

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG                      ELECTRIC LOGS                       X                      WATER SANDS                      LOCATION INSPECTED                      SUB. REPORT/abd.                       
 9100104 Commenced Injection 12-15-95  
 9100206 Confidential STATUS Expired 2-26-96

DATE FILED NOVEMBER 17, 1994  
 LAND: FEE & PATENTED                      STATE LEASE NO. ML-22049 PUBLIC LEASE NO.                      INDIAN                     

DRILLING APPROVED: NOVEMBER 23, 1994  
 SPUDDED IN: 1-4-95  
 COMPLETED: 1-26-95 PDW PUT TO PRODUCING: 2-11-95

INITIAL PRODUCTION: 45 BOPD  
 GRAVITY A.P.I. 37.2

GOR:                       
 PRODUCING ZONES: 49160-49165 (GRRV) & 47416-47417 (GRGB6) Injection Interval  
 TOTAL DEPTH: 5803'  
 WELL ELEVATION: 4583 GR, 4865 KB  
 DATE ABANDONED:                     

FIELD: UNDESIGNATED FIELD  
 UNIT: NA  
 COUNTY: UINTAH

WELL NO. GLEN BENCH STATE #12-16 API NO. 43-047-32583  
 LOCATION 1432' FSL FT. FROM (N) (S) LINE. 637' FWL FT. FROM (E) (W) LINE. NW SW 1/4 - 1/4 SEC. 16

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				8S	22E	16	CHANDLER & ASSOC

QUATERNARY	Star Point	Chinle	Molas
Alluvium	Wahweap	Shinarump	Manning Canyon
Lake beds	Masuk	Moenkopi	Mississippian
Pleistocene	Colorado	Sinbad	Humbug
Lake beds	Sego	PERMIAN	Brazer
TERTIARY	Buck Tongue	Kaibab	Pilot Shale
Pliocene	Castlegate	Coconino	Madison
Salt Lake	Mancos	Cutler	Leadville
Oligocene	Upper	Hoskinnini	Redwall
Norwood	Middle	DeChelly	DEVONIAN
Eocene	Lower	White Rim	Upper
Duchesne River	Emery	Organ Rock	Middle
Uinta	Blue Gate	Cedar Mesa	Lower
Bridger	Ferron	Halgaite Tongue	Ouray
Green River	Frontier	Phosphoria	Eibert
"43-11" zone	Dakota	Park City	McCracken
"V" marker	Burro Canyon	Rico (Goodridge)	Aneth
Glen Bench ss	Cedar Mountain	Supai	Simonson Dolomite
	Buckhorn	Wolfcamp	Sevy Dolomite
	JURASSIC	CARBON I FEROUS	North Point
Wasatch	Morrison	Pennsylvanian	SILURIAN
Stone Cabin	Salt Wash	Oquirrh	Laketown Dolomite
Colton	San Rafael Gr.	Weber	ORDOVICIAN
Flagstaff	Summerville	Morgan	Eureka Quartzite
North Horn	Bluff Sandstone	Hermosa	Pogonip Limestone
Almy	Curtis		CAMBRIAN
Paleocene	Entrada	Pardox	Lynch
Current Creek	Moab Tongue	Ismay	Bowman
North Horn	Carmel	Desert Creek	Tapeats
CRETACEOUS	Glen Canyon Gr.	Akah	Ophir
Montana	Navajo	Barker Creek	Tintic
Mesaverde	Kayenta		PRE - CAMBRIAN
Price River	Wingate	Cane Creek	
Blackhawk	TRIASSIC		

surface

2158'  
21405'  
4813'  
4948'

5318'

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

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

Form approved.  
Budget Bureau No. 1004-0136  
Expires August 31, 1985

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. TYPE OF WORK  
 DRILL                       DEEPEN                       PLUG BACK

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

2. NAME OF OPERATOR  
 Chandler & Associates, Inc.

3. ADDRESS OF OPERATOR  
 475 Seventeenth Street, Suite 1000                      Phone #(303)295-0400  
 Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface  
 1432' FSL 637' FWL (NW1/4 SW1/4)  
 At proposed prod. zone

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

10. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)                      637'

16. NO. OF ACRES IN LEASE                      640

17. NO. OF ACRES ASSIGNED TO THIS WELL                      40

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.                      1500'

