

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG _____ ELECTRIC LOGS FILE WATER SANDS _____ LOCATION INSPECTED _____ SUB REPORT/abd. _____
7-30-96 CBL

DATE FILED **MAY 9, 1996**

LAND: FEE & PATENTED _____ STATE LEASE NO. _____ PUBLIC LEASE NO. **UTU 73974X** INDIAN _____

DRILLING APPROVED: **JUNE 25, 1996**

SPUDDED IN: **JULY 8, 1996**

COMPLETED: **8-2-96 POW** PUT TO PRODUCING _____

INITIAL PRODUCTION: _____

GRAVITY A.P.I. _____

CONFIDENTIAL

GOR: _____

PRODUCING ZONES: _____

TOTAL DEPTH: _____

WELL ELEVATION: _____

DATE ABANDONED: _____

FIELD: **NATURAL BUTTES**

UNIT: _____

COUNTY: **UINTAH**

WELL NO. **GLEN BENCH UNIT 15-19-8-22** API NO. **43-047-32756**

LOCATION **329 FSL** FT. FROM (N) (S) LINE. **1987 FEL** FT. FROM (E) (W) LINE. **SW SE** 1/4 - 1/4 SEC. **19**

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
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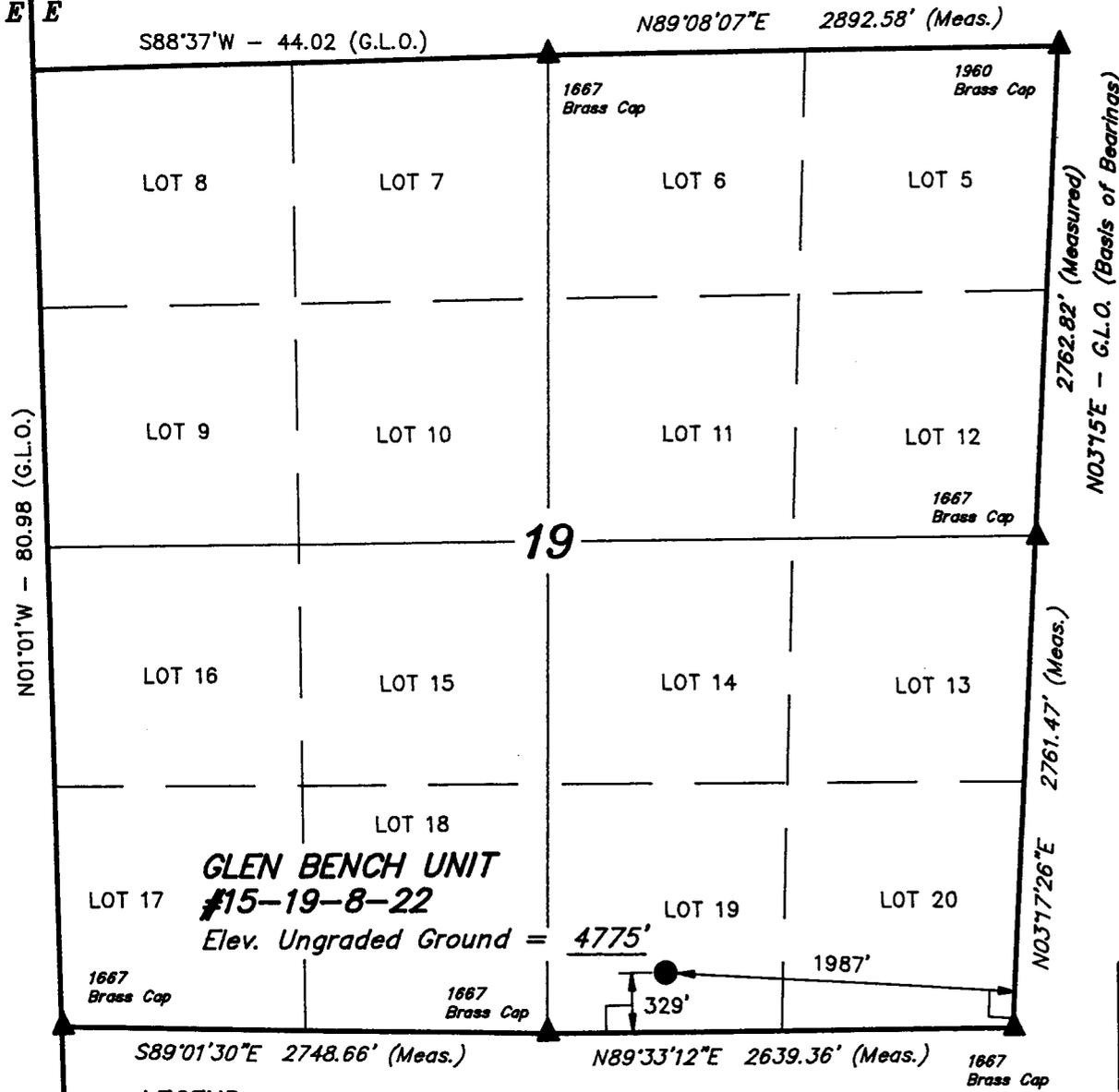
8S	22E	19	CHANDLER & ASSOCIATES
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CHANDLER & ASSOCIATES, INC.

Well location, GLEN BENCH UNIT #15-19-8-22, located as shown in Lot 19 of Section 19, T8S, R22E, S.L.B.&M. Uintah County, Utah.

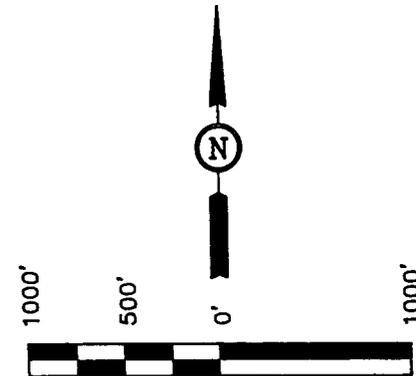
T8S, R22E, S.L.B.&M.

R
21 22
E
E



BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHWEST CORNER OF SECTION 19, T8S, R22E, S.L.B.&M. TAKEN FROM THE REDWASH NW, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4756 FEET.



SCALE

CERTIFICATE

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

Robert L. Hay
REGISTERED LAND SURVEYOR
REGISTRATION NO: 161319
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(801) 789-1017

LEGEND:

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

SCALE 1" = 1000'	DATE SURVEYED: 4-2-96	DATE DRAWN: 4-3-96
PARTY D.A. K.H. D.R.B.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE CHANDLER & ASSOCIATES, INC.	

Form 3100-5
December 1988

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
MAY 13 1996
BY: 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.

Form Approved

Budget Bureau No. 1004-8135

5. Lease Designation and Serial No.

U-9617

6. If Indian, Allottee or Tribe Name

UTU-73974A

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

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 Seventeenth 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

12. CHECK APPROPRIATE BOX(S) 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 Conversion back to rod pump
- 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 effective 3/7/96, this well was returned to rod pump production following an unsuccessful attempt as a waterflood injection well.

RECEIVED
APR 23 1996

RECEIVED
BUREAU OF LAND MANAGEMENT
HELENA, MONTANA
1996 APR 12 PM 1:38

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

Signed [Signature] Title Operations Supervisor Date 4/08/96

(This space for State official use)
Approved by NOTED Title _____ Date MAY 09 1996
Conditions of Approval, if any.

CHANDLER & ASSOCIATES, INC.
DRILLING PLAN FOR THE
GLEN BENCH UNIT #15-19-8-22

I. DRILLING PLAN:

1. Geological Surface Formation: Uintah

2. Estimated Tops:

<u>Name</u>	<u>Top</u>	<u>Prod. Phase Anticipated</u>
Green River	2292'	
Green River "Y"	4601'	
Glen Bench Ss	4765	Oil
Wasatch	5100'	

3. CASING PROGRAM:

	<u>Depth</u>	<u>Hole Size</u>	<u>Csg. Size</u>	<u>Type</u>	<u>Weight</u>
Surface	300'	12-1/4"	8-5/8"	K-55 (LT&C)	24#/ft (new)
Prod.	5175'	7-7/8"	5-1/2"	K-55 (LT&C)	15.5#/ft (new)

4. Operator's Specification for Pressure Control Equipment:

- A. 2,000 psi W.P. Double Gate BOP or Single Gate BOP (Schematic attached).
- B. Functional test daily.
- C. All casing strings shall be pressure-tested (0.2 psi/foot or 1500 psi, whichever is greater) prior to drilling the plug after cementing; test pressure shall not exceed the internal yield pressure of the casing.
- D. All ram-type preventers and related control equipment shall be tested at the rated working pressure of the stack assembly or at 70 percent of the minimum internal yield pressure of the casing, whichever is less. Tests shall be done at the time of installation, prior to drilling out, and weekly. All tests shall be for a period of 15 minutes.

Chandler & Associates, Inc.
Glen Bench Unit #15-19-8-22

5. Auxiliary Equipment:

- A. Kelly Cock - yes.
- B. Float at the bit - no.
- C. Monitoring equipment on the mud system - visually.
- D. Full opening safety valve on rig floor - yes.
- E. Rotating head - no.
- F. The blooie line shall be a least 6" in diameter and extend at least 100' from the wellbore into the reserve/blooie pit.
- G. Blooie line ignition shall be provided by a continuous pilot (ignited when drilling below 500').
- H. Compressor shall be tied directly to the blooie line through a manifold.
- I. A mistor with a continuous stream of water shall be installed near the end of the blooie lines for dust suppression.

6. Proposed Circulating Medium:

<u>Depth</u>	<u>Mud Type</u>	<u>Density (lb./gal)</u>	<u>Viscosity</u>	<u>Water Loss</u>
0'-4500'	Fresh Water	8.4	30	No Control
4500'-TD	Chem Gel	8.8	30-35	10 cc or less

7. Testing, Logging, and Coring Program:

- A. Cores - None anticipated.
- B. DST - none anticipated.
- C. Logging - DIL-GR (TD to base of surface casing).
FDC/CNL/GR/Cal (TD to 2000').

Chandler & Associates, Inc.
Glen Bench Unit #15-19-8-22

- D. Formation and Completion Interval: Green River interval, final determination of completion will be made by analysis of logs.
Stimulation - Stimulation will be designed for the particular area of interest as encountered.
- E. Frac gradient - approximately .80 psi/ft.

8. Cementing Program:

<u>Casing</u>	<u>Volume</u>	<u>Type & Additives</u>
Surface	200 sx	Class "G" w/2% CaCl ₂ (based on 100% access)
Production	800 sx*	550 sx Class "G" w/2% Gel & 250 sx 50/50 poz-mix w/2% Gel & 10% Salt.

Cement Characteristics:

Class "G" - yeild = 1.18 cu.ft. per. sack
weight = 15.8 lb./gal
strength = 3200 psi in 72 hrs @ 135 degrees

* Final cement volumes to be calculated from caliper log with an attempt to be made to circulate cement to the surface. A bond log will be run across the zone of interest and across zones as required by the authorized officer to insure protection of natural resources.

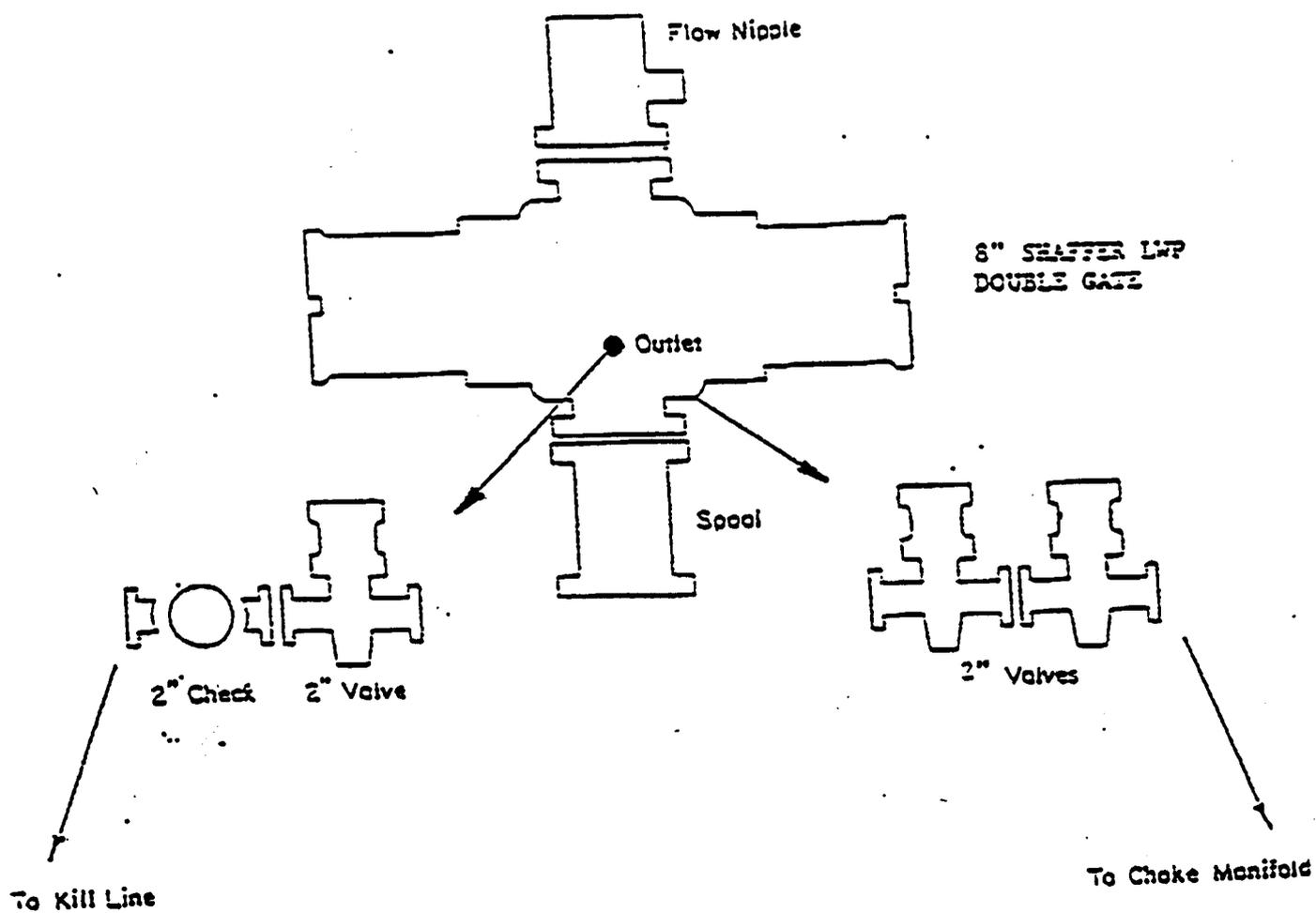
Chandler & Associates, Inc.
Glen Bench Unit #15-19-8-22

9. Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards:

No abnormal temperatures or pressures are anticipated. No H₂S has been encountered in or known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom hole pressure equals approximately 1,600 psi (calculated at 0.309 psi/ft) and maximum anticipated surface pressure equals approximately 461 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

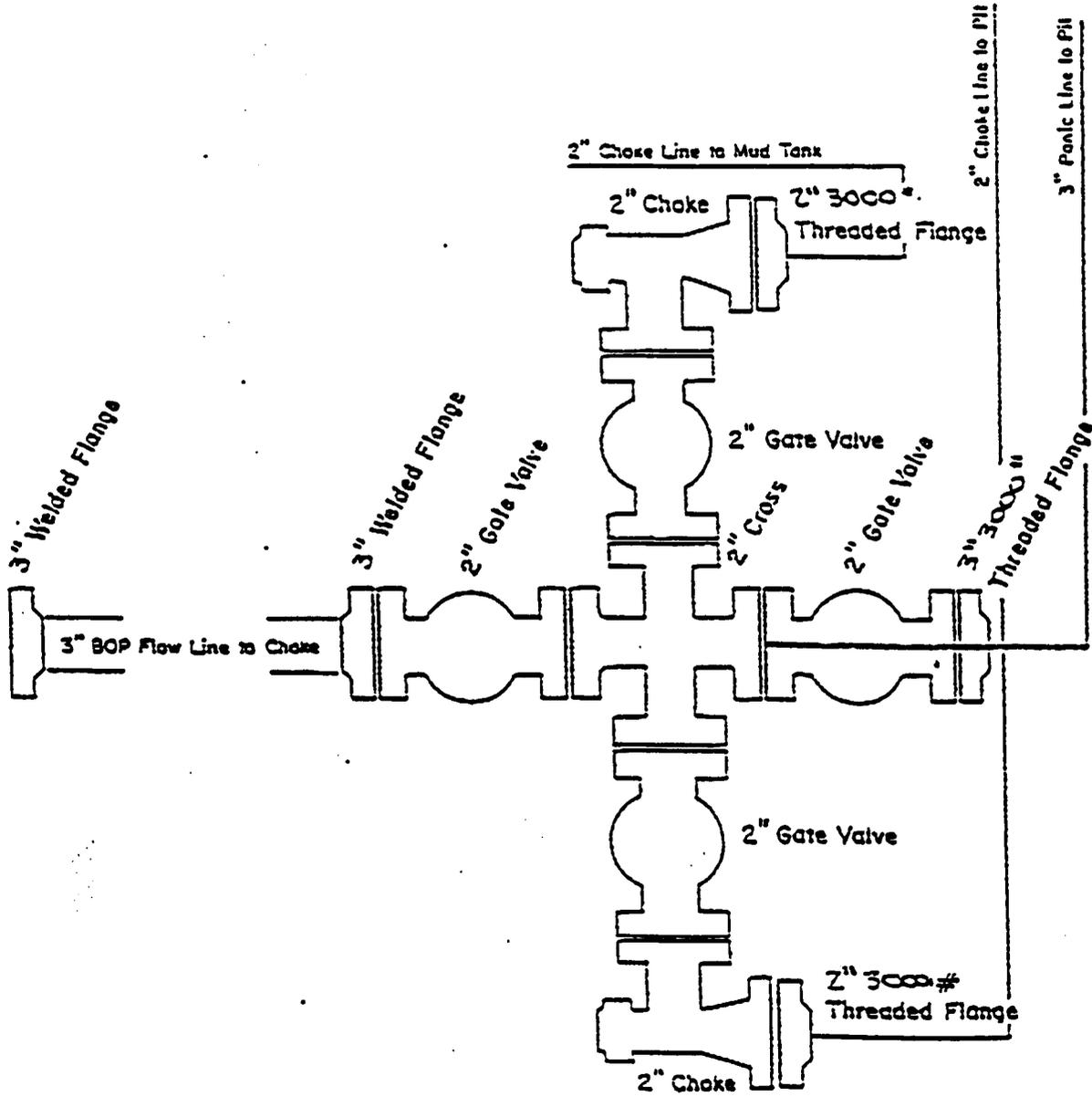
CHANDLER DRILLING

RIG NO.7



CHANDLER DRILLING

RIG NO.7



**II. SURFACE USE PLAN
CHANDLER & ASSOCIATES, INC.
GLEN BENCH UNIT #15-19-8-22**

1. Existing Road:

- A. Topo Map "A" is the vicinity map, showing the access routes from Vernal, Utah.
- B. Topo Map "B" shows the proposed access road to each individual well. It also shows existing roads in the immediate area.
- C. Occasional maintenance blading and storm repairs will keep roads in good condition.
- D. There shall be no mud blading on the access road. Vehicles may be towed through the mud provided they stay on the roadway.

2. Planned Access Roads:

The proposed access road, will be crowned, ditched, and dipped.

- A. Maximum grade will be 8% or less, unless otherwise stated.
- B. No turnouts will be required.
- C. Road surface material will be that native to the area.

Chandler & Associates, Inc.
Glen Bench Unit #15-19-8-22

- E. No cattle guard will be required.
- F. The proposed access road was flagged at the time the location was staked.
- G. The area authorized officer will be contacted at least 24 hours prior to commencing construction of the access road and well pad.
- H. The back slopes of the proposed access roads will be no steeper than vertical or 1/4:1 in rock; and 2:1, elsewhere.

The operator or his contractor will notify the B.L.M. office at least 48 hours prior to commencement of any work on these locations, roadways, or pipelines.

3. Location of Existing Wells:

See Topo Map "C"

4. Location of Existing and/or Proposed Facilities:

- A. All Petroleum Production Facilities are to be contained within the proposed location sites.
- B. In the event that production of these wells is established, the following will be shown:
 - 1. Proposed location and attendant lines, by flagging, if off well pad.
 - 2. Dimensions of facilities.
 - 3. Construction methods and materials.

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- C. The area used to contain the proposed production facilities will be built using native materials. If these materials are not acceptable, then other arrangements will be made to acquire them from private sources. These facilities will be constructed using bulldozers, graders, and workman crews to construct and place the proposed facilities.
 - D. All permanent facilities placed on the locations shall be painted a non-reflective color which will blend with the natural environment.
 - E. A dike shall be constructed around the tank battery, of sufficient capacity to adequately contain at least 110 percent of the storage capacity of the largest tank within the dike.
 - F. All buried pipelines shall be covered to a depth of 3 feet except at road crossings where they shall be covered to a depth of 4 feet.
 - G. Construction width of the right-of way/pipeline route shall be restricted to 30 feet of disturbance.
 - H. Pipeline location warning signs shall be installed within 90 days upon completion of construction.
5. Location and Type of Water Supply:

Water will be supplied by Nebeker Trucking
Water Right #49-1596
Source: Green River POD: SW 1/4 Section 13, T7S, R21E, S.L.B.&M.

No water wells are to be drilled.

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6. Source of Construction Materials:

- A. No construction materials are needed for drilling operations. In the event of production, the small amount of gravel needed for facilities will be hauled in by truck from a local gravel pit over existing access roads from the area. No special access other than for drilling operations and pipeline construction is needed.
- B. All access roads crossing Ute Tribal Land are described under item #2 and shown on Map #B. All disturbance for this well location is located on Ute Tribal Lands and a Right-of-way has been applied for.

All Construction material for these location sites and access roads shall be borrow material accumulated during the construction of the location sites and access roads. No additional construction material from other sources is anticipated at this time, but if it is required, the appropriate actions will be taken to acquire it from private sources.

- C. All well pad surface disturbance area is on Ute Tribal Lands.

7. Methods for Handling Waste Disposal:

- A. Drill cuttings will be buried in the reserve pit when covered.
- B. Drilling fluids will be contained in the reserve pit.
- C. Any hydrocarbon liquids produced while production testing will be contained in a test tank. Any unavoidable spills of oil or other adverse substances or materials will be removed immediately during drilling progress or during completion operations.
- D. Portable chemical toilets will be provided and serviced by a local commercial sanitary service.

Chandler & Associates, Inc.
Glen Bench Unit #15-19-8-22

- E. Garbage and trash will be collected in a trash cage and its contents hauled to a sanitary landfill.

All wastes caused by the construction activities shall be promptly removed and disposed of in a sanitary landfill or as directed by the authorized officer.

- F. Prior to commencement of drilling, the reserve pit will be fenced on three sides using 39-inch net wire with at least one (1) strand of barbed wire. All wire is to be stretched before attaching to corner posts. When drilling activities are completed it will be fenced on the fourth side and allowed to dry (if liquids are present). After drying, the fences will be removed and the pit shall be buried. Reclamation will be undertaken no later than the fall of the year after all drilling activity has ceased.

8. Ancillary Facilities:

No air strips, camps, or other living facilities will be built off the location. Housing and office trailers will be on the location as seen on the location layout.

9. Well Site Layout:

- A. See attached cutsheet.
- B. The areas authorized officer will be contacted at least 24 hours prior to commencing construction of the access road and well pad.
- C. The authorized officer will determine after the location is constructed whether the pit is to be lined, and if so, the type of material to be used.
- D. Topsoil shall be stripped to a depth of 12 inches and stockpiled as shown on the location layout plat. (Windrow around east side of pad to obtain a dike situation).
- E. The back slopes of the locations will be no steeper than vertical or 1/4:1 in rock, and 2:1 elsewhere.

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Glen Bench Unit #15-19-8-22

- F. The upper edges of all cut banks on the access roads and well pads will be rounded.
- G. Catchment ponds to be placed as required to intercept drainage re-routes.

10. Plans for Restoration:

- A. Immediately upon completion, the location and surrounding area will be cleared of all debris, materials, trash and junk not required for production.
- B. Before any dirt work to restore the location takes place, the reserve pit must be completely dry. The reserve pit will be reclaimed within 90 days from the date of well completion.
- C. The area officer shall be notified at least 48 hours prior to commencing reclamation work.
- D. All disturbed areas will be seeded with the a mixture which is found suitable by the B.L.M.
- E. The seed bed will be prepared by disking, following the natural contour. Drill seed on contour at a depth no greater than ½ inch. In areas that cannot be drilled, the seed will be broadcast at double the seeding rate and harrowed into soil. Certified seed is recommended.
- F. Fall seeding will be completed after September, and prior to prolonged ground frost.

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Glen Bench Unit #15-19-8-22

- G. If the well is a producer, access roads will be upgraded and maintained as necessary to prevent soil erosion, and accommodate year round traffic. Areas unnecessary to operations will be reshaped, topsoil distributed, and seed distributed according to the above mixtures. Perennial vegetation must be established. Additional work shall be required in case of seeding failures, etc.
- H. If the well is abandoned or is a dry hole, the access road and location will be restored to approximate the original contours. During reclamation of the site the fill material will be pushed into cuts and up over the backslope. No depressions will be left that would trap water or form ponds. Topsoil will be distributed evenly over the location and seeded according to the above mixture. The access road and the location shall be ripped or disked prior to seeding. Perennial vegetation must be established. Additional work shall be required in case of seeding failures, etc.
- I. Annual or noxious weeds shall be controlled on all disturbed areas. Method of control shall be by an approved mechanical method or an Environmental Protection Agency (EPA) registered herbicide. All herbicide application proposals must be approved. Application of herbicides must be under direct field supervision of an EPA certified pesticide applicator.

11. Other Information:

- A. The area is used by man for the primary purpose of grazing domestic livestock.

All activity shall cease when soils or road surfaces become saturated to a depth of three inches, unless otherwise approved by the Authorized Officer.

If any fossils are discovered during construction, the operator shall cease construction immediately and notify the Authorized Officer so as to determine the significance of the discovery.

- B. A Class III cultural resource inventory shall be completed prior to disturbance by a qualified professional Archaeologist.

Chandler & Associates, Inc.
Glen Bench Unit #15-19-8-22

- C. The B.L.M. considers the development of groundwater resources to be necessary and frequently indispensable to effective land management. Therefore, any groundwater intercepted by the party conducting mineral exploration shall be reported to the authorized officer immediately including approximate quantities and a sample in a sealed quart container. The B.L.M. shall have the first opportunity to file State water rights for the intercepted groundwater. The undersigned may file for water rights only with a written waiver from the State.
- D. The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials and contact the authorized officer (AO). Within five working days the AO will inform the operator as to:
- whether the materials appear eligible for the National Register of Historic Places;
- the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and a time frame for the AO to complete an expedited review under 36 CFR 800-11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

Chandler & Associates, Inc.
Glen Bench Unit #15-19-8-22

If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that the required mitigation has been completed, an operator will then be allowed to resume construction.

- E. Less than 10,000 pounds of any chemical(s) from EPA's Consolidated list of Chemicals Subject to Reporting Under Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986, and less than threshold planning quantity (TPQ) of any extremely hazardous substances(s), as defined in 40 CFR, would be used, produced, transported, stored, disposed, or associated with the proposed action.

12. Lessee's or Operator's Representative:

Mr. Don Johnson
Manager Operations/Production
Chandler & Associates, Inc.
475 Seventeenth Street
Suite 1000
Denver, Colorado 80202
Telephone #(303)295-0400

Chandler & Associates, Inc.
Glen Bench Unit #15-19-8-22

13. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite(s) and access route(s); that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by **Chandler & Associates, Inc.**, and its contractors and subcontractors in conformity with the plan and the terms and conditions under which it is approved.

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

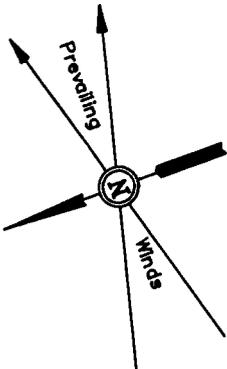
5-6-96
Date

Robert L. Kay
Robert L. Kay
Agent

CHANDLER & ASSOCIATES, INC.

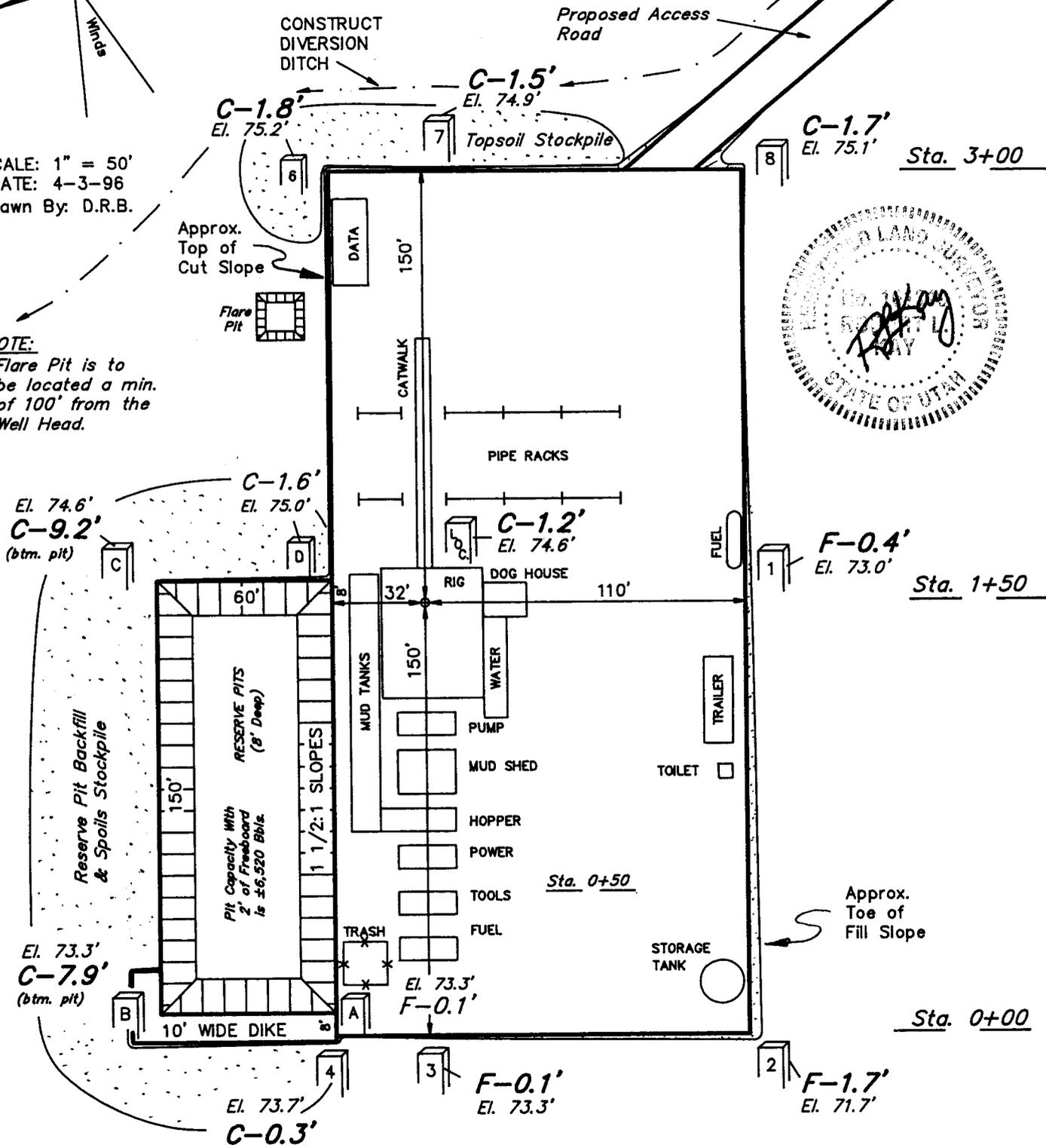
LOCATION LAYOUT FOR

GLEN BENCH UNIT #15-19-8-22
SECTION 19, T8S, R22E, S.L.B.&M.
329' FSL 1987' FEL



SCALE: 1" = 50'
DATE: 4-3-96
Drawn By: D.R.B.

NOTE:
Flare Pit is to be located a min. of 100' from the Well Head.



