 DTC Blvd., Suite 240E  
Englewood, Colorado 80111  
Attention: Mr. Garr Roberts  
(303) 741-5030

Assignments of the involved leases have been sent to the Division of Lands and Forestry or the BLM, as necessary, for approval.

Enclosed is a schedule of all of the wells involved in this sale. The wells formerly operated by PG&E Resources Company (high-lighted) will now be operated by Prodco, Inc.

Very truly yours,



Douglas P. Cullen  
Senior Landman

/saw

Enclosure

cc: Garr Roberts  
Prodco, Inc.

Attachment 1  
 Bill of Sale from PG&E Resources Company to Procco, Inc. dated effective October 1, 1990  
 Well List  
 GLEN BENCH AREA  
 Township 6S through 10S, Range 21E through 24E  
 Uintah County, Utah

<u>Well</u>	<u>Product</u>	<u>Location</u>	<u>W.I.</u>	<u>R.I.</u>	<u>Status Feb., '90</u>	<u>Operator</u>
43-047-31355 - 13-20 Glen Bench	Oil	NWSW 20-8S-22E	0.6667	0.55667	Producing	PG&ER
2-32 W. Walker State	Gas	NWNE 32-6S-22E	0.0 BPO 0.5 APO	0.05 BPO 0.4125 APO	Never Completed	Snyder
43-047-31356 - 22-20 Glen Bench	Oil	SEnw 20-8S-22E	0.3333	0.2883	S.I.	PG&ER
43-047-31260 - 22-30 Glen Bench	Oil	SEnw 30-8S-22E	0.6667	0.55667	S.I.	PG&ER
23-11 Sand Ridge	Gas	NESW 11-9S-23E	0.0	0.05667	S.I.	Alta Energy
43-047-30623 - 23-17 Sand Ridge	Gas	NESW 17-8S-23E	1.0 BPO 0.667 APO (300%)	0.825 BPO 0.550275% APO (300%)	Never Completed	PG&ER
23-20 Devil's Playground	Oil	NESW 20-9S-24E	0.0	0.05	S.I.	Dirty Devil L.P.

Attachment 1  
 Bill of Sale from PG&E Resources Company to ProdcO, Inc. dated effective October 1, 1990  
 Well List  
 GLEN BENCH AREA  
 Township 6S through 10S, Range 21E through 24E  
 Uintah County, Utah

<u>Well</u>	<u>Product</u>	<u>Location</u>	<u>W.I.</u>	<u>R.I.</u>	<u>Status Feb., '90</u>	<u>Operator</u>
43-047-31007 — 23-21 Glen Bench 23-25 Sand Ridge	Gas	NESW 21-8S-22E	1.0 BPO 0.6667 APO	0.835 BPO 0.55667 APO	Never Completed	PG&ER
43-047-30610 — 24-22 Glen Bench 31-18 Hall	Gas	NESW 25-8S-23E	0.0	0.056667	Never Completed	Alta Energy
43-047-31433 — 31-20 Glen Bench 31-18 Hall	Gas	SESW 22-8S-22E	1.0 BPO 0.6667 APO	0.835 BPO 0.55667 APO	Producing	PG&ER
43-047-31433 — 31-20 Glen Bench	Gas	NWNW 31-8S-22E	0.1671	0.13952	Producing	Conoco
43-047-31008 — 31-30 Glen Bench 31-32 D & E	Oil	NWNE 20-8S-22E	0.333	0.2883	Producing	PG&ER
43-047-31008 — 31-30 Glen Bench	Oil	NWNE 30-8S-22E	1.0 BPO 0.6667 APO	0.835 BPO 0.55667 APO	S.I.	PG&ER
43-047-31022 — 34-27 Glen Bench	Gas	SESE 31-8S-22E	0.5	0.4176525	Producing	Conoco
43-047-31022 — 34-27 Glen Bench	Gas	SWSE 27-8S-22E	0.8571431	0.715714	Never Completed	PG&ER

Attachment 1  
 Bill of Sale from PG&E Resources Company to ProdcO, Inc. dated effective October 1, 1990  
 Well List  
 GLEN BENCH AREA  
 Township 6S through 10S, Range 21E through 24E  
 Uintah County, Utah

<u>Well</u>	<u>Product</u>	<u>Location</u>	<u>W.I.</u>	<u>R.I.</u>	<u>Status Feb., '90</u>	<u>Operator</u>
43-047-3125 7 — 44-19 Glen Bench	Oil	SESE 19-8S-22E	0.6667	0.556667	S.I.	PG&ER
5-21 Federal	Oil	SWNW 21-7S-21E	0.0 BPO 0.333 APO	0.0334 BPO 0.273306 APO	Producing	Lomax
56-29 Chapita	Gas	NESW 29-9S-23E	0.2222	0.1827778	Producing	Enron
32-1 Stirrup State (Apcot)	Oil	NWNE 32-6S-21E	0.0	0.04667	Producing	TXO
32-2 Stirrup State (Apcot)	Oil	SENE 32-6S-21E	0.0	0.04667	Producing	TXO
32-4 Stirrup State (Apcot)	Gas	NWNE 32-6S-21E	0.0	0.04667	Producing	TXO
1 Raging Bull	Oil	NESW 26-8S-24E	0.0 BPO 0.25 APO	0.04 BPO 0.20625 APO	S.I.	Gilmore Oil & Gas

**Attachment 1**  
**Bill of Sale from PG&E Resources Company to Prodco, Inc. dated effective October 1, 1990**  
**Well List**  
**GLEN BENCH AREA**  
**Township 6S through 10S, Range 21E through 24E**  
**Uintah County, Utah**

<u>Well</u>	<u>Product</u>	<u>Location</u>	<u>W.I.</u>	<u>R.I.</u>	<u>Status Feb., '90</u>	<u>Operator</u>
28-1 Conoco State	Gas	SESE 28-8S-25E	0.0	0.05	S.I.	---
32-2 Conoco State	Oil	NENE 32-8S-23E	0.0	0.05	S.I.	---
41-9 Devil's Playground	Gas	NENE 9-9S-24E	0.0	0.03667	Producing	EPS
23-17 Dirty Devil	Gas	NESW 17-9S-24E	0.0	0.05	Producing	Dirty Devil L.P.
1-18 Devil's Playground	Gas	NWNE 18-9S-24E	0.0	0.03333	Producing	EPS
11-29 Dirty Devil	Gas	NWNW 29-9S-24E	0.0	0.06333	Producing	Dirty Devil L.P.
31-15A Dirty Devil	Gas	NWNE 15-9S-24E	0.0	0.05667	---	Dirty Devil L.P.

Routing:	
1- LCR	<input checked="" type="checkbox"/>
2- DTS	<input checked="" type="checkbox"/>
3- VLC	<input checked="" type="checkbox"/>
4- RJF	<input checked="" type="checkbox"/>
5- RWM	<input checked="" type="checkbox"/>
6- LCB	<input checked="" type="checkbox"/>

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

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

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 1-9-91 **\*\*12-24-90**)

TO (new operator)	<u>PRODCO, INC.</u>	FROM (former operator)	<u>PG&amp;E RESOURCES COMPANY</u>
(address)	<u>5690 DTC BLVD, STE 240E TOWER</u>	(address)	<u>5950 BERKSHIRE LANE #600</u>
	<u>ENGLEWOOD, CO 80111</u>		<u>DALLAS, TX 75225</u>
	<u>GARR ROBERTS</u>		
phone	<u>(303)721-7750</u>	phone	<u>(214) 750-3823</u>
account no.	<u>N1320 (1-28-91)</u>	account no.	<u>N0595</u>

Well(s) (attach additional page if needed): Glen Bench Unit

Name:	<u>GLEN BENCH 31-30 /GRRV</u>	API:	<u>4304731008</u>	Entity:	<u>6045</u>	Sec	<u>30</u>	Twp	<u>8S</u>	Rng	<u>22E</u>	Lease	Type:	<u>U-9617</u>
Name:	<u>NGC FED 44-19 /GRRV</u>	API:	<u>4304731257</u>	Entity:	<u>6045</u>	Sec	<u>19</u>	Twp	<u>8S</u>	Rng	<u>22E</u>	Lease	Type:	<u>U-9617</u>
Name:	<u>NGC 13-20 / GRRV</u>	API:	<u>4304731355</u>	Entity:	<u>6045</u>	Sec	<u>20</u>	Twp	<u>8S</u>	Rng	<u>22E</u>	Lease	Type:	<u>U-9617</u>
Name:	<u>NGC 22-30 / GRRV</u>	API:	<u>4304731260</u>	Entity:	<u>6050</u>	Sec	<u>30</u>	Twp	<u>8S</u>	Rng	<u>22E</u>	Lease	Type:	<u>U-9617</u>
Name:	<u>GLEN BENCH 23-21/MVRD</u>	API:	<u>4304731007</u>	Entity:	<u>6054</u>	Sec	<u>21</u>	Twp	<u>8S</u>	Rng	<u>22E</u>	Lease	Type:	<u>U-28652</u>
Name:	<u>FEDERAL 24-22 / WSTC</u>	API:	<u>4304730610</u>	Entity:	<u>6124</u>	Sec	<u>22</u>	Twp	<u>8S</u>	Rng	<u>22E</u>	Lease	Type:	<u>U-28652</u>
Name:	<u>FED 23-17 SAND RIDGE // WSTC</u>	API:	<u>4304730623</u>	Entity:	<u>6126</u>	Sec	<u>17</u>	Twp	<u>8S</u>	Rng	<u>23E</u>	Lease	Type:	<u>U-014327</u>

**OPERATOR CHANGE DOCUMENTATION**

- 1 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Reg. 1-18-91/Susan Walker) (Rec. 1-22-91)
- 2 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Reg. 1-18-91/Barr Roberts) (Rec. 1-24-91)
- 3 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes (no) NO If yes, show company file number: \_\_\_\_\_ (Letter mailed 1-18-91)
- 4 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- 5 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (1-28-91)
- 6 6. Cardex file has been updated for each well listed above.
- 7 7. Well file labels have been updated for each well listed above.
- 8 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission.
- 9 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

TY REVIEW

1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes no) NO (If entity assignments were changed, attach copies of Form 5, Entity Action Form). Entity 6045 - CREV A P.A. other wells single entity - ok!  
6124 - WSTC A P.A.
2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

D VERIFICATION (Fee wells only)

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

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

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

LMING  
*Bfm*

1. All attachments to this form have been microfilmed. Date: January 30 1971.

LING

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

MMMENTS

910122 *Bfm/Wesnal* Changes have been approved "Glen Bench Unit" includes leases  
*+ parts*  
 (U-9617, U-28652, U-055) eff. 1-9-91. Lease U-0143276 eff. 12-24-90. (Not a unit well)  
 ↳ This lease is not a part of "Glen Bench Unit" but was also approved by  
 Bfm eff. 1-9-91.

1- LCR
2- DTS
3- VLC
4- RJF
5- RWM
6- LCR

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

1-9-91

The operator of the well(s) listed below has changed (EFFECTIVE DATE: \_\_\_\_\_)

TO (new operator)	<u>PRODCO, INC.</u>	FROM (former operator)	<u>PG&amp;E RESOURCES COMPANY</u>
(address)	_____	(address)	_____
	_____		_____
	_____		_____
phone ( )	_____	phone ( )	_____
account no. <u>N</u>	_____	account no. <u>N</u>	_____

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

Name: <u>NGC 22-20/GRRV</u>	API: <u>4304731356</u>	Entity: <u>6135</u>	Sec <u>20</u> Twp <u>8S</u> Rng <u>22E</u>	Lease Type: <u>U-055</u>
Name: <u>FEDERAL 31-20/GRRV</u>	API: <u>4304731433</u>	Entity: <u>6196</u>	Sec <u>20</u> Twp <u>8S</u> Rng <u>22E</u>	Lease Type: <u>U-055</u>
Name: <u>GLEN BENCH 34-27/DRL</u>	API: <u>4304731022</u>	Entity: <u>10880</u>	Sec <u>27</u> Twp <u>8S</u> Rng <u>22E</u>	Lease Type: <u>U-28652</u>
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form).
2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
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: \_\_\_\_\_.
4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above.
6. Cardex file has been updated for each well listed above.
7. Well file labels have been updated for each well listed above.
8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission.
9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

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

BOND VERIFICATION (Fee wells only)

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

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

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

MICROFILMING

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

FILED

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

REMARKS

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

RECEIVED  
JAN 24 1991

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 checked="" type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME Glen Bench	
2. NAME OF OPERATOR Production Operating and Development Co., Inc., dba "PRODCO, Inc."		8. FARM OR LEASE NAME Glen Bench Federal	
3. ADDRESS OF OPERATOR 5690 DTC Blvd., Suite 240E, Englewood, Colorado 80111		9. WELL NO. See Below	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface  See Below		10. FIELD AND POOL, OR WILDCAT Glen Bench	
14. PERMIT NO.		12. COUNTY OR PARISH Uintah	
15. ELEVATIONS (Show whether OP, RT, GR, etc.)		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) _____	

(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.)

PRODCO, Inc. has purchased PG&E Resources interests and has assumed operations of the following wells under Bond #UT-0808 effective December 1, 1990

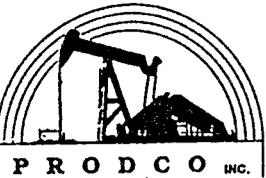
	API #	Lease #
1. Glen Bench Federal 23-17 NE/SW SEC 17, T8S, R22W-21E	43-047-30623	U-0143276
2. Glen Bench Federal 13-20, NW/SW SEC 20 T8S, R22W-21E	43-047-31355	U-9617
3. Glen Bench Federal 22-20, SE//NW SEC 20 T8S, R22W-21E	43-047 31356	U-055
4. Glen Bench Federal 31-20, NW/NE, SEC 20, T8S, R22W-21E	43-047-31433	U-055
5. Glen Bench Federal 44-19, SE/SE, SEC 19 T8S, R22W-21E	43-047-31257	U-9617
6. Glen Bench Federal 23-21, NE/SW SEC 21 T8S, R22W-21E	43-047-31007	U-28652
7. Glen Bench Federal 24-22, SE/SW SEC 22, T8S, R22W-21E	43-047-30610	U-28652
8. Glen Bench Federal 34-27, NW/SE, SEC 27, T8S, R22W-21E	43-047--31022	U-28652
9. Glen Bench Federal 22-30, SE/NW, SEC 30, T8S, R22W-21E	43-047- 31260	U-9617
10. Glen Bench Federal 31-30, NW/NE, SEC 30, T8S, R22W-21E	43-047-31008.	U-9617

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

SIGNED Sam R Roberts TITLE President DATE 1/21/91

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:



5690 DTC Boulevard • Suite 240 East • Englewood, CO 80111 • (303) 721-7750 • FAX (303) 741-6817

\* 911030 Orig to Rwm/File Rm.  
then back to me?