19. PROPOSED DEPTH                      5450'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 4853 GR.

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

5. LEASE DESIGNATION AND SERIAL NO.  
 ML - 22049

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 N/A

7. UNIT AGREEMENT NAME  
 N/A

8. FARM OR LEASE NAME  
 Glen Bench State

9. WELL NO.  
 #12-16

10. FIELD AND POOL, OR WILDCAT  
 Glen Bench

11. SEC. T. R. M. OR BLK. AND SURVEY OR AREA  
 Sec. 16, T8S, R22E,  
 S.L.B. & M.

12. COUNTY OR PARISH                      13. STATE  
 Uintah                      Utah

**PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/2"	8 5/8"	24#	350'	(See attached Drilling Plan)
7 7/8"	5 1/2"	15.5#	5450'	(See attached Drilling Plan)

- M.I.R.U.
- Drill to T.D. 5450'
- Run 5 1/2" casing if commercial production is indicated.
- If dry hole, well will be plugged and abandoned as instructed by the BLM.
- Well will be drilled with fresh water to 5000' 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., B.L.M. Bond #2396118, with Reichart Silversmith.

*Aetna State Bond 19S19040790*

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

SIGNED Robert L. Kay, Jr. I. S.                      TITLE Agent for Chandler & Assoc DATE November 16, 1994

(This space for Federal or State office use)