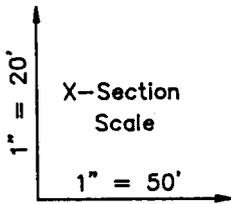
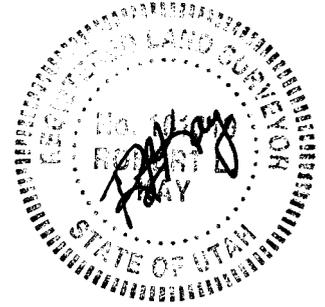
Elev. Ungraded Ground at Location Stake = 4774.6'

Elev. Graded Ground at Location Stake = 4773.4'

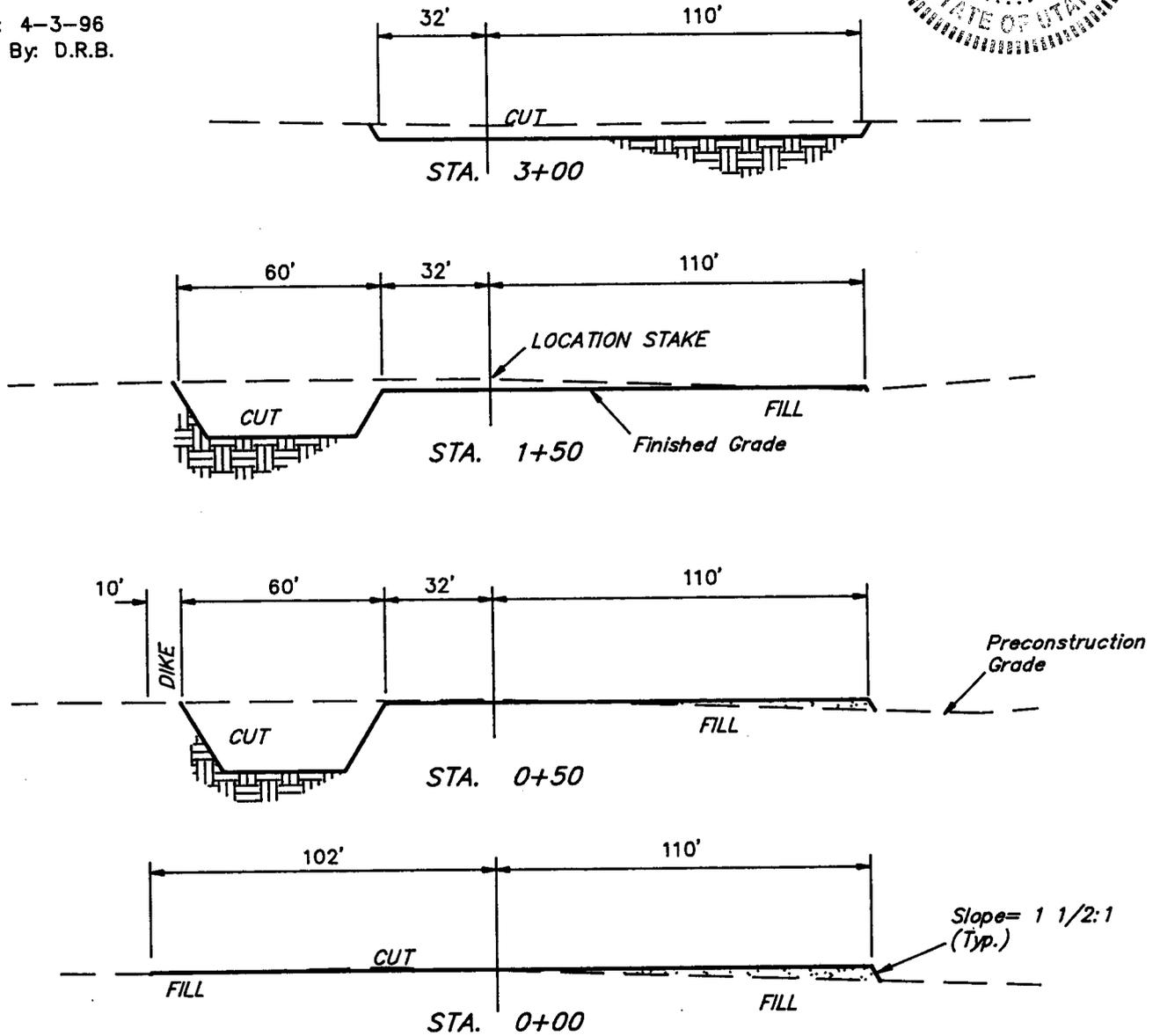
CHANDLER & ASSOCIATES, INC.

TYPICAL CROSS SECTIONS FOR

**GLEN BENCH UNIT #15-19-8-22
SECTION 19, T8S, R22E, S.L.B.&M.
329' FSL 1987' FEL**



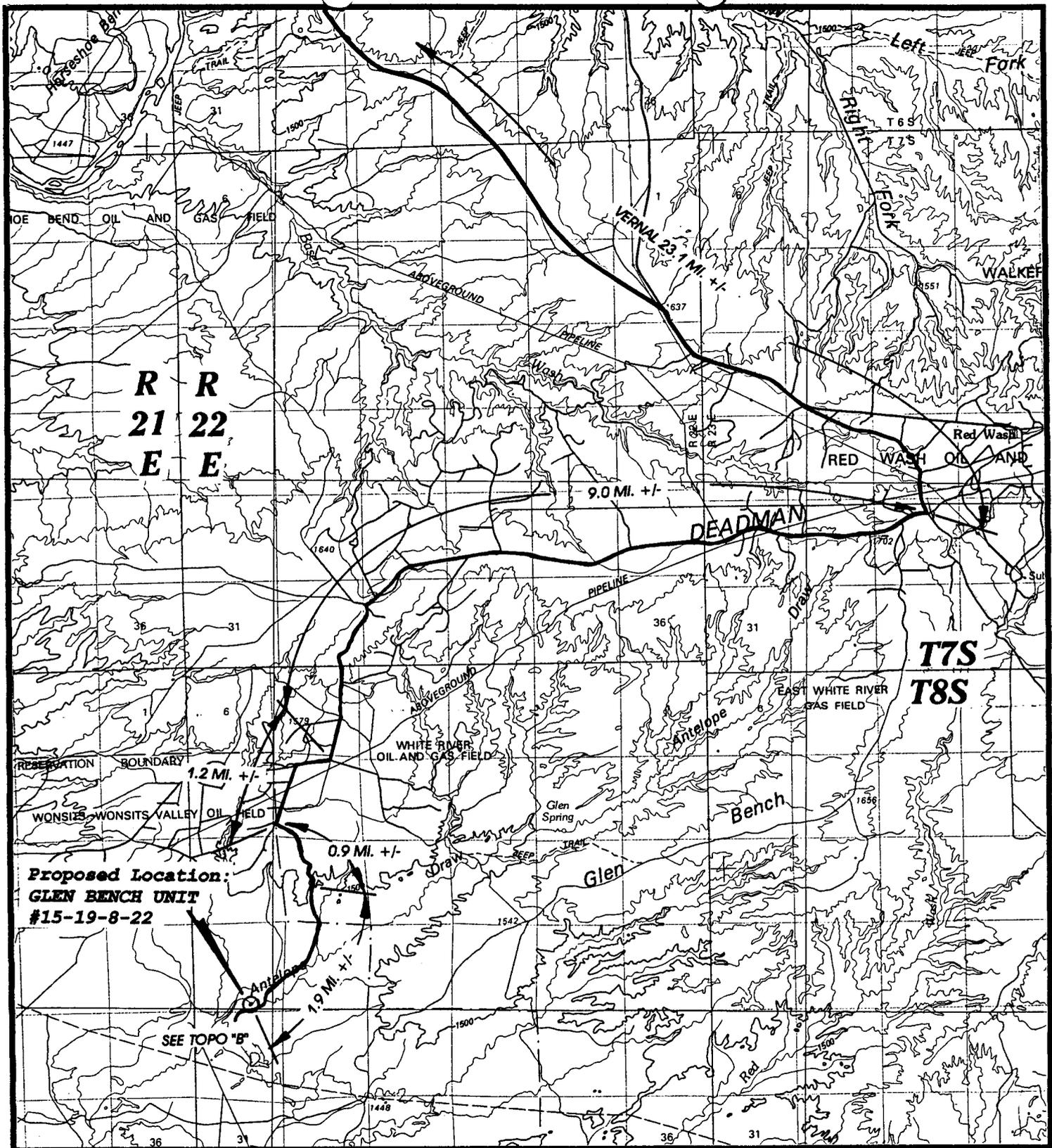
DATE: 4-3-96
Drawn By: D.R.B.



APPROXIMATE YARDAGES

(12") Topsoil Stripping	= 1,920 Cu. Yds.
Remaining Location	= 2,120 Cu. Yds.
TOTAL CUT	= 4,040 CU.YDS.
FILL	= 1,060 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	= 2,910 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,910 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.



**Proposed Location:
GLEN BENCH UNIT
#15-19-8-22**

**TOPOGRAPHIC
MAP "A"**

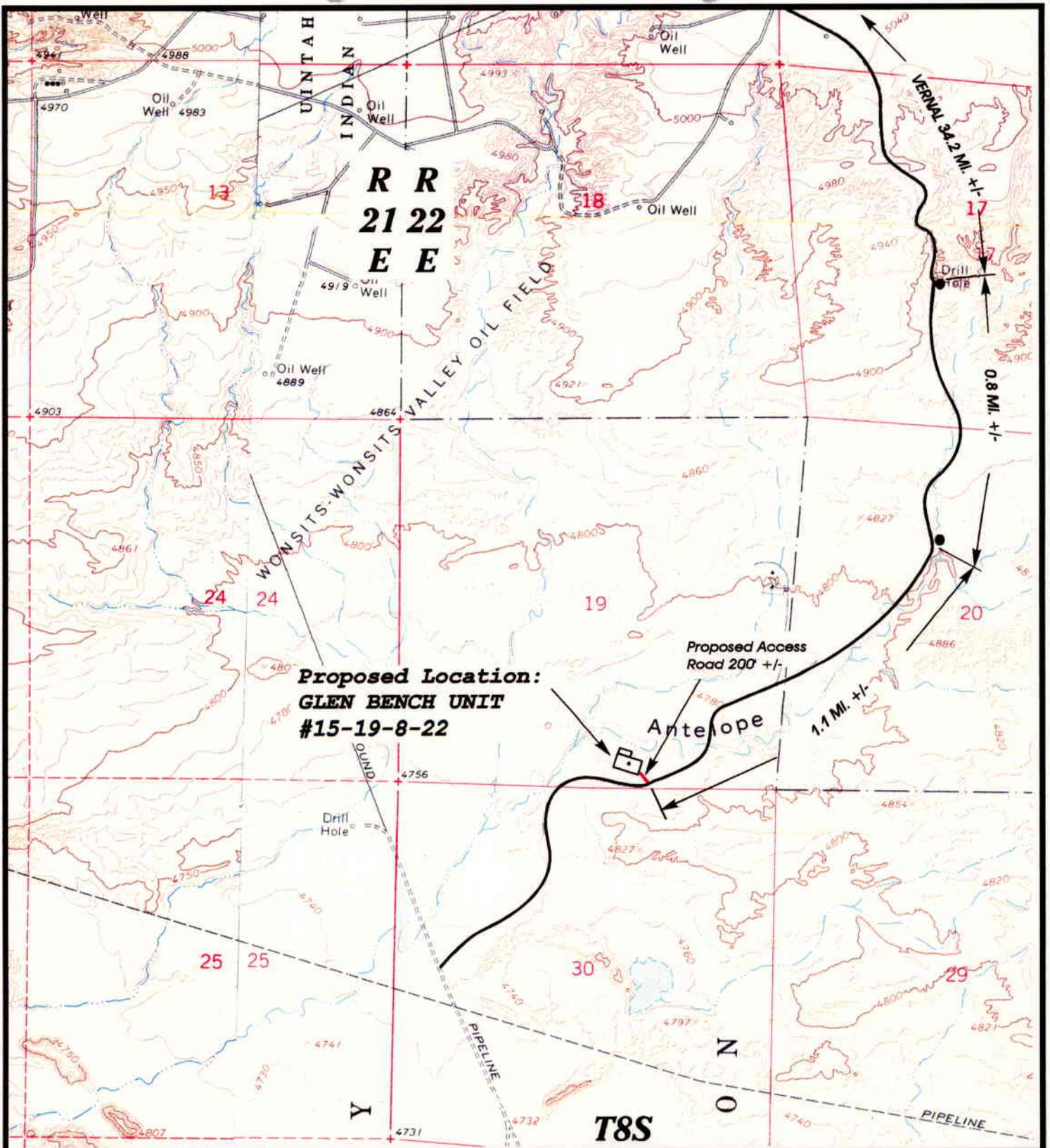
DATE: 4-3-96 D.R.B.

CHANDLER & ASSOCIATES, INC.

GLEN BENCH UNIT #15-19-8-22
SECTION 19, T8S, R22E, S.L.B.&M.
329' FSL 1987' FEL



UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017



UELS

**TOPOGRAPHIC
MAP "B"**

DATE: 4-4-96 D.R.B.

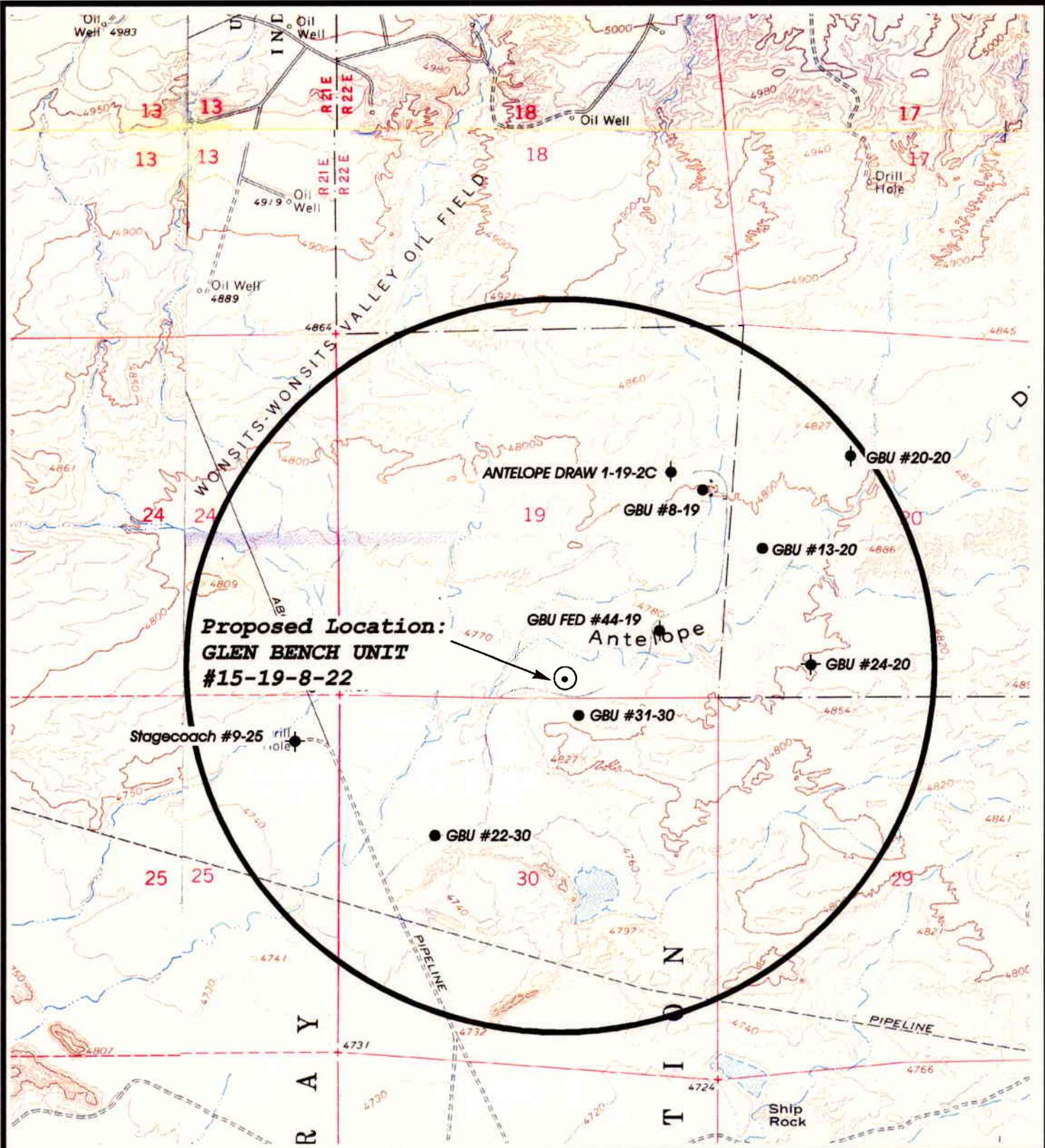
UNTIAH ENGINEERING & LAND SURVEYING
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CHANDLER & ASSOCIATES, INC.

GLEN BENCH UNIT #15-19-8-22
SECTION 19, T8S, R22E, S.L.B.&M.
329' FSL 1987' FEL

SCALE: 1" = 2000'



**Proposed Location:
GLEN BENCH UNIT
#15-19-8-22**

UEIS

- Water Wells
- Abandoned Wells
- Temporarily Abandoned Wells
- Disposal Wells
- Drilling Wells
- Producing Wells
- Shut-in Wells

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017



SCALE: 1" = 2000'

CHANDLER & ASSOCIATES, INC.

GLEN BENCH UNIT #15-19-8-22
SECTION 19, T8S, R22E, S.L.B.&M.
**TOPOGRAPHIC
MAP "C"**

DATE: 4-3-96 D.R.B.

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 05/09/96

API NO. ASSIGNED: 43-047-32756

WELL NAME: GLEN BENCH 15-19-8-22
 OPERATOR: CHANDLER & ASSOCIATES (N3320)

PROPOSED LOCATION:
 SWSE 19 - T08S - R22E
 SURFACE: 0329-FSL-1987-FEL
 BOTTOM: 0329-FSL-1987-FEL
 UINTAH COUNTY
 NATURAL BUTTES FIELD (630)

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

LEASE TYPE: FED
 LEASE NUMBER: UTU - 73974X

PROPOSED PRODUCING FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Federal [State [] Fee []
 (Number LETTER OF CREDIT)
- Potash (Y/N)
- Oil shale (Y/N)
- Water permit
 (Number 49-1596)
- RDCC Review (Y/N)
 (Date: _____)

LOCATION AND SITING:

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

COMMENTS: _____

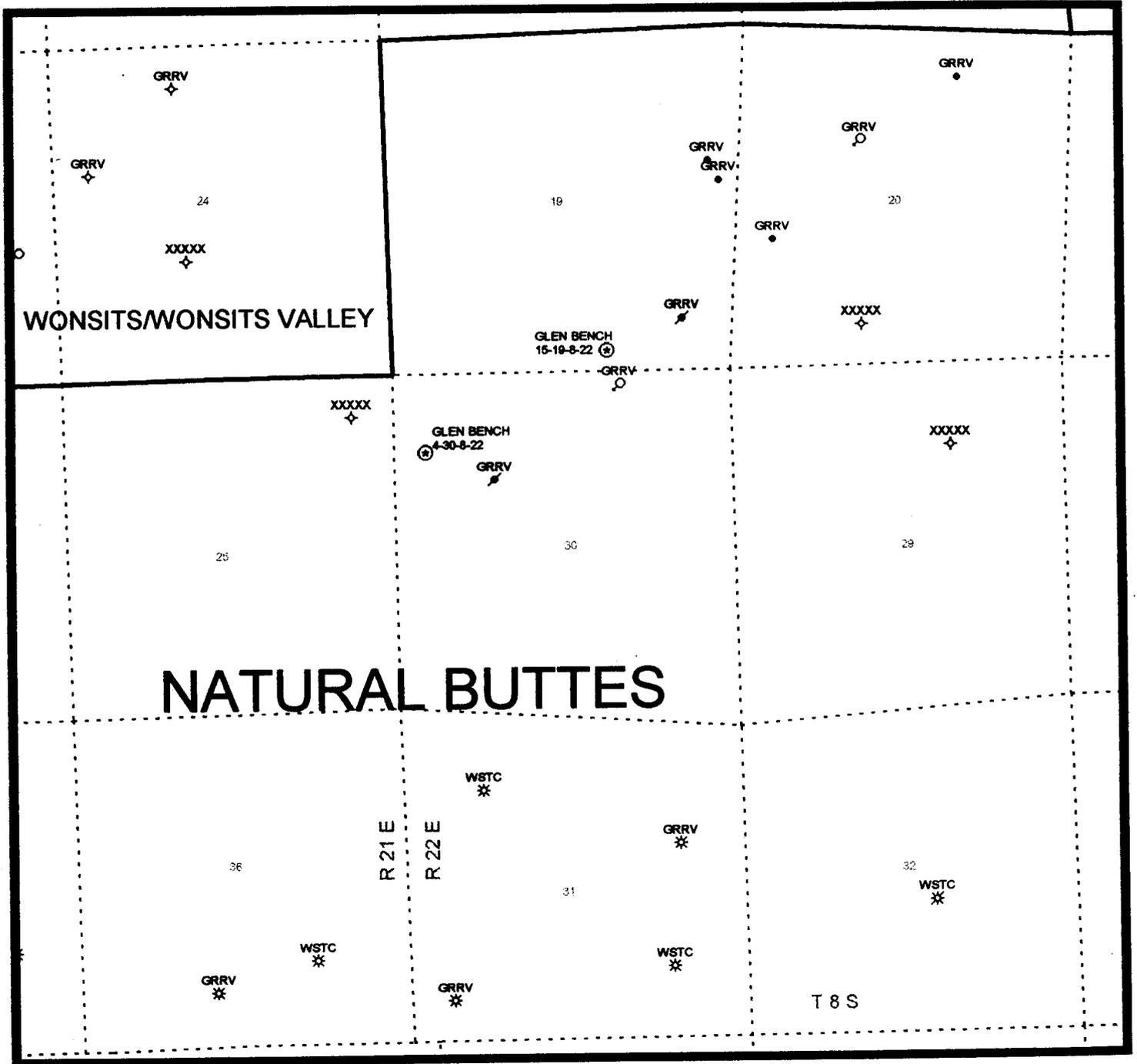
STIPULATIONS: _____

CHANDLER & ASSOCIATES

INFILL DRILLING

SECTIONS 19 & 30, T8S, R22E

UINTAH COUNTY, UAC R649-2-3



PREPARED:
DATE: 13-MAY-96

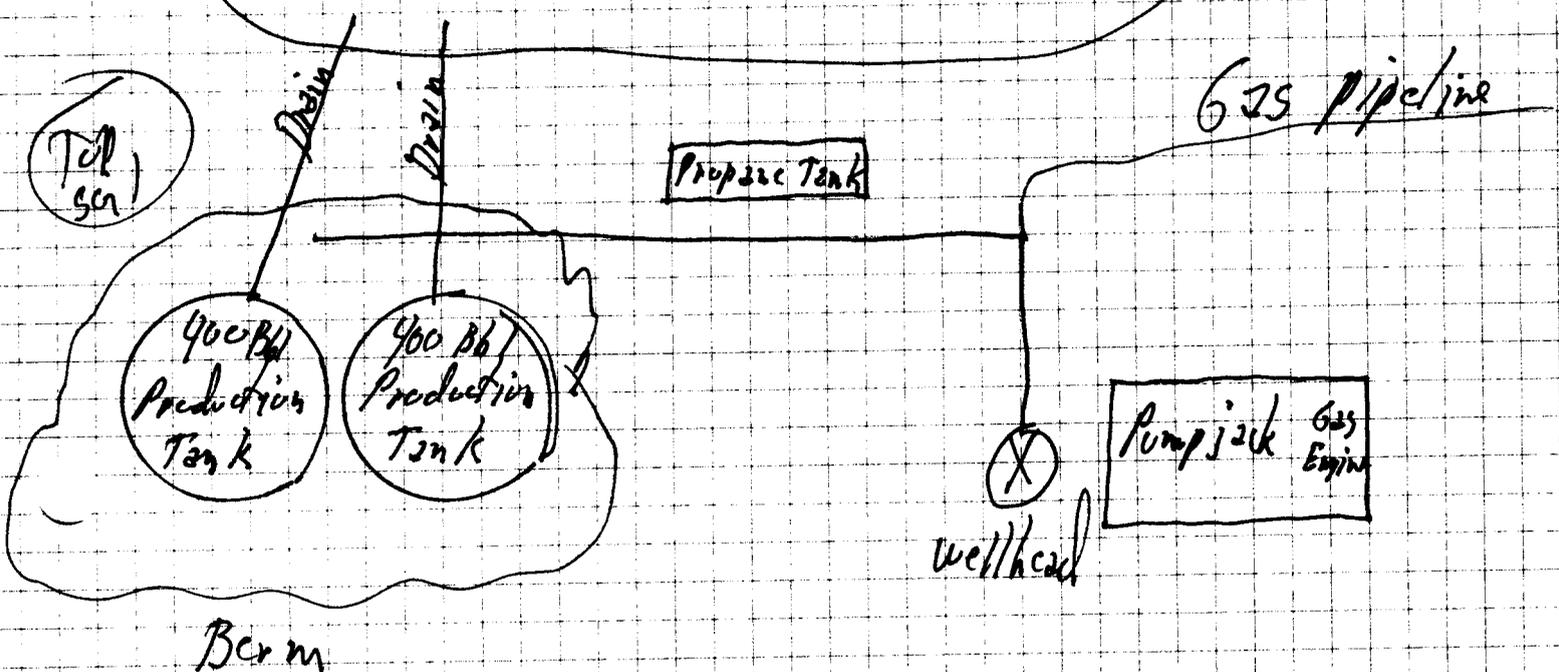
Chandler + Assoc.

43-1 2-32756

Glen Beach 15-19

↑
North

Reserve Pit





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)

June 25, 1996

Chandler & Associates, Inc.
475 Seventeenth Street, Suite 1000
Denver, Colorado 80202

Re: Glen Bench Unit 15-19-8-22 Well, 329' FSL, 1987' FEL,
SW SE, Sec. 19, T. 8 S., R. 22 E., Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-32756.

Sincerely,


for R. J. Firth
Associate Director

lwp
Enclosures
cc: Uintah County Assessor
Bureau of Land Management, Vernal District Office

Operator: Chandler & Associates, Inc.
Well Name & Number: Glen Bench Unit 15-19-8-22
API Number: 43-047-32756
Lease: UTU-73974X
Location: SW SE Sec. 19 T. 8 S. R. 22 E.

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5340.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Frank Matthews or Mike Hebertson at (801)538-5340.

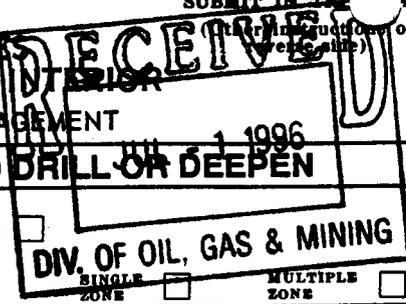
3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN THE DATE

Form approved.
Budget Bureau No. 1004-0136
Expires: December 31, 1991



APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
 Chandler & Associates, Inc.

3. ADDRESS AND TELEPHONE NO.
 475 Seventeenth St., Suite 1000 Denver, Co. 80202 (303)295-0400

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface 329' FSL 1987' FEL
 At proposed prod. zone Lot 19

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 See Topo Map "A" (attached)

16. NO. OF ACRES IN LEASE
 920.66

17. NO. OF ACRES ASSIGNED TO THIS WELL
 40

18. PROPOSED DEPTH
 5175'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 4775' GR

22. APPROX. DATE WORK WILL START*
 A.S.A.P.

5. LEASE DESIGNATION AND SERIAL NO.
 UTU 73974X U-9617

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 Ute Indian Tribe

7. UNIT AGREEMENT NAME
 Glen Bench

8. FARMOR LEASE NAME, WELL NO.
 Glen Bench Unit

9. A/WELL NO.
 #15-19-8-22

10. FIELD AND POOL, OR WILDCAT
 Glen Bench

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
 Sec. 19, T8S, R22E, S.L.B&L

12. COUNTY OR PARISH
 Uintah

13. STATE
 Utah

RECEIVED
MAY 08 1996

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/2"	8 5/8"	24#	300'	(See attached drilling plan)
7 7/8"	5 1/2"	15.5#	5175'	(see attached drilling plan)

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- M.I.R.U.
- Drill to T.D. 5175'
- Run 5 1/2" casing if commercial production is indicated.
- If dry hole, well will be plugged and abandoned as instructed by the B.L.M.
- Well will be drilled with fresh water to 4500', then Chem Gel Mud to T.D. Mud will be in place to run 5 1/2" casing.

I hereby certify that I am responsible by the terms and conditions of the Lease to conduct Lease Operations. Bond Coverage pursuant to 43 CFR 3104 for Lease Activities is being provided by Chandler & Associates, Inc, in the form of an irrevocable Letter of Credit issued by Colorado National Bank.

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

24. SIGNED Robert L. Kay TITLE Agent for Chandler DATE 5-6-96

PERMIT NO. 15-19-8-22 APPROVAL DATE MAY 1 1996

Application approval does not warrant or certify that the applicant has legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:
 NOTICE OF APPROVAL Assistant Field Manager Mineral Resources
 APPROVED BY Dio O G & M TITLE Mineral Resources DATE JUN 24 1996

*See Instructions On Reverse Side

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Chandler & Associates

Well Name & Number: Glen Bench Unit 15-19-8-22

API Number: 43-047-32756

Lease Number: U - 9617

Location: Lot 19 Sec. 19 T. 8S R. 22E

NOTIFICATION REQUIREMENTS

- Location Construction - at least forty-eight (48) hours prior to construction of location and access roads.
- Location Completion - prior to moving on the drilling rig.
- Spud Notice - at least twenty-four (24) hours prior to spudding the well.
- Casing String and Cementing - at least twenty-four (24) hours prior to running casing and cementing all casing strings.
- BOP and Related Equipment Tests - at least twenty-four (24) hours prior to initiating pressure tests.
- First Production Notice - within five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90) days.

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

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

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

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

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

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

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

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

3. Casing Program and Auxiliary Equipment

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

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the base of the usable water zone, identified at 1,290 ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

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

4. Mud Program and Circulating Medium

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

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

5. .Coring, Logging and Testing Program

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

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to $\pm 1,090$ ft., and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office. A Sonic log will be run from TD to a minimum of 200 ft above the top of the Mahogany oil shale.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

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

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

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

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

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within thirty (30) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

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

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

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

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

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

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

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

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

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

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

Ed Forsman (801) 789-7077
Petroleum Engineer

Wayne P. Bankert (801) 789-4170
Petroleum Engineer

Jerry Kenczka (801) 781-1190
Petroleum Engineer

BLM FAX Machine (801) 781-4410

EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

SURFACE USE PROGRAM
Conditions of Approval (COA's)

Conditions from the Site specific Environmental Analysis for Chandler well:
15-19-8-22 in lot 19, section 19, T. 8 S., R. 22 E. Uintah County, Utah:

5.0 Environmental Impacts:

" The area will have a closed production system. Produced water will be stored in closed tanks until it is either injected into injection wells, or hauled to approved disposal pits. Reserve pits containing well cuttings, clays, and additives for drilling are not considered hazardous. They will be buried at the well site.

The excess fluids left in the reserve pit after the well is drilled will be hauled to approved disposal pits."

6.0 Mitigation Stipulations:

A. VEGETATION/LANDSCAPE

Before the site is abandoned the company will be required to restore the well pad and access road to near their original state. The disturbed area will be reseeded with desirable perennial vegetation.

Although the road right-of-way will be 30 feet wide, the graded area of the road will be limited in most places to 21 feet. Where deep cuts are required, where intersections occur, and where sharp curves occur the road may be constructed wider than 21 feet.

Noxious weeds will be controlled on all well sites and rights-of-way. If noxious weeds spread from the project area onto adjacent land, the company will also be responsible for their control.

B. SOILS/RANGE/WATERSHEDS

Soil erosion will be mitigated by reseeded all disturbed areas.

About 17 rods of fence will be constructed around the reserve pit until it is backfilled.

The reserve pit will be lined with an impervious synthetic liner.

A metal or fiberglass tank will be used for a closed production system instead of a disposal pit.

Production water, oil, and other byproducts will not be applied to roads or well pads for the control of dust or weeds.

Indiscriminate dumping of oil field byproducts on tribal lands will not be allowed.

Other Additions for the Surface Use Plan:
(refer to the APD Surface Use Plan Items)

Item 7. Methods for Handling Waste Disposal.

During a 90 day period following first production, in accordance with Onshore Order #7, an application for a permanent disposal method and location, along with required water analysis, shall be submitted for the approving officer's approval. Failure to file this application within the time allowed will be considered an incident of noncompliance.

Item 10. Plans for the Restoration of Surface

b. Dry hole/Abandoned location

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment to the BLM. Production facilities, miscellaneous items no longer needed at the location, and old surface flow lines for the location shall be removed. The operator should consult with the Bureau of Indian Affairs for reseeding and recontouring requirements and if there are any additional reclamation requirements.

On BIA administered lands: Abandoned well sites, roads, or other disturbed areas will be restored to near their original condition. This procedure will include:

- a. Re-establishing irrigation systems where applicable.
- b. Re-establishing soil conditions in irrigated fields in a way that ensures cultivation and harvesting of crops can be resumed.
- c. Ensuring that revegetation of the disturbed areas to the specifications of the Ute Indian Tribe or the BIA occurs. These specifications should be determined when the operator consults with BIA following the plugging of the well. (Refer to the BIA concurrence for further comments)

Item 12. Other Additional Information:

b. ON BIA administered lands:

Operators' employees, including subcontractors, will not gather firewood along roads constructed by operators. If woodcutting is required a permit will be obtained according to BIA requirements of the Forestry Department of the BIA.

Proper rights-of-way agreements will be made for the project before the operator begins construction activities.

Roads will have appropriate signs. Signs will be neat and of sound construction. They will state: if the land is owned by the Ute Indian Tribe, the name of the operator, that firearms are prohibited to all non-Ute Tribal members, that permits must be obtained from the BIA before cutting firewood or other timber products, and only authorized personnel are permitted.

All wellsite locations on the Uintah and Ouray Indian Reservation will have an appropriate sign indicating the name of the operator, the lease serial number, the well name and number, and the survey description of the well (either footages or the quarter-quarter section, section, township, and range).

A complete copy of the approved APD shall be on location during construction of the location and drilling activities.

CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: CHANDLER & ASSOCIATES

Well Name: GLEN BENCH 15-19-8-22

Api No. 43-047-32756

Section 19 Township 8S Range 22E County UINTAH

Drilling Contractor CHANDLER

Rig #: 7

SPUDDED:

Date: 7/8/96

Time: _____

How: DRY HOLE

Drilling will commence: _____

Reported by: D. HACKFORD-DOGM

Telephone #: _____

Date: 7/9/96 Signed: JLT

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

1. Well name and number: GLEN BENCH UNIT #15-19-8-22

API number: 43-047-32756

2. Well Location: QQ SWSE Section 19 Township 8S Range 22E County UINTAH

3. Well operator: CHANDLER & ASSOCIATES, INC.

Address: 475 17th STREET, SUITE 1000

DENVER, CO 80202

Phone: (303) 295-0400

4. Drilling contractor: CHANDLER DRILLING CORPORATION

Address: 475 17th STREET, SUITE 1000

DENVER, CO 80202

Phone: (303) 295-0400

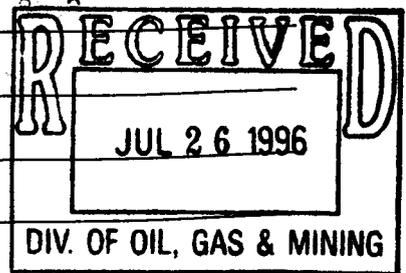
5. Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
N.A.	N.A.	N.A.	N.A.