October 1, 1991

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

(N1320)

PRODCO INC. has a change of address that needs to be changed in your office for correspondence concerning the following leases and wells that PRODCO INC. is the operator of:

- |                           |   |
|---------------------------|---|
| 1. Lease # UTU0143276     | Well- Sand Ridge 23-17 43-047-30623, S. 17, T. 8S, R. 22E |
| 2. Lease # UTU055         | Well- Glen Bench 22-20 43-047-31356, S. 20, T. 8S, R. 22E |
|                           | Glen Bench 31-20 43-047-31433, S. 20, T. 8S, R. 22E       |
| 3. Lease # UTU28652       | Well- Glen Bench 23-21 43-047-31007, S. 21, T. 8S, R. 22E |
|                           | Glen Bench 34-27 43-047-31022, S. 27, T. 8S, R. 22E       |
| 4. Lease # UTU9617        | Well- Glen Bench 22-30 43-047-31260, S. 30, T. 8S, R. 22E |
| 5. Agreement # 891018087A | Well- Glen Bench 24-22 43-047-30610, S. 22, T. 8S, R. 22E |
| 6. Agreement # 891018087B | Well- Glen Bench 31-30 43-047-31008, S. 30, T. 8S, R. 22E |
|                           | Well- Glen Bench 44-19 43-047-31257, S. 19, T. 8S, R. 22E |
|                           | Well- Glen Bench 13-20 43-047-31355, S. 20, T. 8S, R. 22E |

The new address will be:

PRODCO INC.  
18053 East Belleview Place  
Aurora, Colo. 80015

(303)693-2200

If I can be of further assistance, please feel free to contact me at any time.

Thank You,  
  
Garr R. Roberts  
President

RECEIVED

OCT 24 1991

DIVISION OF  
OIL GAS & MINING

\*911030 updated for

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

Routing:	
1- <del>VLC</del> 7- <del>VLC</del>	<input checked="" type="checkbox"/>
2- <del>DTS</del> TS	<input checked="" type="checkbox"/>
3- VLC	<input checked="" type="checkbox"/>
4- R.J.F.	<input checked="" type="checkbox"/>
5- PL	<input checked="" type="checkbox"/>
6- S.J.	<input checked="" type="checkbox"/>

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: 8-1-93)

TO (new operator)	<u>CHANDLER &amp; ASSOCIATES INC</u>	FROM (former operator)	<u>PRODCO INC</u>
(address)	<u>555 17TH ST STE 1850</u>	(address)	<u>518 17TH ST STE 1070</u>
	<u>DENVER, CO 80202</u>		<u>DENVER, CO 80202</u>
			<u>GARR ROBERTS, PRES.</u>
	phone <u>(303) 295-0400</u>		phone <u>(303) 571-0200</u>
	account no. <u>N 3320</u>		account no. <u>N 1320</u>

Well(s) (attach additional page if needed):      **\*GLEN BENCH UNIT/TERMINATED 10-93**

Name: <u>*NGC 13-20/GRRV</u>	API: <u>43-047-31355</u>	Entity: <u>6045</u>	Sec <u>20</u> Twp <u>8S</u> Rng <u>22E</u>	Lease Type: <u>U-9617</u>
Name: <u>FEDERAL 31-20/GRRV</u>	API: <u>43-047-31433</u>	Entity: <u>6196</u>	Sec <u>20</u> Twp <u>8S</u> Rng <u>22E</u>	Lease Type: <u>U-055</u>
Name: <u>*GLEN BENCH 31-30/GRRV</u>	API: <u>43-047-31008</u>	Entity: <u>6045</u>	Sec <u>30</u> Twp <u>8S</u> Rng <u>22E</u>	Lease Type: <u>U-9617</u>
Name: <u>NGC 22-30/GRRV</u>	API: <u>43-047-31260</u>	Entity: <u>6050</u>	Sec <u>30</u> Twp <u>8S</u> Rng <u>22E</u>	Lease Type: <u>U-9617</u>
Name: <u>*NGC 44-19/GRRV</u>	API: <u>43-047-31257</u>	Entity: <u>6045</u>	Sec <u>19</u> Twp <u>8S</u> Rng <u>22E</u>	Lease Type: <u>U-9617</u>
Name: <u>NGC 22-20/GRRV</u>	API: <u>43-047-31356</u>	Entity: <u>6135</u>	Sec <u>20</u> Twp <u>8S</u> Rng <u>22E</u>	Lease Type: <u>U-055</u>
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

- Sec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Rec'd 8-30-93) (9-7-93)*
- Sec 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec'd 8-30-93) (9-7-93)*
- 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: \_\_\_\_\_.
- Sec 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.
- Sec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(11-30-93)*
- Sec 6. Cardex file has been updated for each well listed above. *(11-30-93)*
- Sec 7. Well file labels have been updated for each well listed above. *(11-30-93)*
- Sec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(11-30-93)*
- Sec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- Fee 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) yes (If entity assignments were changed, attach copies of Form 6, Entity Action Form). *Entity 6045 / Glen Bench Unit Terminated 10/93.*
- Fee 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

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

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated    19  , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested. *08/12-2-93*
- N/A 2. Copies of documents have been sent to State Lands for changes involving State leases.

MICROFILMING

- 1. All attachments to this form have been microfilmed. Date: December 7 1993.

FILED

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

COMMENTS

931130 *Btm/Vernal Approved 11-24-93.*

931130 *Confirmed eff. date w/ both operators. (8-1-93)*

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

RECEIVED  
SEP 07 1993

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
 CHANDLER & ASSOCIATES

3. Address and Telephone No.  
 555 17th St., Suite 1850, Denver, Colorado 80202

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 C LOT 6, SECTION 30, TWP 8S., RGE 22E

5. Lease Designation and Serial No.  
 U-9617

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation  
 GLEN BENCH

8. Well Name and No.  
 31-30

9. API Well No.  
 43.047-31008

10. Field and Pool, or Exploratory Area  
 GLEN BENCH

11. County or Parish, State  
 Uintah, Utah

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

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

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

3. 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.)

PLEASE NOTE ADDRESS OF NEW OPERATOR :

CHANDLER & ASSOCIATES  
555 17th St.  
Suite 1850  
DENVER, COLORADO 80202

I hereby certify that the foregoing is true and correct

Signed [Signature] Title VICE PRESIDENT Date 9/2/93

(This space for Federal or State office use)

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

Conditions of approval, if any:

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

\*See Instruction on Reverse Side

UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

SEP 07 1993

1. Type of Well  
 Oil Well    Gas Well    Other

2. Name of Operator  
 Prodeo, Inc.

3. Address and Telephone No.  
 518 17th Street, Suite 1070, Denver, CO 80202 (303) 571-0200

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 C Lot 6 Section 30: TWP 8S - RGE 22 E

5. Lease Designation and Serial No.  
 U-9617

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation  
 Glen Bench

8. Well Name and No.  
 31-30

9. API Well No.

10. Field and Pool, or Exploratory Area  
 Glen Bench

11. County or Parish, State  
 Uintah - Utah

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

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

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

3. 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.)

1. Self-certification statement. Under the Federal regulations in effect as of June 15, 1988, designation of operator forms are no longer required when the operator is not the 100% record title holder. An operator is now required to submit a self-certification statement to the appropriate Bureau office stating that said operator has the right to operate upon the leasehold premises. Said notification may be in the following format:

"Please be advised that Chandler & Associates, Inc. is considered to be the operator of Well No. 31-30; NW 1/4 NE 1/4 Section 30, Township 8 S, Range 22 E; Lease \_\_\_\_\_; Uintah County, Utah; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by The Ohio Casualty Insurance Co of Hamilton, Ohio

BLM Bond # UT-0039  
 Bond ID # 2396118

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

Signed Gara Roberts Title President, Prodeo, Inc. Date 8/25/93

(This space for Federal or State office use)

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

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

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
E	6045	6045	43-047-31008	GLEN BENCH 31-30	NWNE	30	8S	22E	UINTAH	3-27-82	10/93
WELL 1 COMMENTS: *GLEN BENCH UNIT TERMINATED 10/93, THIS WELL WILL RETAIN THE ORIGINAL ENTITY ASSIGNED TO THE "GRRV A" P.A. OF THE UNIT. (1ST WELL COMPLETED OUT OF THE 3) *OPERATOR CHANGE FROM PRODCO INC. TO CHANDLER & ASSOCIATES EFF 8-1-93.											
D	6045	11587	43-047-31257	NGC FED 44-19	SESE	19	8S	22E	UINTAH	10-11-82	10/93
WELL 2 COMMENTS:											
D	6045	11588	43-047-31355	NGC 13-20	NWSW	20	8S	22E	UINTAH	8-21-83	10/93
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

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

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

(3/89)

L. CORDOVA (DOGM)

Signature

ADMIN. ANALYST

11-30-93

Title

Date

Phone No. ( )

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

SEP - 2 1994

5. Lease Designation and Serial Number:  
U-9617

SUNDRY NOTICES AND REPORTS ON WELLS

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

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.

7. Unit Agreement Name:  
Glen Bench

1. Type of Well: OIL  GAS  OTHER:

8. Well Name and Number:  
Glen Bench Federal 31-30

2. Name of Operator:  
Chandler & Associates, Inc.

9. API Well Number:  
43-047-31008

3. Address and Telephone Number:  
475 17th St, Suite 1000 Denver, Co 80202 (303) 295-0400

10. Field and Pool, or Wildcat:  
Glen Bench

4. Location of Well

Footages: 238' FNL & 1802' FEL  
CC, Sec., T., R., M.: NWNE Sec 30-T8S-R22E

County: Uintah  
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 \_\_\_\_\_
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Date of work completion 8/12/94

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.)

The above referenced well was returned to production on 8/12/94.

13.

Name & Signature: 

Title: Manager of Production Date: 8/31/94

(This space for State use only)



UNITED STATES  
DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well  
OIL  GAS   
WELL  WELL  OTHER

2. Name of Operator  
**CHANDLER & ASSOCIATES, INC.**

3. Address and Telephone No.  
**555 17th Street, Suite 1850  
Denver, CO 80202 (303) 295-0400**

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)  
**238' FNL and 1802' FEL NWNE Sec 30-8S-22E**

5. Lease Designation and Serial No.  
**U-9617**

6. If Indian, Allotte or Tribe Name  
**N/A**

7. If Unit or CA. Agreement Designation  
**N/A**

8. Well Name and No.  
**Glen Bench Federal #31-30**

9. API Well No.  
**4304731003 31008**

10. Field and Pool, or Exploratory Area  
**Glen Bench**

11. County or Parish, State  
**Uintah, UT**

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

TYPE OF SUBMISSION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other **Operator Designation**
- Change of plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection

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

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

Please be advised that Chandler & Associates, Inc. is considered to be the operator of Glen Bench #31-30 NW¼ NE¼ Sec 30, Township 8S, Range 22E, Lease U-9617; Uintah County, Utah; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Insurance Management Associates, Inc.

RECEIVED

DEC 01 1993

DIVISION OF  
OIL, GAS & MINING

VERNAL DIST.  
ENG. 229 11.24.93  
GEOL. \_\_\_\_\_  
E.S. \_\_\_\_\_  
PET. \_\_\_\_\_  
A.M. \_\_\_\_\_

RECEIVED

NOV 12 1993

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

Signed John A. McDonald

Title Petroleum Engineer

Date November 8, 1993

(This space for State office use)  
Approved by Allen A. Johnson  
Conditions of Approval, if any:

acting  
Title ASSISTANT DISTRICT  
MANAGER MINERALS

Date NOV 24 1993



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500  
DENVER, COLORADO 80202-2466

JUN 29 1995

Ref: 8WM-DW

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Mr. Don Johnson  
Chandler & Associates, Inc.  
475 17th Street, Suite #1000  
Denver, CO 80202

RE: UNDERGROUND INJECTION CONTROL (UIC)  
**Final Permit - Glen Bench Federal  
#31-30**  
EPA Permit No. UT2764-04247  
Uintah County, Utah

Dear Mr. Johnson:

Enclosed is a Final Underground Injection Control Permit for the proposed enhanced oil recovery well, the Glen Bench Federal #31-30, Glen Bench Field, Uintah County, Utah. A Statement of Basis is also enclosed which discusses the development of the permit.

The public comment period ended on June 16, 1995. There were no comments from either the general public or the land owners who may be affected by the proposed action. We also did not receive any comments from you concerning our actions.

Following conversion, but prior to injection, Chandler & Associates, Inc. (Chandler) **must meet the requirements outlined in the permit under Part II, Section C. 1., Prior to Commencing Injection.**

**It is Chandler's responsibility to be familiar with, and to comply with, all conditions contained in this permit.**

If you have any questions on this action please contact Chuck Williams at (303) 293-1550. Also direct all correspondence and/or reports to **ATTENTION: CHUCK WILLIAMS AT MAIL CODE 8WM-DW.** Thank you for your continued cooperation.