PERMIT NO. 43-044-32583

APPROVAL DATE

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

11/23/94  
*JAN Matthews*  
 R649-3-3

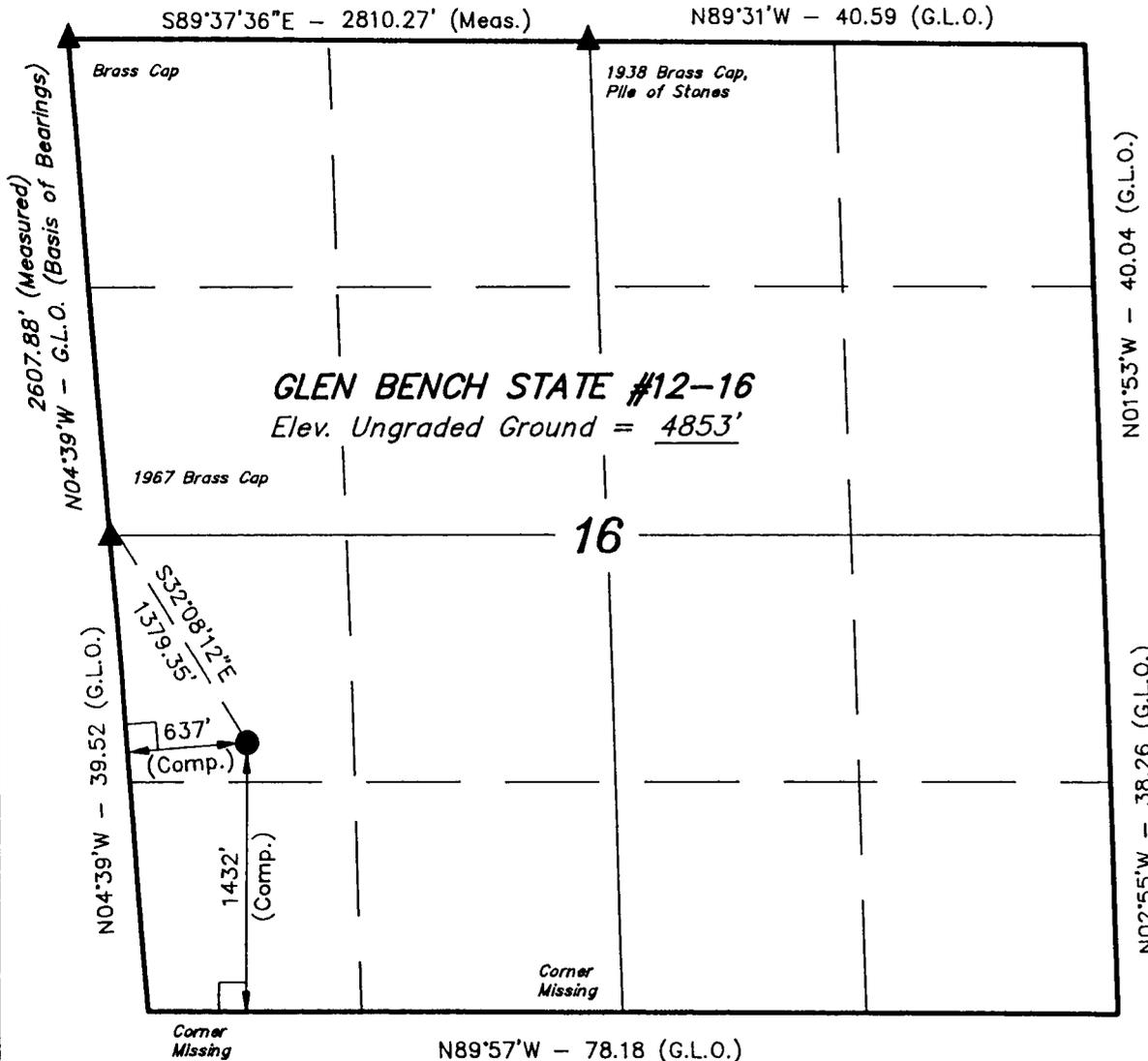
\*See Instructions On Reverse Side

DIV OF OIL, GAS & MINING  
 17 NOV 1994

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

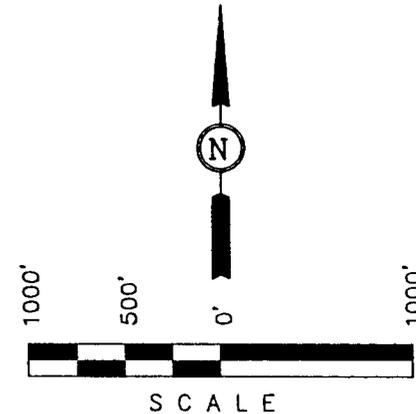
CHANDLER & ASSOCIATES, INC.

Well location, GLEN BENCH STATE #12-16, located as shown in the NW 1/4 SW 1/4 of Section 16, T8S, R22E, S.L.B.&M. Uintah County, Utah.



### BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 16, T8S, R22E, S.L.B.&M. TAKEN FROM THE RED WASH 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 5038 FEET.



### CERTIFICATE

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

*Robert L. Key*

REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

### LEGEND:

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

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

SCALE 1" = 1000'	DATE SURVEYED: 10-3-94	DATE DRAWN: 10-28-94
PARTY D.A. G.B. C.B.T.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE CHANDLER & ASSOCIATES, INC.	

NOVEMBER 21, 1994

STATE OF UTAH  
DIVISION OF OIL GAS & MINING

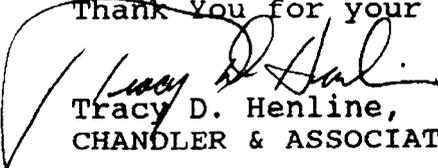
RE: Letter of Exception Locations

Attn: Mike Hebertson

Chandler & Associates, Inc. respectfully submits the following information for an Exception Location on the below mentioned well pads.

The Glen Bench State #12-16, located 1432' FSL & 637' FEL in Section 16, T8S, R22E, S.L.B.&M. and the Glen Bench State #7-16, located 1736' FNL & 1464' FEL in Section 16, T8S, R22E, S.L.B.&M. were both moved from the standard 40 acre location due to the topographical relief in the area, (which is not well represented on the 7.5 min. quad.) We have kept the move of these locations at a minimum and both are at the first available area outside of the window which is suitable to build a location. If you have any questions concerning this matter please feel free to call me at (801) 789-1017.

Thank You for your attention to this matter,



Tracy D. Henline, U.E.L.S./Agent for  
CHANDLER & ASSOCIATES, INC.

**CHANDLER & ASSOCIATES, INC.  
DRILLING PLAN FOR THE  
GLEN BENCH STATE #12-16**

I. DRILLING PLAN:

1. Geological Surface Formation: Uintah

2. Estimated Tops:

<u>Name</u>	<u>Top</u>	<u>Prod. Phase Anticipated</u>
Green River	2789'	
X Marker	4892'	
Glen Bench Sand	5030'	
White River Sand	5287'	Oil
Wasatch	5377'	
TD	5450'	

3. CASING PROGRAM:

	<u>Depth</u>	<u>Hole Size</u>	<u>Csg. Size</u>	<u>Type</u>	<u>Weight</u>
Surface	350'	12-1/4"	8-5/8"	K-55	24#/ft
Prod.	5450	7-7/8"	5-1/2"	K-55	15.5#/ft

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 State #12-16**

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.

6. Proposed Circulating Medium:

<u>Depth</u>	<u>Mud Type</u>	<u>Density (lb./gal)</u>	<u>Viscosity</u>	<u>Water Loss</u>
0'-350'	Fresh Water with LCM	8.4	30	No control
350'-5000'	Fresh Water with LCM	8.4 - 8.6	30-35	No control
5000'-TD	Chem Gel Mud	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 surface).  
 CNL/Litho Density (base of surface to TD)  
 Mud Logger (base of surface to TD)
- 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.