6. Formation tops: KICKER ZONE 3398

"X" MARKER 3982

GLEN BENCH SAND 4758



if an analysis has been made of the water encountered, please attach a copy of the report to this form.

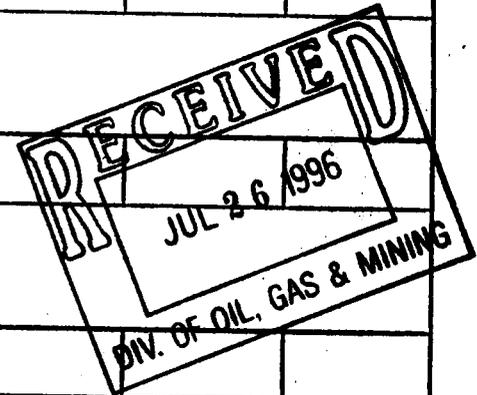
I hereby certify that this report is true and complete to the best of my knowledge. Date: 7-24-96

Name & Signature: [Signature] Title: VICE PRESIDENT OF OPERATIONS

OPERATOR CHANDLER & ASSOCIATES, INC.
ADDRESS 475 17th STREET, SUITE 1000
DENVER, CO 80202

OPERATOR ACCT. NO. N 3320

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
<u>A</u>	<u>99999</u>	<u>11955</u>	<u>43-04732756</u>	<u>Glen Bench Unit#15-19-8-22</u>	<u>SWSE</u>	<u>19</u>	<u>8S</u>	<u>22E</u>	<u>Uintah</u>	<u>7-08-96</u>	<u>7-08-96</u>
WELL 1 COMMENTS: <u>Entity added 7-29-96. See</u> <u>(Glen Bench Unit/ops. req. individual entity as other unit wells)</u>											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											



ACTION CODES (See instructions on back of form)

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

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

(3/89)

[Signature]
Signature

Vice President/Operations 7/24/96
Title Date

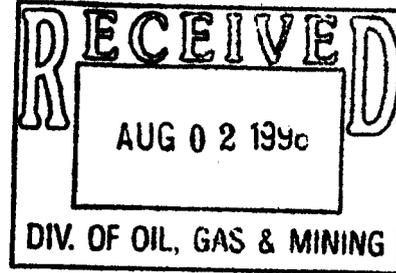
Phone No. (303) 295-0400



CHANDLER & ASSOCIATES, INC.

475 17TH ST. • SUITE 1000 • DENVER, COLORADO 80202 • 303 295-0400
OIL & GAS EXPLORATION AND PRODUCTION FAX 303 295-0222

July 29, 1996



Dan Jarvis
Utah Division of Oil, Gas and Mining
1594 W. North Temple
Salt Lake City, Utah 84114

**RE: Glen Bench Unit #15-19-8-22
SW SE, Section 19, T8S, R22E
Uintah County, Utah**

Mr. Jarvis;

I wish to inform you and your agency that it is Chandler and Associates, Inc. intention to convert the aforementioned well into a Class II water injection well, utilizing the perforations (4759'-4765'). The application process with the Environmental Protection Agency is being finalized and will be submitted to that agency shortly.

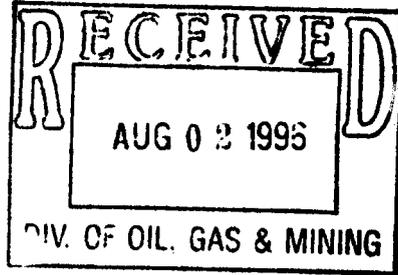
At this time I would like to request that if there are any information requirements or procedures that need to be complied with through your agency, please contact me at (303) 295-0400.

Sincerely,

CHANDLER AND ASSOCIATES, INC.

Thomas D. Taylor
Production Geologist

APPLICATION FOR INJECTION WELL - UIC FORM 1



OPERATOR Chandler & Associates, Inc.
ADDRESS 475 17th Street Suite 1000
Denver, CO 80202

Well name and number: Glen Bench Unit #15-19-8-22
Field or Unit name: Glen Bench Unit Lease no. UTU 73974A
Well location: QQ SWSE section 19 township 8S range 22E county Uintah

Is this application for expansion of an existing project? . . . Yes No
Will the proposed well be used for: Enhanced Recovery? . . . Yes No
Disposal? Yes No
Storage? Yes No
Is this application for a new well to be drilled? Yes No
If this application is for an existing well,
has a casing test been performed on the well? Yes No
Date of test: _____
API number: 43-047-32756

Proposed injection interval: from 4759 to 4765
Proposed maximum injection: rate 470 BWPD pressure 750 psig
Proposed injection zone contains oil, gas, and/or fresh water within 1/2 mile of the well.

IMPORTANT: Additional information as required by R6 49-5-2 should accompany this form.

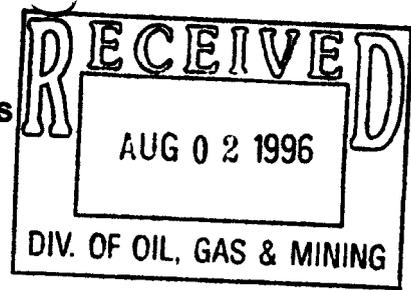
List of Attachments: Area of Review map, Well bore profile and log photo copies, water sample analysis, step rate test, geological data, surface ownership map

I certify that this report is true and complete to the best of my knowledge.
Name Thomas D. Taylor Signature [Signature]
Title Production Geologist Date 7/31/96
Phone No. (303) 295-0400

(State use only)
Application approved by _____ Title _____
Approval Date _____

Comments:

SUPPLEMENT TO ATTACHMENTS



1. Application for Injection Well - Glen Bench Unit #15-19-8-22:

Chandler and Associates, Inc., is applying to convert the Glen Bench Unit #15-19-8-22 into an Underground Injection Control (UIC) well. The Glen Bench Unit #15-19-8-22 is within the boundaries of an existing, approved Enhanced Recovery Unit (UTU 73974 A) and currently produces from the Glen Bench sandstone of the Green River formation. All information regarding the Glen Bench Unit, such as engineering report, maps, well tests, and logs have been submitted to the State of Utah, Bureau of Land Management, Bureau of Indian Affairs and Environmental Protection Agency.

2. Map of wells and area of review - Attachment A:

Attachment A is a 7.5 minute topographic map which shows the Area of Review (AOR) as defined by an area with ½ mile radius from the proposed Class II injector, Glen Bench Unit #15-19-8-22. There are no known active water wells or injection wells within the boundaries of the area of review. The Glen Bench #31-30 has been permitted as a Class II injection well (UT2764-04247) for the Glen Bench Unit, but has been returned to production effective March 1996.

3. Logs:

Copies of electrical, radioactive, and cement bond logs for the wells within the AOR are on file with State of Utah, Division of Oil, Gas and Mining. Photocopy segments of the cement bond logs are attached to the corresponding well bore diagram.

4. Construction details - Attachment B:

The well bore profile for Glen Bench Unit #15-19-8-22 shows the current construction. The string of surface protection consists of 395', 8-5/8", 24#, J-55 casing set with 300 sacks of class 'G' cement in a 12-1/4" hole. Production string consists of 4914' of 5-1/2", 15.5#, J-55 casing set with 460 sacks of 50/50 Pozimix cement and 230 sacks Lite cement in a 7-7/8" hole. Cement was circulated to surface. Top of the "Lite" cement at 1110' is derived from the cement bond log. The perforated interval (4759-4765') or injection zone appears to have bond in excess of 95%. The 2-7/8" tubing is to be secured with a 5-1/2" 'T' anchor set at approximately 4700' w/13,000# tension.

Procedures to convert the Glen Bench Unit #15-19-8-22 well bore would be as follows:

- 1) MIRU, Unseat pump. POOH w/ rods and pump.
- 2) RIH with bit and scraper to PBTD.
- 3) Set ret. Packer @ 4740'
- 4) Test well for Mechanical Integrity (MIT); if passed successfully, hook up surface equipment, place well on injection status, and wait on EPA approval to start injection.

5. Injection Fluid - Attachment C:

A water sample has not been taken from the Glen Bench Unit #15-19-8-22. Analysis from produced water from the Glen Bench zone in the nearby Glen Bench #31-30 (NW NE 30, T8S, R22E) is listed below.

Total Dissolved Solids (TDS) = 37,573 Mg/l(ppm)

ph = 8.5

Specific Gravity = 1.020

The primary water source for injection would be the White River #31-4 well in Section 4, T8S, R22E. This well has been approved as a source water for water floods, State of Utah water user claim Code #49, Serial #287. Chandler and Associates Inc. is the operator of record for this water source well, acquiring it from Flying J. The primary source water has a specific gravity of 1.001 gm/cc, ph of 8.4 and TDS of 2720 mg/l.

6. Operating Data - Attachment D:

A Step Rate Injectivity Test has not been performed on the Glen Bench Unit #15-19-8-22. However, an injectivity test was performed on the Glen Bench #31-30 whereby 2% KCl water was injected and pressures measured when stabilized at five minute intervals. The face fracture gradient for the Glen Bench zone of Green River formation calculated to be 0.64 psi/ft, the gradient was determined using the breakpoint on the injectivity test

- 1) The anticipated initial daily injection volume would be approximately 470 bbls of fluid.
750 psi @ 0.325 BPM = 468 BWPD
- 2) The maximum initial surface pressure requested is 750 psi. or approximately 234 psi below the maximum breakpoint pressure of 984.3 psi.
 $4765' \times 0.433 \text{ psi./ft.} = 2063 \text{ psi.}$
Injected pressure = 750 psi. + 2063 psi. = 2813 psi.
Injected pressure gradient = 2813 psi. / 4765' = 0.59 psi/ft.
Anticipated average surface injection pressure range from 750-500 psi.
- 3) Theoretical maximum allowable surface injection pressure (Pm) is 984.3 psi.
Pm = maximum pressure at the wellhead
1.001 = specific gravity of injected fluid
0.64 = face fracture gradient
4765' = depth to base sand
.433 = normal pressure gradient
 $Pm = [0.64 - 0.433 (1.001)] 4765 = 984.3 \text{ psig}$
- 4) Nature of the annulus fluid is described as packer fluid; a mixture of fresh water with scale and corrosion inhibitors.

7. Geological data on injection and confining zones - Attachment E:

The proposed injection interval in the Glen Bench Unit #15-19-8-22 is the existing perforations in the Glen Bench (Local Name) pay zone of the Tertiary Green River formation at 4759'- 4765' KB. The total section of the Green River formation that overlies the proposed injection interval is approximately 2453' thick. The lithology of this rock section consists of shales, siltstones, limestones and thin sandstone lenses. The Glen Bench zone for this well is an interval seven feet (4758'- 65') thick, and is made up of almost entirely of sandstone; described as white to frosted, angular to sub-angular, medium sorted, unconsolidated, friable sandstone. The confining zone above the proposed injection zone consists of 283' of shale (4475' - 4758') that is calcareous in part with occasional thin siltstone and sandstone stringers.

The six foot Glen Bench pay interval has a calculated log porosity of 13.75%. There were no cores or drill stem tests. Permeability of 104 md has been extrapolated for the pay zone in the Glen Bench Unit #15-19-8-22, by using the calculated permeability from the Glen Bench #31-30.

There were no observed fresh water zones encountered while drilling this well. The base of moderately saline water (TDS 10,000 mg/l or less) is derived from USGS OPEN-FILE REPORT 87-394/Utah Dept. of Natural Resource Technical Pub. No. 92; Base of Moderately Saline Ground Water in the Unita Basin, Utah. 1987; Howell, L., Longson, M.S., and Hunt, G.L. From this publication and corresponding plates, it appears that the base of moderately saline water is between 2,000' and 3,000' below sea level which corresponds approximately to the Unita/ Green River contact in the Glen Bench Unit #15-19-8-22 well bore at 2304' KB (+2481').

An estimation of the formation water resistivity in some porous intervals in the Glen Bench Unit #15-19-8-22 well bore are tabulated below. The Porosity - Resistivity Method of analysis was used to calculate the water's apparent resistivity (Rwa) at formation temperature. Schlumberger's table for Resistivity of NaCl Solutions (Gen.-9) was used as a guide to determine the resistivity values at 75°F and the corresponding NaCl concentration in parts per million (ppm). From well log analysis is tabulated below, it appears that the approximate base of moderately saline water is between 1996' KB and 2298' KB.

Bore hole Measurements :

BH Temp : 126 deg F @ 5200'

Rmf : 0.116 ohms @ 76 deg. F

Rm : 0.133 ohms @ 76 deg. F

Porosity - Resistivity Method: $Rwa = Rt/F$

Depth	Density Porosity	Neutron Porosity	Porosity	Form. Factor	Rt (ohms)	Rwa	Temp. °F	NaCl (ppm)
690'	21%	28%	25%	16	25	1.56	78°	3500
1055'	23%	29%	26%	18.9	25	1.32	86°	3750
1540'	18.5%	27%	23%	18.9	15	.794	91°	5100
1600	22%	31%	27%	13.7	8	.583	91°	8100
1700'	20%	28.5%	24.5%	16.7	12	.720	92°	6500
1794'	22%	31%	27%	13.7	9	.656	93°	7000
1996'	12.5%	20%	16.5%	18.1	9	.44	95°	9500
2298'	12.5%	20%	16.5%	18.1	7	.385	98°	12000
3356'	14%	24.5%	19.6%	14.03	10	.384	108°	11000
3560'	14%	21%	17.8%	31.56	12	.38	110°	11000

8. Mechanical Conditions of Wells in the AOR - Attachment F:

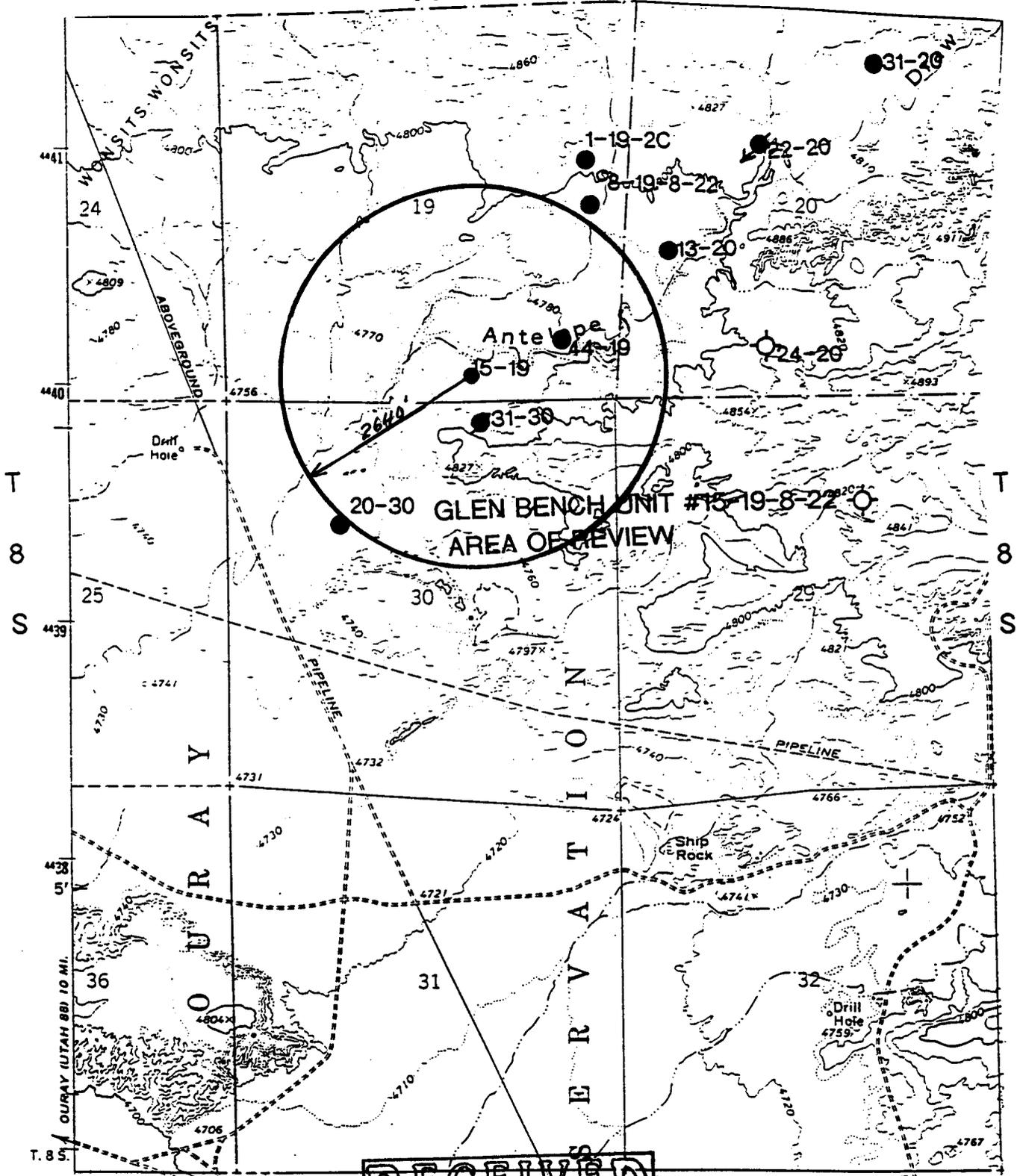
The Glen Bench #31-30 and the Glen Bench #44-19 both are within the AOR for the Glen Bench Unit #15-19-8-22. Attachment F contains the well bore diagram and copy of the Cement Bond Log over the Glen Bench interval for these wells. Both of these wells demonstrate good cement bond over the proposed injection interval.

9. Surface Ownership Attachment G:

Listed below is the surface ownership for all the lands that fall within the Area of Review. All parties concerned have been notified as to our intent to convert the Glen Bench Unit #15-19-8-22.

- Section 19, T8S R22E; all : USA; In Trust For The Ute Indian Tribe
- Section 30, T8S R22E; N ½: USA; In Trust For The Ute Indian Tribe
- Section 20, T8S R22E; SW/4 : USA; In Trust For The Ute Indian Tribe
- Section 29, T8S R22E; W ½ : USA; In Trust For The Ute Indian Tribe

R 22 E



RECEIVED
 AUG 02 1996
 DIV. OF OIL, GAS & MINING

SCALE 1:2000

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

SUBMIT IN DUPLICATE

(See instructions on reverse side)

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 DEEPEN PILE BACK DIFF. REVR. Other _____

2. NAME OF OPERATOR
Chandler & Associates, Inc.

3. ADDRESS OF OPERATOR
475 17th Street Suite 1000, Denver CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface SWSE (329' FSL & 1987' FEL)
At top prod. interval reported below Same
At total depth Same

14. PERMIT NO. 43-047-32756 DATE ISSUED 06-24-96

15. DATE SPUDDED 07-08-96 16. DATE T.D. REACHED 07-21-96 17. DATE COMPL. (Ready to prod.) 08-01-96 18. ELEVATIONS (DP, RKB, RT, CR, ETC.)* 4775' GT, 4795' KB 19. ELEV. CASINGHEAD _____

20. TOTAL DEPTH, MD & TVD 5175 21. PLUG. BACK T.D., MD & TVD 4871 22. IF MULTIPLE COMPL., HOW MANY* N.A. 23. INTERVALS DRILLED BY ROTARY TOOLS 0- TD CABLE TOOLS _____

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4759' - 4765' 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN DI - FL/GR CNL - CDL/GR CBL 27. WAS WELL CORED No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
<u>14</u>	<u>--</u>	<u>13</u>	<u>16</u>	<u>7 vds. Redi-mex</u>	<u>---</u>
<u>8 5/8</u>	<u>24</u>	<u>395</u>	<u>12 1/4</u>	<u>300 SX Class G'</u>	<u>---</u>
<u>5 1/2</u>	<u>15.5</u>	<u>4914</u>	<u>7 7/8</u>	<u>230 SX lite</u>	<u>---</u>
				<u>460 SX 50/50 Poz-mix</u>	<u>---</u>

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)
4759' - 4765' w/ 4ISPF .05" diameter holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
<u>4759-4765</u>	<u>Frac w/25,000# 20/20 sand</u>

33. PRODUCTION

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

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

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) _____

35. LIST OF ATTACHMENTS
CBL

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

SIGNED [Signature] TITLE V/p of Operations DATE 07-24-96

5. LEASE DESIGNATION AND SERIAL NO. UTU-73974X

6. IF INDIAN, ALLOTTEE OR TRIBE NAME Ute Indian Tribe

7. UNIT AGREEMENT NAME Glen Bench

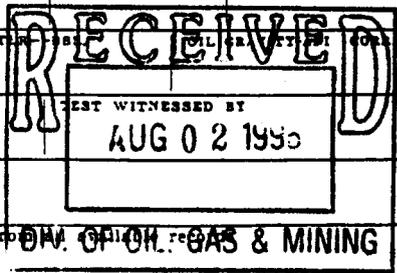
8. FARM OR LEASE NAME Glen Bench Unit

9. WELL NO. 15-19-8-22

10. FIELD AND POOL, OR WILDCAT Glen Bench

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 19-T8S-R22E

12. COUNTY OR PARISH Uintah 13. STATE UT



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

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
UINTA SS	SURFACE	2304'	SAND & SHALE
GREEN RIVER	2304'	5094'	SANDSTONE, SILTSTONE, LACUSTRINE, SHALE, OIL SHALE, LIMESTONE, DOLOMITTE
WASATCH	5094'	TD	SANDSTONE, SILTSTONE, SHALE

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
"KICKER" ZONE	3398'	3398'
"X" MARKER	3982'	3982'
GLEN BENCH SS	4758'	4758'

CURRENT CONSTRUCTION

Well Name : Glen Bench Unit #15-19-8-22

Date : 07/29/96

Location : 1987' FEL & 329' FSL (SENW) Sec. 19, T8S R22E

County : Uintah

Field : Glen Bench

State : Utah

Spud: 07/08/96

KB : 4775'

Comp: 08/01/96

GL : 4785'

API:

Surface Casing →
8-5/8", 24#,
Set w/ 300 sxs 'G'
set @ 395'

395'

Production Casing →
5-1/2", 15.5#, J-55
Set w/230 sxs "Lite"
& 460 sxs 50/50 "Poz-mix"
Set @ 4914'

Tubing →
2-7/8", 6.5#, J-55
8rd EUE. Set to 4770'

Tubing Breakdown

2-7/8" 8 rd tbg

5-1/2" Tubing anchor - 4740' KB

Top of cement @ 1110' CBL

Formation Tops

Uintah	Surface
Green River	2304'
Glen Bench	4758'-4765'
Wasatch	5094'

Tubing anchor @4740'

Perfed 4759'-4765' w/ 4 SPF
Breakdown w/500 gals 2% KCl
Frac: 25,00# 20/20 sd.

PBTD4871'
TD 5175'

COMPANY CHANDLER & ASSOCIATES		WELL GLEN BENCH UNIT 15-19-B-22	
FIELD GLEN BENCH		COUNTY UINTAH STATE UT	
COMPANY CHANDLER & ASSOCIATES		WELL GLEN BENCH UNIT 15-19-B-22	
FIELD GLEN BENCH		COUNTY UINTAH STATE UT	
API No. Location 329 PSL / 1987 FEL		Other Services	
Sand 19 Temp 89 Rps 22E		WATER	
Permanent Datum G.L. Elev 4775		Elev. K.R. 4785	
Log measured from K.B. 10 ft. above perm. datum		D.F. 4794	
Drilling measured from K.B.		G.L. 4775	
Date @ Time Logged 07/27/95 @ 10:30 AM		Type fluid in hole	
Run No. ONE		Density of Fluid	
Depth - Driller 4870		Fluid Level FULL	
Depth - Logger 4829		Cement Top Est. Logged	
Bottom - Logged Interval 4823		Equipment / Location 51185 / 55995	
Top - Logged Interval 0		Recorded by BOURDEAU	
Mix. no. temp. deg. F. NA		Witnessed by M.F. SIMONTON	
CEMENTING DATA		Production	
Surface String		String	
Production String		Liner	
Date/Time Cemented		Primary/Spacer	
Expected		Compressive Strength	
Cement Volume		Cement Type / Weight	
Formulation		MUD Type / MUD Wgt.	
BOREHOLE RECORD		CASING & TUBING RECORD	
No. BH From To		Size Wgt. From To	
8 5/8 5.9 0 409 TD.		15.5 0	



CEMENT BOND LOG

BLM.

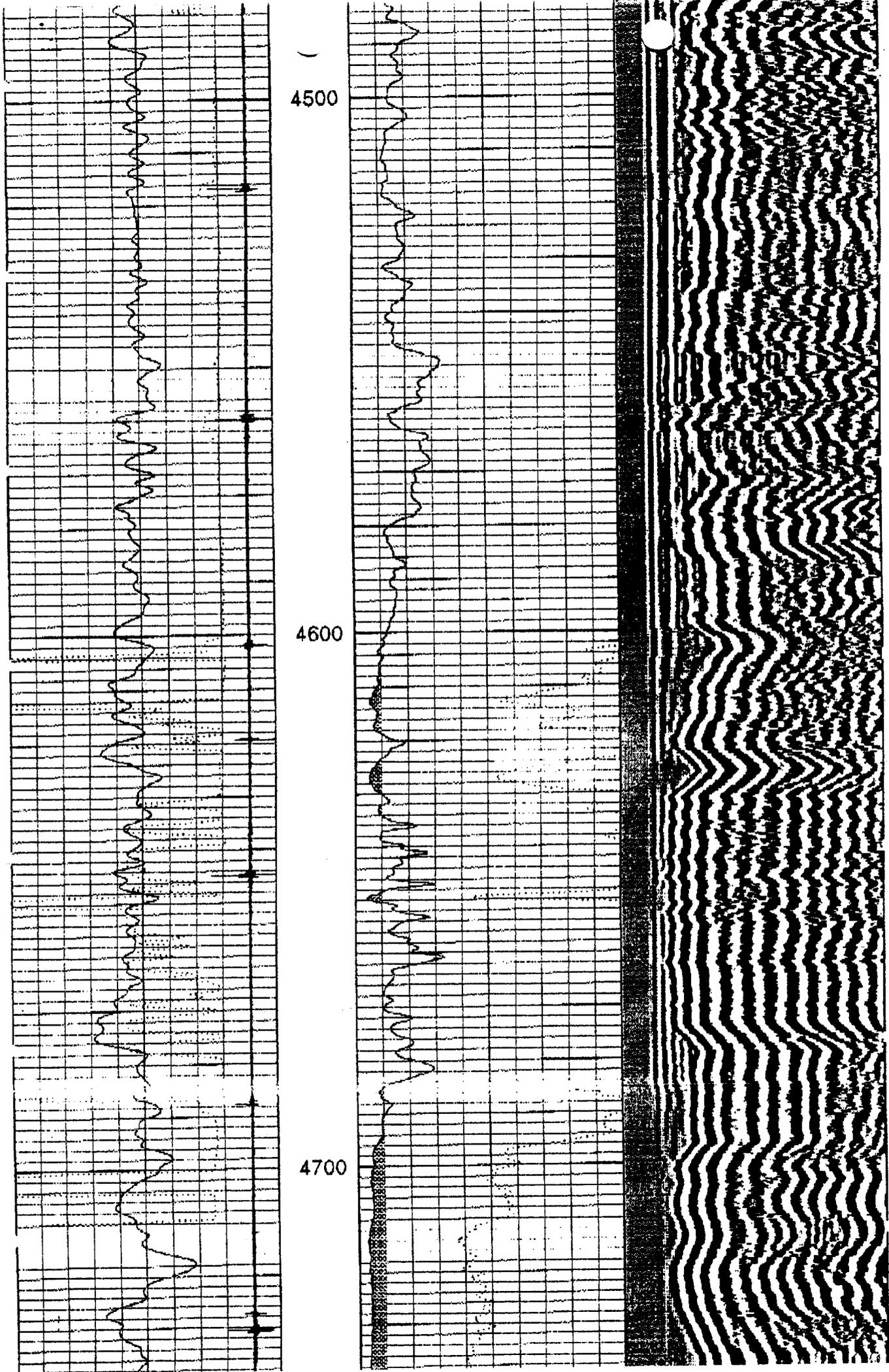
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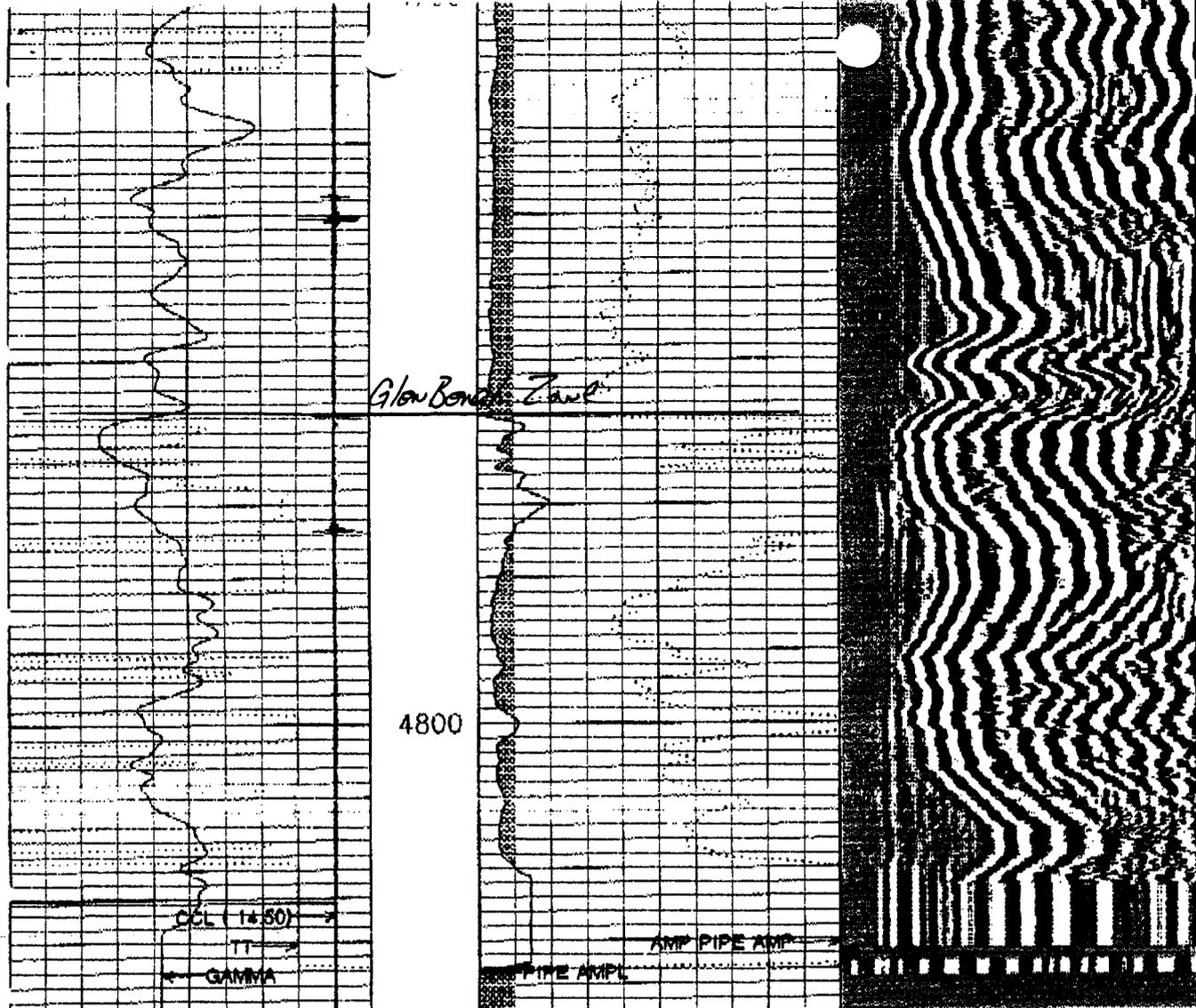
Service Ticket No.: 882283		API Serial No.:		PGM Version: XL v2.00					
The Well Name, Location, Cementing Data & Borehole Description Furnished By Client									
CEMENTING DATA									
Cement Pumped		bb/min @		Joint From To					
Preceding Fluid		Volume		Joint From To					
Returns (Full, Partial, None)?				Joint From To					
Pipe Rotated / Reciprocated				Joint From To					
During Pumping (Yes, No)?				Joint From To					
After Plug Down (Yes, No)?				Joint From To					
Plug Pumped (Yes, No)?				Joint From To					
Plug Landing Pressure		Psi		Joint From To					
Pressure Held		Psi		Hrs After Pumping					
EQUIPMENT DATA									
GAMMA		NEUTRON		ACOUSTIC					
Run No.	ONE	Run No.		Run No.	ONE				
Serial No.	340	Serial No.		Serial No.	340				
Model No.	G	Model No.		Model No.	G				
Diameter	3.25	Diameter		Diameter	3.250				
Detector Model No.		Log Type		No of Cmt	2				
Type		Source Type		Spacing	385				
Length		Serial No.							
Distance to Source		Strength							
LOGGING DATA									
GENERAL				GAMMA		NEUTRON		ACOUSTIC	
Run No.	Depth	Well Head	Based	Scale	Scale	Scale	Scale	Scale	Scale
	From	Pressure	R / Min	L	R	L	R	L	R
ONE	4823	0	35	0	150			200	1200
Remarks:									
THANK YOU FOR YOUR BUSINESS									
CALL API (801) 533-1111 FOR A MORE DETAILED REPORT									

4500

4600

4700





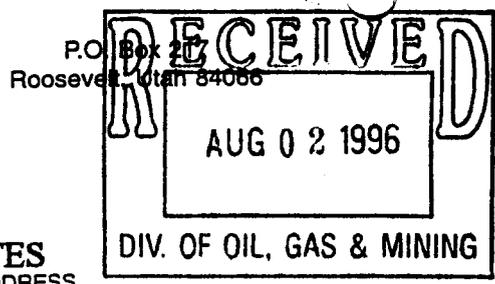
0	CCL (14.50)	3500	0	AMP PIPE AMP	10	0	MSG	1200
300	TT US	200	0	PIPE AMPL	100	200	4-uSEC	
0	GAMMA GAMMA API	150						