Sincerely,

for  
Max H. Dodson  
Director

Water Management Division



Enclosures:     Final Permit  
                  Statement of Basis

cc:   Mr. Ferron Secakuku  
       Ute Indian Tribe

      Mr. Norman Cambridge  
      Bureau of Indian Affairs

      Mr. Jerry Kenczka  
      BLM - Vernal District Office

      Mr. Gilbert Hunt  
      State of Utah Natural Resources  
      Division of Oil, Gas, and Mining

# STATEMENT OF BASIS

CHANDLER & ASSOCIATES, INC.

GLEN BENCH FEDERAL #31-30  
GLEN BENCH FIELD

EPA PERMIT NUMBER: UT2764-04247

CONTACT: Charles E. "Chuck" Williams (8WM-DW)  
U. S. Environmental Protection Agency  
999 18th Street, Suite 500  
Denver, Colorado 80202-2466  
Telephone: (303) 293-1550

## DESCRIPTION OF FACILITY AND BACKGROUND INFORMATION:

On March 13, 1995, Chandler & Associates, Inc. (Chandler) made application for the conversion of a temporarily abandoned oil well, known as the Glen Bench Federal #31-30, to a Glen Bench zone (locally known) of the Green River formation, enhanced oil recovery injection well so that Chandler may continue to economically produce oil from their Glen Bench Field. The proposed injection fluids are produced Green River Formation brine fluids, 32,922 milligrams per liter (mg/l) Total Dissolved Solids (TDS)] and source well water (State of Utah water user claim Code #49, Serial #287) for water flooding with a TDS of 12,052 mg/l. Only minor amounts of "reservoir" water have been produced since the Glen Bench injection zone has an irreducible water saturation.

The area covered by the application is in the Glen Bench Field which lies within the exterior boundary of the Uintah-Ouray Indian Reservation. The Glen Bench Federal #31-30 well is located in the NW 1/4 of the NE 1/4, (1802 feet from the east line and 238 feet from the north line), Section 30 - T 8 S - R 22 E, Uintah County, Utah. The permittee has sent notices to all surface landowners and interested parties within one-quarter (1/4) mile of the proposed injection well.

The TDS content of the formation water in the Glen Bench zone (4746' - 4764') is 146,136 mg/l from a water analysis taken January 1995 and included in the permit application; therefore, this injection zone is not an underground source of drinking water (USDW) and is not subject to the protection afforded in 40 CFR § 144.7 (a).

Chandler has submitted all required information and data necessary for permit issuance in accordance with 40 CFR Parts 144, 146 and 147, and a draft permit has been prepared.

The permit will be issued for the operating life of the well from the effective date of this permit, therefore, no reapplication will be necessary unless the permit is terminated for reasonable cause (40 CFR 144.39, 144.40, and 144.41). However, the permit will be reviewed every five (5) years.

This Statement of Basis (SOB) gives the derivation of the site specific permit conditions and reasons for them, on the basis of the direct implementation regulations promulgated for the Uintah-Ourray Indian Tribal lands in the State of Utah, under the Underground Injection Control (UIC) program provisions for the Safe Drinking Water Act (SDWA). The referenced sections and conditions correspond to the sections and conditions in permit UT2764-04247. The general permit conditions for which the content is mandatory and not subject to site specific differences (based on 40 CFR Parts 144, 146 and 147), are not included in the discussion.

## PART II, Section A WELL CONVERSION REQUIREMENTS

### Casing and Cementing

(Condition 1)

The well was drilled, cased and cemented during May 1982 and completed as an oil well. Casing and cementing details were submitted with the permit application and construction is as follows:

- (1) **Surface casing** (13-3/8 inch) is set to a depth of 80 feet kelly bushing (KB). The casing is secured with 100 sacks (sxs) cement which was circulated to the surface, isolating the casing from the wellbore.
- (2) **Intermediate casing** (9-5/8 inch) is set in an 12-1/4 inch diameter hole to a depth of 2,510 feet KB. This casing is secured with 625 sxs cement from total depth, up to a depth of 2,137 feet KB as calculated by a Cement Bond Log (CBL).
- (3) **Production casing** (5-1/2 inch) is set in an 7-7/8 inch hole to a depth of 5,115 feet. This casing is secured with 535 sxs cement from TD up to a depth of 4,036 feet per CBL. Plugged back total depth (PBSD) is 5,046 feet.

**UPON REENTRY OF THIS TEMPORARILY ABANDONED OIL WELL, THE CONVERSION TO AN ENHANCED OIL RECOVERY WELL WILL BE AS FOLLOWS:**

- (1) MIRUSU, nipple down tree.
- (2) Trip in hole with 2-3/8" injection tubing and Baker model "G" packer to 4725', circulate packer fluid in tubing annulus, set packer, nipple up tree.
- (3) Establish injection zone fluid pore pressure, static bottom-hole pressure.
- (4) With EPA inspector or other authorized personnel present, test well for mechanical integrity (MIT), with chart, if passed successfully, place well on injection status and wait upon approval from EPA to start injection.

**NOTE: MIT TEST METHODS AND CRITERIA ARE TO FOLLOW CURRENT UIC GUIDANCE. THIS GUIDANCE WILL BE MADE AVAILABLE TO THE PERMITTEE WHEN THE PERMITTEE NOTIFIES THE DIRECTOR OF AN UPCOMING MIT.**

The construction and conversion of this well complies with the UIC requirements and is incorporated into the permit.

The State of Utah Department of Natural Resources Technical Publication No. 92 indicates that the base of moderately saline ground water (3,000 mg/l to 10,000 mg/l) is at a depth of between 2,000' and 3,000' below sea level which corresponds approximately to the **base of Uinta/top Green River formation contact, in the well bore (+2285')**. The purpose of this study was to define the base of moderately saline water in the Uinta Basin in order to better regulate oil and gas drilling, production and Class II injection so as to minimize contamination of ground water that is fresh to moderately saline.

Any fresh water zone or zones within the Uinta formation that has a difference in TDS of greater than 2000 mg/l (as calculated from logs) within the depths of 80' and 2137' will be further protected from any contamination or migration of fluids into or between USDWs when the well is plugged and abandoned; see plug #4.

#### Tubing and Packer Specifications

(Condition 2)

The 2-3/8 inch injection tubing information submitted by the applicant is incorporated into the permit and shall be binding on the permittee. The packer will be set at a depth of approximately 4,725 feet KB, or no more than 100 feet above the top perforations.

#### Monitoring Devices

(Condition 3)

For the purposes of taking tubing and tubing/long string casing annulus pressure measurements, the EPA is requiring that the permittee install 1/2 inch fittings or equivalent quick disconnect fittings, with cut-off valves at the well head on the tubing, and

on the tubing/casing annulus (for attachment of pressure gauges). EPA is further requiring the permittee to install a sampling tap on the line to the injection well and a flow meter that will be used to measure cumulative volumes of injected fluid. The permittee shall be required to maintain these devices in good operating condition.

#### Formation Testing

The permittee is required to determine the injection zone fluid pore pressure (static bottom-hole pressure).

### PART II, Section B CORRECTIVE ACTION

The applicant submitted the required 1/4-mile Area of Review (AOR) information with the permit application. The subject well is the only well within the AOR. This well, drilled and completed as an oil well in 1982, is well cemented (per cement bond log) some 712' above the injection zone in such a manner as to preclude any migration of injected fluids up hole, especially into any Uinta USDW that might be present; therefore, the permittee is not required to take any corrective action.

### PART II, Section C WELL OPERATION

#### Prior To Commencing Injection

(Condition 1)

Injection for the Glen Bench Federal #31-30 will not commence until the permittee has fulfilled all applicable conditions of the permit and has received written authorization from the Director as to the following:

- (1) The permittee has determined the injection zone fluid pore pressure;
- (2) A successfully passed mechanical integrity pressure test (MIT) has been performed and witnessed according to the guidelines discussed in the permit; and
- (3) Submitted a Well Rework Record (EPA Form 7520-12) following conversion.

#### Mechanical Integrity

(Condition 2)

A tubing/casing annulus pressure test must be conducted, at least once every five (5) years (active injection wells) to demonstrate continued tubing, packer, and casing integrity by using an EPA approved method.

Injection Interval

(Condition 3)

Injection will be limited to the gross Glen Bench zone of the Green River Formation, being 4746' to 4764'. The permittee may find it necessary to perforate additional intervals within the above gross interval. These additional perforations may be added later and reported on EPA Form 7520-12.

The **confining zone** above the Glen Bench injection interval consists of 82 feet of shale (4664'-4746'), calcareous in part with an additional 756', or greater, of shales, carbonate mudstones, sandy limestones, and siltstones grading occasionally into thin, isolated, friable to firm sandstones. The remaining 1705', to top of Green River formation, is composed of predominately limestones, shales and siltstones.

Injection Pressure Limitation

(Condition 4)

The face fracture gradient for the injection zone is calculated to be 0.64 psi/ft. This gradient was determined using the breakpoint on the injectivity test performed July 1994 over the Glen Bench zone. Using this value, a theoretical maximum allowable surface injection pressure (Pm), for this well, may be calculated as shown below:

$$P_m = [0.64 - 0.433 (S_g)] d$$

Where: Pm = maximum pressure at wellhead in pounds per square inch

Sg = specific gravity of injected fluid  
1.02 (derived from water analysis)

d = depth to top injection zone = 4748 feet

$$\text{or } P_m = [0.64 - 0.433 (1.02)] 4748 = 942 \text{ psig}$$

Until such time as the permittee demonstrates, through a step-rate injectivity test (SRT), that the fracture is other than 0.64 psig/ft, the Glen Bench Federal #31-30 shall be operated at a surface injection pressure no greater than **942 psig**. Permit provisions have been made that allows the Director to **increase or decrease** the injection pressure based upon the test results and/or other parameters reflecting actual injection operations.

Injection Volume Limitation

(Condition 5)

There is no limitation on the number of barrels of water per day (BWPD) that may be injected into the Glen Bench Federal #31-30, provided that in no case shall injection pressure exceed that limit shown in Part II, Section C. 4., of this permit. Injected fluids shall be limited to that which are identified in 40 CFR § 144.6 (b) (2) as fluids used for enhanced recovery of oil or natural gas.

The permittee shall provide a listing of the sources of injected fluids on an annual basis as required by the permit.

## PART II, Section D MONITORING, RECORDKEEPING AND REPORTING OF RESULTS

### Injection Well Monitoring Program

(Condition 1)

The permittee is required to monitor water quality of the injected fluids at annual intervals for total dissolved solids, Ph, specific conductivity, and specific gravity. Any time there is a change in the source of injection fluid, a new water quality analysis is required.

In addition, weekly observations of flow rate, injection pressure, annulus pressure and cumulative volume will be made. Observation of each will be recorded on a monthly basis.

The permittee shall maintain copies (or originals) of all pertinent records at the office of Chandler & Associates, Inc., 475 17th Street, Suite 1000, Denver, Colorado 80202.

## PART II, Section E PLUGGING AND ABANDONMENT

### Plugging and Abandonment Plan

(Condition 1)

The plugging and abandonment plan submitted by the applicant (Appendix C of the Permit), with revisions by the EPA, consists of four (4) plugs with the following specifications. This plan has been reviewed and approved by the EPA. It is consistent with UIC requirements.

Drop std valve and test 2-3/8" tubing (tbg) to 2000#.

Move in and rig up service unit, release Baker Model "G" packer @ 4700' and POOH with tubing (tbg). Attempt to isolate leaks if tbg did not test in step one. Trip in hole w/mill and 5-1/2" csg scraper, clean out to PBTB @ approximately 5046' using hot water and diesel as necessary to clean out paraffin. POOH LD BHA.

- PLUG #1 PU 5-1/2" tbg and cast iron bridge plug (CIBP), set CIBP at 4740', spot 200' cement plug on top of CIBP.
- PLUG #2 **Mahogany Ledge** estimated at 3140'. Set balanced plug of approximate 30 sacks cement to cover

**Mahogany Ledge zone as required by BLM.** Pull up hole and circulate tbg to ensure tbg is clear.

Pressure test casing to 500 psi, perform cementing as necessary to seal off any casing leaks; if no leaks are determined, proceed with next step.

- PLUG #3 **Top Green River/Base USDW (2285')** - perforate at 2285', set CICR at 2300', squeeze cement between the 5-1/2" liner and the 9-5/8" intermediate casing, leaving approx. 100' of cement covering base of the USDW at 2285'.
- PLUG #4 Isolate USDWs with TDS less than 5500 mg/l, perforate at 1500', set CICR at 1515', squeeze cement leaving approximately 100' of cement inside 5-1/2" production liner.
- PLUG #5 Perforate below surface casing shoe @ 80', circulate cement to surface, POOH leaving 100' cement plug inside 5-1/2" production casing.

Cut off casing 4' below ground level, cap casing and install P&A marker w/well data and reclaim location

## PART II, Section F FINANCIAL RESPONSIBILITY

### Demonstration of Financial Responsibility

(Condition 1)

Chandler has chosen to demonstrate financial responsibility through a Surety Bond in the amount of \$15,000, to cover the cost of plugging and abandoning this well. Chandler has also submitted a Standby Trust Agreement that has been reviewed and approved by the EPA.

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

Form Approved

Budget Bureau No. 1004-8135

AUG 17 1995

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT" for such proposals.

**SUBMIT IN TRIPLICATE**

1. Type of Well

OIL  GAS   
WELL WELL OTHER

2. Name of Operator

**CHANDLER & ASSOCIATES, INC..**

3. Address and Telephone No.

**475 17th Street, Suite #1000  
Denver, CO 80202 (303) 295-0400**

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

**238' FNL & 1802' FEL (NW NE) Sec. 30, T8S R22E**

5. Lease Designation and Serial No.  
**U-9617**

6. If Indian, Allottee or Tribe Name

**N/A**

7. If Unit or CA. Agreement Designation

**UTU 73974A**

8. Well Name and No.

**Glen Bench Fed. #31-30**

9. API Well No.

**43-047-31003**

10. Field and Pool, or Exploratory Area

**Glen Bench**

11. County or Parish, State

**Uintah, Utah**

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

TYPE OF SUBMISSION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other
- Change of plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection

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

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

**Plan to Convert Producing Oil Well to Water Injection Well:**

- 1) MIRU, nipple down tree.
- 2) T.I. w/2-7/8" tubing and retrievable packer to 4725'. Circulate packer fluid in tubing annulus, set packer, nipple up tree.
- 3) Establish injection zone (4748'-4753') fluid pore pressure, static bottom hole pressure.
- 4) Test well for Mechanical Integrity (MIT), hook up surface equipment. Wait on EPA approval to start injection.