**Chandler & Associates, Inc.**  
**Glen Bench State #12-16**

8. Cementing Program:

<u>Casing</u>	<u>Volume</u>	<u>Type &amp; Additives</u>
Surface	265 sx	Class "G" w/2% CaCl <sub>2</sub> 1/4#/sk cello seal (based on 100% access)
Production	760 sx *	460 sx Super "G" containing 47#/sk Class "G" plus 20#/sk Poz"A" plus 17#/sk CSE plus 3% salt plus 2% Gel followed by 300 sx Class "G" containing 0.15% WR-15 (Retarder)

Cement Characteristics:

Class "G" - yeild = 1.18 cu.ft. per. sack  
weight = 15.8 lb./gal  
strength = 3200 psi in 72 hrs @ 135 degrees  
Super "G" - yeild = 2.76 cu.ft. per. sack  
weight = 11.08 lb./gal  
strength = 630 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 surface.

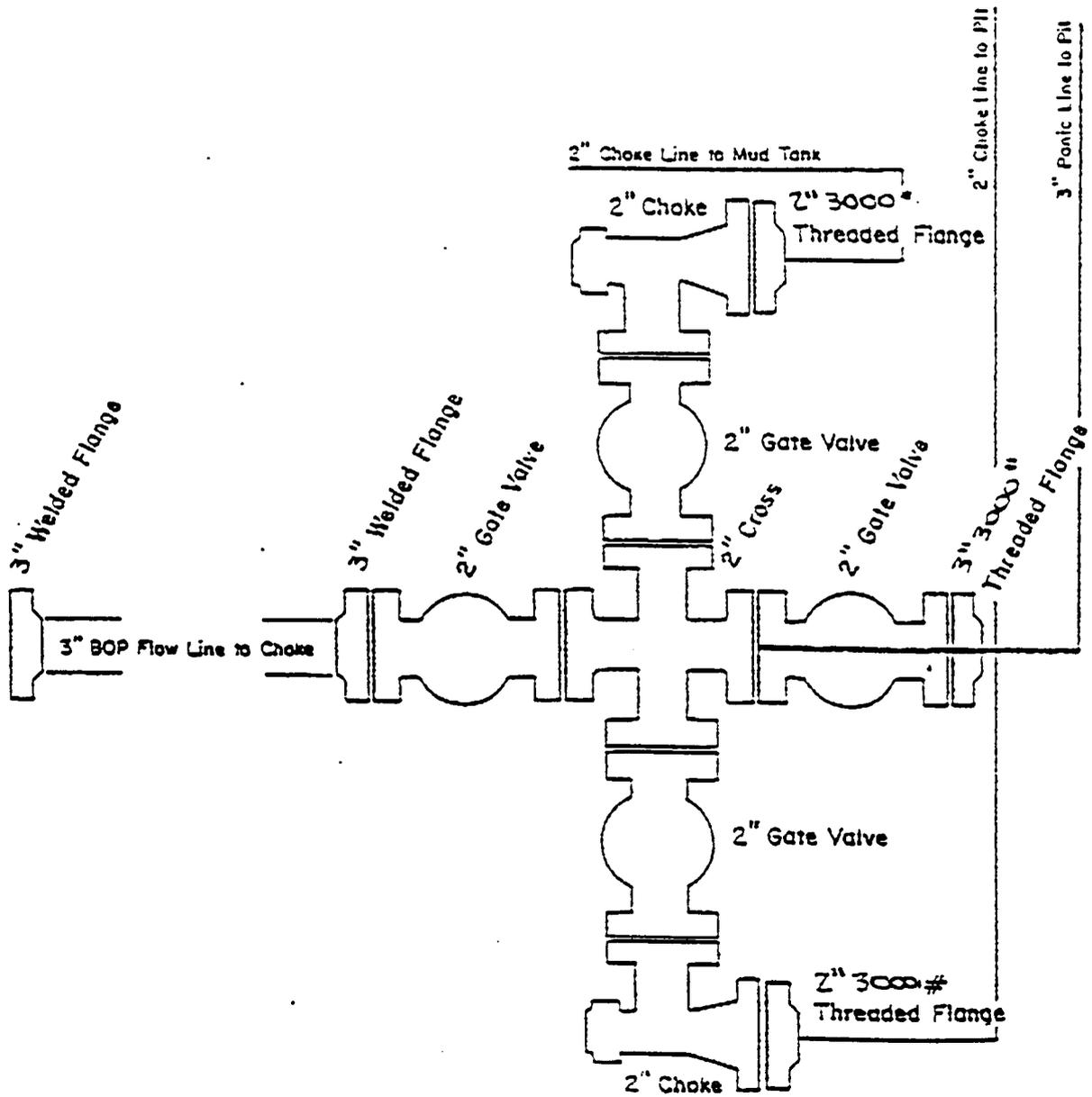
A bond log will be run across the zone of interest and across zones as required by the authorized officer to insure protection of natural resources.