Version No: 2.00 | no:2.0
 Data File: 0727_1010_00264.6.xls
 Control File: plot_01_1.apo
 Footer File: 0727_1010_00264.plot_01_1

Top Depth: ———
 Bottom Depth: 4838.75
 Database Time: 07-27-98 11:14:27

MAIN LOG



Office (801) 722-5066
Fax (801) 722-5727

WATER ANALYSIS REPORT
CHANDLER AND ASSOCIATES

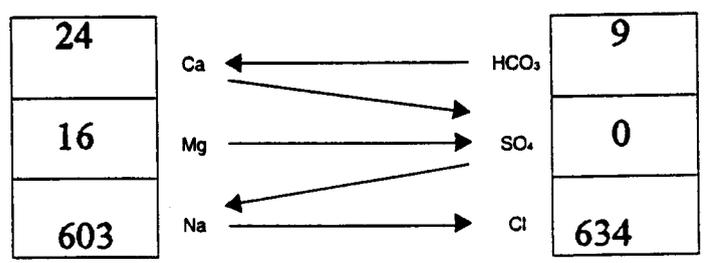
DATE 08-03-95

COMPANY _____ ADDRESS _____
SOURCE 31-30 DATE SAMPLED 08-03-95 ANALYSIS NO. _____

Analysis	Mg/l(ppm)	*Meq/l
1. PH	<u>8.5</u>	
2. H ₂ S (Qualitative)	<u>0</u>	
3. Specific Gravity	<u>1.020</u>	
4. Dissolved Solids	<u>37,573</u>	
5. Suspended Solids		
6. Anaerobic Bacterial Count _____ C/MI		
7. Methyl Orange Alkalinity (CaCO ₃)		
8. Bicarbonate (HCO ₃)	<u>550</u>	+61 <u>9</u> HCO ₃
9. Chlorides (Cl)	<u>22,500</u>	+35.5 <u>634</u> Cl
10. Sulfates (SO ₄)	<u>0</u>	+48 <u>0</u> SO ₄
11. Calcium (Ca)	<u>480</u>	+20 <u>24</u> Ca
12. Magnesium (Mg)	<u>194</u>	+12.2 <u>16</u> Mg
13. Total Hardness (CaCO ₃)	<u>2,000</u>	
14. Total Iron (Fe)	<u>4.1</u>	
15. Barium (Qualitative)		
16. Phosphate Residuals		

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca(HCO ₃) ₂	81.04		<u>9</u>		<u>729</u>
CaSO ₄	68.07				
CaCl ₂	55.50		<u>15</u>		<u>833</u>
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62		<u>16</u>		<u>762</u>
NaHCO ₃	84.00				
Na ₂ SO ₄	71.03				
NaCl	58.46		<u>603</u>		<u>35,251</u>

Saturation Values	Distilled Water 20°C
CaCO ₃	13 Mg/l
CaSO ₄ · 2H ₂ O	2,090 Mg/l
MgCO ₃	103 Mg/l

REMARKS _____

WATER ANALYSIS REPORT CHANDLER

07-27-95

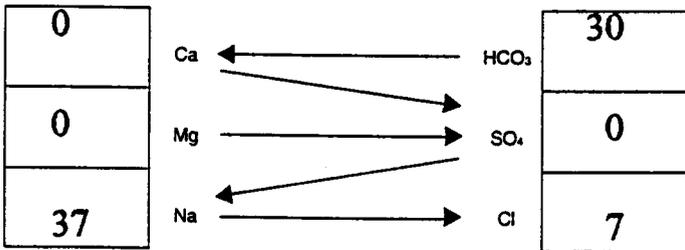
COMPANY _____ ADDRESS _____ DATE _____

SOURCE 31-4 ~~34-1~~ WATER WELL DATE SAMPLED 07-27-95 ANALYSIS NO. _____

Analysis	Mg/l(ppm)	*Meq/l
1. PH	8.4	
2. H ₂ S (Qualitative)	20.	
3. Specific Gravity	1.001	
4. Dissolved Solids	2,929	
5. Suspended Solids		
6. Anaerobic Bacterial Count		C/ML
7. Methyl Orange Alkalinity (CaCO ₃)		
8. Bicarbonate (HCO ₃)	1,850	30
9. Chlorides (Cl)	250	7
10. Sulfates (SO ₄)	0	0
11. Calcium (Ca)	4	0
12. Magnesium (Mg)	2	0
13. Total Hardness (CaCO ₃)	20	
14. Total Iron (Fe)	0.2	
15. Barium (Qualitative)		
16. Phosphate Residuals		

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca(HCO ₃) ₂	81.04				
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00		30		2,520
Na ₂ SO ₄	71.03				
NaCl	58.46		7		409

Saturation Values	Distilled Water 20°C
CaCO ₃	13 Mg/l
CaSO ₄ · 2H ₂ O	2,090 Mg/l
MgCO ₃	103 Mg/l

REMARKS _____

The Western Company Treatment Report

Date 08-02-94 District VERNAL F.Receipt 286258 Operator CHANDLER & ASSOC
 Well Name GLENN BENCH FED 31-30 Field _____ Location 30-8S-22E
 County UINTAH State UT Stage No. _____

WELL DATA New Oil Depth TD/PB 4923 Formation GREEN RIVER
 Tubing Desc. 2 7/8 6.5# Set at: 4732 Type Packer _____ Set at 4732
 Casing Desc. 5.5 17# Set From TD To SURFACE Liner Desc. _____
 Liner Set From _____ To _____ Open Hole Size _____ From _____ To _____
 Perforations: Size _____ Number: _____ Intervals _____
 Previous Treatment N/A Prior Production N/A

TREATMENT DATA No Pad Pad Type _____
 Treatment Fluid Type: Water Vol. 10800 Gal.
 Base Fluid Type 2% KCL Base Fluid Vol. 16800 Gal.
 Foam Quality. _____ % Total Prop Qty. 0 Lbs.
 Proppant Description _____
 Hole Loaded With 2% KCL Treated Via Tubing and Annulus
 Ball Sealers: _____ In _____ Stages of _____
 Types and Numbers of Pumps Used 1 CEMENT PUMP (SLURRY MASTER)
 Auxiliary Materials _____

LIQUID/GAS PUMPED & CAPACITIES IN BBL
 Tubing Cap. 27.4
 Casing Cap. .5
 Annular Cap. _____
 Open Hole Cap. _____
 Fluid to Load _____
 Pad Volume 0
 Treating fluid 243
 Flush 0
 Over Flush _____
 Fluid to Recover 243
 Total CO2 _____
 Total N2 _____

PROCEDURE SUMMARY
LOAD HOLE, PUMP RATE AT .25 BPM 5 MIN, .30 BPM 5 MIN
.35 BPM 5 MN, .40 BPM

TIME AM/PM	TREATING PRESSURE PSI		SURFACE SLURRY PUMPED BBLs		SLURRY RATE BPM	SURFACE CO2 PUMPED BBLs		CO2 RATE BPM	SURFACE N2 PUMPED MSCF		N2 RATE SCFM	COMMENTS SAFETY MEETING/TEST LINES
	STP	ANNULUS	STAGE	TOTAL		STAGE	TOTAL		STAGE	TOTAL		
7:40	2350	45										PRESSURE TEST
7:44		45		15	.6							START LOAD HOLE
8:08		50										HOLE LOADED SHUT DOWN
8:14		50			.4							LOAD HOLE START AGAIN
8:22		55		3								SHUT DOWN
8:24		55		13	.35							START LOAD HOLE
9:03		73	1ST	2.0	.25							HOLE LOADED START 1ST STAG
9:11		73	2ND	2.5	.30							START 2ND STAGE
9:20	2	78	3RD	3.0	.35							START 3RD STAGE
9:30	5	86	4TH	3.0	.4							START 4TH STAGE
9:37	7	94	5TH	3.0	.45							START 5TH STAGE
9:45	12	104	5TH	2.0	.45							START 5TH STAGE OVER
9:50	15	114	5TH	2.0	.45							START 5TH STAGE OVER
9:55	20	124	5TH	1.0	.45							START 5TH STAGE OVER
10:00	28	139	5TH	5.0	.45							START 5TH STAGE OVER

RECEIVED
 AUG 02 1996
 DIV. OF OIL, GAS & MINING

PROCEDURE SUMMARY CONTINUED ON NEXT PAGE

The Western Company Treatment Report

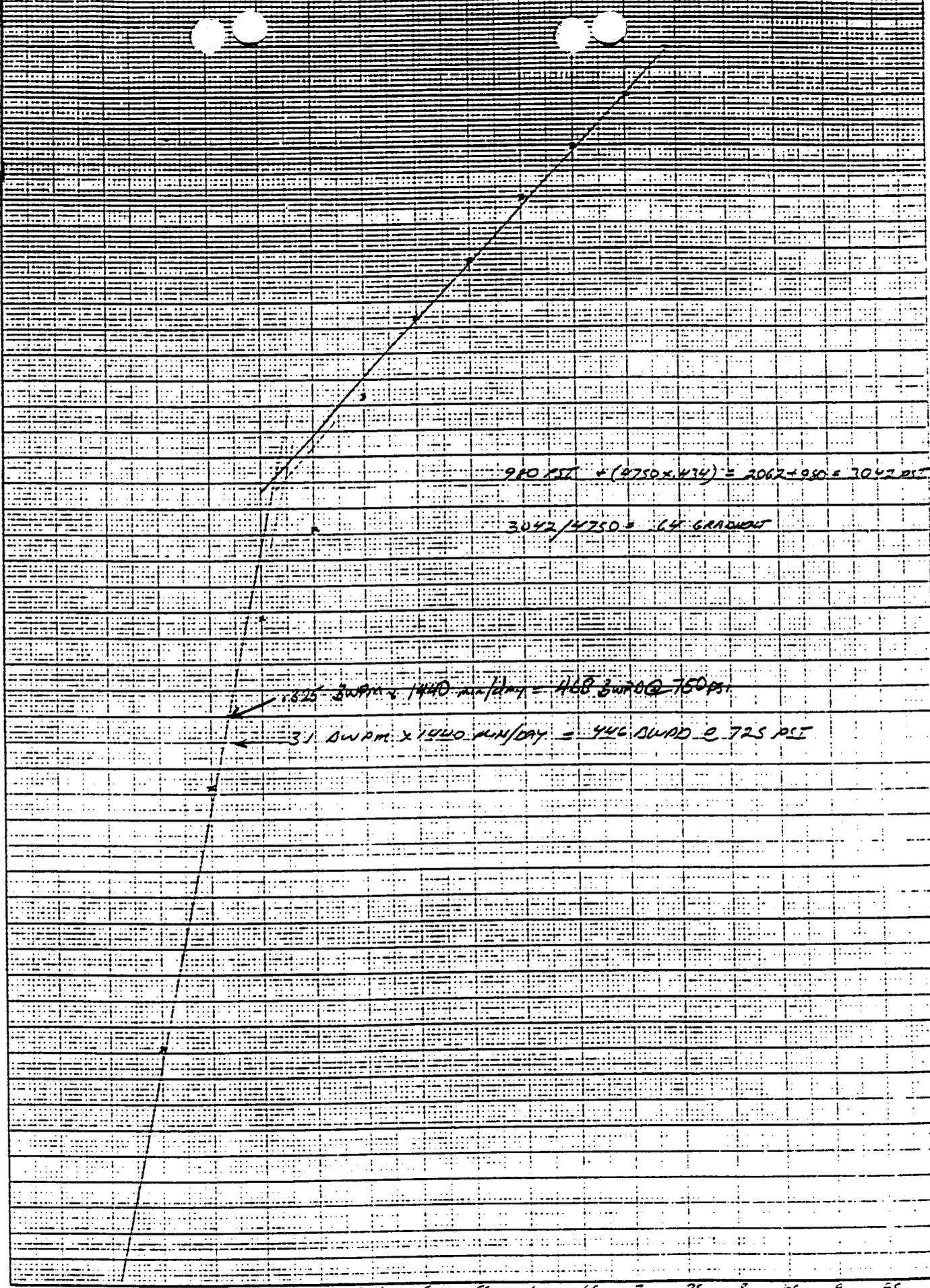
Date 08-02-94 District VERNAL F.Receipt 286258 Operator CHANDLER & ASSOC
 Well Name GLENN BENCH FED 31-30 Field _____ Location 30 - 8S - 22E
 County UINTAH State UT Stage No. _____

TIME AM/PM	TREATING PRESSURE PSI		SURFACE SLURRY PUMPED BBLs		SLURRY RATE BPM	SURFACE CO2 PUMPED BBLs		CO2 RATE BPM	SURFACE N2 PUMPED MSCF		N2 RATE SCFM	COMMENTS SAFETY MEETING/TEST LINES
	STP	ANNULUS	STAGE	TOTAL		STAGE	TOTAL		STAGE	TOTAL		
10:10	87	200	5TH	6.0	.45							START 5TH STAGE OVER
10:24	414	375	5TH	8.0	.45							START 5TH STAGE OVER
10:44	700	600	6TH	5.0	.50							START 6TH STAGE
10:56	800	800										SHUT DOWN
11:14					1.5							START TEST ANN. TO TUBING
11:16	338	338		3								SHUT DOWN
11:30												START TEST ANN.
11:32	320	320		2	1.3							SHUT DOWN
1:01	25			5	1.7							START TESTING TUBING
1:06												SHUT DOWN DROP STANDING VALVE
1:06	10				2.1							SPOT STANDING VALVE
1:31	280	51		35								SHUT DOWN TUBING NOT HO
												RIG REPLACED BAD PIPE
4:20	50			7	1.8							START LOAD PIPE TO TEST
4:24	350											SHUT DOWN DROP STANDING VALVE
4:29				15	.5							TEST TUBING
5:07	496	192										SHUT DOWN LET BLEED OFF
6:03	10	233		6.0	1.3							START FILLING TUBING
6:09	431	244	1ST	2.0	.25							START 1ST STAGE
6:21	681	226	2ND		.30							START 2ND STAGE
6:28	753	270	2ND	3.0	.30							START 2ND STAGE OVER
6:35	840	298	3RD	3.0	.35							START 3RD STAGE
6:44	927	415	4TH	4.0	.40							START 4TH STAGE
6:54	1058	483	5TH	3.0	.45							START 5TH STAGE
7:02	1135	616	6TH	3.0	.50							START 6TH STAGE
7:09	1187	714	7TH	4.0	.55							START 7TH STAGE
7:17	1243	681	8TH	4.0	.60							START 8TH STAGE
7:24	1282	663	9TH	3.0	.65							START 9TH STAGE
7:29	1295	657	9TH	4.0	.65							START 9TH STAGE
7:37	1333	750	10th	3.0	.70							START 10TH STAGE
7:41	1334	717										SHUT DOWN
7:56	182	-0-										15 MIN BLEED OFF

Treating Pressure: Min _____ Max 1334 Avg. 550 Customer Representative JIM SIMONTON
 Inj. Rate on Treating Fluid _____ Rate on Flush _____ Western Representative REX EDWARDS
 Avg. Inj. Rate _____ I.S.D.P. 1100 Flush Dens. lbs/gal 8.4
 Final Shut-in Pressure _____ In 15 Minutes
JOB NUMBER 168485 Operator's Maximum Pressure (psi) 2000
 Recommendation ID# VR286258

1400
1300
1200
1100
1000
900
800
700
600
500
400
300

Pressure (Surround) PSI (See 14.2803)



.1 .15 .2 .25 .3 .35 .4 .5 .55 .6 .65 .7 .75 .8 .85 .9 .95 1.0

10 Millimeters to the Centimeter

Rate BWPM

MELTON ENTERPRISES, INC.

Hydrocarbon Analysis

Box 606 Vernal, Utah 84078

(801) 789-2539

Company: CHANDLER & ASSOCIATES, INC.

Well: GLEN BENCH #15

Location: SEC 19 T8S R22E

Survey: 329' FSL 1987' FEL

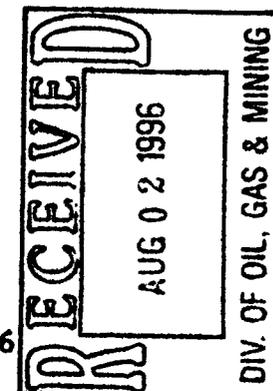
County & State: UINTAH, UTAH

Geologists: ROBERT B. FRANCKE

Elev: G. L.: 4775 R. K. B.: 4787

Dates Logged: 7/15/1996 to 7/21/1996

Interval Logged: 400 to 5178



NR- No returns
CG- Core Gas
CO- Core Out
TG- Trip Gas
DSY- Drill Stem Test

DC- Depth Correction
NB- New Bit
NCC- New Core Bit
DCB- Diamond Core Bit
DS- Directional Survey

Lithology Symbols

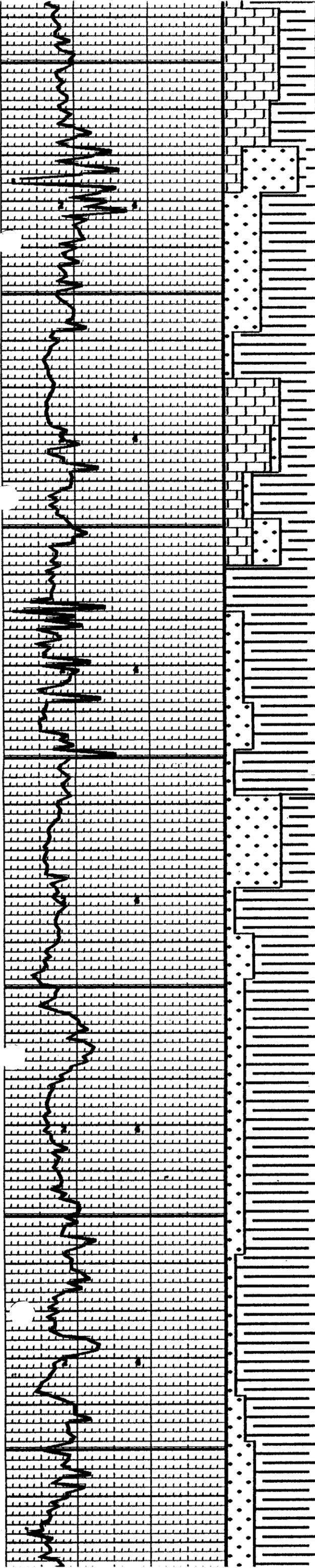
	Sand		Chert
	Lime		Conglomerate
	Dolo		Shale
	Anhydrite		Salt

Gas Chromatograph Analysis

Total Gas - C1 - - - -
C2 - - - - C3 - - - -
C4 - - - - C5 - - - -

Rate of Penetration Min/Foot, Feet/Hour Graphic Lith Descriptions and Remarks Poroflor 0-251008 Cut TFG Gas Analysis

		DRILLED BY CHANDLER RIG #7 - SET 398 FT 248 J-55 CSG @ 410 FT				20					
		NOTE: RIG CREW CATCHING UNLAGGED SAMPLES...					RPM 70/75 WOB 35/40 60				
		SS-GY GRN ANK IP RD- TT VF-FG SBANG SS- RD DRY W/BLK MIN INCLNS						30	60	40	
		SH-GY GRN RD MAR FRM- RD BLKY SDY SLTY CALC						500			
		MUD CK: WT 8.7+ VIS 26 PH 9.5 CL 61.000									
		NOTE: DRILLING WITH AIR/MIST									
		SS-GY FROS WH CLR UN- COMB VF-FG SBANG SBRD							30	60	80
		SS-GY GRN MAR RD FRM- RD BLKY SDY SLTY CALC									
		SS-CLR FROS GY BRN UNCOMB VF-FG SB- ANG SBRD									
		NOTE: CATCHING 30 FT SAMPLES...							20		
SS-CLR GY FROS BRN FR											



LS-MED BRN DK BRN MIC
KLN DENS ARG IP
CARR IP

SR-GY BRN FDRN-HD SDY
SLTY BLKY CALC

LS-BRN LT-DK GY DENS
VF MIC KLN SUC IP

SS-CLR FROS GY WH VF-
FG SB ANG SB RD
UNCONS

SR-LT GY DK GY BRN
FRN-HD BLKY SDY
SLTY V-CALC

SS-CLR FROS GY WH VF-
FG SB ANG SB RD
UNCONS P-SORT

SR-LT GY M-GY LT BRN
FRN-HD BLKY SLTY
SDY CALC DOLIC

SS-CLR GY WH VFG SB-
ANG SB RD UNCONS

LS-LT BRN M-BRN TAN
MIC KLN SUC IP
ARG IP

SR-LT GY M-GY BRN GRN
FRN-HD BLKY SLTY
SDY V-CALC DOLIC

SR-DK GY BLK GY GRN
FRN-HD BLKY SLTY
SDY V-CALC DOLIC
CARR IP

SS-CLR FROS GY WH HD
UNCONS VF-FG SB-
ANG SB RD

SR-LT GY DK GY GRN
GY SB GRN GY SB
BRN BLKY SDY SLTY
V-CALC

SS-CLR GY BRN VF-MG
SB ANG SB RD UNCONS

SR-LT BRN M-BRN DK BRN
GY FRN-HD BLKY SDY
SLTY CALC V-DOLIC

SS-CLR GY FROS WH VF-
FG SB ANG SB RD

SR-LG GY M- GY BRN
GY SB GRN FRN-HD
BLKY SDY SLTY

SS-CLR FROS GY BRN
UNCONS VF-FG SB
ANG SB RD SOG STLN
V-LOR G-VLOR/SYRN
CUT

SR-LT BRN M-BRN LT GY
FRN-HD BLKY SLTY
V-DOLIC CARR IP

SS-CLR GY FROS WH VFG
SB ANG SB RD UNCON

SR-LT BRN M-BRN LT GY
FRN-HD BLKY SLTY
SDY CALC DOLIC

SS-CLR FROS GY BRN HD
VF-FG SB ANG SB RD

SR-DK BRN BLK M-DK GY
FRN-HD BLKY SDY
SLTY CALC CARR IP

SS- CLR FROS GY VF-FG
SB ANG SB RD

SR-GY GRN BRN FRN-HD
BLKY SDY SLTY CALC
DOLIC IP CARR FYR

SR-GY DK GY BLK M-BRN
DK BRN FRN-HD SLTY
SDY CALC DOLIC FYR
CARR IP

SS-CLR FROS GY VF-FG
SB ANG SB RD FYR

SR-GY BRN GRN BLK FRN
HD BLKY SDY SLTY
CALC CARR TR FYR

SS-CLR FROS GY VF-FG
SB ANG SB RD

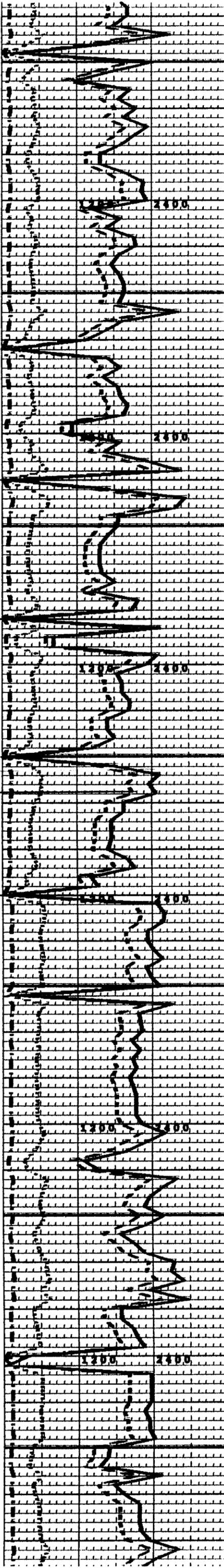
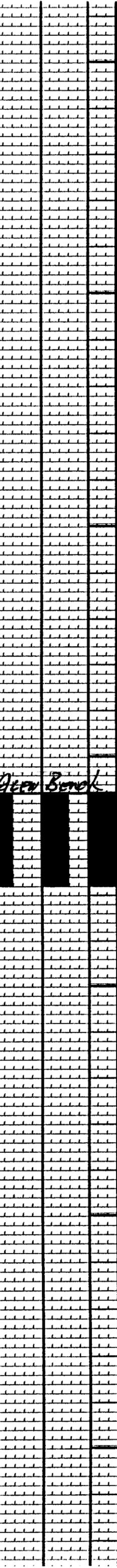
SR-DK BRN DK GY FRN-
HD BLKY SDY SLTY
V-CALC CARR IP

SS-CLR FROS GY WH HD
P-SORT VF-MG SB RD
SB ANG

SR-BRN GY DK BRN DRY
BLK FRN-HD BLKY
SDY SLTY CALC CARR

SS-CLR FROS GY HD VF-
FG SB ANG SB RD

SR-DK GY DK BRN BLK
FRN-HD BLKY SDY
SLTY CALC CARR



4600

20

40

60

80

4700

20

40

60

80

4800

20

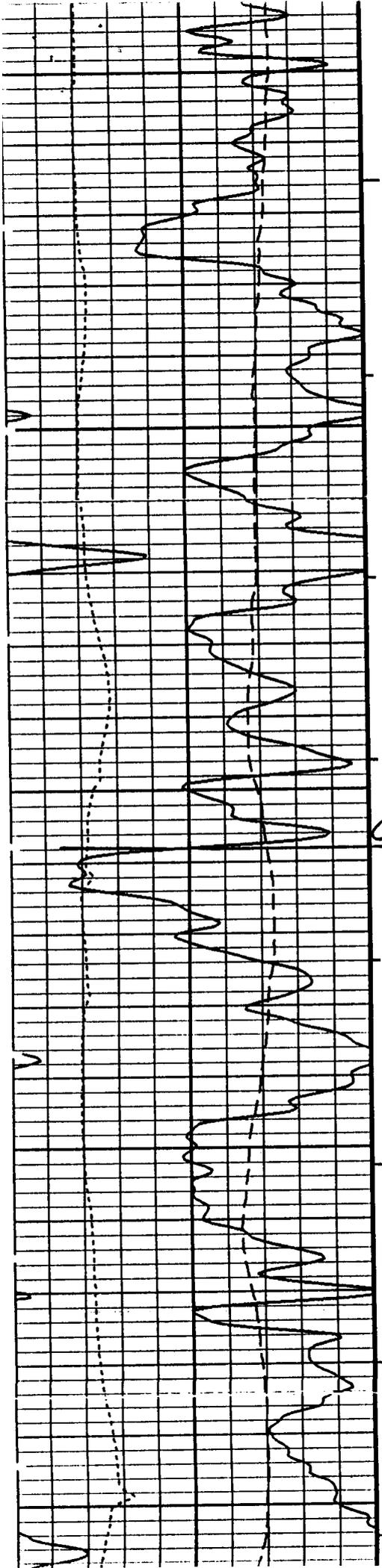
40

60

80

4900

20

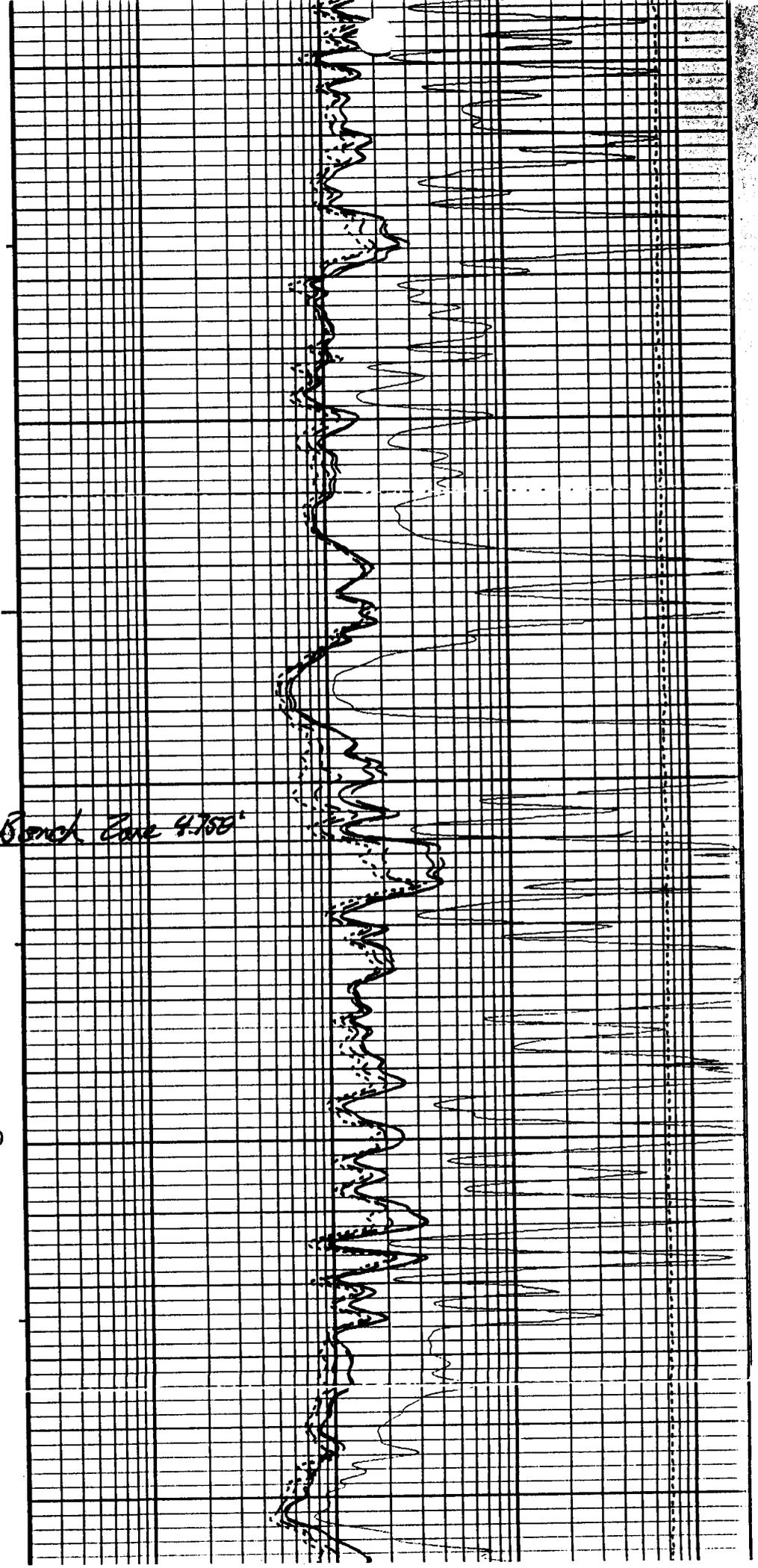


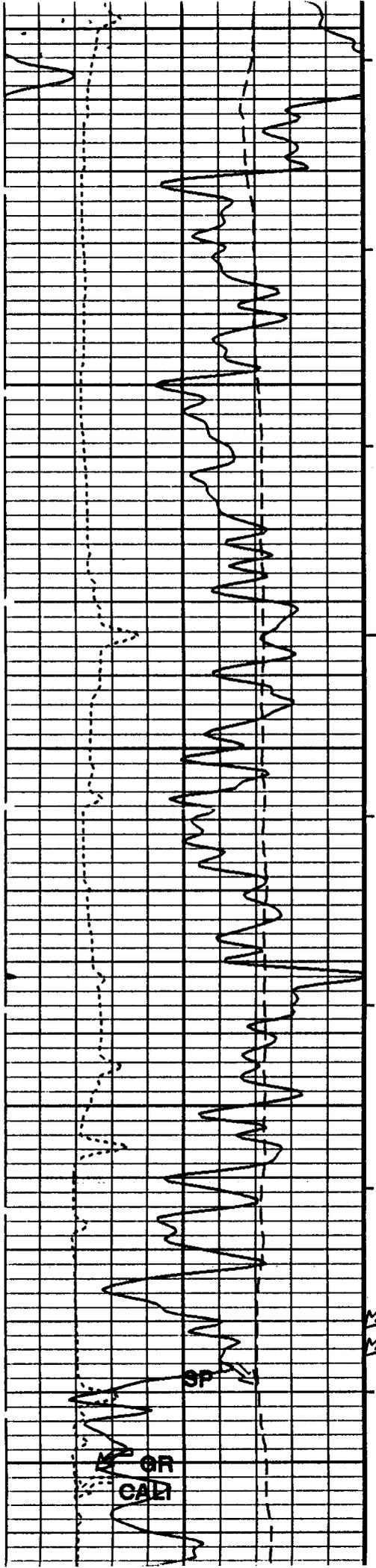
4700

Green Bench Core 4.750'

4800

)