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

Signed

*Thomas D. Taylor*  
Thomas D. Taylor

Title Production Geologist

Date August 15, 1995

(This space for State office use)

Approved by \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of Approval, if any:



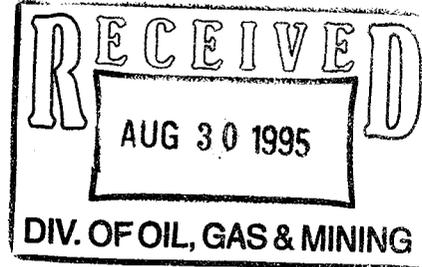
**CHANDLER & ASSOCIATES, INC.**

475 17TH ST. • SUITE 1000 • DENVER, COLORADO 80202 • 303 295-0400

OIL & GAS EXPLORATION AND PRODUCTION

FAX 303 295-0222

August 24, 1995



State Of Utah  
Division Of Oil, Gas And Mining  
3 Triad Center, Suite #350.  
Salt lake City, Utah 84180-1203  
Attn: Mr. Dan Jarvis

**RE: Glen Bench Fed. #31-30  
NW NE, Section 30, T8S, R22E  
Unitah County, Utah**

Dear Mr. Jarvis:

I am enclosing, in triplicate, Sundry form OGC-1B, declaring Chandler and Associates, Inc. intent to convert the above mentioned well to injection. Also, enclosed with this letter is the current well bore diagram for the #31-30, along with pertinent well bore data and cement bond logs for the two off setting logs (wells # 44-19 and #22-30). Both offsetting wells are currently shut-in. In addition I have also include the UIC - Final Permit and Statement of Basis.

Currently, the only modification to the well conversion plan is to utilize the existing 2-7/8" tubing if at all possible. The tubing packer will be set no more than 100' above the perf's (4748'-4753'). Prior to injection a Mechanical Integrity Test (MIT) will be preformed.

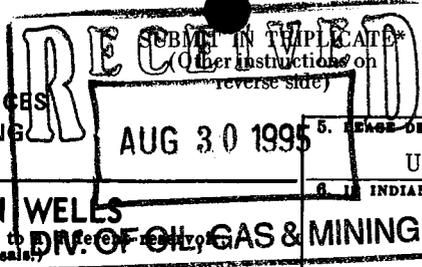
Injection pressure limitation has been determined to be 942 psig (see condition 4, Section C, Part II). The well will be monitored daily and water quality of the injected fluids will be tested annually.

If you can not find the data to answer any of your specific questions, or need any additional data or information, please feel free to call me at (303) 295-0400.

Sincerely,

Thomas D. Taylor  
Production Geologist

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



5. LEASE DESIGNATION AND SERIAL NO. U-9617  
6. INDIAN ALLOTTEE OR TRIBE NAME

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to the surface. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME UTU 73974A	
2. NAME OF OPERATOR Chandler and Associates, Inc.		8. FARM OR LEASE NAME	
3. ADDRESS OF OPERATOR 475 17th Street Suite 1000		9. WELL NO. Glen Bench #31-30	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  238' FNL and 1802' FEL (NWNE) Section 30		10. FIELD AND POOL, OR WILDCAT	
14. PERMIT NO. 43-047-31008		15. ELEVATIONS (Show whether DF, RT, GR, etc.)	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 30, T8S R22E	12. COUNTY OR PARISH Unitah
			13. STATE UT

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) Convert to injection

(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.)\*

Plan to Convert Producing Oil Well to Water Injection Well:

- 1) MIRU, Nipple down tree
- 2) T.I. w/2-7/8" tubing and retrievable packer to 4725', Circ. packer fluid in tubing annulus, set packer, nipple up tree.
- 3) Establish injection zone (4748'-4753') fluid pore pressure, static bottom hole pressure.
- 4) Test well for Mechanical Integrity (MIT), hook up surface equipment. WO approval to start injection.

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

SIGNED Thomas D. Taylor TITLE Production Geologist DATE 8/28/95  
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

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

**RECEIVED**

AUG 30 1995

DIVISION OF OIL, GAS & MINING

<p><b>SUNDRY NOTICES AND REPORTS ON WELLS</b></p> <p><small>(Do not use this form for proposals to drill or to deepen or plug back a well. Use "APPLICATION FOR PERMIT—" for such proposals.)</small></p>		<p>DESIGNATION AND SERIAL NO. U-9617</p> <p>IF INDIAN, ALLOTTEE OR TRIBE NAME</p>
<p>1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></p> <p>2. NAME OF OPERATOR Chandler and Associates, Inc.</p> <p>3. ADDRESS OF OPERATOR 475 17th Street Suite 1000</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  238' FNL and 1802' FEL (NWNE) Section 30</p>	<p>7. UNIT AGREEMENT NAME UTU 73974A</p> <p>8. FARM OR LEASE NAME</p> <p>9. WELL NO. Glen Bench #31-30</p> <p>10. FIELD AND POOL, OR WILDCAT</p> <p>11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Sec. 30, T8S R22E</p> <p>12. COUNTY OR PARISH Unitah</p> <p>13. STATE UT</p>	
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, NT, OR, etc.)	

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"/>	FULL 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) Convert to injection <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.)\*

Plan to Convert Producing Oil Well to Water Injection Well:

- 1) MIRU, Nipple down tree
- 2) T.I. w/2-7/8" tubing and retrievable packer to 4725', Circ. packer fluid in tubing annulus, set packer, nipple up tree.
- 3) Establish injection zone (4748'-4753') fluid pore pressure, static bottom hole pressure.
- 4) Test well for Mechanical Integrity (MIT), hook up surface equipment. WO approval to start injection.

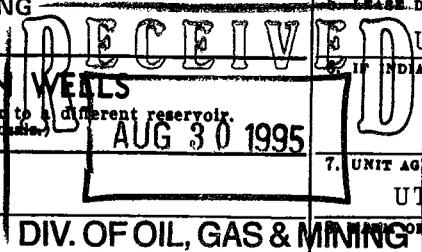
18. I hereby certify that the foregoing is true and correct

SIGNED Thomas D. Taylor TITLE Production Geologist DATE 8/28/95  
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

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

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)



<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> <small>(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.)</small>		LEASE DESIGNATION AND SERIAL NO. -9617 IF INDIAN, ALLOTTEE OR TRIBE NAME
1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. UNIT AGREEMENT NAME UTU 73974A	
2. NAME OF OPERATOR Chandler and Associates, Inc.		NAME OF LEASE NAME
3. ADDRESS OF OPERATOR 475 17th Street Suite 1000		9. WELL NO. Glen Bench #31-30
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  238' FNL and 1802' FEL (NWNE) Section 30		10. FIELD AND POOL, OR WILDCAT  11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA Sec. 30, T8S R22E
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY OR PARISH   13. STATE Uintah   UT

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) Convert to injection

(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.)\*

Plan to Convert Producing Oil Well to Water Injection Well:

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- 3) Establish injection zone (4748'-4753') fluid pore pressure, static bottom hole pressure.
- 4) Test well for Mechanical Integrity (MIT), hook up surface equipment. WO approval to start injection.

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

SIGNED Thomas D. Taylor TITLE Production Geologist DATE 8/28/95

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

# Current Conversion Construction

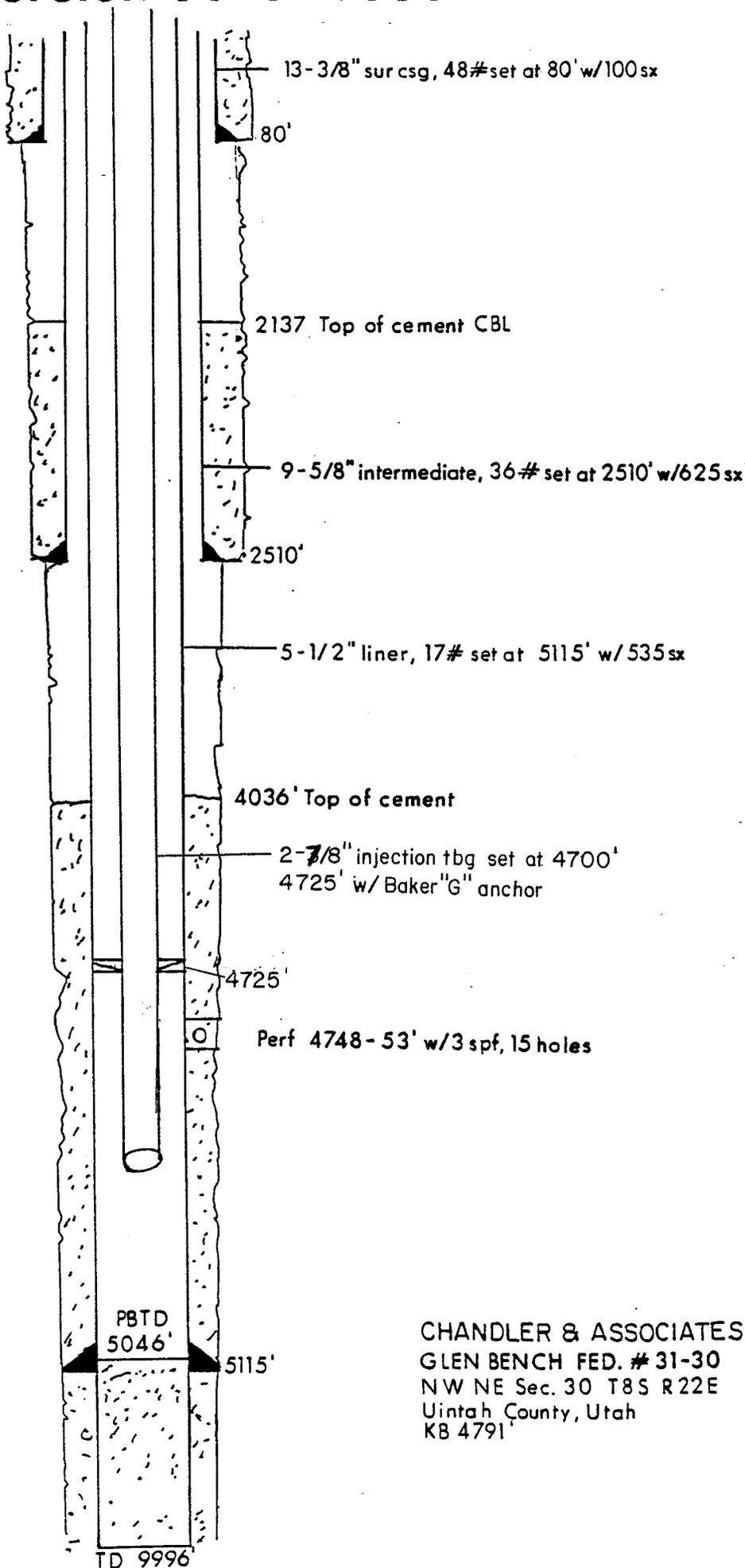
UINTA-surface- 2285'  
est. base USDW 2285'

GREEN RIVER 2285'-5470'

Injection zone  
GLEN BENCH ZONE  
4746-64'

TGr lime 5308'  
WASATCH 5470'- 8410'

MESAVERDE 8410'



CHANDLER & ASSOCIATES  
GLEN BENCH FED. # 31-30  
NW NE Sec. 30 T8S R22E  
Uintah County, Utah  
KB 4791'



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

Michael O. Leavitt  
Governor  
Ted Stewart  
Executive Director  
James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

September 21, 1995

Newspaper Agency Corporation  
Legal Advertising  
Tribune Building, Front Counter  
143 South Main  
Salt Lake City, Utah 84111

Re: Notice of Agency Action - Cause No. UIC-164

Gentlemen:

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 "Lisha Cordova".

Lisha Cordova  
Administrative Analyst

Enclosure





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

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

September 21, 1995

Vernal Express  
P. O. Box 1000  
54 North Vernal Avenue  
Vernal, Utah 84078

Re: Notice of Agency Action - Cause No. UIC-164

Gentlemen:

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 "Lisha Cordova".

Lisha Cordova  
Administrative Analyst

Enclosure



**Chandler & Associates, Inc.  
Federal 31-30 and 12-16 Wells  
Cause No. UIC-164**

Publication Notices were sent to the following:

Newspaper Agency Corporation  
Legal Advertising  
Tribune Building, Front Counter  
143 South Main  
Salt Lake City, Utah 84111

Vernal Express  
P. O. Box 1000  
54 North Vernal Avenue  
Vernal, Utah 84078

Bureau of Land Management  
170 South 500 East  
Vernal, Utah 84078

Chandler & Associates, Inc.  
475 17th Street, Suite 1000  
Denver, Colorado 80202

U.S. Environmental Protection Agency  
Region VIII  
Attn. Tom Pike  
999 18th Street  
Denver, Colorado 80202-2466



---

Lisha Cordova  
Administrative Analyst  
September 21, 1995

PROOF OF PUBLICATION

611  
FYF

STATE OF UTAH,

} ss.

County of Uintah

I, Melanie Morrison,  
being duly sworn, depose and say, that I  
am the Business Manager of The Vernal  
Express, a weekly newspaper of general  
circulation, published each week at Vernal,  
Utah, that the notice attached hereto was  
published in said newspaper

for 1 publications,

the first publication having been made on

the 27th day of September, 1995 and the

last on the 27th day of September, 1995,

that

said notice was published in the regular  
and entire issue of every number of the  
paper during the period and times of  
publication, and the same was published in  
the newspaper proper and not in a  
supplement.

By *Melanie Morrison*  
Manager

Subscribed and sworn to before me, this  
27th day of September A.D. 1995.