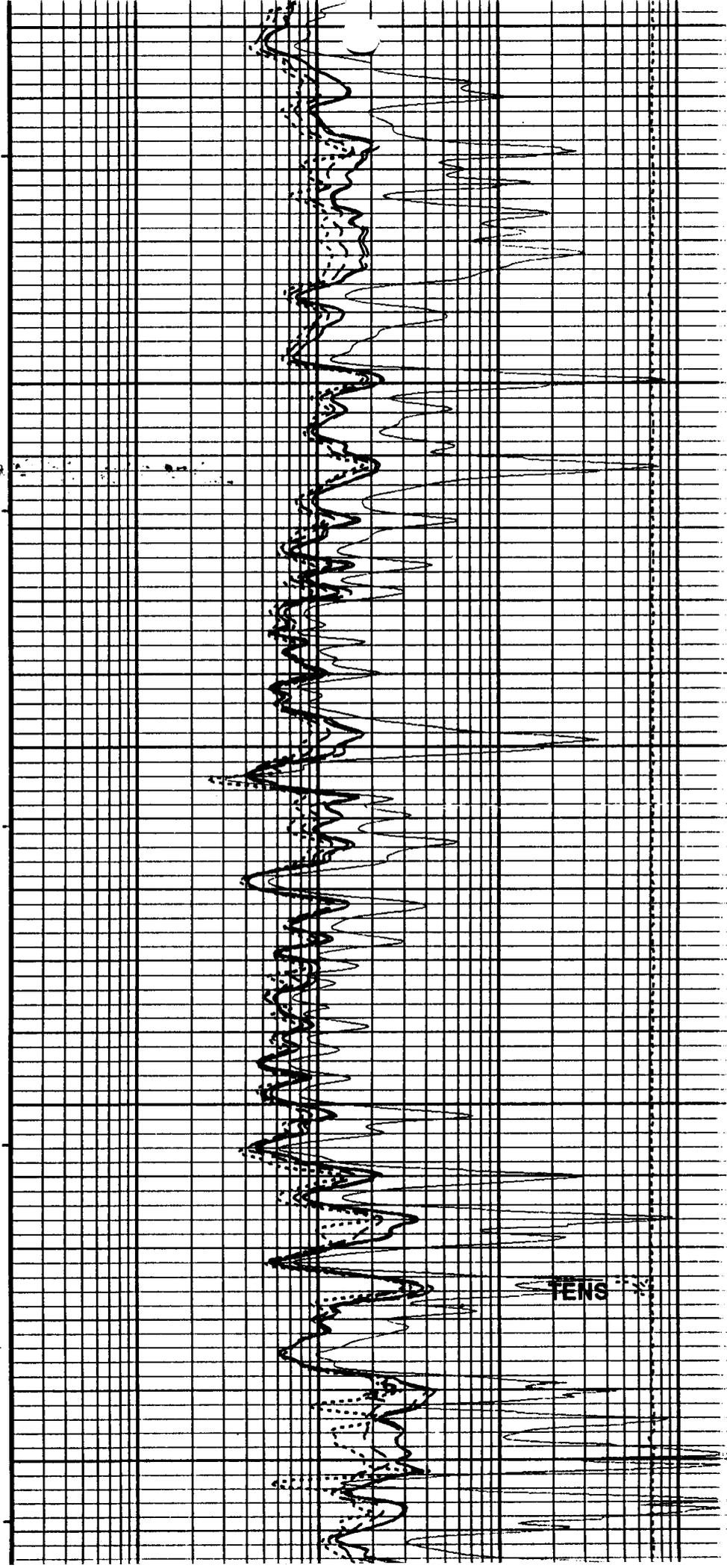


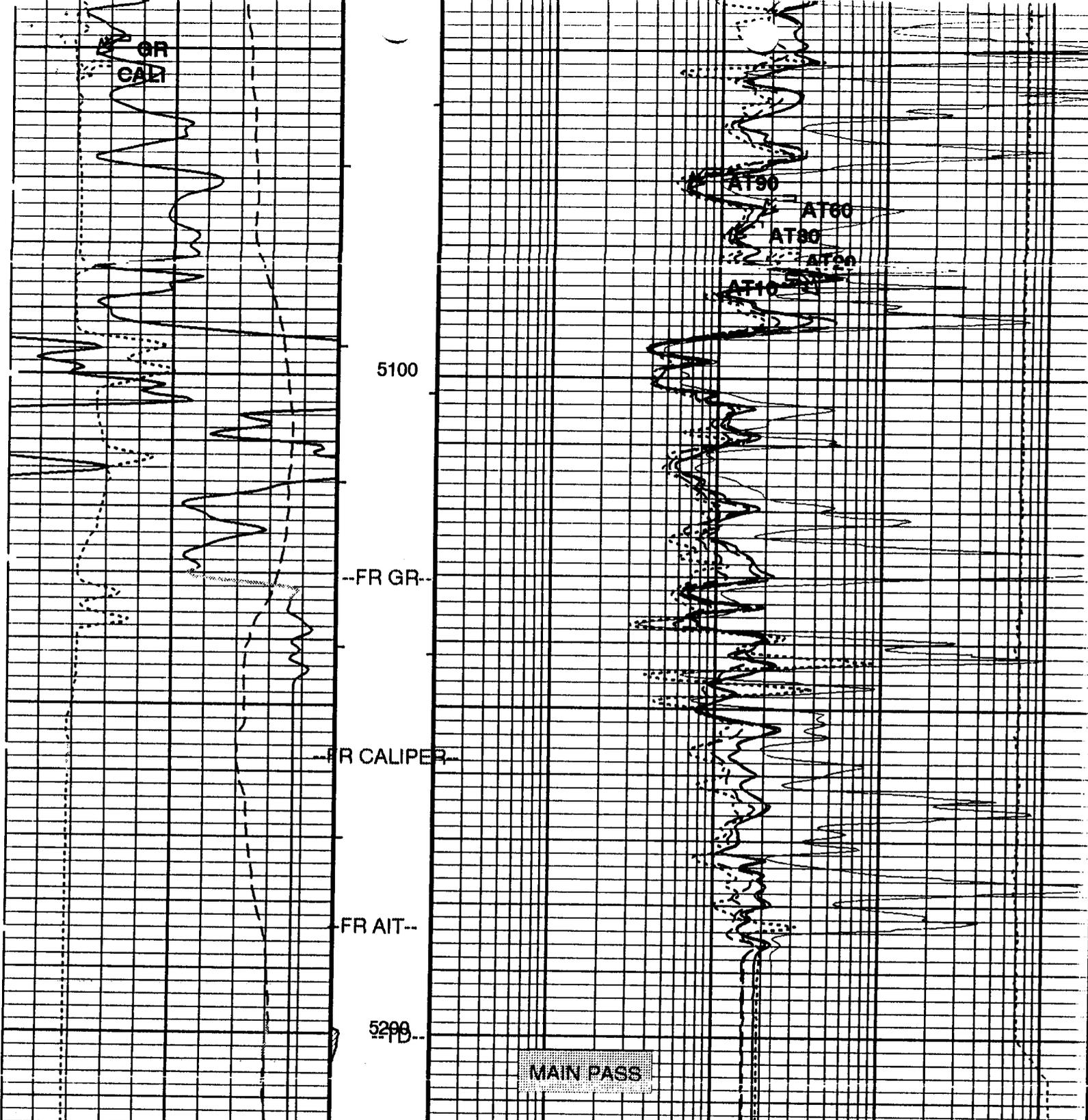
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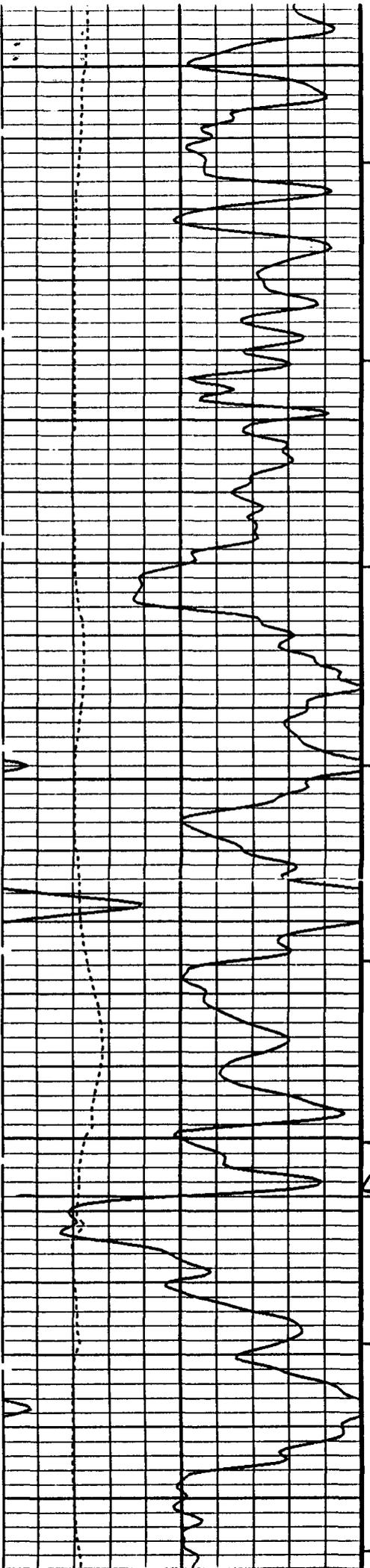
STIA
STIT

FENS





Calliper (CALI) (IN)	Stuck Stretch (STIT) (F)	AIT 10 Inch Investigation (AT10) (OHMM)
0 16	0 50	0.2 2000
Gamma Ray (GR) (GAPI)	Cable Drag From STIA to STIT	AIT 20 Inch Investigation (AT20) (OHMM)
0 150		0.2 2000
SP (SP) (MV)	Tool/Tot. Drag From D3T to STIA	AIT 30 Inch Investigation (AT30) (OHMM)
-80 20		0.2 2000

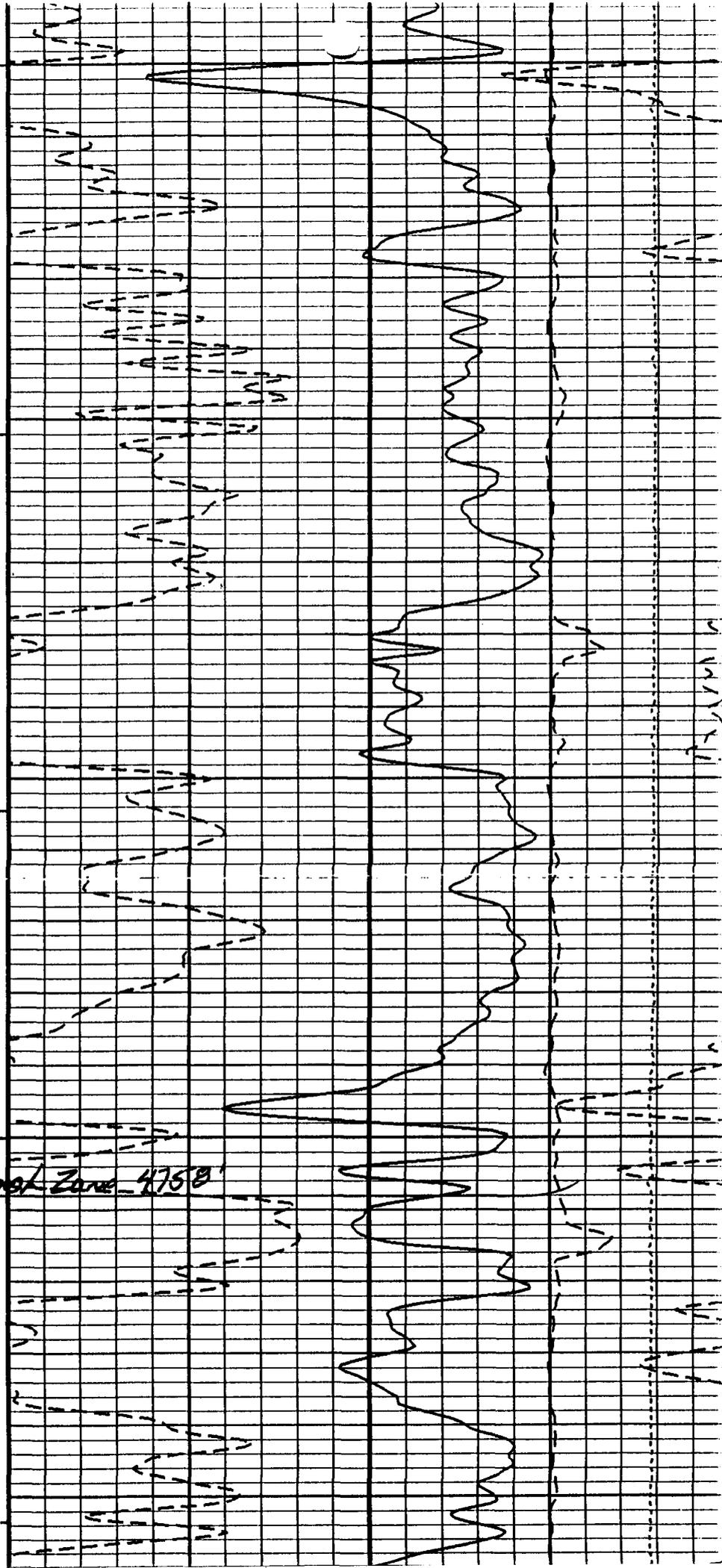


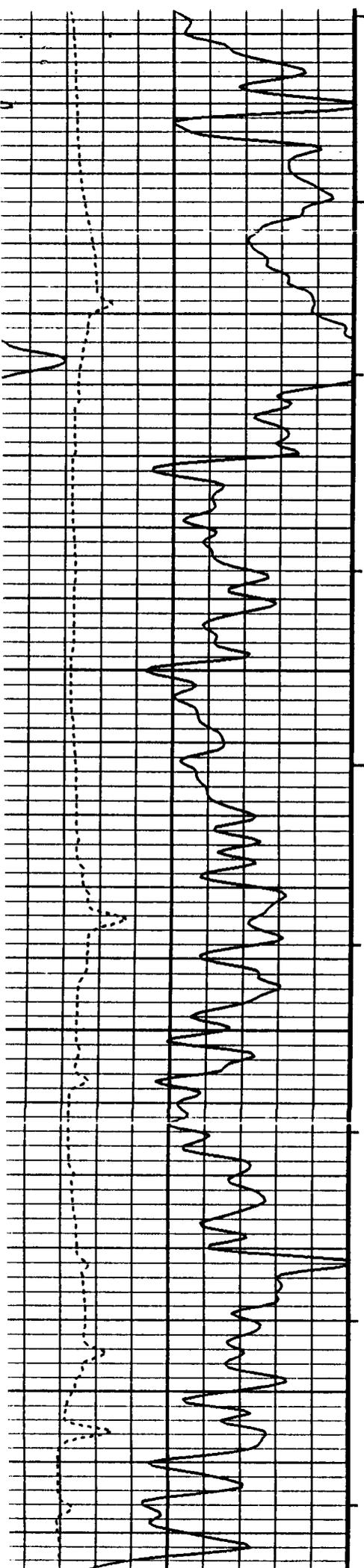
4600

4700

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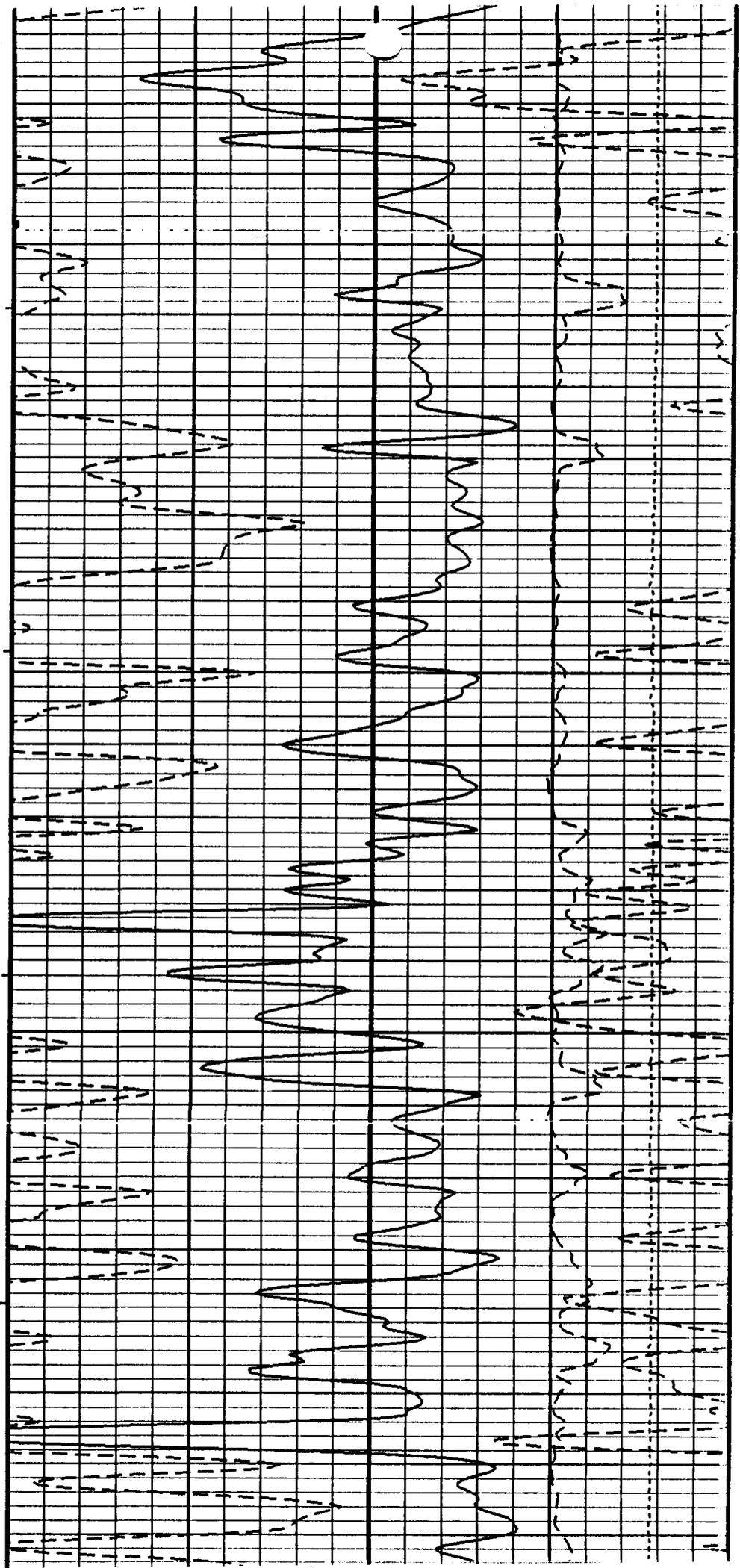
Glauconite Zone 4750'

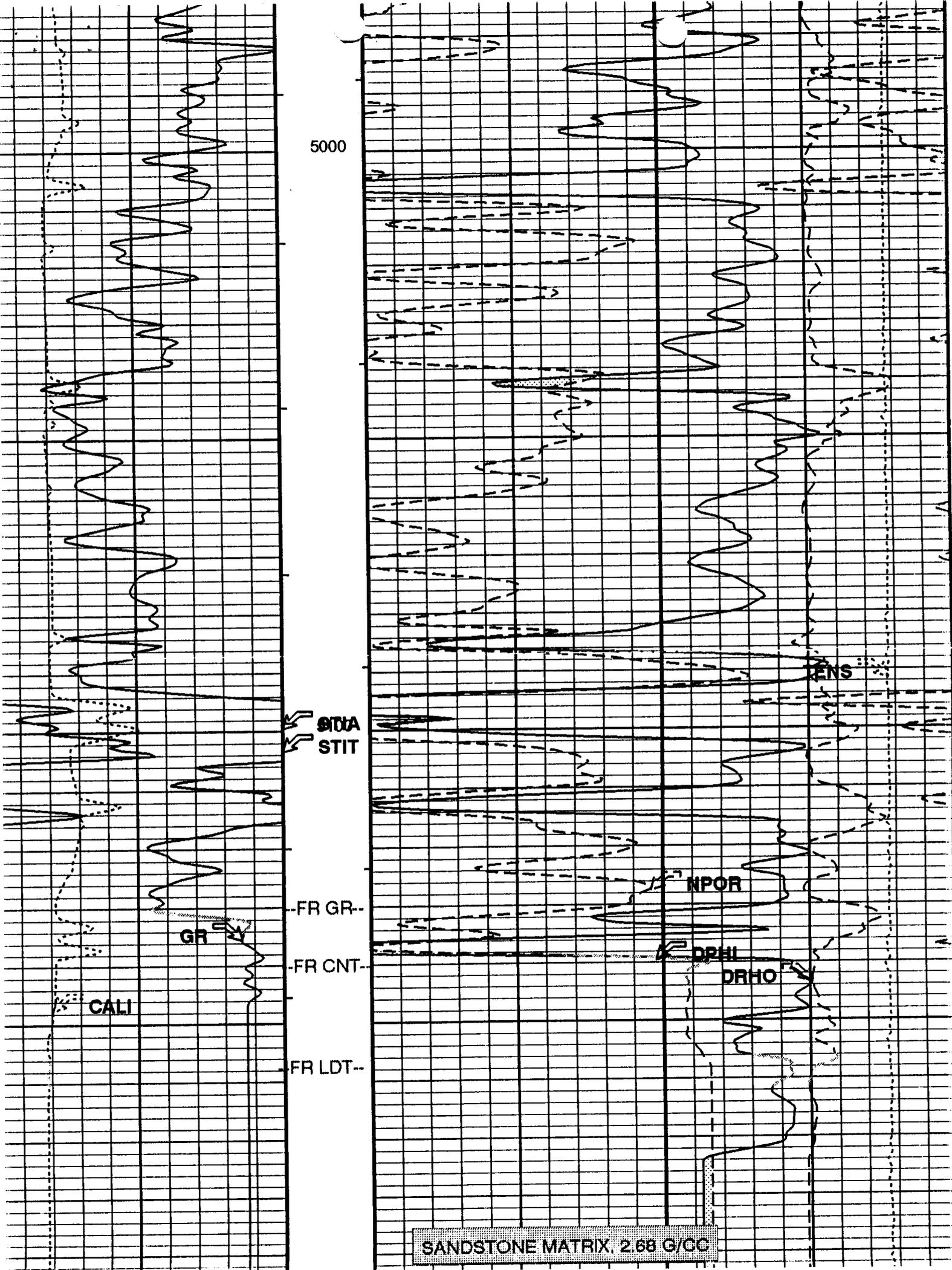




4900

5000





5000

STIA
STIT

FR GR--

GR

FR CNT--

CALI

FR LDT--

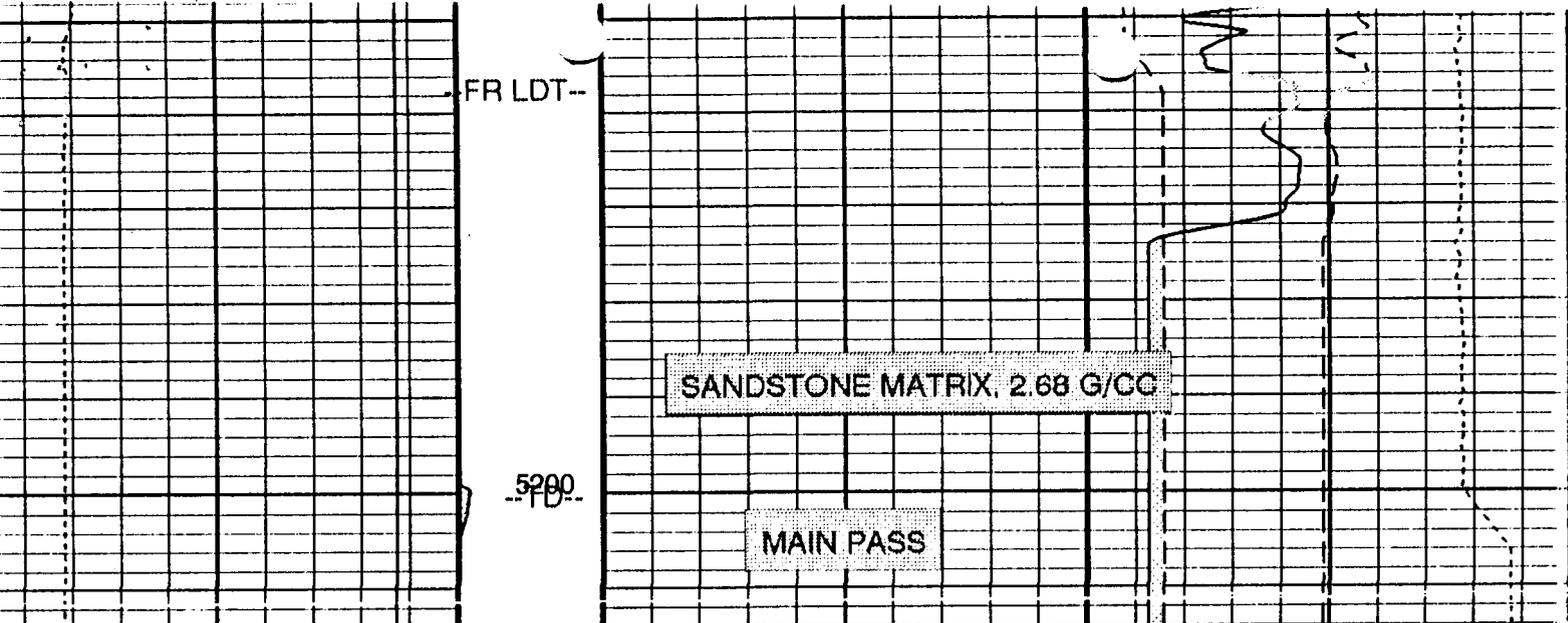
NPOR

DPHI

DRHO

5000

SANDSTONE MATRIX 2.68 G/CC



Caliper (CALI) (IN)	16	Stuck Stretch (STIT) (F) 50	0.3	Density Porosity (DPHI) (V/V)	-0.1
Gamma Ray (GR) (GAPI)	150	Cable Drag From STIA to STIT	0.3	Alpha Processed Neutron Porosity (NPOR) (V/V)	-0.1
		Tool/Tot. Drag From D3T to STIA		Gas Effect From DPHI to NPOR	
				Bulk Density Correction (DRHO) (G/C3)	-0.25 to 0.25
				Tension (TENS) (LBF)	10000 to 0

PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 10 F3
- Integrated Hole Volume Major Pip Every 100 F3
 - Integrated Cement Volume Minor Pip Every 10 F3
 - Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
BFM	Borehole Fluid Medium	LIQUID
BHFL	Borehole Fluid Type	WATER
BHS	Bore Hole Status	OPEN
BS	Bit Size	7.875 IN
BSAL	Borehole Salinity	-50000.00 PPM
BSCO	Borehole Salinity Correction Option	NO
CCCO	Casing & Cement Thickness Correction Option	NO
CWEI	Casing Weight	24.00 LB/F
DFD	Drilling Fluid Density	9.10 LB/G
DHC	Density Hole Correction	BS
DORL	Depth Offset Repeat Analysis	0.0 FT
DPPM	Density Porosity Processing Mode	HISP
FD	Fluid Density	1 G/C3
FSAL	Formation Salinity	-50000 PPM
FSCO	Formation Salinity Correction Option	NO
GCSE	Generalized Caliper Selection	CALI
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	1.000000e-02 DF/F
HSCD	Hole Size Correction Option	YES
MATR	Rock Matrix Type	SANDSTONE

FORM 7

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

1. Well name and number: GLEN BENCH UNIT #15-19-8-22API number: 43-047-327562. Well Location: QQ SWSE Section 19 Township 8S Range 22E County UINTAH3. Well operator: CHANDLER & ASSOCIATES, INC.Address: 475 17th STREET, SUITE 1000DENVER, CO 80202Phone: (303) 295-04004. Drilling contractor: CHANDLER DRILLING CORPORATIONAddress: 475 17th STREET, SUITE 1000DENVER, CO 80202Phone: (303) 295-0400

5. Water encountered (attach additional pages as needed):

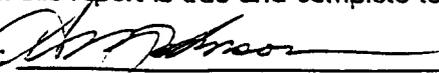
DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
N.A.	N.A.	N.A.	N.A.

6. Formation tops:

KICKER ZONE 3398"X" MARKER 3982GLEN BENCH SAND 4758

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

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

Date: 7-24-96Name & Signature: Title: VICE PRESIDENT OF OPERATIONS

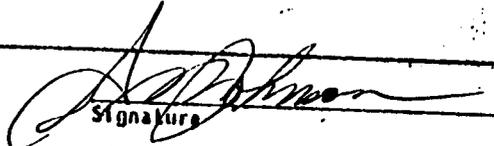
OPERATOR CHANDLER & ASSOCIATES, INC.
 ADDRESS 475 17th STREET, SUITE 1000
DENVER, CO 80202

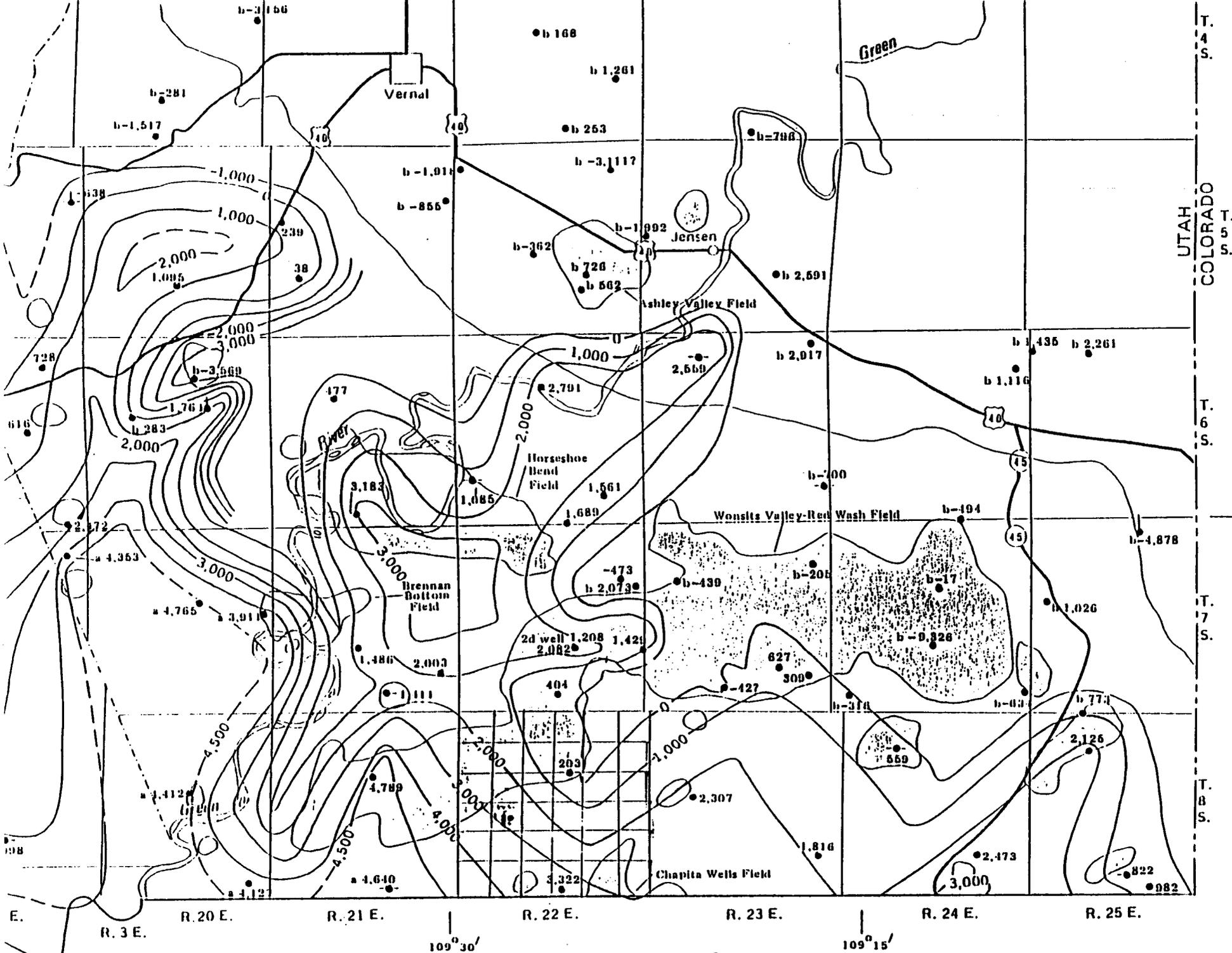
OPERATOR ACCT. NO. 11

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B			43-04732756	Glen Bench Unit#15-19-8-22	SWSE	19	8S	22E	Uintah	7-08-96	7-08-96
WELL 1 COMMENTS:											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

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

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


 Signature
 Vice President/Operations 7/24/96
 Title Date
 Phone No. (303) 295-0400



GENERALIZED MAP OF MODERATELY SALINE GROUND WATER
 IN NORTHERN UINTA BASIN, UTAH
 U.S.G.S. OPEN FILE REPORT 87-394

Attachment E

Table 1. Generalized stratigraphic column describing the major bedrock units and their hydrologic characteristics (modified from Hood, 1976, table 1)

Diameter of the System Series	Formation or rock unit	Maximum known thickness (feet)	Description	Hydrologic characteristics		
					System Series	
CAMPANIAN	MIOCENE	Browns Park Formation	1,200	Extremely variable deposits of sandstone, buffaceous rock, and conglomerate.	Very low to moderate permeability. Yields small quantities of fresh water to springs and wells in the Brown Creek and Diamond Mountain areas north and northeast of Vernal. Primary source of some springs on the slopes of the central Uinta Mountains.	
		Bisbee Conglomerate	300	Conglomerate of sandstone, quartzite, metamorphic, and volcanic rock fragments. Considered by some geologists to be the basal part of the overlying Browns Park Formation.		
		Extensive igneous rock	100(?)	Mostly andesitic pyroclastics; may be the Keeley Volcanics or equivalent. Present as erosional remnants on the highest hills near Wolf Creek Pass.	Yield water to some small springs; most of these springs are along fractures or formation contacts.	
	OLIGOCENE	Duchesne River Formation	3,800	A mostly fluvial facies. Shale, mostly red, siltstone, marlstone, sandstone, and conglomerate, unconformably underlying younger rocks from near the Colorado State line to near Strawberry Reservoir. Coarsest grain sizes are near the basin margins where the formation interfingers with other formations. In the central part of the basin it is gradational with the underlying Uinta Formation and consists of interbedded sandstone and shale. Sandstone is most abundant in the lower part and, with conglomerate, is found in the upper part. The sandstone is of two types: a light-colored (commonly yellow) channel deposit, and a darker, more compact, better cemented interchannel (?) lenticular deposit. In most of its extent the formation is slightly to strongly fractured. Fractures are locally re-cemented with calcium sulfate.	Very low to very high permeability. The horizontal intergranular permeability of 19 sandstone samples ranged from 0.000033 to 1.23 md/d (feet per day). Porosity ranged from 7 to 22 percent. Aquifer permeability is enhanced by fracturing. Yield of wells and springs range from less than 1 to more than 200 gpm (gallons per minute), usually with large drawdowns in wells. The most permeable rocks seem to be near tops of outcrops west of Roosevelt in the central basin; the least permeable rocks seem to be in areas north and east of Fort Duchesne. Water movement may be impeded locally by gilsonite nicks. Near recharge areas, or where the formation is fractured or is moderately permeable, the water usually is fresh. At greater depths where the formation is of very low permeability, the water is slightly saline to briny. Certain conditions are common. In the lower parts of the basin, such as near Roosevelt, artesian heads may be more than 100 feet above land surface, but in higher parts of the basin water levels are below land surface.	
		Eocene	Uinta Formation	4,000	Calcareous shale, some limestone, claystone, siltstone, and sandstone. It is a fluvial facies in the eastern and western ends of the basin that interfingers with rocks similar in appearance to the overlying Duchesne River Formation. Grades laterally into thinner bedded calcareous lake deposits in the center of the basin.	Very low to very high permeability. Largest primary intergranular permeability of the sandstone seems to be about the same as that in the median lot sandstone in the Duchesne River Formation. Much of the formation is finer grained and, therefore, of lower primary permeability than the Duchesne River Formation. Permeability is greatly increased where the Uinta formation is fractured. In most of the area, the formation yields only a few gallons per minute of saline water to wells and springs. In some areas the water has high fluoride and boron concentrations. Locally, flowing wells yield fresh to slightly saline water. In the fluvial facies, particularly where the rocks are fractured, yields are larger.
			Paleocene and Eocene	Green River Formation	7,000	Mostly lacustrine shale that contains some limestone, marlstone, and siltstone. The formation includes beds of oil shale and of carbonate evaporite. The Green River interfingers with both the overlying Uinta and underlying Wasatch Formations, as well as laterally with other formations near the edges of the basin.
	Wasatch Formation	5,000		In most of the basin is mainly lacustrine shale, sandstone, and conglomerate. Interfingers with the overlying and underlying formations and laterally with the North Horn, Curran Creek, and Green River Formations. Crops out only in the far western end of the northern Uinta Basin and in the canyons of deeply incised streams in the southern Uinta Basin.	Very low to low permeability except where fractured. In the Greater Altman-Blair oil field the Wasatch sands normally have only 4 to 5 percent porosity, but are permeable because of fracturing. Much of the water produced with petroleum is moderately saline to very saline; elsewhere, however, the water is less mineral and than is water from the Green River Formation.	
	MIOCENE, OLI-GOCENE AND PALEOCENE	Upper Cretaceous and Paleocene	Curran Creek Formation	4,000	Curran Creek Formation--Fluvial deposits of very coarse conglomerate and cross-bedded sandstone. Locally dimensioned. Dimensions of the largest clasts exceed 10 feet. Interfingers laterally with the North Horn and Wasatch Formations. May interfinger with the Paleocene Mesaverde Formation in the westward from the Strawberry Reservoir.	Low to very high permeability. Primary permeability of a sample from the outcrop in the East and River valleys was 1.44 md/d and porosity was 20 percent; these probably are maximum primary values for the formation. Fractured rock has a permeability of more than 100 md/d and yields fresh to slightly saline water. Production of hydrocarbon fluids is reported in areas of outcrop in the East and River valleys; water in the formation is fresh.
			North Horn Formation	4,000	Highly variable, generally thin, sandstone and siltstone, and occasionally shale, with some sandstone. Interfingers with the Wasatch and Curran Creek Formations, and may interfinger with the overlying Wasatch Formation. Thinly bedded.	Low to very high permeability. Primary permeability of a sample from the outcrop in the East and River valleys was 1.44 md/d and porosity was 20 percent; these probably are maximum primary values for the formation. Fractured rock has a permeability of more than 100 md/d and yields fresh to slightly saline water. Production of hydrocarbon fluids is reported in areas of outcrop in the East and River valleys; water in the formation is fresh.
			Wasatch Formation	4,000	Interfingers with the overlying sandstone and siltstone. In the west, it may interfinger with the Paleocene Mesaverde Formation. In the east, it may interfinger with the overlying Wasatch Formation. Thinly bedded.	Low to very high permeability. Primary permeability of a sample from the outcrop in the East and River valleys was 1.44 md/d and porosity was 20 percent; these probably are maximum primary values for the formation. Fractured rock has a permeability of more than 100 md/d and yields fresh to slightly saline water. Production of hydrocarbon fluids is reported in areas of outcrop in the East and River valleys; water in the formation is fresh.