*Jack R. Stiles*  
Notary Public, Residence, Vernal, Utah



**NOTICE OF  
AGENCY ACTION  
CAUSE NO.**

**UIC-164**

**BEFORE THE  
DIVISION OF  
OIL, GAS AND  
MINING**

**DEPARTMENT  
OF NATURAL  
RESOURCES**

**STATE OF UTAH**

**IN THE MATTER OF  
THE APPLICATION OF  
CHANDLER & ASSO-  
CIATES, INC. FOR AD-  
MINISTRATIVE AP-  
PROVAL OF THE FED-  
ERAL 31-30 AND FED-  
ERAL 12-16 WELLS  
LOCATED IN SEC-  
TIONS 30 AND 16,  
TOWNSHIP 8 SOUTH,  
RANGE 22 EAST,  
S.L.M., UINTAH  
COUNTY, UTAH AS  
CLASS II INJECTION  
WELLS.**

**THE STATE OF UTAH  
TO ALL PERSONS IN-  
TERESTED IN THE  
ABOVE ENTITLED  
MATTER.**

Notice is hereby given  
that the division is com-  
mencing an informal ad-  
judicative proceeding to  
consider the application  
of Chandler & Associ-  
ates, Inc. for administra-  
tive approval of the Fed-  
eral 31-30 and Federal  
12-16 wells, located in  
Sections 30 and 16,  
Township 8 South, Range

22 East, Uintah County,  
Utah, for conversion to  
Class II injection wells.  
The proceeding will be  
conducted in accordance  
with Utah Admin. R.649-  
10, Administrative Proce-  
dures.

The interval from 4746  
feet to 4764 feet (Glen  
Bench Zone of the Green  
River Formation) will be  
selectively perforated for  
water injection. The max-  
imum requested injection  
pressure will be limited to  
942 psig.

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 following publica-  
tion of this notice. If such  
a protest or notice of in-  
tervention is received, a  
hearing will be scheduled  
before the Board of Oil,  
Gas and Mining. Protes-  
tants and/or intervenors  
should be prepared to  
demonstrate at the hear-  
ing how this matter af-  
fects their interests.

DATED this 21st day  
of September, 1995.

STATE OF UTAH  
DIVISION OF OIL,  
GAS AND MINING  
R. J. Firth  
Associate Director, Oil  
& Gas

Published in the Vernal  
Express Sept. 27, 1995.

DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM

PERMIT  
STATEMENT OF BASIS

**Applicant:** Chandler and Associates      **Well:** Federal 31-30 and 12-16

**Location:** Glen Bench Unit, Uintah County

**Ownership Issues:** The proposed wells are located in sections 30 and 16, township 8 south, range 22 east, Uintah, County, Utah. The surface and minerals within a 1/2 mile of the well is owned by the federal government.

**Well Integrity:** The wells proposed for injection are the federal 31-30 and the Federal 12-16. The 31-30 well has a 13 3/8" surface casing at 80 feet and is cemented to surface. A 8 5/8" intermediate casing is set at 2510 feet and has a cement top at 2137 feet. A 5 1/2 " longstring is set at 5115 feet and has a cement top at 4036 feet. The Federal 12-16 well has an 8 5/8 " surface casing set at 392 feet and is cemented to surface. A 5 1/2 " production casing is set at 5796 and has a cement top at approximately 1600 feet. The injection interval is from 4748-4753 feet (Glen Bench Zone of the Green River Formation). A 2 7/8" tubing will be set in a packer no higher than 50 feet above the perforations. This construction should adequately protect all USDW's. There is 4 producing wells and 1 plugged and abandoned well in the 1/2 mile area of review. These wells have sufficient cement behind the longstring and has adequate surface casing to prevent any migration of fluid up the hole. The abandoned well has adequate plugs to prevent migration of fluid up the hole. A casing test should be performed at the time of conversion and a casing/tubing pressure test should be performed prior to injection.

**Ground Water Protection:** The base of moderately saline water is at a depth of approximately 1166 feet located in the Uinta Formation in the area of the project. Any shallow fresh water zones will be adequately protected by existing constructions. The average fracture gradient for the field is .64 psi/ft. which calculates to a surface pressure of 942 psi. No corrective action is needed on the proposed well or any of the wells in the area of review.

**Oil/Gas & Other Mineral Resources Protection:** The project (Glen Bench Unit) has been approved by the board. Injection into these wells should have no adverse effects on any offsetting production outside the unit area.

**Bonding:** All the wells in the unit are operated by Chandler and are covered by a federal bond.

page 2  
Chandler and Assoc.

**Actions Taken and Further Approvals Needed:** A public notice for the wells has been published in both the Salt Lake Tribune and the Uinta Basin Standard. Administrative approval can be granted for the injection wells after a 15 day comment period if no objections are received. An MIT needs to be conducted prior to injection. The applications submitted by Chandler meet the minimum requirements of the rules. Information submitted by Chandler for approval of the waterflood unit was used to make permit decisions. The wells have been approved by the U.S.E.P.A.

DJJ  
Reviewers

09-25-95  
Date

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

---ooOoo---

IN THE MATTER OF THE APPLICATION	:	
OF CHANDLER & ASSOCIATES, INC.	:	NOTICE OF AGENCY ACTION
FOR ADMINISTRATIVE APPROVAL	:	
OF THE FEDERAL 31-30 AND FEDERAL	:	CAUSE NO. UIC-164
12-16 WELLS LOCATED IN SECTIONS 30	:	
AND 16, TOWNSHIP 8 SOUTH, RANGE 22	:	
EAST, S.L.M., UINTAH 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 Chandler & Associates, Inc. for administrative approval of the Federal 31-30 and Federal 12-16 wells, located in Sections 30 and 16, Township 8 South, Range 22 East, Uintah 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 4746 feet to 4764 feet (Glen Bench Zone of the Green River Formation) will be selectively perforated for water injection. The maximum requested injection pressure will be limited to 942 psig.

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 following publication of this notice. If such a protest or notice of intervention is received, a hearing will 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 21st day of September, 1995.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

  
\_\_\_\_\_  
R. J. Firth  
Associate Director, Oil & Gas



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

Michael O. Leavitt  
Governor  
Ted Stewart  
Executive Director  
James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

October 24, 1995

Chandler and Associates Inc.  
475 17th St., Suite 100  
Denver, Colorado 80202

Re: Federal 31-30 and 12-16 Wells, Sections 30 and 16, Township 8 South, Range 22  
East, Uintah County, Utah

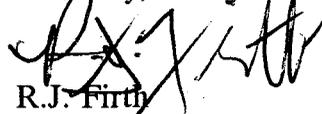
Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced wells to Class II injection wells. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Chandler and Associates Inc..

If you have any questions regarding this approval or the necessary requirements, please contact Dan Jarvis at this office.

Sincerely,



R.J. Firth  
Associate Director

cc: Debra G. Ehlert, Environmental Protection Agency  
Bureau of Land Management, Vernal





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)

UNDERGROUND INJECTION CONTROL PERMIT

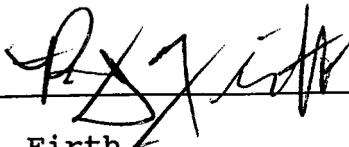
Cause No. UIC-164

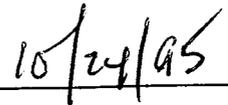
**Operator:** Chandler and Associates, Inc.  
**Wells:** Federal 31-30 and Federal 12-16  
**Location:** Sections 30 and 16, Township 8 South, Range 22  
East, Uintah County  
**API No.:** 43-047-31008 and 43-047-32583  
**Well Type:** Enhanced Recovery (waterflood)

Stipulations of Permit Approval

1. Approval for conversion to injection well issued on October 24, 1995.
2. Maximum Allowable Injection Pressure: 942 psig.
3. Maximum Allowable Injection Rate: limited by pressure.
4. Injection Interval: 4,746 feet to 4,764 feet (Glen Bench Zone of the Green River Formation).

Approved by:

  
R.J. Firth  
Associate Director, Oil and Gas

  
Date



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

MAR 18 1996

<p><b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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.)</p>		5. LEASE DESIGNATION & SERIAL NO.
1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>WIW</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR <u>CHANDLER &amp; ASSOCIATES, INC.</u>		7. UNIT AGREEMENT NAME <u>UTU 73974X</u>
3. ADDRESS OF OPERATOR <u>475 17TH STREET SUITE #1000</u>		8. FARM OR LEASE NAME <u>GLEN BENCH</u>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface  At proposed prod. zone <u>238' FNL &amp; 1802' FEL (NWNE)</u>		9. WELL NO. <u>#31-30</u>
14. API NO. <u>43-047-31008</u>		10. FIELD AND POOL, OR WILDCAT <u>GLEN BENCH</u>
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <u>4791' KB</u>		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <u>SEC. 30, T8S R22E</u>
		12. COUNTY <u>UINTAH</u>
		13. STATE <u>UT</u>

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 checked="" 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) <u>RETURN TO PRODUCTION</u>	
(Other) _____		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	
APPROX. DATE WORK WILL START _____		DATE OF COMPLETION <u>3/1/96</u>	

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.)

\* Must be accompanied by a cement verification report.

2/23/96 MIRU, BJ Services frac well using 35# X-linked 2% KCl system:  
 Pump 107 bbls. PAD,  
 Frac w/ 41,000# 16/30 SAND, 407 bbl.  
 Average rate: 20 BPM  
 Average pressure: 2600#, Max press. 3200#, ISIP 2200#

2/24-29/96 Swab well; recover load

3/01/96 MIRU pumping unit, return well to production

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

SIGNED [Signature] TITLE PRODUCTION GEOLOGIST DATE 3/14/96

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

MAP 10096

1. LEASE DESIGNATION & SERIAL NO.  
2. IF INDIAN, ALLOTTEE OR TRIBE NAME  
3. UNIT AGREEMENT NAME  
4. FARM OR LEASE NAME  
5. WELL NO.  
6. FIELD AND POOL, OR WILDCAT  
7. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
8. COUNTY  
9. STATE

**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  GAS WELL  OTHER

2. NAME OF OPERATOR  
CHANDLER & ASSOCIATES, INC.

3. ADDRESS OF OPERATOR  
475 17TH STREET SUITE #1000

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface  
At proposed prod. zone 238' FNL & 1802' FEL (NWNE)

14. API NO. 43-047-31008  
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4791' KB

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 (Other) <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>CONVERSION TO WIW</u> <input type="checkbox"/>	

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

APPROX. DATE WORK WILL START \_\_\_\_\_ DATE OF COMPLETION \_\_\_\_\_

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.)

\* Must be accompanied by a cement verification report.

GLEN BENCH #31-30 was converted to a water injection well for the GLEN BENCH secondary Recovery Unit, using existing perforations (4748'-4753')

11/01/95 MIRUSU, Unseat pump. Pull rods & pump. RIH w/ Bit and Scaper to 4914'(PBDT)

11/02/95 Set ret. pk. @ 4701'

11/03/95 Circ 100bbls. pkr. fluid down csg. perform MIT.

11/07/95 Start injection @ 12:30 p.m.

ATTACHMENT: EPA well rework record  
MIT

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

SIGNED [Signature] TITLE PRODUCTION GEOLOGIST DATE 3/14/96

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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



## WELL REWORK RECORD

NAME AND ADDRESS OF PERMITTEE Chandler & Associates 475 17TH Street Suite #1000 Denver, Co 80202	NAME AND ADDRESS OF CONTRACTOR B & B Well Service 2700 W 1500 N Vernal, UT 84078 MAR 10 1995
--	---

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES  	STATE UT	COUNTY Uintah	PERMIT NUMBER UT2764-04247
	SURFACE LOCATION DESCRIPTION NW ¼ OF NE ¼ OF ¼ SECTION 30 TOWNSHIP 85 RANGE 22E		
	LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT  Surface Location 238 ft. from (N/S) N Line of quarter section and 1802 ft. from (E/W) E Line of quarter section		
	WELL ACTIVITY <input type="checkbox"/> Brine Disposal <input checked="" type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Hydrocarbon Storage  Lease Name GLEN BENCH FED	Total Depth Before Rework 5115  Total Depth After Rework 5115  Date Rework Commenced 11/1/95  Date Rework Completed 11/6/95	TYPE OF PERMIT <input checked="" type="checkbox"/> Individual <input type="checkbox"/> Area Number of Wells _____  Well Number 31-30

## WELL CASING RECORD — BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	
13 3/8"	80'	100	"6"			
9 5/8"	2510'	625	"6"			
5 1/2"	5115'	535	"6"	4748	4753	Frac with 18,000 pnds sand

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

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

DESCRIBE REWORK OPERATIONS IN DETAIL  
USE ADDITIONAL SHEETS IF NECESSARY

WIRE LINE LOGS. LIST EACH TYPE

Log Types	Logged Intervals
Set Ret pkr @4701' after circ. with pkr fluid. Perform MIT and start injection.	

## CERTIFICATION

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

NAME AND OFFICIAL TITLE (Please type or print) Thomas D. Taylor Production Geologist	SIGNATURE 	DATE SIGNED 2/23/96
--	---------------	------------------------

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NOV 20 1995

NOV 20 1996

# Mechanical Integrity Test Casing or Annulus Pressure Test for Well UT2764-04247

U.S. Environmental Protection Agency  
Underground Injection Control Program, UIC Implementation Section, 8WM-DW  
999 18th Street, Suite 500, Denver, CO 80202-2466  
This form was printed on 04/04/1995.

EPA Witness: \_\_\_\_\_ Date 11/03/95 Time 10:30 (am/pm)

Test conducted by: Jim Simonton - Chandler & Assoc.