RECEIVED
 AUG 02 1996

LEASE & WELL NO.
 Loc.
 Fld./Cty./St.

Glen Bench #44-19 Federal
 SE 1/4 SE 1/4 Section 19, T.8S., R.22E.
 Uintah County, Utah

K.B.
 G.L.

4786'
 4770'

DEPT. OF OIL, GAS & MINING

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 300 sxs.

D.V. @ 3358'

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
				K.B. Corr. 14.00
				Depth Set 4853.28

Cement top @ 2400'

Cement top @ 4480'



5576' drilled
 Open hole TD
 2 7/8" hole

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

WELL FILE
Schlumberger
CEMENT BOND LOG
VARIABLE DENSITY

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 APl Serial No. _____
Sec. 19 Twp. 8 S Rge. 22 E
Other Services: PERF.

Permanent Datum: _____, Elev. 4770
Log Measured From KB, 16 Ft. Above Perm. Datum
Drilling Measured From KB Elev.: KB 4786
D.F. _____
G.I. 4770

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

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

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

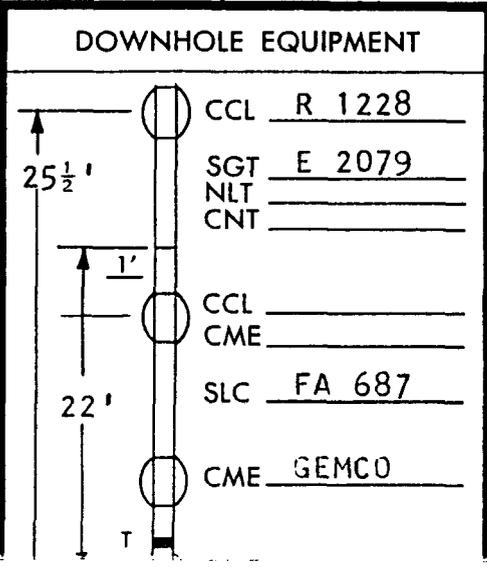
PRIMARY CEMENTING DATA	
Actual <input type="checkbox"/> Estimated <input type="checkbox"/>	Hour - Date
Start pumping cement	
Release pressure	
Set Cement Bond Log	<u>1500</u>
Finish Cement Bond Log	<u>1700</u>

REMARKS: 2ND STAGE CEMENT JOB. RAN MAIN LOG UNDER 3000 PS
PRESSURE. REPEAT RAN WITH NO PRESSURE. NO OPEN HOLE LOGS
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.

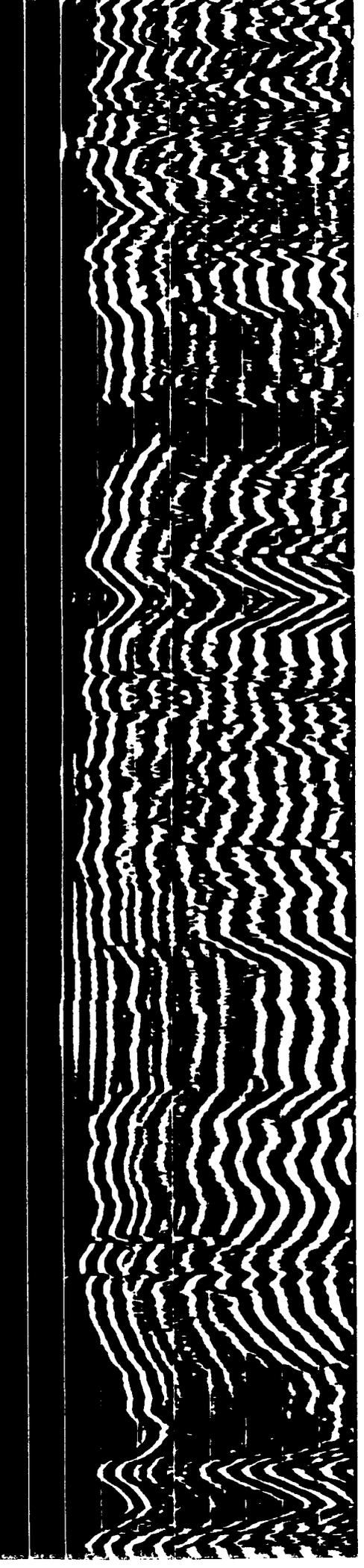
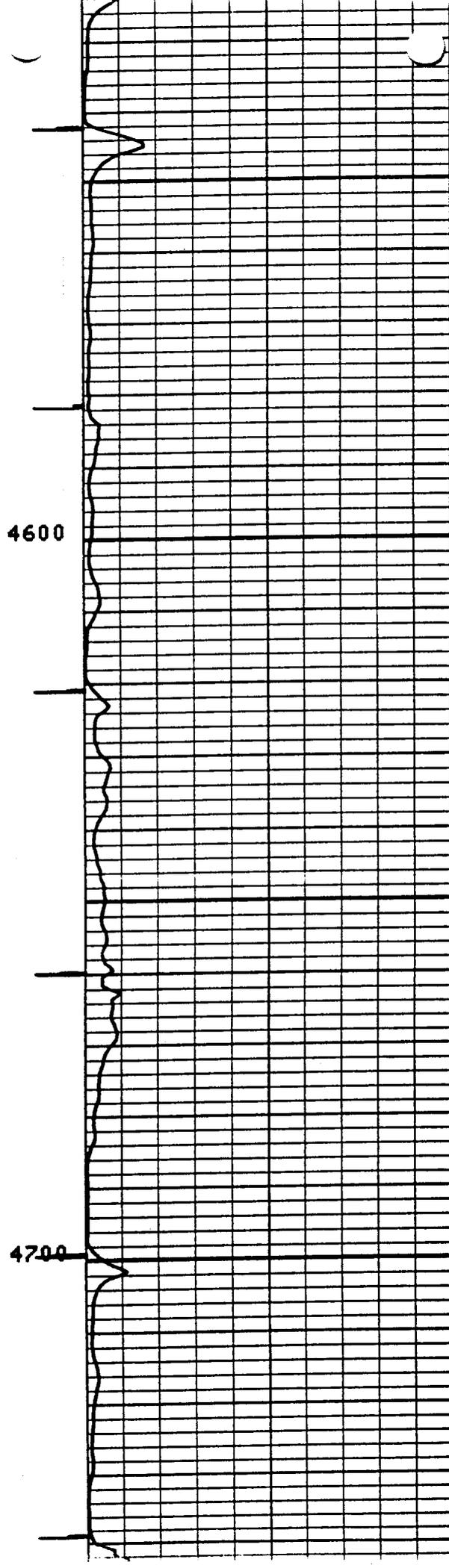
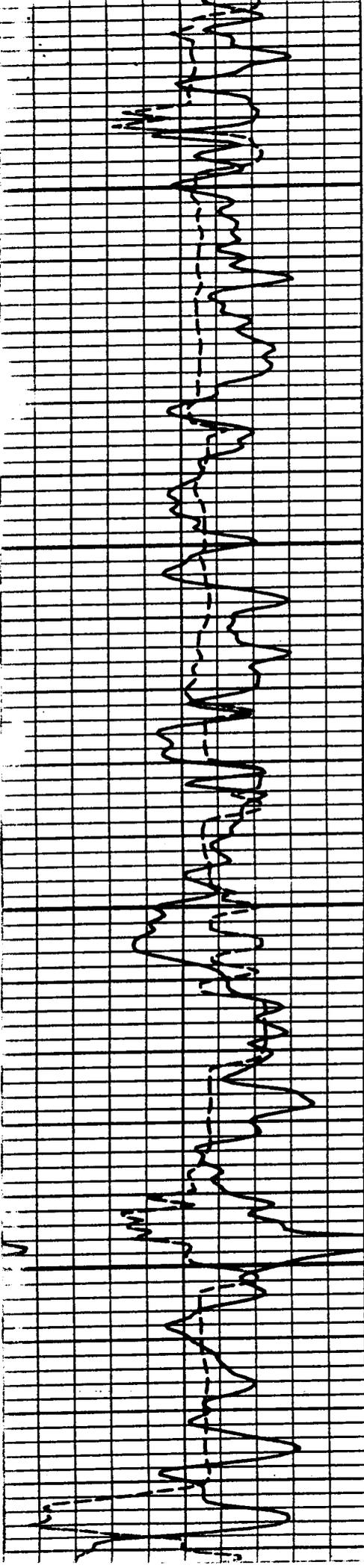
Preceding fluid _____ Volume _____ bbls.
Cement pumped _____ bbls./minute

Pipe reciprocated during Pumping: Yes _____ No _____
Pipe reciprocated after plug down: Yes _____ min, No _____

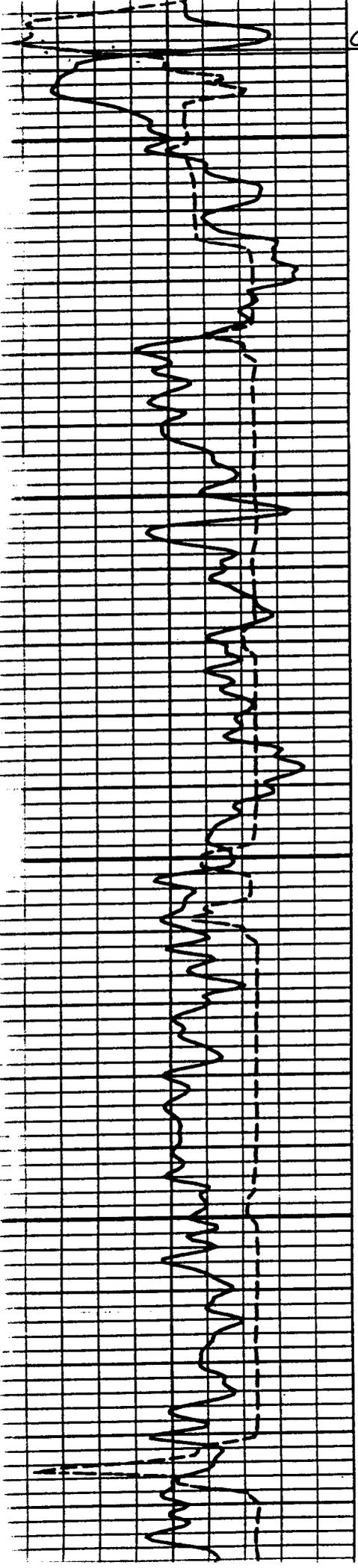
SQUEEZE JOB DETAIL		
Squeeze number	<u>1</u>	<u>2</u>
Depth interval		
Type cement		
Volume of cement		
Additive		
Order		
Height of slurry		
Preceding fluid		
Shutdown pressure		
Max. pressure-stage 1		
" " 2		



SURFACE EQUIPMENT		
	TYPE	MOD.
Sonic Panel	SLM	DA
Memorizer	CPU	CBC
GNP	NLM	BC
CRP	OEU	EAA
OWE		
CRP Intensity		
R9G Intensity		
Logging Speed		<u>75 FT/</u>
Time Constant		
Sweep Time	μ -sec	
Amplitude	mv/cm	

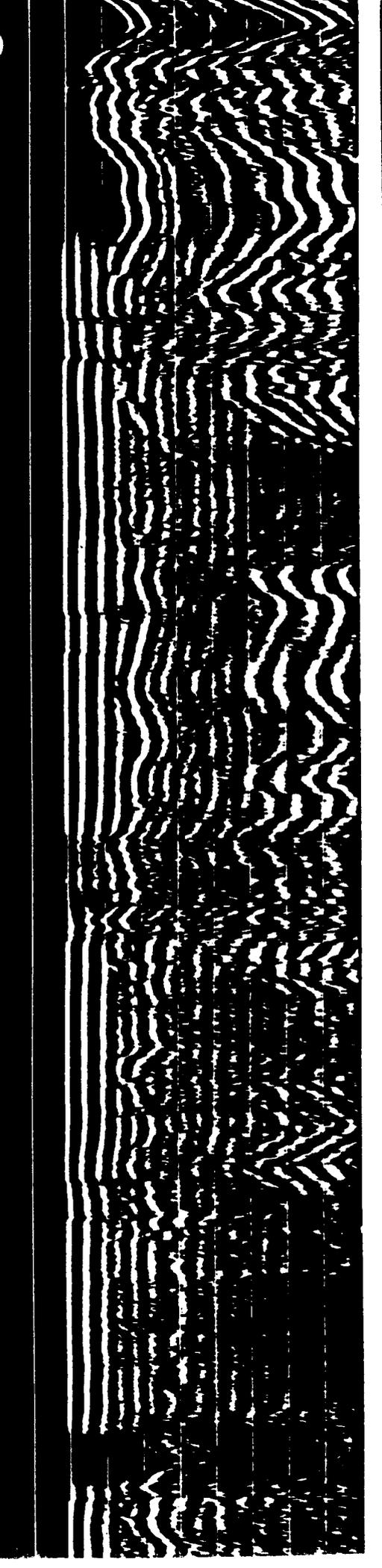
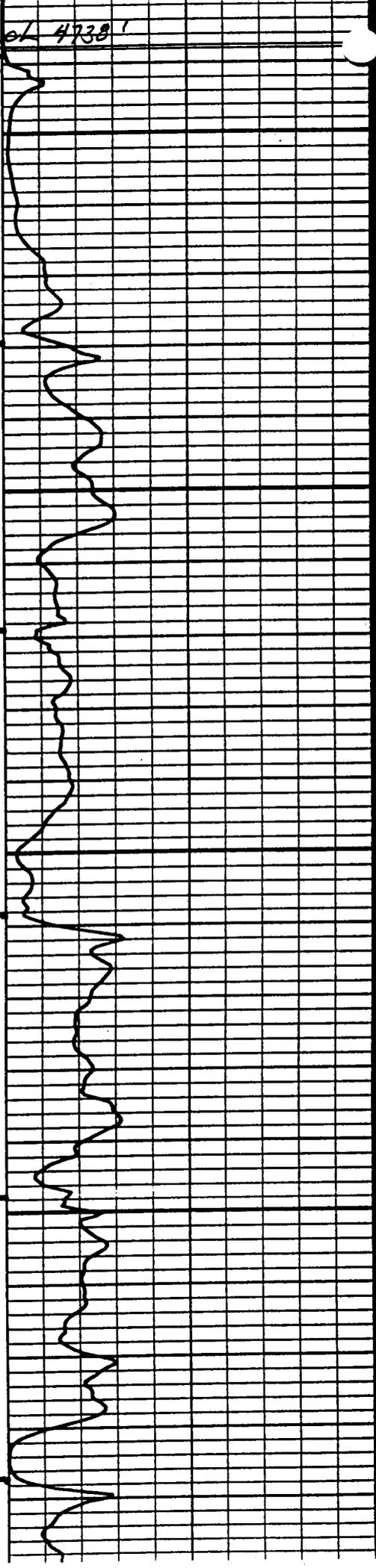


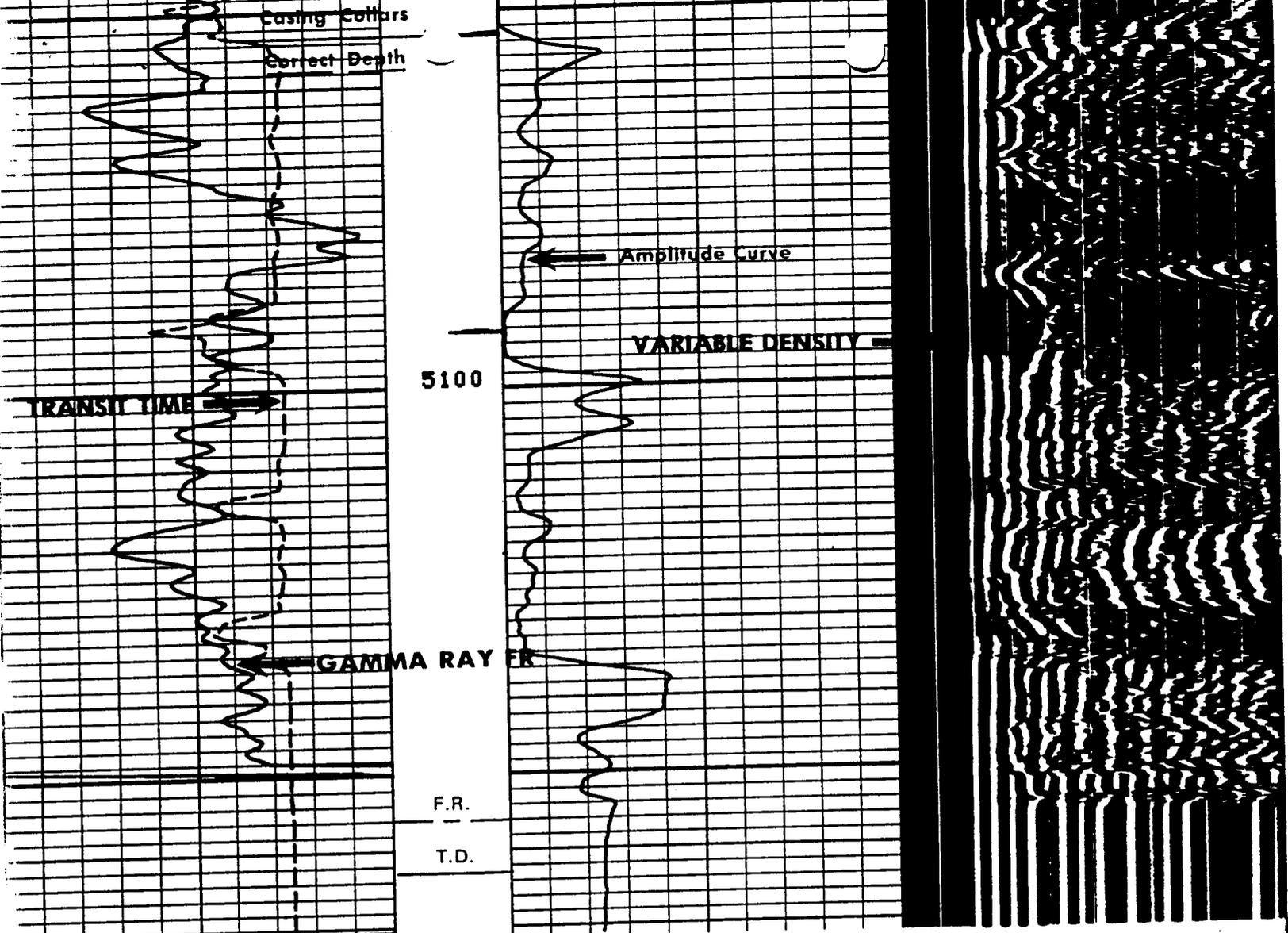
GLE. 3001 4738'



4800

4900





FILE RUN UNDER 3000 PSI
4

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

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
CCL	24.4	FEET	TENS	.0	FEET
NOIS	-1.0	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
CWEI	17.0000	LB/F	BS	7.87500	IN
CDTS	100.000		CSTR	2300.00	PSIA
DTF	189.000	US/F	DTM	56.0000	US/F
BHS	CASE		CSIZ	5.50000	IN
DD	0.0	F			

UINTA-surface- 2285'
est. base USDW 2285'

GREEN RIVER 2285'-5470'

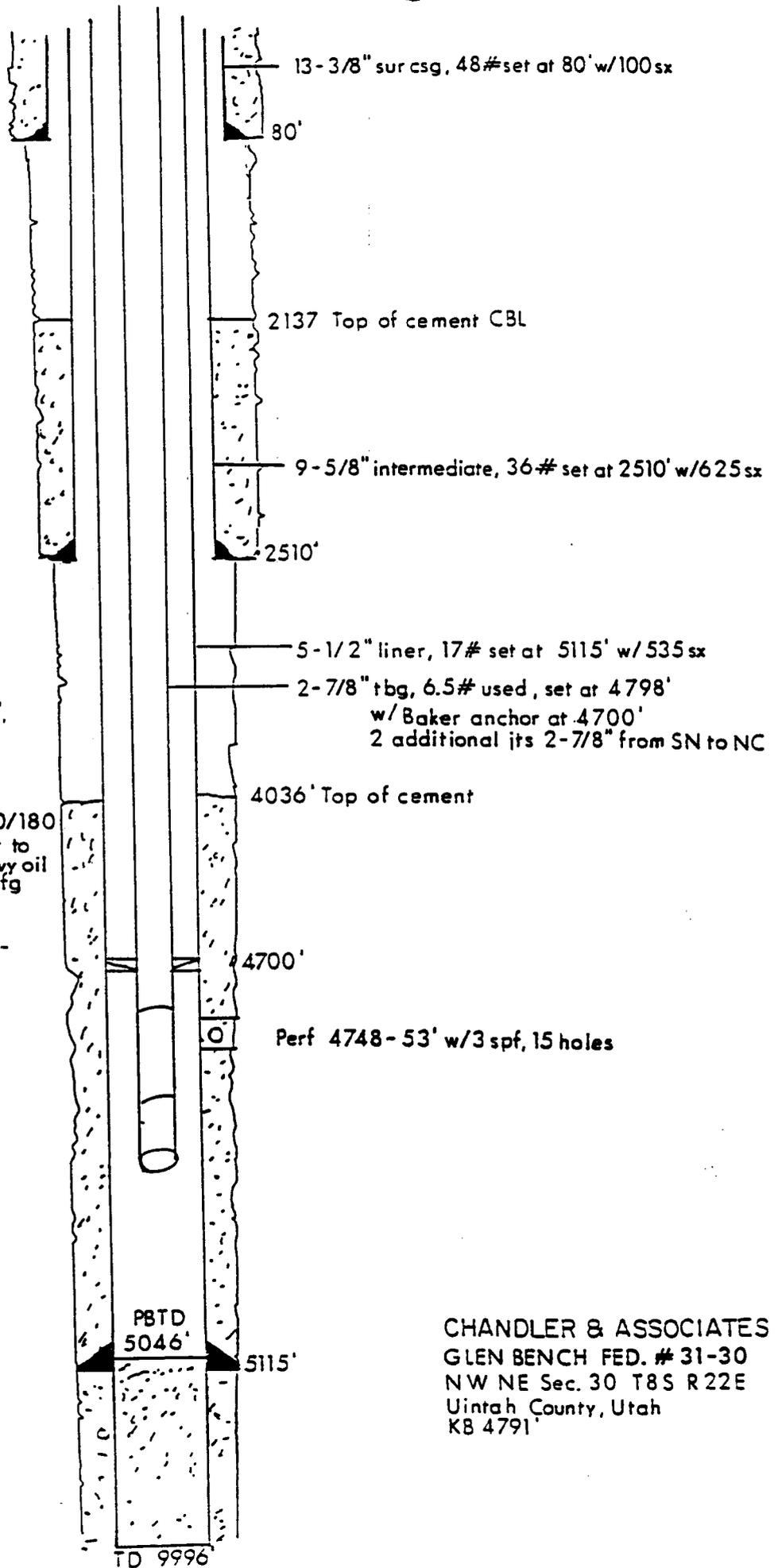
Sidewall cores : 3391', 3398',
4748', 4749', 4752', 4753',
6277', 6279', 6413', 6414',
6415', 6809', 7154', 7156'

DST 4748-4763' 15/30/40/180
GTS/5" max 64.8 MCF decr to
26.5 MCF, rec. 2353' Heavy oil
smplr rec. 1800cc oil, 2.3 cfg
475 psi, BHT 185°
FP 239/268-310/617#
SIP 2396-2396#, HP2439-
2425#

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'

GEARHART

CEMENT BOND LOG WELLFILE

LOG NO.

COMPANY NATURAL GAS CORP. OF CALIFORNIA

WELL GLEN BENCH FEDERAL NO. 31-30

FIELD GLEN BENCH

COUNTY Uintah STATE UTAH

LOCATION 2381 FNL & 1801 FEL

SEC 30 TWP 8S RGE 22E

GL 4775'

measured from KB 16 Ft. Above Permanent Datum
measured from KB GL 4775'

KB 4790'
GL 4775'

6-04-82	ONE	Type Fluid in Hole	KCL
10,000	Max. Rec. Temp.	Dens.	22
5,045'	Est. Cement Top	Visc.	
5,039'	Equip. Location		
1,000	Recorded By	Location	7214 VERNAL
7-7/8	Witnessed By	SLATTERY	
9-5/8	Size	Type Joint	MR. MILLER
5-1/2	Size	Type Joint	TD

PRIMARY CEMENTING DATA

Surface	Protection	Production	Liner
---------	------------	------------	-------

PRIMARY CEMENTING PROCEDURE

Hour	Date
	6-4-82
	6-4-82

BOND EQUIPMENT DATA

Tool No. 438	Tool Type COMBO	Tool Size 3.25"
Centralizer:	Type RUBBER	Size 5-1/2" CSG
	No. 2	Position TOP & BOTTOM
Transmitter to Receiver Spacing		
Amplitude 3'	Seismic Spectrum 5'	Travel Time 3' - 5'

GAMMA RAY EQUIPMENT & LOGGING DATA

Model No.	438	Depths		Speed FPM	T. C. Sec.	Bkg. Cps.	Cal. Cps.	Sens.	Zero Div. L or R	Api Per Log Div.
		From	To							
	COMBO	5034'	1000'	35'		40	120	80	0	15
	SN-1									
	SCINT.									
	6"									
to N. Source	N, A.									

NOTICE: All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by one 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.

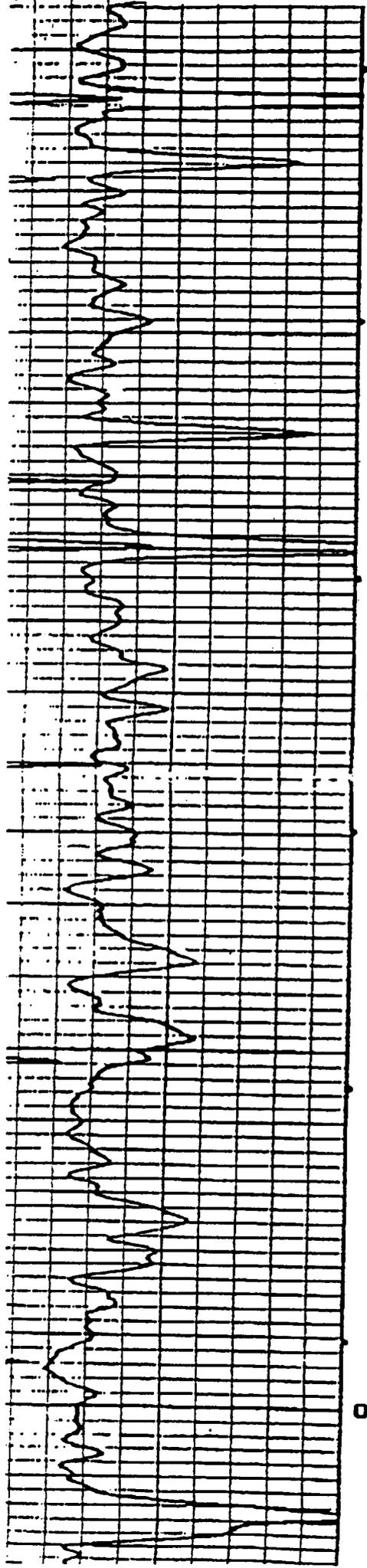
GEARHART INDUSTRIES, INC.