Others present: Brent Richardson - B&B Well Service

Chandler & Associates, Inc., Denver, CO	Op ID CHD01
GLEN BENCH FEDERAL 31-30	2R UC as of 03/13/1995
GLEN BENCH	NWNE 30 08S 22E
Indian? Yes, UINTAH-OURAY	Compliance staff: WILLIAMS

Last MIT: \*No record\*\* / / \*

Time (minutes)	Test #1	Test #2	Test #3
0	<u>520</u> psig	_____ psig	_____ psig
5	<u>520</u>	_____	_____
10	<u>520</u>	_____	_____
15	<u>515</u>	_____	_____
20	<u>515</u>	_____	_____
25	<u>515</u>	_____	_____
30	<u>512</u>	_____	_____
35	<u>512</u>	_____	_____
40	<u>510</u>	_____	_____
45	<u>500</u>	_____	_____
50	<u>500</u>	_____	_____
55	<u>500</u>	_____	_____
60	<u>500</u>	_____	_____
Tubing pressure	<u>0</u> psig	_____ psig	_____ psig

Result(circle) Pass Fail                      Pass Fail                      Pass Fail

Signature of EPA Witness: \_\_\_\_\_

*See back of page for any additional comments and compliance followup.*

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

<p><b>SUNDRY NOTICES AND REPORTS ON WELLS</b></p> <p>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</p>		6. Lease Designation and Serial Number  7. Indian Allottee or Tribe Name  8. Unit or Communitization Agreement  9. Well Name and Number  10. API Well Number  11. Field and Pool, or Wildcat
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)		
2. Name of Operator <i>Shenandoah Energy Inc.</i>		
3. Address of Operator <i>475 17th Street, Suite #1000 Denver, Colorado 80202</i>	4. Telephone Number <i>303-295-0400</i>	
5. Location of Well Footage : Please see attached spreadsheet      County : QQ, Sec, T., R., M. :      State :		
<b>12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		

**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>Change of Operator</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.)

*Please be advised that effective 1/1/200 Chandler & Associates, Inc has changed its name to Shenandoah Energy Inc. Shenandoah Energy Inc. is responsible under the terms and conditions of the lease for the operation conducted upon the leased lands. Shenandoah Energy Inc. is bonded in the amount of \$80,000.00 to the School and Inst. Trust Lands via a name change rider filed with the State. Continental Casualty Bond # 159261960.*

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

Name & Signature: Thomas D. Taylor Title Production Geologist Date 05/25/2000

(State Use Only)

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**MAY 30 2000**

**DIVISION OF OIL, GAS AND MINING**

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MAY 30 2000

DIVISION OF  
OIL, GAS AND MINING

SHENANDOAH ENERGY INC.  
UTAH OPERATED WELLS

A.P.I. #	ENTITY	WELL NAME	WELL #	LOCATION	FIELD NAME	PROD. ZONE	FORMATION	WELL TYPE	AGREEMENT
43-015-30168-00	10684	BUZZARD BENCH FED	#6-3	SENW 3, 19S-7E	BUZZARD BENCH	FRSD	FERRON	GW	8910204190
43-015-30229-00	10670	BUZZARD BENCH FED	#3-24	SESW 3, 19S-7E	BUZZARD BENCH	FRSD	FERRON	GW	8910204190
43-015-30110-00	10685	FERRON FED	#16-20	SESE 20, 17S-8E	BUZZARD BENCH	FRSD	FERRON	OW	
43-015-30257-00	11837	FERRON FEDERAL	#7-12-19-7	SWNE 12, 19S-7E	BUZZARD BENCH	FRSD	UPPER FERRON	GW	
43-015-30000-00		FERRON FEDERAL	#16-9-10-7	SESE 9, 19S-7E	FERRON		FERRON	DRG	
43-015-3025300	11836	FERRON STATE	#4-36	SWNW 36, 18S-7E	BUZZARD BENCH	FRSD	FERRON	GW	
43-015-30222-00	11029	ORANGEVILLE FED	#1-11	NENE 11, 19S-7E	BUZZARD BENCH	FRSD	UPPER FERRON	GW	891020388A
43-015-30221-00	10600	ORANGEVILLE FED	#4-1	NWNW 1, 19S-7E	BUZZARD BENCH	FRSD	UPPER FERRON	GW	
43-015-30102-00	10920	ORANGEVILLE ST	#1-36	SESE 36, 18S-7E	BUZZARD BENCH	FRSD	UPPER FERRON	GW	8910203880
43-015-30179-00	00535	ORANGEVILLE STATE	#10-2	NWSE 2, 19S-7E	BUZZARD BENCH	FRSD	LOWER FERRON	GW	891020388A
43-015-30108-00	10978	ORANGEVILLE UNIT	#16-6	SESE 6, 18S-8E	BUZZARD BENCH	FRSD	FERRON	OW	
43-047-33164-00	12496	DESERT SPRING	#16-19-10-18	SESE 19, 10S-18E	DESERT SPRING	GRRV	GREEN RIVER	OW	
43-047-3316200	12523	DESERT SPRING	#3-29-10-18	NWNE 29, 10S-18E	DESERT SPRING	GRRV	GREEN RIVER	OW	
43-047-32493-00	11630	E COYOTE FEDERAL	#14-4-8-25	SESW 4, 8S-25E	EAST COYOTE FEDERAL	GRRV	GREENRIVER	OW	
43-047-31555-00	09497	ANTELOPE DRAW	#2-17-4C	SESW 17, 8S-22E	GLEN BENCH	GRRV	GREENRIVER	OW	UTU73974X
43-047-31556-00	09498	ANTELOPE DRAW	#3-17-3C	SESE 17, 8S-22E	GLEN BENCH	GRRV	GREENRIVER	OW	UTU73974X
43-047-32476-00	11862	GLEN BENCH	#8-19	SENE 19, 8S-22E	GLEN BENCH	GRRV	GREENRIVER	OW	UTU73974X
43-047-31257-00	11587	GLEN BENCH FED	#44-19	L 20 19, 8S-22W	GLEN BENCH	GRRV	GREEN RIVER	OW	UTU73974X
43-047-31355-00	11588	GLEN BENCH FED	#13-20	NWSW 20, 8S-22E	GLEN BENCH	GRRV	GREENRIVER	OW	UTU73974X
43-047-31356-00	06135	GLEN BENCH FED	#22-20	SENW 20, 8S-22E	GLEN BENCH		GREEN RIVER	WIW	UTU73974X
43-047-31433-00	06196	GLEN BENCH FED	#31-20	NWNE 20, 8S-22E	GLEN BENCH	GRRV	GREENRIVER	OW	UTU73974X
43-047-31008-00	06045	GLEN BENCH FED	#31-30	L 6 30, 8S-22E	GLEN BENCH	GRRV	GREEN RIVER	OW	UTU73974X
43-047-31260-00	06050	GLEN BENCH FED	#22-30	SENW 30, 8S-22E	GLEN BENCH	GRRV	GREEN RIVER	OW	UTU73974X
43-047-32549-00	11716	GLEN BENCH STATE	#6-16	SENW 16, 8S-22E	GLEN BENCH	GRRV	GREENRIVER	OW	UTU73974X
43-047-32582-00	11716	GLEN BENCH STATE	#7-16	SENE 16, 8S-22E	GLEN BENCH		GREENRIVER	WIW	UTU73974X
43-047-32583-00	11732	GLEN BENCH STATE	#12-16	NWSW 16, 8S-22E	GLEN BENCH		GREENRIVER	WIW	UTU73974X
43-047-32756-00	11955	GLEN BENCH UNIT	#15-19-8-22	SWSE 19, 8S-22E	GLEN BENCH		GREEN RIVER	WIW	UTU73974X
43-047-32755-00	12014	GLEN BENCH UNIT	#4-30-8-22	NWNW 30, 8S-22E	GLEN BENCH	GRRV	GREEN RIVER	OW	UTU73974X
43-047-32857-00	12219	GLEN BENCH UNIT	#11-16-8-22	NESW 16, 8S-22E	GLEN BENCH	GRGBS	GREEN RIVER	OW	UTU73974X
43-013-3147700	12248	UTD WALTON	#26-03	NENW 26, 9S-16E	MONUMENT BUTTE	GRRV	GREEN RIVER	OW	
43-047-33252-00	12527	GLEN BENCH STATE	#2-36-8-21	NENW 36, 8S-21E	NATURAL BUTTES	WSTC	WASATCH	GW	
43-047-33037-00	12377	GLEN BENCH STATE	#8A-36-8-21	SWNE 36, 8S-21E	NATURAL BUTTES	WSTC	WASATCH	GW	
43-047-33038-00	12378	GLEN BENCH STATE	#6-36-8-21	SENW 36, 8S-21E	NATURAL BUTTES	WSTC	WASATCH	GW	
43-047-32746-00	11944	SAGE GROUSE FEDERAL	#6-14-8-22	SENW 14, 8S-22E	NATURAL BUTTES	GRRV	GREEN RIVER	GW	
43-047-32724-00	12361	SAGE GROUSE FEDERAL	#8-36-8-21	SENE 36, 8S-21E	NATURAL BUTTES	GRRV	GREEN RIVER	GW	
43-047-3309500	12528	WHITE RIVER UNIT	#13-35-8-22	SWSW 35, 8S-22E	NATURAL BUTTES	WSTC	WASATCH	GW	891003509B
43-047-3306100	12528	WHITE RIVER UNIT	#15-35-8-22	SWSE 35, 8S-22E	NATURAL BUTTES	WSTC	WASATCH	GW	891003509B
43-047-3275400	12003	FLU KNOLLS FED.	#23-3	NESW 3, 10S-18E	UTELAND BUTTE	GRRV	GREEN RIVER	OW	
43-047-15083-00	04915	WHITE RIVER UNIT	#19-9	SWNE 9, 8S-22E	WHITE RIVER		GREENRIVER	WIW	891003509D
43-047-15080-00	04915	WRU	#15-9	NESE 9, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	891003509D
43-047-15085-00	04915	WRU	#24-10	NESW 10, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	891003509D
43-047-15086-00	04915	WRU	#27-10	SWNE 10, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	891003509D
43-047-31561-00	10000	WRU	#47-10	L1 10, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	

SHENANDOAH ENERGY INC.  
UTAH OPERATED WELLS

A.P.I. #	ENTITY	WELL NAME	WELL #	LOCATION	FIELD NAME	PROD. ZONE	FORMATION	WELL TYPE	AGREEMENT
43-047-15090-00	04915	WRU	#31-4	SWSE 4, 8S-22E	WHITE RIVER		GREENRIVER	WSW	8910035090
43-047-15081-00	04915	WRU	#16-9	SWSE 9, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	891003509D
43-047-15084-00	04915	WRU	#20-9	NESW 9, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	891003509D
43-047-15087-00	04915	WRU	#25-9	NENE 9, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	891003509D
43-047-31354-00	05170	WRU	#43-16	NENW 16, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	
43-047-31399-00	09915	WRU	#45-16	NENE 16, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	
43-047-32052-00	11468	DESERT SPRINGS FED.	#20-1	NESW 20, 10S-18E	WILDCAT	GRRV	GREEN RIVER	OW	
43-013-32088-00	12497	W. DESERT SPRING	#11-20	NESW 20, 10S-17E	WILDCAT	WSTC	WASATCH	OW	
43-013-32057-00	12497	W. RIVER BEND	#16-17-10-17	SESE 17, 10S-17E	WILDCAT	GRRV	GREEN RIVER	OW	
43-013-31888-00	12497	W. RIVER BEND	#3-12-10-15	NENW 12, 10S-15E	WILDCAT	GRRV	GREEN RIVER	OW	
43-013-32084-00	12497	WILKIN RIDGE	#13-23	SWSW 23, 10S-16E	WILDCAT	WSTC	GREEN RIVER	OW	
43-047-33163-00		DESERT SPRING	#7-30-10-18	SWNE 30, T10S-R18E	APD	WSTC			

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MAY 30 2000

DIVISION OF  
OIL, GAS AND MINING



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

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

In Reply Refer To:  
3100  
U-058 et al  
(UT-932)

JUN 5 2000

### NOTICE

Shenandoah Operating Company, LLC : Oil and Gas Leases  
475 17<sup>th</sup> Street, Suite 1000 :  
Denver, CO 80202 :

#### Name Change Recognized

Acceptable evidence has been received in this office concerning the change of name of Chandler & Associates, LLC to Shenandoah Operating Company, LLC on Federal oil and gas leases.

The oil and gas lease files identified on the enclosed exhibit have been noted as to the name change. The exhibit was compiled from a list of leases obtained from our automated records system. We have not abstracted the lease files to determine if the entity affected by the name change holds an interest in the leases identified nor have we attempted to identify leases where the entity is the operator on the ground maintaining no vested record title or operating rights interests. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the name change by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

A rider to statewide Surety Bond No. 124 29 03 64 (BLM Bond No. UT0969) changing the name on the bond from Chandler & Associates, LLC to Shenandoah Energy Inc. has been accepted by this office effective January 26, 2000. However, the rider makes no mention of Shenandoah Operating Company, LLC. A rider to the above bond adding the name of Shenandoah Operating Company, LLC needs to be submitted to this office.

**/s/ Robert Lopez**

Robert Lopez  
Chief, Branch of  
Minerals Adjudication

Enclosure  
Exhibit of Leases

**RECEIVED**

JUN 06 2000

DIVISION OF  
OIL, GAS AND MINING



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

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

N REPLY REFER TO  
UT-931

August 24, 2000

Attn: Scott M. Webb  
Shenandoah Energy Inc.  
465 17<sup>th</sup> Street, Suite 1000  
Denver, Colorado 80202

Re: Glen Bench Unit  
Uintah County, Utah

Gentlemen:

On August 24, 2000, we received an indenture dated August 18, 2000, whereby Shenandoah Operating Company, L.L.C. resigned as Unit Operator and Shenandoah Energy Inc. was designated as Successor Unit Operator for the Glen Bench Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective August 24, 2000. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Glen Bench Unit Agreement.

Your statewide (Utah) oil and gas bond No. 0969 will be used to cover all operations within the Glen Bench Unit.

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

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks  
Chief, Branch of Fluid Minerals

Enclosure

bcc: Field Manager - Vernal (w/enclosure)  
Division of Oil, Gas & Mining  
Minerals Adjudication Group U-932  
File - Glen Bench Unit (w/enclosure)  
MMS - Data Management Division  
Agr. Sec. Chron  
Fluid Chron

UT931:TAThompson:tt:8/24/00

## Results of query for MMS Account Number UTU73974X

API Number	Operator	Well Name	Well Status	Lease or CA Number	Inspection Item	Township	Range	Section	Qu
4304731008	CHANDLER & ASSOCIATES LLC	31-30 GLEN BENCH	POW	UTU9617	UTU73974X	8S	22E	30	NW
4304731257	CHANDLER & ASSOCIATES LLC	44-19 GLENBENCH	ABD	UTU9617	UTU73974X	8S	22E	19	SE
4304731260	CHANDLER & ASSOCIATES LLC	22-30 BENCH GLEN	TA	UTU9617	UTU73974X	8S	22E	30	SE
4	CHANDLER & ASSOCIATES LLC	<del>49-16 WHITE RIVER</del>	<del>POW</del>	<del>STATE</del>	<del>UTU73974X</del>	<del>8S</del>	<del>22E</del>	<del>16</del>	<del>NE</del>
4304731355	CHANDLER & ASSOCIATES LLC	13-20 NGC	POW	UTU9617	UTU73974X	8S	22E	20	NW
4304731356	CHANDLER & ASSOCIATES LLC	22-20 NGC	WIW	UTU69001	UTU73974X	8S	22E	20	SE
4304731399	CHANDLER & ASSOCIATES LLC	45-16 WHITE RIVER	POW	STATE	UTU73974X	8S	22E	16	NE
4304731433	CHANDLER & ASSOCIATES LLC	31-20 FEDERAL	POW	UTU69001	UTU73974X	8S	22E	20	NW
4304731555	CHANDLER & ASSOCIATES LLC	2-17-4C ANTELOPE	POW	UTU65276	UTU73974X	8S	22E	17	SE
4304731556	CHANDLER & ASSOCIATES LLC	3-17-3C ANTELOPE	POW	UTU65276	UTU73974X	8S	22E	17	SE
	CHANDLER								

4304732476	& ASSOCIATES LLC	GLEN BENCH 8-19	POW	UTU65404	UTU73974X	8S	22E	19	SEI
4304732549	CHANDLER & ASSOCIATES LLC	GLEN BENCH 6-16	POW	STATE	UTU73974X	8S	22E	16	SEI
4304732582	CHANDLER & ASSOCIATES LLC	GLEN BENCH 7-16	WIW	STATE	UTU73974X	8S	22E	16	SW
4304732583	CHANDLER & ASSOCIATES LLC	GLEN BENCH 12-16	WIW	STATE	UTU73974X	8S	22E	16	NW
4304732718	CHANDLER & ASSOCIATES LLC	GLEN BENCH 8-17	P+A	UTU65276	UTU73974X	8S	22E	17	SEI
4304732755	CHANDLER & ASSOCIATES LLC	4-30-8-22	POW	UTU9617	UTU73974X	8S	22E	30	NW
4304732756	CHANDLER & ASSOCIATES LLC	GLEN BENCH 15-19	<del>POW</del> WIW	UTU9617	UTU73974X	8S	22E	19	SW
4304732857	CHANDLER & ASSOCIATES LLC	GLEN B 11-16-8-22	POW	STATE	UTU73974X	8S	22E	16	NE

*DISCLAIMER for online data: No warranty is made by the BLM for use of the data for purposes not intended by the BLM.*



3. The new company has been checked through the **Department of Commerce, Division of Corporations Database on:** 11/02/2000
4. Is the new operator registered in the State of Utah: YES Business Number: 1467732-0143
5. If **NO**, the operator was contacted on: \_\_\_\_\_
6. **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: 06/05/2000
7. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: 08/24/2000
8. **Federal and Indian Communization Agreements ("CA"):** The BLM or the BIA has approved the operator change for all wells listed involved in a CA on: N/A
9. **Underground Injection Control ("UIC") Pro:** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

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**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database on:** 11/02/2000
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 11/02/2000
3. Bond information entered in RBDMS on: \_\_\_\_\_
4. Fee wells attached to bond in RBDMS on: \_\_\_\_\_

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**STATE BOND VERIFICATION:**

1. State well(s) covered by Bond No.: 159261960

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**FEE WELLS - BOND VERIFICATION/LEASE INTEREST OWNER NOTIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed has furnished a bond: N/A
2. The **FORMER** operator has requested a release of liability from their bond on: N/A  
The Division sent response by letter on: N/A
3. (R649-2-10) The **FORMER** operator of the Fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

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**FILMING:**

1. All attachments to this form have been **MICROFILMED** on: 3.2.01

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**FILING:**

1. **ORIGINALS/COPIES** of all attachments pertaining to each individual well have been filled in each well file on: \_\_\_\_\_

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**COMMENTS:**

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May 28, 2003

Division of Oil, Gas, & Mining  
1594 West North Temple, Suite 1210  
P. O. Box 145801  
Salt Lake City, Utah 84114-5801

Attention: John Baza/Jim Thompson

Gentlemen:

This will serve as notice that through the internal corporate changes described below, activities formerly conducted in the name of either Shenandoah Operating Company, LLC (SOC) and/or Shenandoah Energy, Inc. (SEI) will hereafter be conducted in the name of QEP Uinta Basin, Inc.: i) the Shenandoah entities were purchased in July, 2001 by Questar Market Resources, Inc., which is a mid-level holding company for the non-utility businesses of Questar Corporation, ii) Shenandoah Operating Company, LLC has now been merged into Shenandoah Energy, Inc. (SEI), iii) Shenandoah Energy, Inc. has now been re-named **QEP Uinta Basin, Inc.** pursuant to a State of Delaware Amended and Restated Certificate of Incorporation, iv) the same employees will continue to be responsible for operations of the former SOC and SEI properties, both in the field and in the office. Accordingly, the change involves only an internal corporate name change and no third party change of operator is involved. Please alter your records to reflect the entity name change. Attached is a spreadsheet listing all wells affected by this change.

Should you have any questions, please call me at 303 - 308-3056.

Yours truly,

Frank Nielsen  
Division Landman

Enclosure

RECEIVED

JUN 02 2003

DIV. OF OIL, GAS & MINING

well_name	Sec	T	R	api	Entity	Lease Type	type	stat	
ANTELOPE DRAW 2-17-4C	17	080S	220E	4304731555	13727	Federal	OW	P	
ANTELOPE DRAW 3-17-3C	17	080S	220E	4304731556	13727	Federal	OW	S	
FED 31-20	20	080S	220E	4304731433	13727	Federal	OW	P	
GLEN BENCH 31-30	30	080S	220E	4304731008	13727	Federal	OW	P	
GLEN BENCH 4-30-8-22	30	080S	220E	4304732755	13727	Federal	OW	TA	
GLEN BENCH 8-19	19	080S	220E	4304732476	13727	Federal	OW	P	
NGC 13-20	20	080S	220E	4304731355	13727	Federal	OW	P	
WHITE RIVER U 16-9	09	080S	220E	4304715081	4915	Federal	OW	S	
GLEN BENCH U 11-16-8-22	16	080S	220E	4304732857	13727	State	OW	P	
WHITE RIVER U 43-16	16	080S	220E	4304731354	5170	State	OW	P	
WHITE RIVER U 45-16	16	080S	220E	4304731399	13727	State	OW	P	
GLEN BENCH FED 22-20	20	080S	220E	4304731356	13727	Federal	WI	A	
GLEN BENCH U 15-19-8-22	19	080S	220E	4304732756	13727	Federal	WI	A	
GLEN BENCH ST 12-16	16	080S	220E	4304732583	13727	State	WI	A	
GLEN BENCH ST 6-16	16	080S	220E	4304732549	13727	State	WI	A	
GLEN BENCH ST 7-16	16	080S	220E	4304732582	13727	State	WI	A	



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

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

IN REPLY REFER TO  
UT-922

June 9, 2003

QEP Uinta Basin, Inc.  
1050 17<sup>th</sup> Street, Suite 500  
Denver, Colorado 80265

Re: Glen Bench Enhanced Recovery Unit  
Uintah County, Utah

Gentlemen:

On May 30, 2003, we received an indenture dated February 1, 2003, whereby Shenandoah Energy, Inc. changed its name and QEP Uinta Basin, Inc. was designated as Successor Unit Operator for the Glen Bench Enhanced Recovery Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective June 9, 2003. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under Glen Bench Enhanced Recovery Unit Agreement.

Your nationwide (Eastern States) oil and gas bond No. B000024 will be used to cover all operations within the Glen Bench Enhanced Recovery Unit.

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

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks  
Chief, Branch of Fluid Minerals

Enclosure

bcc: Field Manager - Vernal (w/enclosure)  
SITLA  
Division of Oil, Gas & Mining  
Minerals Adjudication Group  
File - Glen Bench Enhanced Recovery Unit (w/enclosure)  
Agr. Sec. Chron  
Fluid Chron

UT922:TAThompson:tt:6/9/03

JUL 07 2003

3104 (932.34)WF  
Nationwide Bond ESB000024

NOTICE

QEP Uinta Basin, Inc.  
1050 17<sup>th</sup> Street Suite 500  
Denver, Colorado 80265

:  
: Oil and Gas  
: lease  
:

Name Change Recognized

Acceptable evidence has been filed in this office concerning the name change of Shenandoah Energy Incorporated into QEP Uinta Basin, Incorporated. QEP Uinta Basin, Incorporated is the surviving entity. This name change is recognized effective April 17, 2003.

Eastern States will notify the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice.

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

If you have any questions, please contact Bill Forbes at 703-440-1536.

*S/Wilbert B. Forbes*

Wilbert B. Forbes  
Land Law Examiner  
Branch of Use Authorization  
Division of Resources Planning,  
Use and Protection

bc: JFO,MMS, ES RF, 930 RF, 932.34 RF, E-932: wbf:07 /07/03:440-1536/ QEP Unita Basin  
MFO



6. (R649-9-2) Waste Management Plan has been received on: IN PLACE

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 7/21/2003

8. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: 7/21/2003

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

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

**DATA ENTRY:**

- 1. Changes entered in the **Oil and Gas Database** on: 8/28/2003
- 2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 8/28/2003
- 3. Bond information entered in RBDMS on: n/a
- 4. Fee wells attached to bond in RBDMS on: n/a

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

1. State well(s) covered by Bond Number: 965-003-032

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

1. Federal well(s) covered by Bond Number: ESB000024

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

1. Indian well(s) covered by Bond Number: 799446

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

- 1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 965-003-033
- 2. The **FORMER** operator has requested a release of liability from their bond on: n/a  
The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

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

**COMMENTS:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

One-half of the reserve pit will be used as a fresh water storage area during the drilling of this well and the other one-half will be used to store non-flammable materials such as cuttings, salts, drilling fluids, chemicals, produced fluids, etc.

Prior to the onset of drilling, a "stock tight" fence shall be installed on three sides of the reserve pit. This fence will be either (1) woven wire at least 28 inches high and within 4 inches of ground surface with two strands of barbed wire above the woven wire with 10-inch spacing, or, (2) at least five strands of barbed wire spaced, starting from the ground, at approximately 6-, 8-, 10-, 12-, and 12-inch intervals.

If deemed necessary by the agencies concerned to prevent contamination to surrounding areas, the reserve pit will be lined with a gel.

- 2) Sewage - A portable chemical toilet will be supplied for human waste.
- 3) Garbage - Trash cages will be on all locations and all trash will be removed to an authorized sanitary landfill.
- 4) Site Clean-up - Immediately after the rig is moved out, the area around the well site will be cleaned and all refuse placed in trash cages.
- 5) If the reserve pit is constructed with a dike, the dike area will be prepared as follows:

Prior to dike embankment a cut-off trench, dozer (or scraper) width, 24 inches deep, will be excavated the full length of the dike, at center line. The excavated trench will be backfilled in 8 inch lifts. The dike will be constructed in 8 inch lifts. Each lift will be compacted by routing construction equipment uniformly over the entire embankment surface.

#### 8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

#### 9. WELL SITE LAYOUT

See typical rig layout.

As mentioned in Item #7, the pits will be unlined unless it is determined by the representatives of the agencies involved that the materials are too porous and would cause contamination to the surrounding area; then the pits will be lined with a gel and any other type material necessary to make it safe and tight.

When drilling activities commence, all work shall proceed in a neat and orderly sequence.

#### 10. PLANS FOR RESTORATION OF THE SURFACE

##### Topsoil

Prior to construction of the location, the top 6 inches of soil materials will be stripped and stockpiled. This will amount to approximately 1300 cubic yards of material that will be stockpiled.