GAMMA-RAY

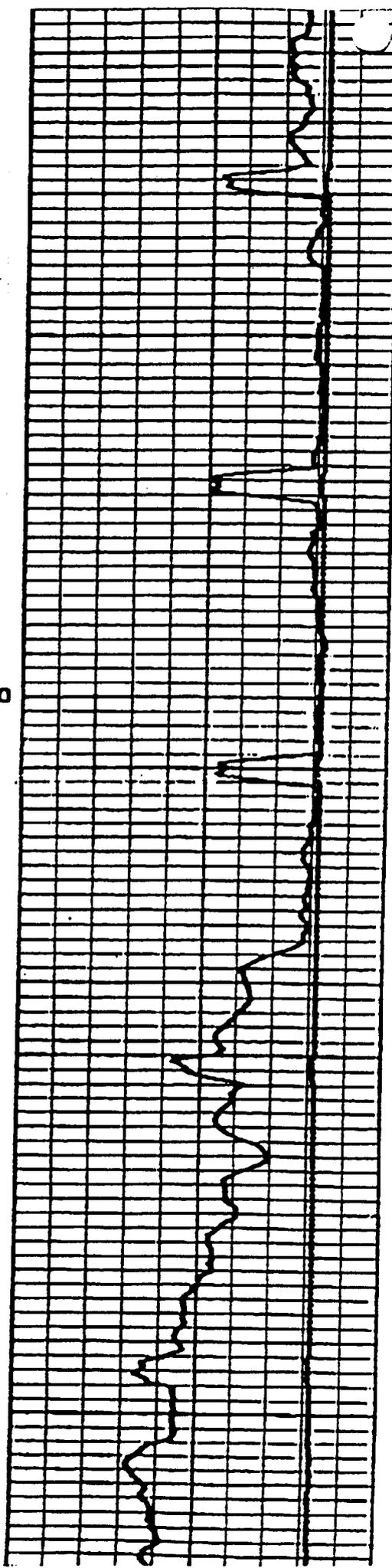
DEPTH

AMPLITUDE
MILLIVOLTS

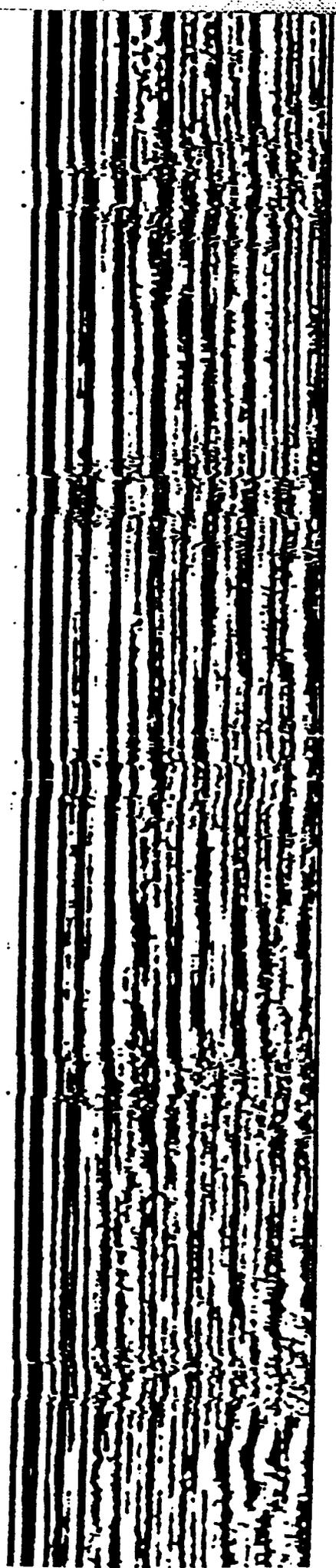
SEISMIC SPECTRUM

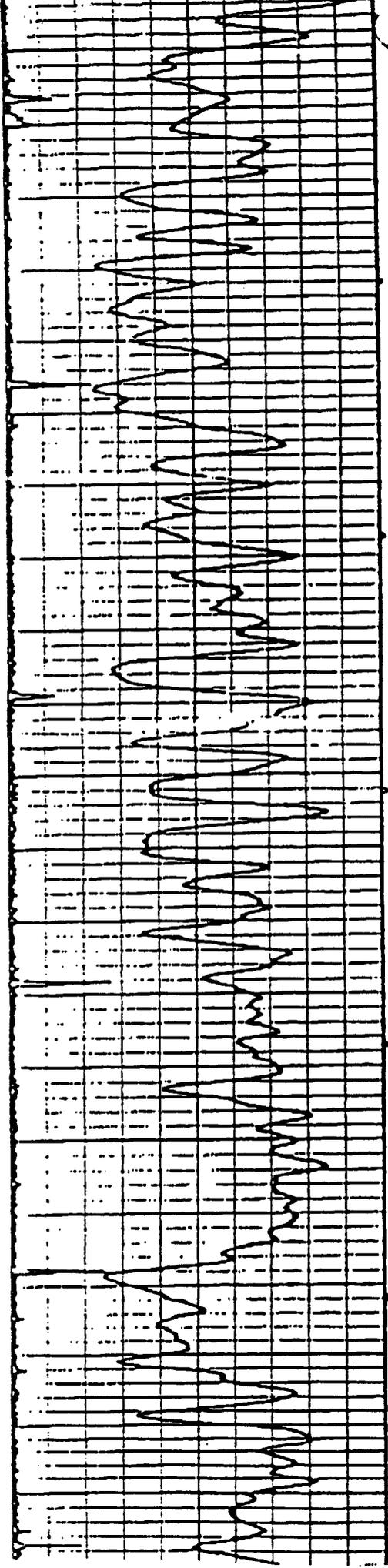


02100



02200

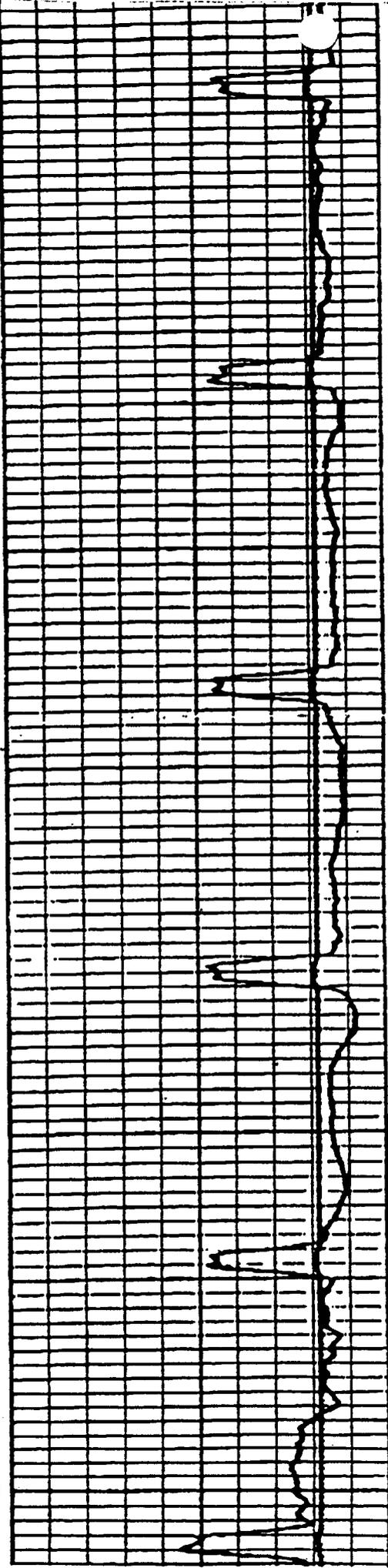


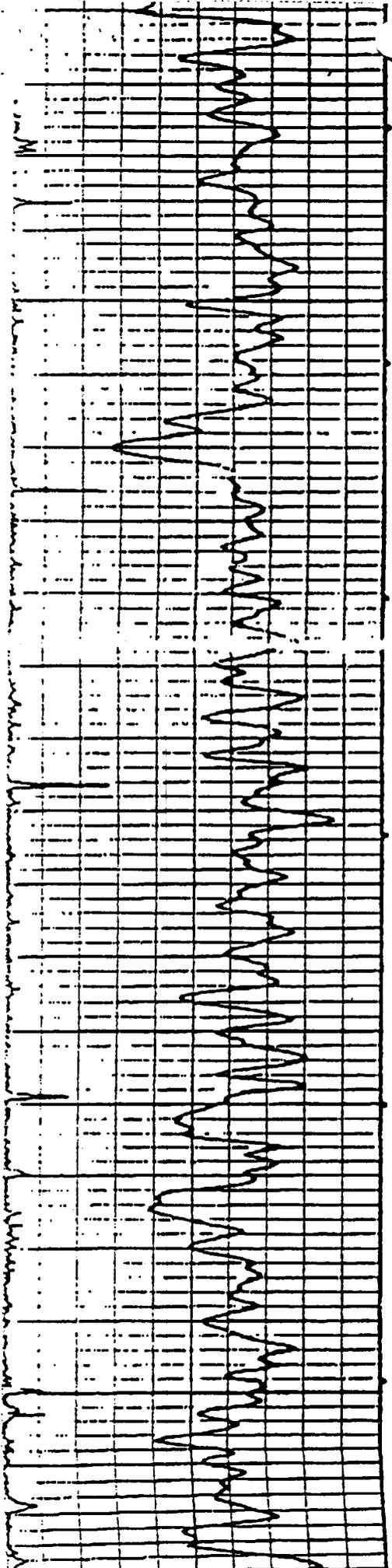


03800

03900

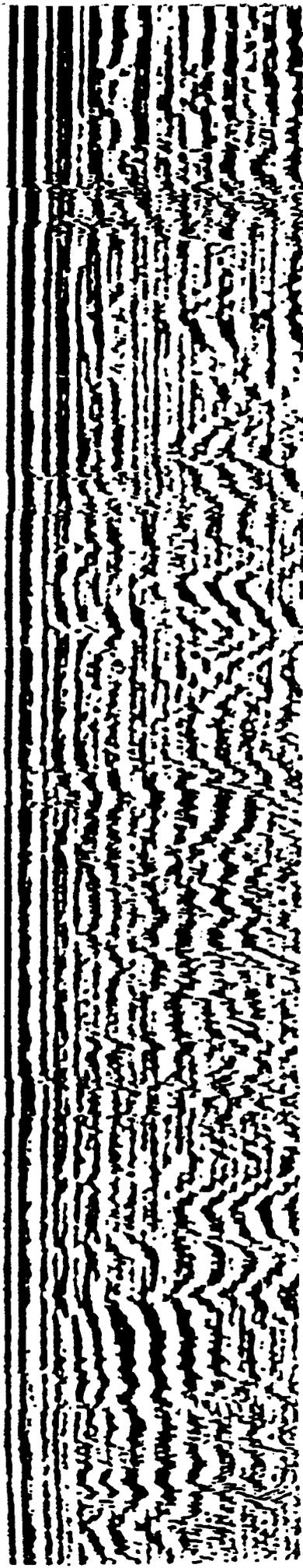
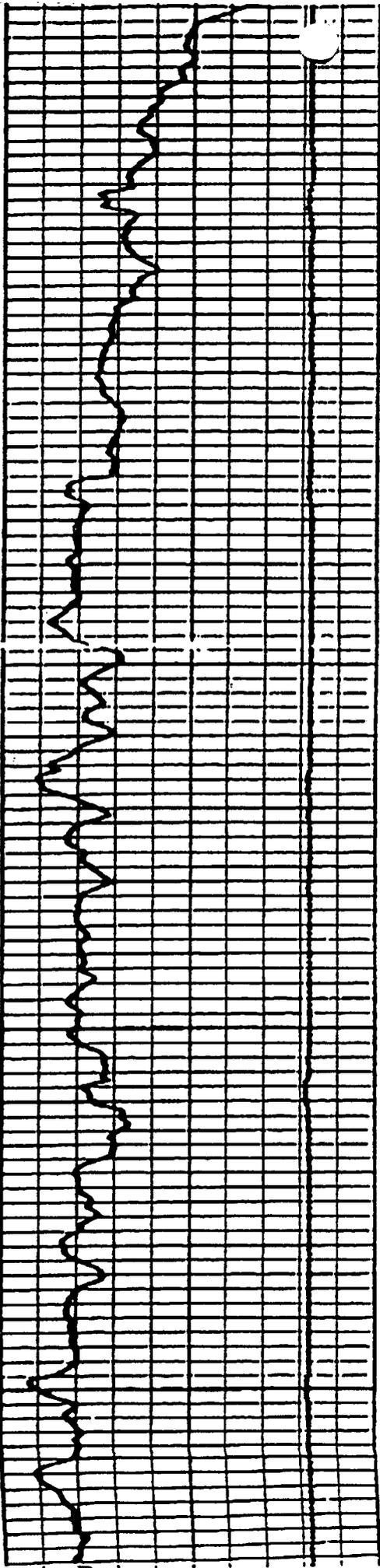
04000

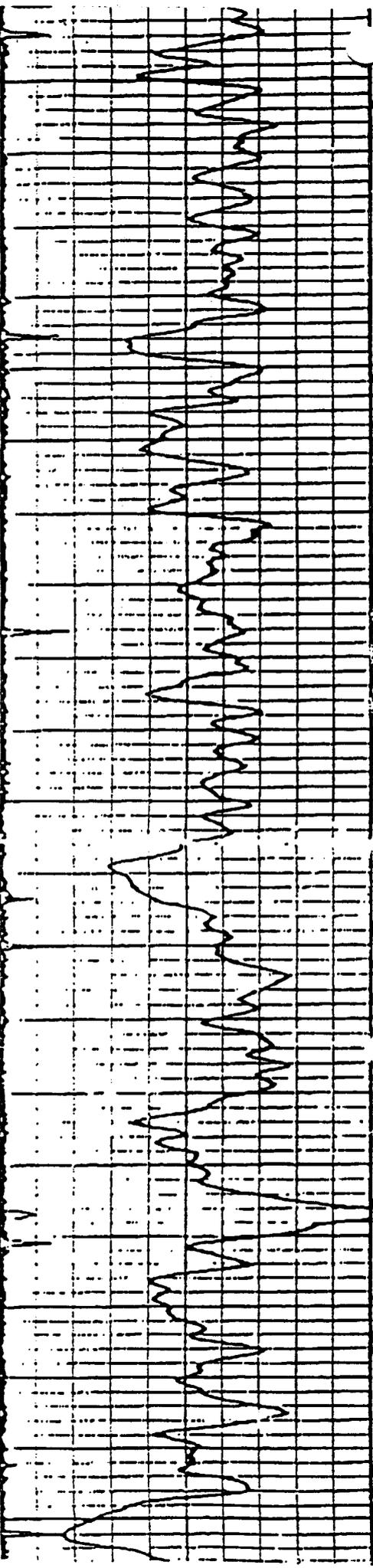




04100

04200



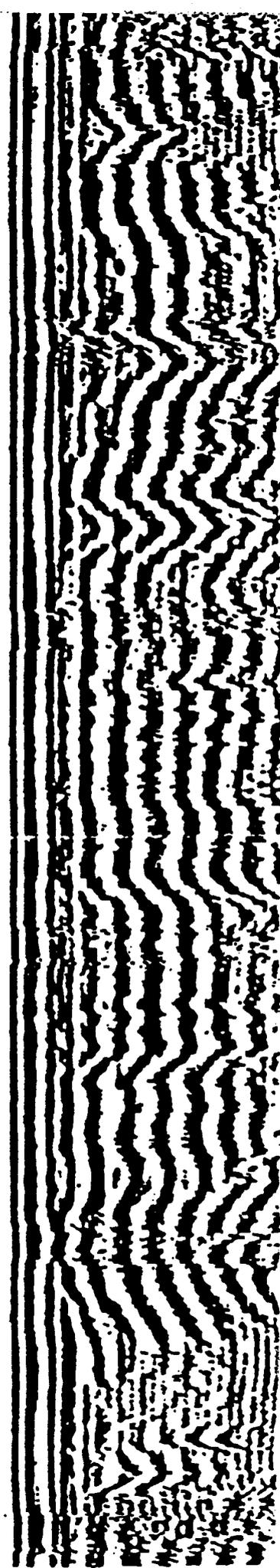
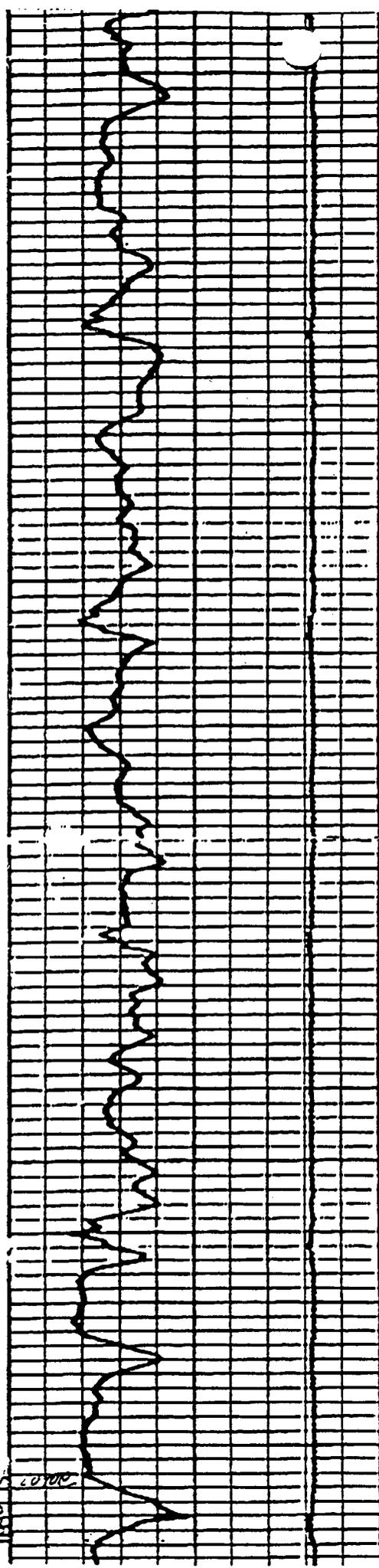


04500

04700

Glen Beach 20700

110



6/16/95 curve

11/3 JSP

15 holes

Total

Reshot

12/14/95

@ 3 JSP

(15 holes)

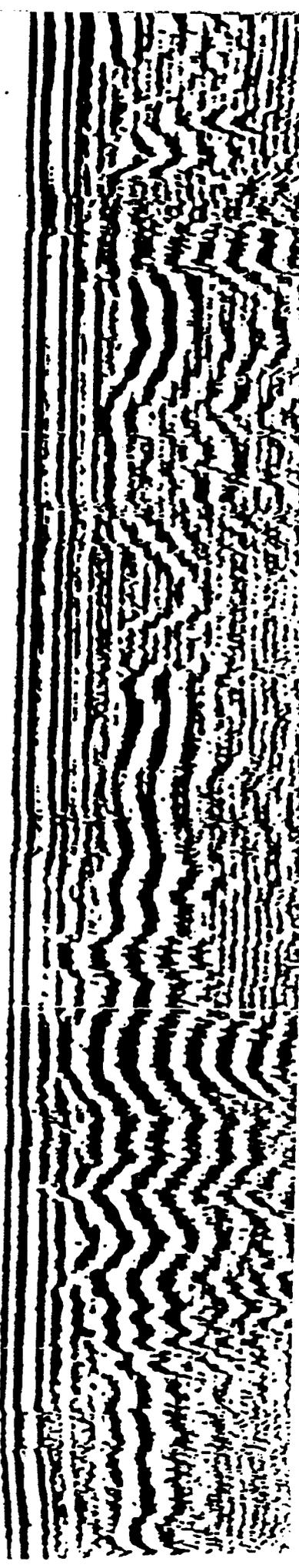
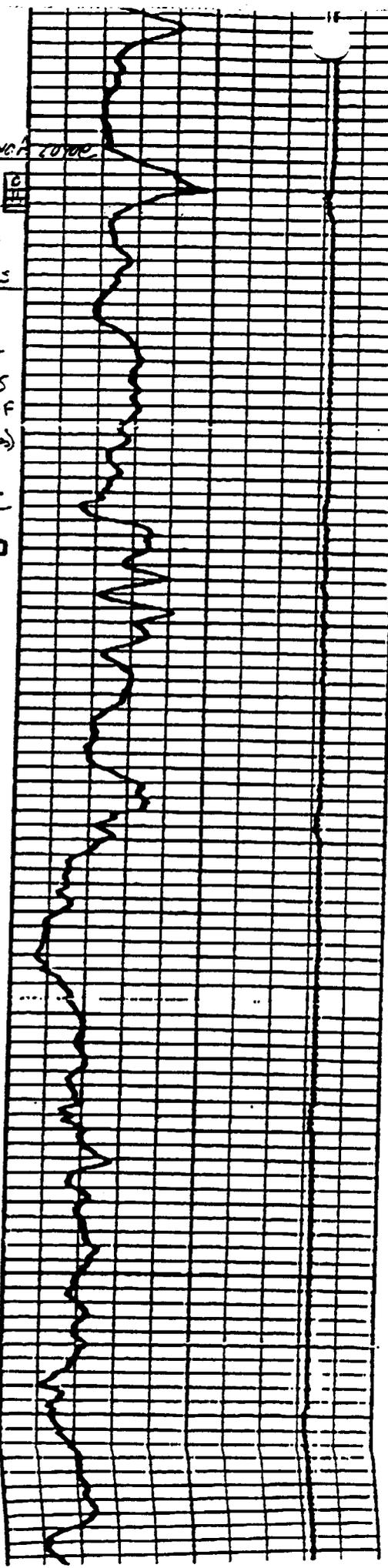
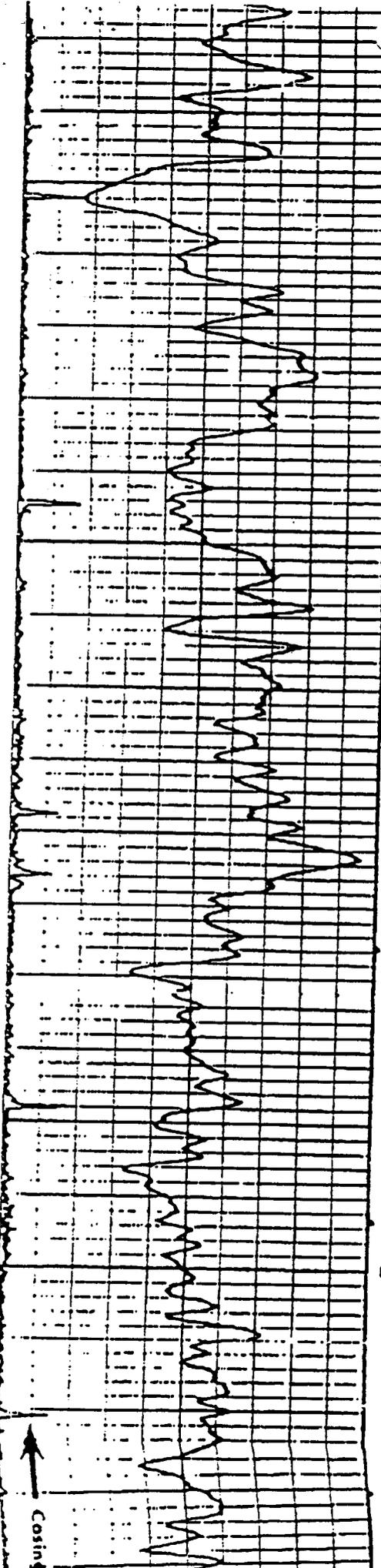
1" / 16"

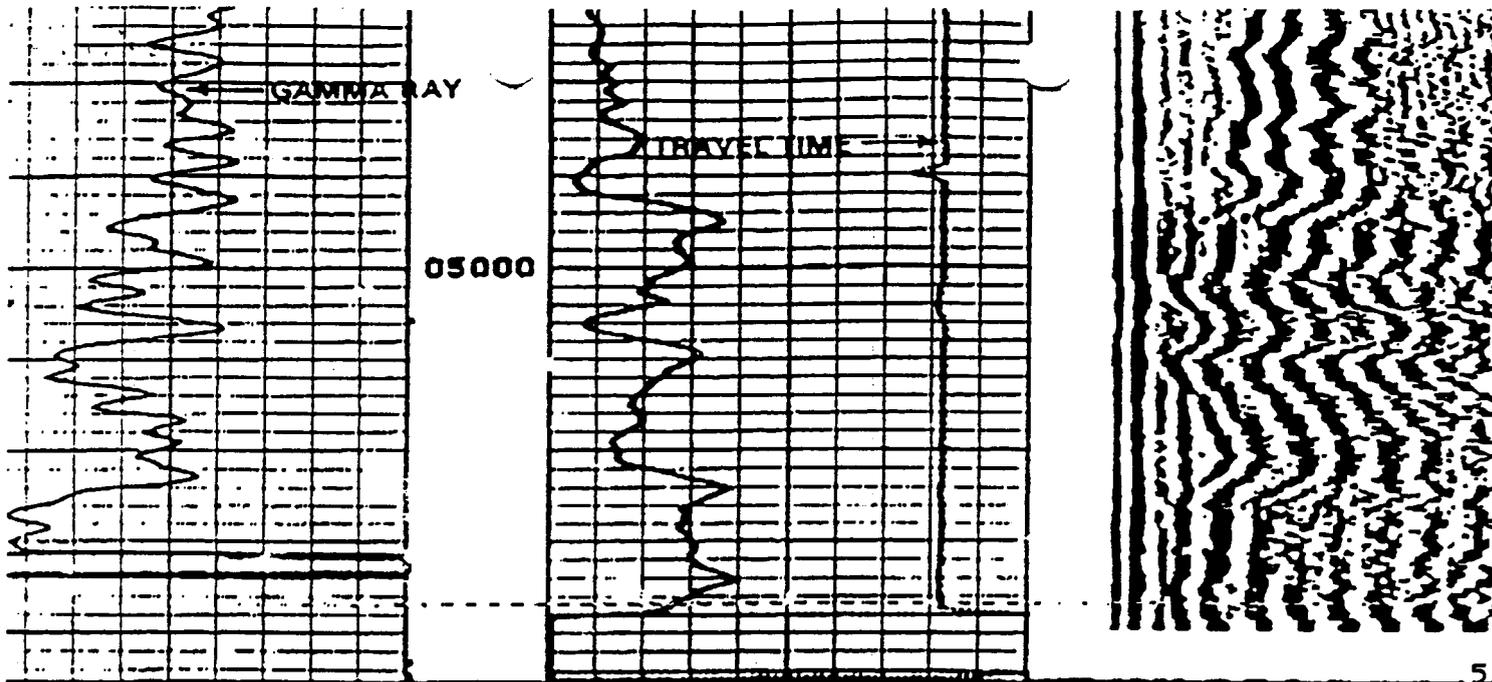
4-5-

04800

04800

Costing





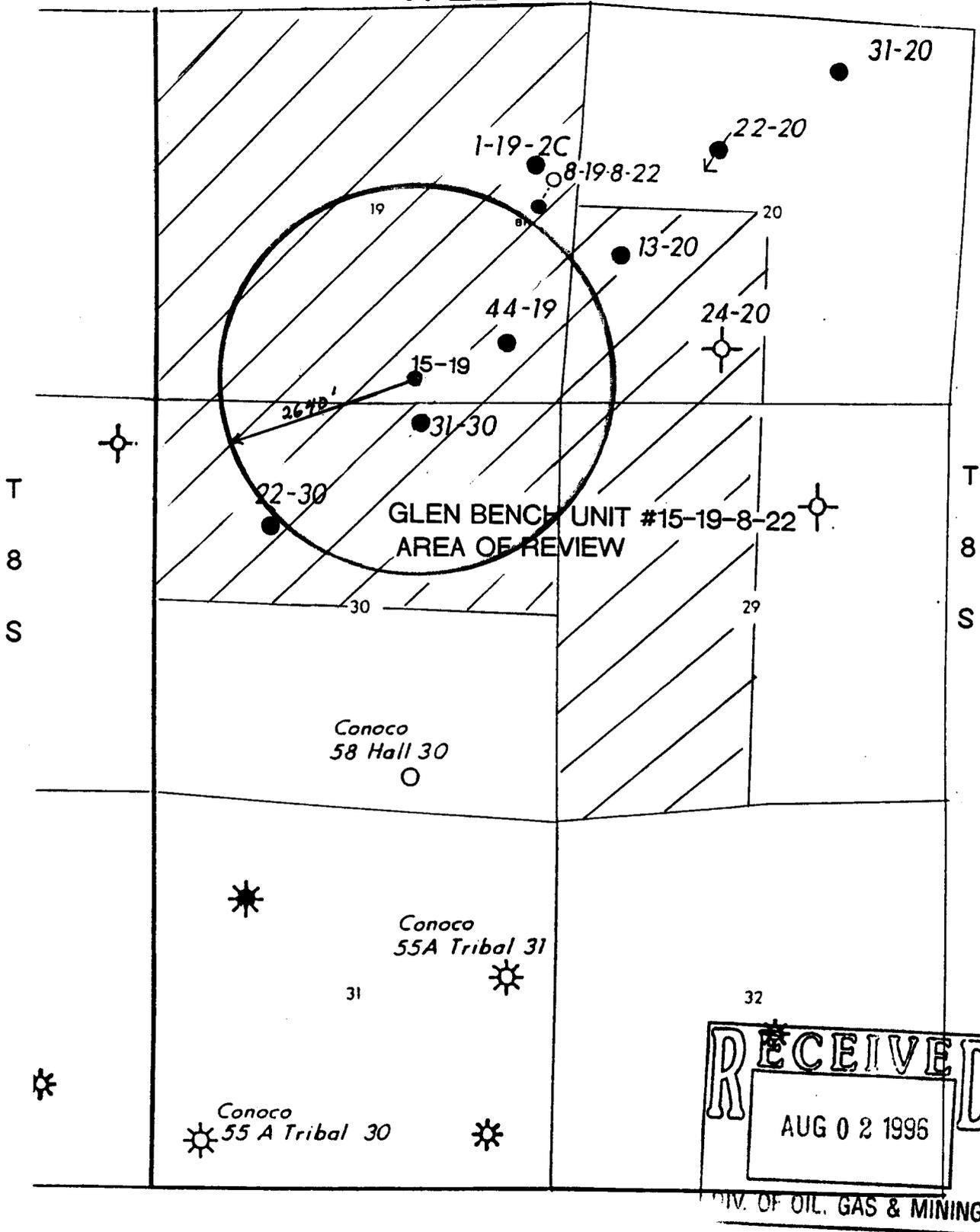
		220 TT/3 (MS/FT)	20	200 S SPECTRUM	1200
CCL	800	0	AMPLITUDE-MV	75	
GR API	150				
-04-82	12:30	5045.0	165672	0072-28	0 2

EXPLANATION

		220 TT/3 (MS/FT)	20	200 S SPECTRUM	1200
CCL	800	0	AMPLITUDE-MV	75	
GR API	150				
-04-82	12:23	4740.5	165672	0072-28	0 1



R 22 E



SURFACE OWNERSHIP
 SECTION 19, T8S R22E: ALL, USA IN TRUST FOR THE UTE INDIAN TRIBE
 SECTION 30, T8S R22E: N 1/2, USA IN TRUST FOR THE UTE INDIAN TRIBE
 SECTION 20, T8S R22E: SW 1/2, USA IN TRUST FOR THE UTE INDIAN TRIBE
 SECTION 28, T8S R22E: W 1/2, USA IN TRUST FOR THE UTE INDIAN TRIBE



CHANDLER & ASSOCIATES, INC.

475 17TH ST. • SUITE 1000 • DENVER, COLORADO 80202 • 303 295-0400
OIL & GAS EXPLORATION AND PRODUCTION FAX 303 295-0222

July 29, 1996

Ed Forsman
USBLM-White River Agency
170 S. 500 E.
Vernal, Utah 84078

**RE: Glen Bench Unit #15-19-8-22
SW SE, Section 19, T8S, R22E
Uintah County, Utah**

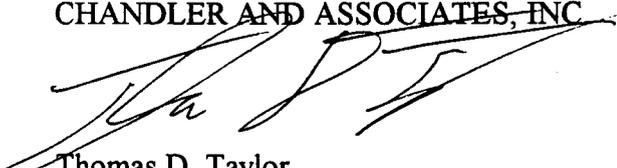
Mr. Forsman;

I wish to inform you and your agency that it is Chandler and Associates, Inc. intention to convert the aforementioned well into a Class II water injection well, utilizing the perforations (4759'-4765'). The application process with the Environmental Protection Agency is being finalized and will be submitted to that agency shortly.

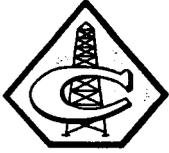
At this time I would like to request that if there are any information requirements or procedures that need to be complied with through your agency, please contact me at (303) 295-0400.

Sincerely,

~~CHANDLER AND ASSOCIATES, INC.~~



Thomas D. Taylor
Production Geologist



CHANDLER & ASSOCIATES, INC.

475 17TH ST. • SUITE 1000 • DENVER, COLORADO 80202 • 303 295-0400
OIL & GAS EXPLORATION AND PRODUCTION FAX 303 295-0222

July 29, 1996

Robert Hendricks
USBLM
P.O. Box 45155
Salt Lake City, Utah 84145-0155

**RE: Glen Bench Unit #15-19-8-22
SW SE, Section 19, T8S, R22E
Uintah County, Utah**

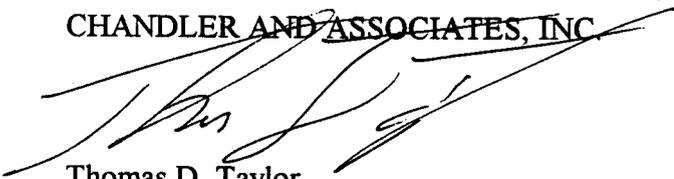
Mr. Hendricks

I wish to inform you and your agency that it is Chandler and Associates, Inc. intention to convert the aforementioned well into a Class II water injection well, utilizing the perforations (4759'-4765'). The application process with the Environmental Protection Agency is being finalized and will be submitted to that agency shortly.

At this time I would like to request that if there are any information requirements or procedures that need to be complied with through your agency, please contact me at (303) 295-0400.

Sincerely,

~~CHANDLER AND ASSOCIATES, INC.~~


Thomas D. Taylor
Production Geologist

Well Class and Type Codes

Class I	Wells used to inject waste below the deepest underground source of drinking water.
Type "I"	Nonhazardous industrial disposal well
"M"	Nonhazardous municipal disposal well
"W"	Hazardous waste disposal well injecting below USDWs
"X"	Other Class I wells (not included in Type "I," "M," or "W")
Class II	Oil and gas production and storage related injection wells.
Type "D"	Produced fluid disposal well
"R"	Enhanced recovery well
"H"	Hydrocarbon storage well (excluding natural gas)
"X"	Other Class II wells (not included in Type "D," "R," or "H")
Class III	Special process injection wells.
Type "G"	Solution mining well
"S"	Sulfur mining well by Frasch process
"U"	Uranium mining well (excluding solution mining of conventional mines)
"X"	Other Class III wells (not included in Type "G," "S," or "U")
Other Classes	Wells not included in classes above.
	Class V wells which may be permitted under §144.12
	Wells not currently classified as Class I, II, III, or V.