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

**ROUTING**

1. DJJ
2. CDW

Change of Operator (Well Sold)

**X - Operator Name Change/Merger**

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

**1/1/2007**

<b>FROM:</b> (Old Operator): N2460-QEP Uinta Basin, Inc. 1050 17th St, Suite 500 Denver, CO 80265  Phone: 1 (303) 672-6900	<b>TO:</b> ( New Operator): N5085-Questar E&P Company 1050 17th St, Suite 500 Denver, CO 80265  Phone: 1 (303) 672-6900
---	--

WELL NAME	CA No.	SEC TWN RNG	API NO	Unit:	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED LISTS			*	GLEN BENCH UNIT			

**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: 4/19/2007
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/16/2007
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 1/31/2005
- Is the new operator registered in the State of Utah: Business Number: 764611-0143
- (R649-9-2)Waste Management Plan has been received on: IN PLACE
- Inspections of LA PA state/fee well sites complete on: n/a
- Reports current for Production/Disposition & Sundries on: n/a
- 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 4/23/2007 BIA
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: 4/23/2007
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: \_\_\_\_\_
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: \_\_\_\_\_

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 4/30/2007 and 5/15/2007
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 4/30/2007 and 5/15/2007
- Bond information entered in RBDMS on: 4/30/2007 and 5/15/2007
- Fee/State wells attached to bond in RBDMS on: 4/30/2007 and 5/15/2007
- Injection Projects to new operator in RBDMS on: 4/30/2007 and 5/15/2007
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: ESB000024
- Indian well(s) covered by Bond Number: 799446
- (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 965003033
- 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: n/a

**COMMENTS: THIS IS A COMPANY NAME CHANGE.**

**SOME WELL NAMES HAVE BEEN CHANGED AS REQUESTED**

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)  
 GLEN BENCH (ENHANCED RECOVERY) UNIT

4/30/2007 and 5/15/2007

Original Well Name	Well Name & No.	Q/Q	SEC	TWP	RNG	API	Entity	Lease	Well Type	Status
GB 8D-20-8-22	GB 8D-20-8-22	SENE	20	080S	220E	4304737665	15977	Federal	GW	DRL
WHITE RIVER U 16-9	WR 16-9	SWSE	09	080S	220E	4304715081	4915	Federal	OW	S
GLEN BENCH 31-30	GLEN BENCH 31-30	NWNE	30	080S	220E	4304731008	13727	Federal	OW	P
NGC 13-20	GB 13-20	NWSW	20	080S	220E	4304731355	13727	Federal	OW	P
GLEN BENCH FED 22-20	GB 22-20	SENE	20	080S	220E	4304731356	13727	Federal	WI	A
FED 31-20	GB 31-20	NWNE	20	080S	220E	4304731433	13727	Federal	OW	P
ANTELOPE DRAW 2-17-4C	GB 2-17	SESW	17	080S	220E	4304731555	13727	Federal	OW	P
ANTELOPE DRAW 3-17-3C	GB 3-17	SESE	17	080S	220E	4304731556	13727	Federal	OW	S
GLEN BENCH 8-19	GB 8-19	SENE	19	080S	220E	4304732476	13727	Federal	OW	P
GLEN BENCH 4-30-8-22	GB 4-30-8-22	NWNW	30	080S	220E	4304732755	13727	Federal	OW	S
GLEN BENCH U 15-19-8-22	GB 15-19-8-22	SWSE	19	080S	220E	4304732756	13727	Federal	WI	A
OU GB 1G-19-8-22	OU GB 1G-19-8-22	NENE	19	080S	220E	4304734696	13727	Federal	OW	S
OU GB 2W-30-8-22	GB 2ML-30-8-22	NWNE	30	080S	220E	4304735080	14816	Federal	GW	P
GB 8ML-17-8-22	GB 8ML-17-8-22	SENE	17	080S	220E	4304737995		Federal	GW	APD
WHITE RIVER U 43-16	WR 43-16	NENW	16	080S	220E	4304731354	5170	State	OW	S
WHITE RIVER U 45-16	GB 45-16	NENE	16	080S	220E	4304731399	13727	State	OW	P
GLEN BENCH ST 6-16	GB 6-16	SENE	16	080S	220E	4304732549	13727	State	WI	A
GLEN BENCH ST 7-16	GB 7-16	SWNE	16	080S	220E	4304732582	13727	State	WI	A
GLEN BENCH ST 12-16	GB 12-16	NWSW	16	080S	220E	4304732583	13727	State	WI	A
GLEN BENCH U 11-16-8-22	GB 11-16-8-22	NESW	16	080S	220E	4304732857	13727	State	OW	P
GB 1MU-16-8-22	GB 1MU-16-8-22	NENE	16	080S	220E	4304734656	14251	State	GW	P
OU GB 7W-16-8-22	OU GB 7W-16-8-22	SWNE	16	080S	220E	4304734659	13747	State	GW	P

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: see attached
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: see attached
		7. UNIT or CA AGREEMENT NAME: see attached
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____	8. WELL NAME and NUMBER: see attached	
2. NAME OF OPERATOR: QUESTAR EXPLORATION AND PRODUCTION COMPANY		9. API NUMBER: attached
3. ADDRESS OF OPERATOR: 1050 17th Street Suite 500 CITY Denver STATE CO ZIP 80265	PHONE NUMBER: (303) 308-3068	10. FIELD AND POOL, OR WILDCAT:
4. LOCATION OF WELL FOOTAGES AT SURFACE: attached		COUNTY: Uintah
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start: <u>1/1/2007</u>  <input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Operator Name Change</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

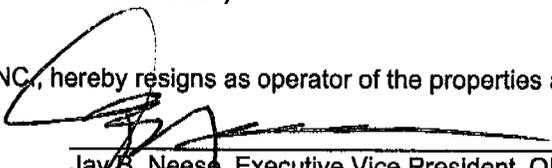
Effective January 1, 2007 operator of record, QEP Uinta Basin, Inc., will hereafter be known as QUESTAR EXPLORATION AND PRODUCTION COMPANY. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible for operations of the properties described on the attached list. All operations will continue to be covered by bond numbers:

Federal Bond Number: 965002976 (BLM Reference No. ESB000024)

Utah State Bond Number: 965003033

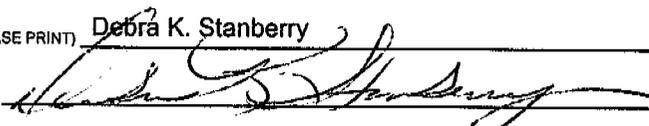
Fee Land Bond Number: 965003033

Current operator of record, QEP UINTA BASIN, INC., hereby resigns as operator of the properties as described on the attached list.

  
Jay B. Neese, Executive Vice President, QEP Uinta Basin, Inc.

Successor operator of record, QUESTAR EXPLORATION AND PRODUCTION COMPANY, hereby assumes all rights, duties and obligations as operator of the properties as described on the attached list

  
Jay B. Neese, Executive Vice President  
Questar Exploration and Production Company

NAME (PLEASE PRINT) <u>Debra K. Stanberry</u>	TITLE <u>Supervisor, Regulatory Affairs</u>
SIGNATURE 	DATE <u>3/16/2007</u>

(This space for State use only)

**RECEIVED**  
**APR 19 2007**

DIV. OF OIL, GAS & MINING

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, 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 _____		5. LEASE DESIGNATION AND SERIAL NUMBER: see attached
2. NAME OF OPERATOR: QUESTAR EXPLORATION AND PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: see attached
3. ADDRESS OF OPERATOR: 1050 17th Street Suite 500 Denver STATE: CO ZIP: 80265		7. UNIT or CA AGREEMENT NAME: see attached
4. LOCATION OF WELL FOOTAGES AT SURFACE: attached		8. WELL NAME and NUMBER: see attached
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		9. API NUMBER: attached
COUNTY: Uintah		10. FIELD AND POOL, OR WILDCAT:
STATE: UTAH		

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>1/1/2007</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Well Name Changes</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

PER THE ATTACHED LIST OF WELLS, QUESTAR EXPLORATION AND PRODUCTION COMPANY REQUESTS THAT THE INDIVIDUAL WELL NAMES BE UPDATED IN YOUR RECORDS.

NAME (PLEASE PRINT) <u>Debra K. Starberry</u>	TITLE <u>Supervisor, Regulatory Affairs</u>
SIGNATURE	DATE <u>4/17/2007</u>

(This space for State use only)

**RECEIVED**  
**APR 19 2007**  
DIV. OF OIL, GAS & MINING



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

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



IN REPLY REFER TO  
3180  
UT-922

April 23, 2007

Questar Exploration and Production Company  
1050 17th Street, Suite 500  
Denver, Colorado 80265

Re: Glen Bench Enhanced Recovery Unit  
Uintah County, Utah

Gentlemen:

On April 12, 2007, we received an indenture dated April 6, 2007, whereby QEP Uinta Basin, Inc. resigned as Unit Operator and Questar Exploration and Production Company was designated as Successor Unit Operator for the Glen Bench Enhanced Recovery Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective April 23, 2007. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Glen Bench Enhanced Recovery Unit Agreement.

Your nationwide oil and gas bond No. ESB000024 will be used to cover all federal operations within the Glen Bench Enhanced Recovery Unit.

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

Sincerely,

/s/ Greg J. Noble

Greg J. Noble  
Acting Chief, Branch of Fluid Minerals

Enclosure

bcc: Field Manager - Vernal (w/enclosure)  
SITLA  
Division of Oil, Gas & Mining  
File - Glen Bench Enhanced Recovery Unit (w/enclosure)  
Agr. Sec. Chron  
Reading File  
Central Files

UT922:TAThompson:tt:4/23/07

RECEIVED

APR 30 2007

DIV. OF OIL, GAS & MINING

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

**ROUTING**  
 CDW

Change of Operator (Well Sold)

**X - Operator Name Change**

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

**6/14/2010**

<b>FROM:</b> (Old Operator): N5085-Questar Exploration and Production Company 1050 17th St, Suite 500 Denver, CO 80265  Phone: 1 (303) 308-3048	<b>TO:</b> (New Operator): N3700-QEP Energy Company 1050 17th St, Suite 500 Denver, CO 80265  Phone: 1 (303) 308-3048
--	--

CA No.		Unit:		GLEN BENCH ENH REC				
WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED								

**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: 6/28/2010
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/28/2010
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/24/2010
- Is the new operator registered in the State of Utah: Business Number: 764611-0143
- (R649-9-2) Waste Management Plan has been received on: Requested
- Inspections of LA PA state/fee well sites complete on: n/a
- Reports current for Production/Disposition & Sundries on: ok
- 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 8/16/2010 BIA not yet
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: 8/16/2010
- 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: 6/29/2010

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 6/30/2010
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/30/2010
- Bond information entered in RBDMS on: 6/30/2010
- Fee/State wells attached to bond in RBDMS on: 6/30/2010
- Injection Projects to new operator in RBDMS on: 6/30/2010
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: ESB000024
- Indian well(s) covered by Bond Number: 965010693
- (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 965010695
- 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: n/a

**COMMENTS:**

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

5. LEASE DESIGNATION AND SERIAL NUMBER:  
See attached

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  
See attached

7. UNIT or CA AGREEMENT NAME:  
See attached

8. WELL NAME and NUMBER:  
See attached

9. API NUMBER:  
Attached

10. FIELD AND POOL, OR WILDCAT:  
See attached

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  GAS WELL  OTHER \_\_\_\_\_

2 NAME OF OPERATOR:  
Questar Exploration and Production Company *N5085*

3. ADDRESS OF OPERATOR:  
1050 17th Street, Suite 500 CITY Denver STATE CO ZIP 80265 PHONE NUMBER: (303) 672-6900

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: See attached COUNTY: Attached  
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>6/14/2010</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Operator Name Change</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

Effective June 14, 2010 Questar Exploration and Production Company changed its name to QEP Energy Company. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible for operations of the properties described on the attached list. All operations will continue to be covered by bond numbers:  
Federal Bond Number: 965002976 (BLM Reference No. ESB000024) *N3700*  
Utah State Bond Number: ~~965003033~~  
Fee Land Bond Number: ~~965003033~~ } *965010695*  
BIA Bond Number: ~~799446~~ *965010693*

The attached document is an all inclusive list of the wells operated by Questar Exploration and Production Company. As of June 14, 2010 QEP Energy Company assumes all rights, duties and obligations as operator of the properties as described on the list

NAME (PLEASE PRINT) Morgan Anderson TITLE Regulatory Affairs Analyst

SIGNATURE *Morgan Anderson* DATE 6/23/2010

(This space for State use only)

RECEIVED  
JUN 28 2010

DIV. OF OIL, GAS & MINING

(See Instructions on Reverse Side)

APPROVED *6/13/2010*  
*Earlene Russell*  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

Questar Exploration Production Company (N5085) to QEP Energy Company (N3700)  
**GLEN BENCH ENH REC**  
 effective June 14, 2010

well_name	sec	twp	rng	api	entity	mineral lease	type	stat	C
GLEN BENCH 31-30	30	080S	220E	4304731008	13727	Federal	OW	P	
WR 43-16	16	080S	220E	4304731354	5170	State	OW	P	
GB 13-20	20	080S	220E	4304731355	13727	Federal	OW	S	
GB 45-16	16	080S	220E	4304731399	13727	State	OW	P	
GB 31-20	20	080S	220E	4304731433	13727	Federal	OW	P	
GB 2-17	17	080S	220E	4304731555	13727	Federal	OW	P	
GB 3-17	17	080S	220E	4304731556	13727	Federal	OW	TA	
GB 8-19	19	080S	220E	4304732476	13727	Federal	OW	P	
GB 4-30-8-22	30	080S	220E	4304732755	13727	Federal	OW	S	
GB 11-16-8-22	16	080S	220E	4304732857	13727	State	OW	P	
GB 1MU-16-8-22	16	080S	220E	4304734656	14251	State	GW	P	
OU GB 7W-16-8-22	16	080S	220E	4304734659	13747	State	GW	P	
OU GB 1G-19-8-22	19	080S	220E	4304734696	13727	Federal	OW	P	
GB 2ML-30-8-22	30	080S	220E	4304735080	14816	Federal	GW	P	
GB 8D-20-8-22	20	080S	220E	4304737665	15977	Federal	GW	P	
GB 13AML-17-8-22	17	080S	220E	4304739227		Federal	GW	APD	C
GB 4DML-20-8-22	20	080S	220E	4304739228		Federal	GW	APD	C
GB 12DML-20-8-22	20	080S	220E	4304739229		Federal	GW	APD	C
GB 16BML-19-8-22	19	080S	220E	4304739233		Federal	GW	APD	C



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

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



IN REPLY REFER TO:  
3100  
(UT-922)

JUL 28 2010

### Memorandum

To: Vernal Field Office, Price Field Office, Moab Field Office

From: Chief, Branch of Minerals

*Robert L. Bankart*

Subject: Name Change Recognized

Attached is a copy of the Certificate of Name Change issued by the Texas Secretary of State and a decision letter recognizing the name change from the Eastern States Office. We have updated our records to reflect the name change in the attached list of leases.

The name change from **Questar Exploration and Production Company** into **QEP Energy Company** is effective June 8, 2010.

cc: MMS  
UDOGM

RECEIVED

AUG 16 2010

DIV. OF OIL, GAS & MINERAL