Attachments to Permit Application

Class	Attachments
I new well	A, B, C, D, F, H — S, U
existing	A, B, C, D, F, H — U
II new well	A, B, C, E, G, H, M, Q, R; optional — I, J, K, O, P, U
existing	A, E, G, H, M, Q, R — U; optional — J, K, O, P, Q
III new well	A, B, C, D, F, H, I, J, K, M — S, U
existing	A, B, C, D, F, H, J, K, M — U
Other Classes	To be specified by the permitting authority

Form 4 UIC	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY UNDERGROUND INJECTION CONTROL PERMIT APPLICATION <i>(Collected under the authority of the Safe Drinking Water Act, Sections 1421, 1422, 40 CFR 144)</i>	I. EPA ID NUMBER <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:80%;"></td> <td style="width:10%; text-align: center;">T/A</td> <td style="width:10%; text-align: center;">C</td> </tr> <tr> <td style="text-align: center;">U</td> <td></td> <td></td> </tr> </table>		T/A	C	U		
	T/A	C						
U								

READ ATTACHED INSTRUCTIONS BEFORE STARTING FOR OFFICIAL USE ONLY

Application approved <i>mo day year</i>	Date Received <i>mo day year</i>	Permit/Well Number	Comments

II. FACILITY NAME AND ADDRESS	III. OWNER/OPERATOR AND ADDRESS
Facility Name Glen Bench Unit	Owner/Operator Name Chandler & Associates, Inc.
Street Address Glen Bench Field	Street Address 475 17th Street Suite 1000
City Uintah County	City Denver
State UT	State CO
ZIP Code	ZIP Code 80202

IV. OWNERSHIP STATUS (Mark 'x')	V. SIC CODES
<input checked="" type="checkbox"/> A. Federal <input type="checkbox"/> B. State <input type="checkbox"/> C. Private <input type="checkbox"/> D. Public <input type="checkbox"/> E. Other (Explain)	

VI. WELL STATUS (Mark 'x')		
<input checked="" type="checkbox"/> A. Operating	Date Started <i>mo day year</i>	<input checked="" type="checkbox"/> B. Modification/Conversion <input type="checkbox"/> C. Proposed

VII. TYPE OF PERMIT REQUESTED (Mark 'x' and specify if required)			
<input checked="" type="checkbox"/> A. Individual	<input type="checkbox"/> B. Area	Number of Existing wells	Number of Proposed wells Name(s) of field(s) or project(s) Glen Bench Field

VIII. CLASS AND TYPE OF WELL (see reverse)			
A. Class(es) <i>(enter code(s))</i>	B. Type(s) <i>(enter code(s))</i>	C. If class is "other" or type is code 'x,' explain	D. Number of wells per type (if area permit)
II	R		

IX. LOCATION OF WELL(S) OR APPROXIMATE CENTER OF FIELD OR PROJECT												X. INDIAN LANDS (Mark 'x')								
A. Latitude			B. Longitude			Township and Range												<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Deg	Min	Sec	Deg	Min	Sec	Twsp	Range	Sec	1/4 Sec	Feet from	Line	Feet from	Line							
						8S	22E	30	SW	1897'	EL	329'	SC							

XI. ATTACHMENTS

(Complete the following questions on a separate sheet(s) and number accordingly; see instructions)

FOR CLASSES I, II, III (and other classes) complete and submit on separate sheet(s) Attachments A — U (pp 2-6) as appropriate. Attach maps where required. List attachments by letter which are applicable and are included with your application:

XII. 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)

A. Name and Title (Type or Print) D.M. (Don) Johnson Manager, Production/Operations	B. Phone No. (Area Code and No.) (303) 295-0400
C. Signature 	D. Date Signed



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

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

August 7, 1996

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-176

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, 1594 West North Temple, Suite 1210, P.O. Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,

Lorraine Platt

Lorraine Platt
Secretary

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)

August 7, 1996

Vernal Express
P.O. Box 1000
54 North Vernal Avenue
Vernal, Utah 84078

Re: Notice of Agency Action - Cause No. UIC-176

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, 1594 West North Temple, Suite 1210, P.O. Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,

Lorraine Platt

Lorraine Platt
Secretary

Enclosure



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

---ooOoo---

IN THE MATTER OF THE	:	NOTICE OF AGENCY
APPLICATION OF CHANDLER &	:	ACTION
ASSOCIATES, INC. FOR	:	
ADMINISTRATIVE APPROVAL OF	:	CAUSE NO. UIC-176
THE GLEN BENCH STATE 7-16 AND	:	
GLEN BENCH UNIT 15-19-8-22	:	
WELLS LOCATED IN SECTIONS 16	:	
AND 19, 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.

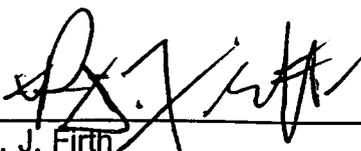
Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Chandler & Associates, Inc. for administrative approval of the Glen Bench State 7-16 and Glen Bench Unit 15-19-8-22 wells, located in Sections 16 and 19, Township 8 South, Range 22 East, S.L.M., 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 5070 feet to 5074 feet in the Glen Bench State 7-16, and the interval from 4759 feet to 4765 feet in the Glen Bench Unit 15-19-8-22 (Glen Bench Zone of Green River Formation) will be selectively perforated for water injection. The maximum requested injection pressure will be limited to 680 PSIG for the 7-16 well and 750 PSIG for the 15-19-8-22 well.

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 7th day of August 1996.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING



R. J. Firth
Associate Director, Oil & Gas

Chandler & Associates, Inc.
Glen Bench State 7-16 and Glen Bench 15-19-8-22 Wells
Cause No. UIC-176

Publication Notices were sent to the following:

Chandler & Associates, Inc.
475 17th Street Suite 1000
Denver, Colorado 80202

Newspaper Agency Corporation
Legal Advertising
157 Regent Street
Salt Lake City, Utah 84110

Vernal Express
P.O. Box 1000
54 North Vernal Avenue
Vernal, Utah 84078

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

School & Institutional Trust Lands
675 East 500 South
Salt Lake City, Utah 84102

U.S. Environmental Protection Agency
Region VIII
Attn: Dan Jackson
999 18th Street
Denver, Colorado 80202-2466



Lorraine Platt
Secretary

**DIVISION OF OIL, GAS AND MINING
UNDERGROUND INJECTION CONTROL PROGRAM**

**PERMIT
STATEMENT OF BASIS**

Applicant: Chandler and Associates **Well:** Glen Bench Unit 15-19-8-22

Location: Glen Bench Unit, Uintah County

Ownership Issues: The proposed well is located in section 19, township 8 south, range 22 east, Uintah, County, Utah. The surface and minerals within a ½ mile of the well is owned by the federal government. Chandler has provided an affidavit stating that all interested parties have been notified of their intent to convert the well to injection.

Well Integrity: The well proposed for injection is the Glen Bench Unit 15-19-8-22. The well has a 8 5/8" surface casing at 395 feet and cemented to surface. A 5 ½" longstring is set at 4914 feet and is cemented to with 460 sxs of 50/50 pozimix cement and 230 sxs Lite cement. Chandler states that the cement top is at 1100 feet verified by a cement bond log. This top is debate able and hard to verify due to the use of lite cement. However there does appear to be good bond through the injection zone and on up to approximately 3400 feet. The injection interval is from 4759 feet to 4765 feet (Glen Bench Member of Green River Formation). A 2 3/8" tubing will be set in a packer at 4740 feet. This construction should adequately protect all USDW's. There are 2 producing wells in the ½ mile area of review. The construction of these wells is adequate to prevent any 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 2-3000 feet located at the base of the Uinta Formation in the area of the project. Any shallow fresh water zones will be adequately protected by existing constructions. A maximum injection pressure of 680 psi (surface pressure) was requested. The fracture gradient for the well is .577 psi/ft., which calculates a parting pressure of 728 psig.. Injection below a pressure of 728 psig. should prevent fracturing of the overlying confining zone. The confining zone above the Glen Bench sand consists of approximately 650 feet of shales, silts, calcareous mudstones and limestones. No corrective action is needed on the proposed well or any of the wells in the area of review. The quality of the water in the injection zone is approximately 39,000 mg/L and does not constitute a USDW.

Oil/Gas & Other Mineral Resources Protection: The project (Glen Bench Unit) was heard before the Board of Oil Gas and Mining on May 24th, 1995. Injection into this well should have no adverse affects on any offsetting production outside the unit area.

Bonding: All the wells in the project are operated by Chandler and Associates. The proposed well is located on Federal land and will be bonded by the BLM.

Actions Taken and Further Approvals Needed: A public notice for the injection well will be published in both the Salt Lake Tribune and the Vernal Express. The application for conversion of the injection well is technically complete. Injection of fluids as per the conditions stated in the application will cause no degradation of any USDW's.

DJJ
Reviewers

08-7-96
Date

143 SOUTH MAIN ST.
 P. O. BOX 45838
 SALT LAKE CITY, UTAH 84145
 FED. TAX I. D. # 87-0217663

Newspaper Agency Corporation

Salt Lake Tribune DESERET NEWS

CUSTOMER'S COPY

PROOF OF PUBLICATION

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL, GAS & MINING 1594 W NORTH TEMPLE STE # 1210 SALT LAKE CITY UT 84114	D5385340L-07	08/15/96

ACCOUNT NAME	
DIV OF OIL, GAS & MINING	
TELEPHONE	INVOICE NUMBER
801-538-5340	TL8C8201161
SCHEDULE	
START 08/15/96 END 08/15/96	
CUST. REF. NO.	
UIC-176	
CAPTION	
NOTICE OF AGENCY ACTION CAUSE N	
SIZE	
47 LINES	2.00 COLUMN
RATE	
1.64	
AD CHARGES	
154.16	
TOTAL COST	
154.16	

NOTICE OF AGENCY ACTION
 CAUSE NO. UIC-176
 BEFORE THE DIVISION OF OIL, GAS AND MINING
 DEPARTMENT OF NATURAL RESOURCES, STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF CHANDLER & ASSOCIATES, INC. FOR ADMINISTRATIVE APPROVAL OF THE GLEN BENCH STATE 7-16 AND GLEN BENCH UNIT 15-19-8-22 WELLS LOCATED IN SECTIONS 16 AND 19, TOWNSHIP 8 SOUTH, RANGE 22 EAST, S.L.M., UTAH COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Chandler & Associates, Inc. for administrative approval of the Glen Bench State 7-16 and Glen Bench Unit 15-19-8-22 wells, located in Sections 16 and 19, Township 8 South, Range 22 East, S.L.M., 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.

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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.

AFFIDAVIT OF PUBLICATION

STATE OF UTAH
 DIVISION OF OIL, GAS AND MINING
 s/ R. J. Firth
 Associate Director, Oil & Gas
 C820110

CORPORATION LEGAL BOOKKEEPER, I CERTIFY THAT THE ATTACHED NOTICE OF AGENCY ACTION CAUSE N _____ FOR & MINING _____ WAS PUBLISHED BY THE NEWSPAPER AGENCY

CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH.

PUBLISHED ON _____ START 08/15/96 END 08/15/96

SIGNATURE *Joanne Mooney*

DATE 08/15/96

NOTARY PUBLIC
 JOANNE MOONEY
 2628 Hartford St.
 Salt Lake City, UT 84108
 My Commission Expires
 March 31, 2000
 STATE OF UTAH

OFFICE COPY

THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"
PLEASE PAY FROM BILLING STATEMENT.

PROOF OF PUBLICATION

STATE OF UTAH,

} SS.

County of Uintah

NOTICE OF AGENCY ACTION

CAUSE NO. UIC-176 BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF CHANDLER & ASSOCIATES, INC. FOR ADMINISTRATIVE APPROVAL OF THE GLEN BENCH STATE 7-16 AND GLEN BENCH UNIT 15-19-8-22 WELLS LOCATED IN SECTIONS 16 AND 19, TOWNSHIP 8 SOUTH, RANGE 22 EAST, S.L.M., UINTAH COUNTY, UTAH AS CLASS II INJECTION WELLS

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The interval from 5070 feet to 5074 feet in the Glen Bench State 7-16 and the interval from 4759 feet to 4765 feet in the Glen Bench Unit 15-19-8-22 (Glen Bench Zone of Green River Formation) will be selectively perforated for water injection. The maximum requested injection pressure will be limited to 680 PSIG for the 7-16 well and 750 PSIG for the 15-19-8-22 well.

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Dated this 7th day of August 1996.

STATE OF UTAH DIVISION OF OIL, GAS & MINING

R.J. FIRTH Associate Director, Oil & Gas

Published in the Vernal Express Aug. 14, 1996.

I, SHEILA S. WHEELER,

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,

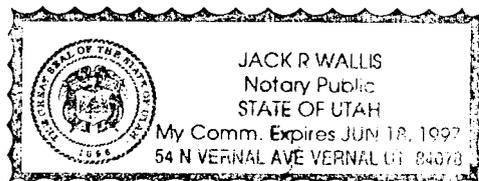
the first publication having been made on the 14th day of August, 1996 and the last on the 14th day of August, 1996, that

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.

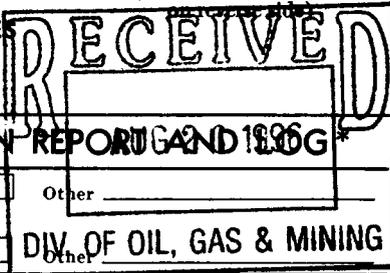
By *Sheila S. Wheeler* Manager

Subscribed and sworn to before me, this 14th day of August A.D. 1996.

Jack R. Wallis Notary Public, Residence, Vernal, Utah



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



WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

2. NAME OF OPERATOR: CHANDLER & ASSOCIATES, INC.

3. ADDRESS OF OPERATOR: 475 17th STREET, SUITE 1000, DENVER, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface SW SE (329' FSL & 1987' FSL)
At top prod. interval reported below SAME
At total depth SAME

CONFIDENTIAL

14. PERMIT NO. 43-047-32756 DATE ISSUED 06-24-96

5. LEASE DESIGNATION AND SERIAL NO. UTU-73974X
6. IF INDIAN, ALLOTTEE OR TRIBE NAME UTE INDIAN TRIBE
7. UNIT AGREEMENT NAME GLEN BENCH
8. FARM OR LEASE NAME GLEN BENCH UNIT
9. WELL NO. 15-19-8-22
10. FIELD AND POOL, OR WILDCAT GLEN BENCH
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec 19-T8S-R22E

15. DATE SPUDDED 7-8-96 16. DATE T.D. REACHED 7-21-96 17. DATE COMPL. (Ready to prod.) 8-02-96 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 4775' GL 4785' KB 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 5175 21. PLUG, BACK T.D., MD & TVD 4871 22. IF MULTIPLE COMPL., HOW MANY* N.A. 23. INTERVALS DRILLED BY -> ROTARY TOOLS O-TD CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4759' - 4765' GRRV 25. WAS DIRECTIONAL SURVEY MADE NO

26. TYPE ELECTRIC AND OTHER LOGS RUN DI/FL/GR CNL-CDL/GR 8-27-96 CBL 9-26-96 27. WAS WELL CORED NO

28. CASING RECORD (Report all strings set in well)
Table with columns: CASING SIZE, WEIGHT, LB./FT., DEPTH SET (MD), HOLE SIZE, CEMENTING RECORD, AMOUNT PULLED

29. LINER RECORD and 30. TUBING RECORD
Table with columns: SIZE, TOP (MD), BOTTOM (MD), SACKS CEMENT*, SCREEN (MD), SIZE, DEPTH SET (MD), PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number) 4659' - 4765' w/4JSPF .50" DIAMETER HOLES
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
Table with columns: DEPTH INTERVAL (MD), AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION
Table with columns: DATE FIRST PRODUCTION, PRODUCTION METHOD, WELL STATUS, DATE OF TEST, HOURS TESTED, CHOKER SIZE, PROD'N. FOR TEST PERIOD, OIL-BBL., GAS-MCF., WATER-BBL., GAS-OIL RATIO

34. DISPOSITION OF GAS (Solid, used for fuel, vented, etc.) Used for fuel, vented TEST WITNESSED BY Randy Smuin

35. LIST OF ATTACHMENTS CBL

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED [Signature] TITLE Vice President of Operations DATE 8-21-96

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

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

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

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

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
UINTAH Ss	SURFACE	2304'	SAND & SHALE
GREEN RIVER	2305'	5094'	SANDSTONE, LACUSTRINE SHALE, OIL SHALE, LIMESTONE, DOLOMITE, SANDSTONE, SILTSTONE, SHALE.
			NO DRILLSTEM TESTS

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
KICKER ZONE	3398'	3398'
"X" MARKER	3982'	3982'
GLEN BENCH Ss	4758'	4758'



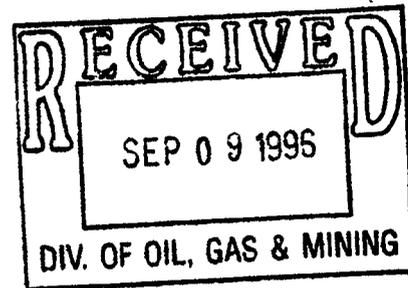
CHANDLER & ASSOCIATES, INC.

475 17TH ST. • SUITE 1000 • DENVER, COLORADO 80202 • 303 295-0400
OIL & GAS EXPLORATION AND PRODUCTION FAX 303 295-0222

September 4, 1996

State of Utah
Division of Oil, Gas, and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

RE: Well Information Confidentiality



Chandler & Associates, Inc., as operator of the well listed below, respectively requests that all information regarding this well be held confidential.

Glen Bench Unit #15-19-8-22
SW SE Section 19, T8S R22E
Uintah County, Utah
API #43 047 32756

Should you have any questions or need any additional information, please feel free to contact me at (303) 295-0400.

Sincerely,

Thomas D. Taylor
Production Geologist



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 25, 1996

Chandler and Associates, Inc.
475 17TH Street, Suite 1000
Denver, Colorado 80202

Re: Glen Bench Unit #15-19-8-22 well, Section 19, 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 well to a Class II injection well. 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.

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: Dan Jackson, 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

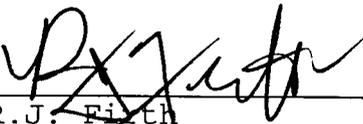
Cause No. UIC-176

Operator: Chandler and Associates, Inc.
Well: Glen Bench Unit 15-19-8-22
Location: Section 19, Township 8 South, Range 22 East,
County: Uintah
API No.: 43-047-32756
Well Type: Enhanced Recovery (waterflood)

Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on September 26, 1996
2. Maximum Allowable Injection Pressure: 750 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: 4759 feet to 4765 feet (Green River Formation)

Approved by:



R.J. Fifth
Associate Director, Oil and Gas



Date



RECEIVED

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	

GB #22-20
GB STATE #7-16
GB STATE #12-16
GBU #15-19-8-22
WRU #19-9

SENE SEC 20, T8S, R22E ✓
SWNE SEC16, T8S, R22E ✓
NWSW SEC 16, T8S, R22E ✓
SWSE SEC 19, T8S, R22E ✓
SWNE SEC 9, T8S, R22E ✓

UT2755-04235
UT2803-04335
UT2765-04248
UT2806-04338
UT2000-02549

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			

RECEIVED

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 17th 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

IN REPLY REFER TO
UT-931

August 24, 2000

Attn: Scott M. Webb
Shenandoah Energy Inc.
465 17th 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		POW	STATE	UTU				
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	POW 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.

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

<p>SUNDRY NOTICES AND REPORTS ON WELLS</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
1. Type of Well		10. API Well Number
<input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)		11. Field and Pool, or Wildcat
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 :

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA																											
<p align="center">NOTICE OF INTENT (Submit in Duplicate)</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Abandonment</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Recompletion</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Shoot or Acidize</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Multiple Completion</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input type="checkbox"/> Other _____</td> <td></td> </tr> </table> <p>Approximate Date Work Will Start _____</p>	<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> Other _____		<p align="center">SUBSEQUENT REPORT (Submit Original Form Only)</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Abandonment *</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Shoot or Acidize</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input checked="" type="checkbox"/> Other <i>Change of Operator</i></td> <td></td> </tr> </table> <p>Date of Work Completion _____</p> <p><small>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.</small></p>	<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off	<input checked="" type="checkbox"/> Other <i>Change of Operator</i>	
<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction																										
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing																										
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<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off																										
<input checked="" type="checkbox"/> Other <i>Change of Operator</i>																											

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)

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

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number <u>SEE ATTACHMENT</u>	API Number
Location of Well Footage : _____ County : _____ QQ, Section, Township, Range: _____ State : UTAH	Field or Unit Name Lease Designation and Number

EFFECTIVE DATE OF TRANSFER: _____

CURRENT OPERATOR

Company: <u>CHANDLER & ASSOCIATES</u>	Name: <u>JAMES A SIMONTON</u>
Address: <u>475 17TH ST #1000</u> city <u>DENVER</u> state <u>CO</u> zip <u>80202</u>	Signature: <u><i>James A Simonton</i></u>
Phone: _____	Title: <u>Operations Supervisor</u>
Comments: _____	Date: _____

NEW OPERATOR

Company: <u>SHENANDOAH ENERGY INC.</u>	Name: <u>J.T. CONLEY</u>
Address: <u>11002 E. 17500 S.</u> city <u>VERNAL</u> state <u>UT</u> zip <u>84078</u>	Signature: <u><i>J.T. Conley</i></u>
Phone: <u>435-781-4300</u>	Title: <u>DISTRICT MANAGER</u>
Comments: _____	Date: <u>10-19-00</u>

(This space for State use only)

Transfer approved by: *[Signature]* Approval Date: 11-2-00
Title: TECH. SERVICES MANAGER

Comments: MIT needed for 22-20, 7-14, 15-19.

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH		4-KAS ✓
2. CDW		5- CDW ✓
3. JLT		6-FILE

Enter date after each listed item is completed

X Change of Operator (Well Sold)

Designation of Agent

Operator Name Change (Only)

Merger

The operator of the well(s) listed below has changed, effective: **8-24-2000**

FROM: (Old Operator):
CHANDLER & ASSOCIATES INC
Address: 475 17TH STREET STE 1000
DENVER, CO 80202
Phone: 1-(303)-295-0400
Account No. N3320

TO: (New Operator):
SHENANDOAH ENERGY INC
Address: 475 17TH STREET STE 1000
DENVER, CO 80202
Phone: 1-(303)-295-0400
Account No. N4235

CA No.

Unit: GLEN BENCH

WELL(S)

NAME	API NO.	ENTITY NO.	SEC. TWN RNG	LEASE TYPE	WELL TYPE	WELL STATUS
GLEN BENCH STATE 17-16	43-047-32582	11716	16-08S-22E	STATE	WI	A
GLEN BENCH STATE 12-16	43-047-32583	11732	16-08S-22E	STATE	WI	A
GLEN BENCH STATE 15-19	43-047-32756	11955	19-08S-22E	FEDERAL	WI	A
GLEN BENCH FEDERAL 22-20	43-047-31356	6135	20-08S-22E	FEDERAL	WI	A

OPERATOR CHANGES DOCUMENTATION

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 05/30/2000
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 05/30/2000
- The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 11/02/2000
- Is the new operator registered in the State of Utah: YES Business Number: 1467732-0143
- If **NO**, the operator was contacted on: _____
- 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
- Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: 08/24/2000
- 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") Prog: 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: 11/03/2000

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: N/A
4. Fee wells attached to bond in RBDMS on: N/A

STATE BOND VERIFICATION:

1. State well(s) covered by Bond No.: 159261960

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: _____

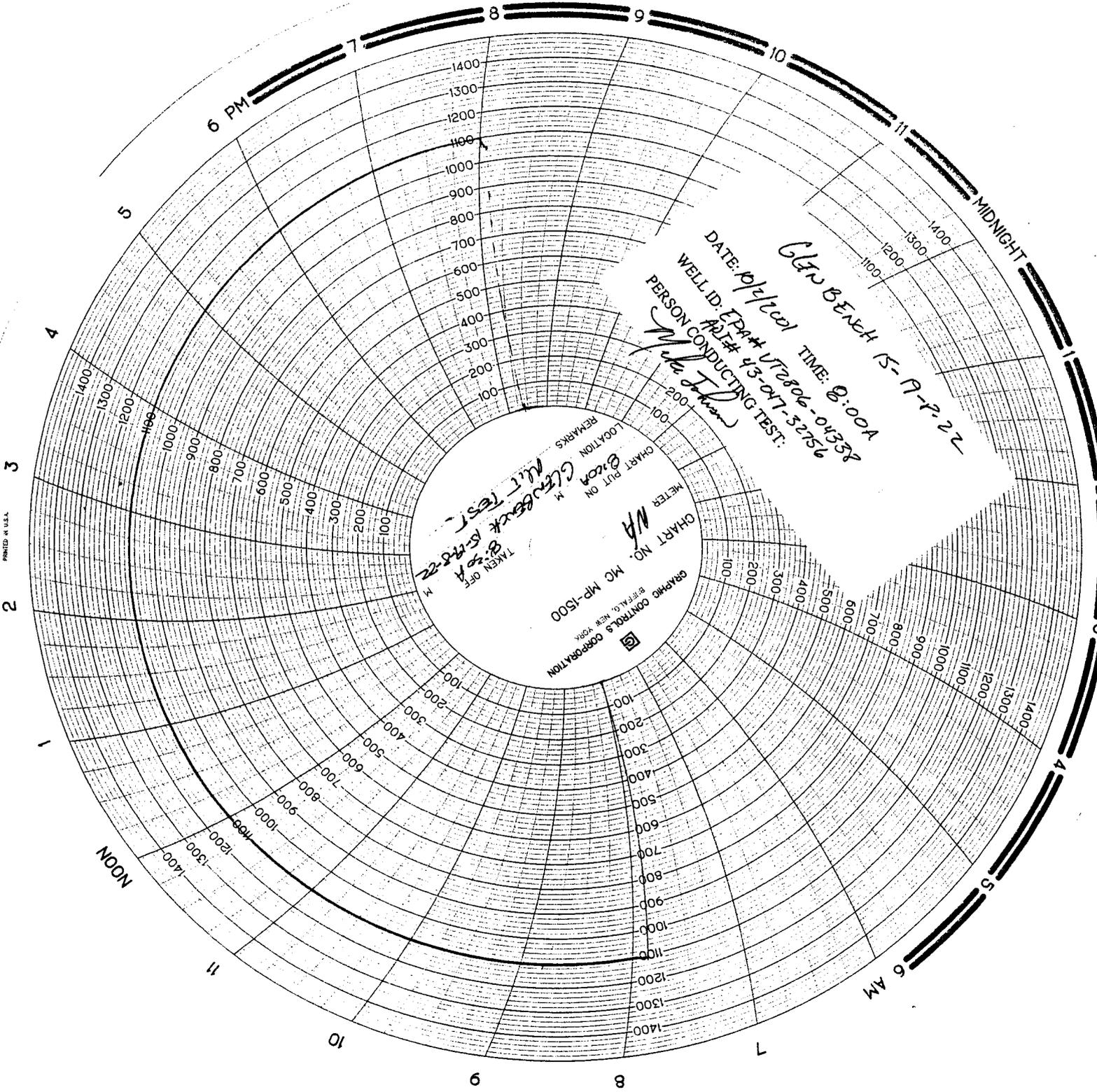
FILMING:

1. All attachments to this form have been **MICROFILMED** on: 3.2.01

FILING:

1. **ORIGINALS/COPIES** of all attachments pertaining to each individual well have been filed in each well file on: _____

COMMENTS:



DATE: 10/12/00
 WELL ID: EPA# VT2806-04338
 PERSON CONDUCTING TEST: M. J. Johnson
 CLEAN BANK 15-19-02
 TIME: 8:00A
 ADJ# 43-017-32756

CHART NO. MC MP-1500
 GRAPHIC CONTROLS CORPORATION
 BIRFALD, MA 01864
 CHART PUT ON: NA
 METER: NA
 LOCATION: CLEAN BANK
 REMARKS: M/T TEST
 TAKEN OFF: 8:30A
 15-19-02

NOON

MIDNIGHT



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



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 17th 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 17th 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 Uinta Basin
MFU

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

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number <u>See Attached List</u>		API Number
Location of Well		Field or Unit Name <u>Glen Bench</u>
Footage:	County: <u>Uintah</u>	Lease Designation and Number
QQ, Section, Township, Range:	State: <u>UTAH</u>	

EFFECTIVE DATE OF TRANSFER: _____

CURRENT OPERATOR

Company: <u>Shenandoah Energy Inc</u>	Name: <u>John Busch</u>
Address: <u>11002 East 17500 South</u>	Signature: <u>John Busch</u>
<u>city Vernal state UT zip 84078</u>	Title: <u>District Foreman</u>
Phone: <u>(435) 781-4300</u>	Date: <u>9-02-03</u>
Comments:	

NEW OPERATOR

Company: <u>QEP Uinta Basin, Inc.</u>	Name: <u>John Busch</u>
Address: <u>11002 East 17500 South</u>	Signature: <u>John Busch</u>
<u>city Vernal state UT zip 84078</u>	Title: <u>District Foreman</u>
Phone: _____	Date: <u>9-02-03</u>
Comments:	

(This space for State use only)

Transfer approved by: [Signature]
Title: Prod. Services Manager

Approval Date: 9-10-03

Comments: Case # 235-01
located in Indian Country, EPA
is primary UIC Agency.

RECEIVED
SEP 04 2003
DIV. OF OIL, GAS & MINING

well_name	Sec	T	R	api	Entity	Lease Type	type	stat	Field	Footages
GLEN BENCH FED 22-20	20	080S	220E	4304731356	13727	Federal	WI	A	Natural Buttes	1895 FNL, 1822 FWL
GLEN BENCH U 15-19-8-22	19	080S	220E	4304732756	13727	Federal	WI	A	Natural Buttes	329' FSL, 1987' FEL
GLEN BENCH ST 12-16	16	080S	220E	4304732583	13727	State	WI	A	Kennedy Wash	1432' FSL, 637' FWL
GLEN BENCH ST 6-16	16	080S	220E	4304732549	13727	State	WI	A	Kennedy Wash	1559' FNL, 2191 FWL
GLEN BENCH ST 7-16	16	080S	220E	4304732582	13727	State	WI	A	Kennedy Wash	1736 FNL, 1464 FEL

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

Operator Name Change

Merger

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

2/1/2003

FROM: (Old Operator): N4235-Shenandoah Energy Inc 11002 E 17500 S Vernal, UT 84078-8526 Phone: (435) 781-4341	TO: (New Operator): N2460-QEP Uinta Basin Inc 11002 E 17500 S Vernal, UT 84078-8526 Phone: (435) 781-4341
--	---

CA No.

Unit:

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS	Confid
BRENNAN BOTTOM UNIT									
BRENNAN FED 5	18	070S	210E	4304715420	5261	Federal	WI	A	
BRENNAN FED 11	18	070S	210E	4304732772	5261	Federal	WI	A	
GLEN BENCH UNIT									
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	
GLEN BENCH U 15-19-8-22	19	080S	220E	4304732756	13727	Federal	WI	A	
GLEN BENCH FED 22-20	20	080S	220E	4304731356	13727	Federal	WI	A	
GYPSUM HILLS UNIT									
GYPSUM HILLS 12	19	080S	210E	4304732458	5355	Federal	WI	A	
COSTAS FED 1-20-4B	20	080S	210E	4304731006	5355	Federal	WI	A	
COSTAS FED 2-20-3B	20	080S	210E	4304731066	5355	Federal	WI	A	
GYPSUM HILLS 15	20	080S	210E	4304732648	5355	Federal	WI	A	
GYPSUM HILLS 17	20	080S	210E	4304732649	5355	Federal	WI	A	
GYPSUM HILLS 3	20	080S	210E	4304720002	5355	Federal	WI	A	
GYPSUM HILLS 6	20	080S	210E	4304730099	5251	Federal	WI	A	
SRU 8-I	20	080S	210E	4304731932	5355	Federal	WI	A	
COSTAS FED 3-21-1D	21	080S	210E	4304731604	5355	Federal	WI	A	
GYPSUM HILLS 10	21	080S	210E	4304732306	5355	Federal	WI	A	

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: 6/2/2003
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/2/2003
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/19/2003
- Is the new operator registered in the State of Utah: YES Business Number: 5292864-0151

5. If NO, the operator was contacted contacted on: _____

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: 9/10/2003

DATA ENTRY:

1. Changes entered in the Oil and Gas Database on: 9/16/2003

2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 9/16/2003

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:

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

FROM: (Old Operator): N2460-QEP Uinta Basin, Inc. 1050 17th St, Suite 500 Denver, CO 80265 Phone: 1 (303) 672-6900	TO: (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

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 CITY 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>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.

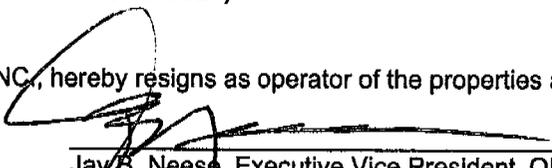
Effective January 1, 2007 operator of record, QEP Uinta Basin, Inc., will hereafter be known as QUESTAR EXPLORATION AND PRODUCTION COMPANY. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible 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

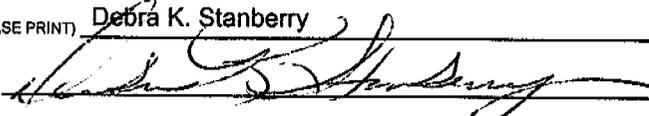
Fee Land Bond Number: 965003033

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) Debra K. Stanberry TITLE Supervisor, Regulatory Affairs
SIGNATURE  DATE 3/16/2007

(This space for State use only)

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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

FROM: (Old Operator): N5085-Questar Exploration and Production Company 1050 17th St, Suite 500 Denver, CO 80265 Phone: 1 (303) 308-3048	TO: (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
GB 22-20	20	080S	220E	4304731356	13727	Federal	WI	A
GB 6-16	16	080S	220E	4304732549	13727	State	WI	A
GB 7-16	16	080S	220E	4304732582	13727	State	WI	A
GB 12-16	16	080S	220E	4304732583	13727	State	WI	A
GB 15-19-8-22	19	080S	220E	4304732756	13727	Federal	WI	A

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 6/30/2009
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician



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

Roger L. Bankert

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

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

UIC FORM 5

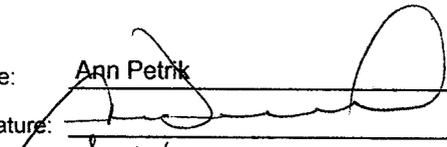
TRANSFER OF AUTHORITY TO INJECT

Well Name and Number See Attached List		API Number Attached
Location of Well		Field or Unit Name Attached
Footage : Attached	County :	Lease Designation and Number Attached
QQ, Section, Township, Range:	State : UTAH	

EFFECTIVE DATE OF TRANSFER: 6/14/2010

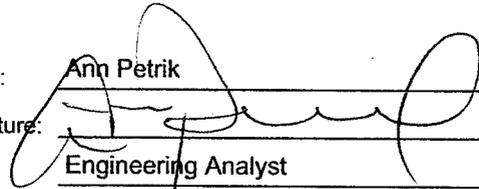
CURRENT OPERATOR

Company: Questar Exploration and Production Company
 Address: 1050 17th Street, Suite 500
city Denver state CO zip 80265
 Phone: (303) 672-6900
 Comments:

Name: Ann Petrik
 Signature: 
 Title: Engineering Analyst
 Date: 6/28/2010

NEW OPERATOR

Company: QEP Energy Company
 Address: 1050 17th Street, Suite 500
city Denver state CO zip 80265
 Phone: (303) 672-6900
 Comments:

Name: Ann Petrik
 Signature: 
 Title: Engineering Analyst
 Date: 6/28/2010

(This space for State use only)

Transfer approved by: _____

Approval Date: _____

Title: _____

Comments:

**Accepted by the
Utah Division of
Oil, Gas and Mining**

EPA approved well

Date: 6/29/10
 By: D. Jones

RECEIVED
JUN 28 2010