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

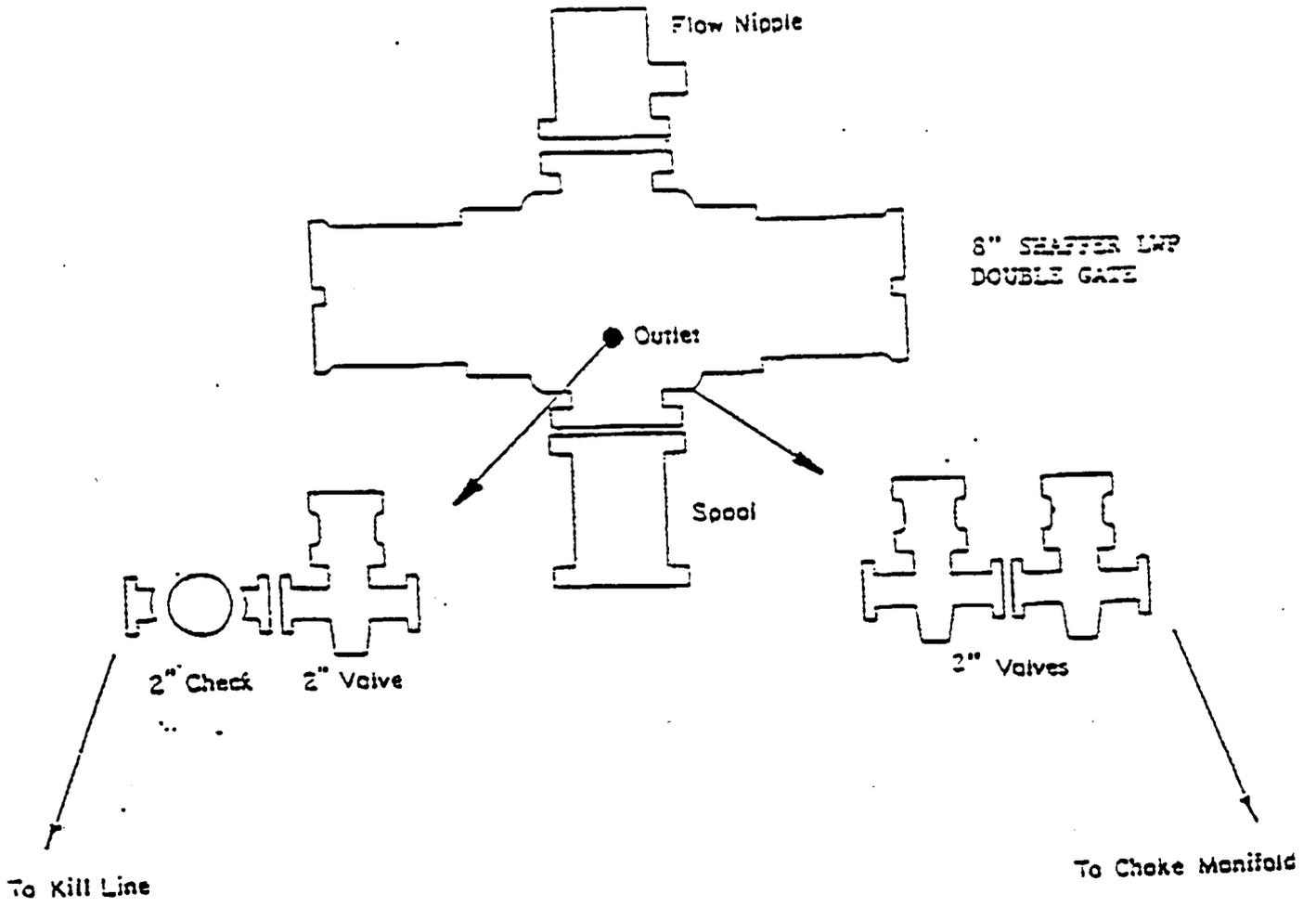
No abnormal temperatures or pressures are anticipated. No H<sub>2</sub>S has been encountered in or known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom hole pressure equals approximately 1,600 psi (calculated at 0.303 psi/ft) and maximum anticipated surface pressure equals approximately 437 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

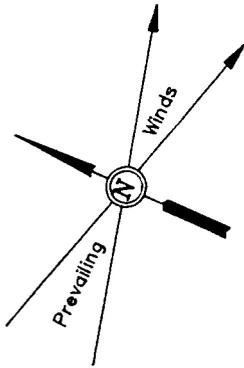


# CHANDLER & ASSOCIATES, INC.

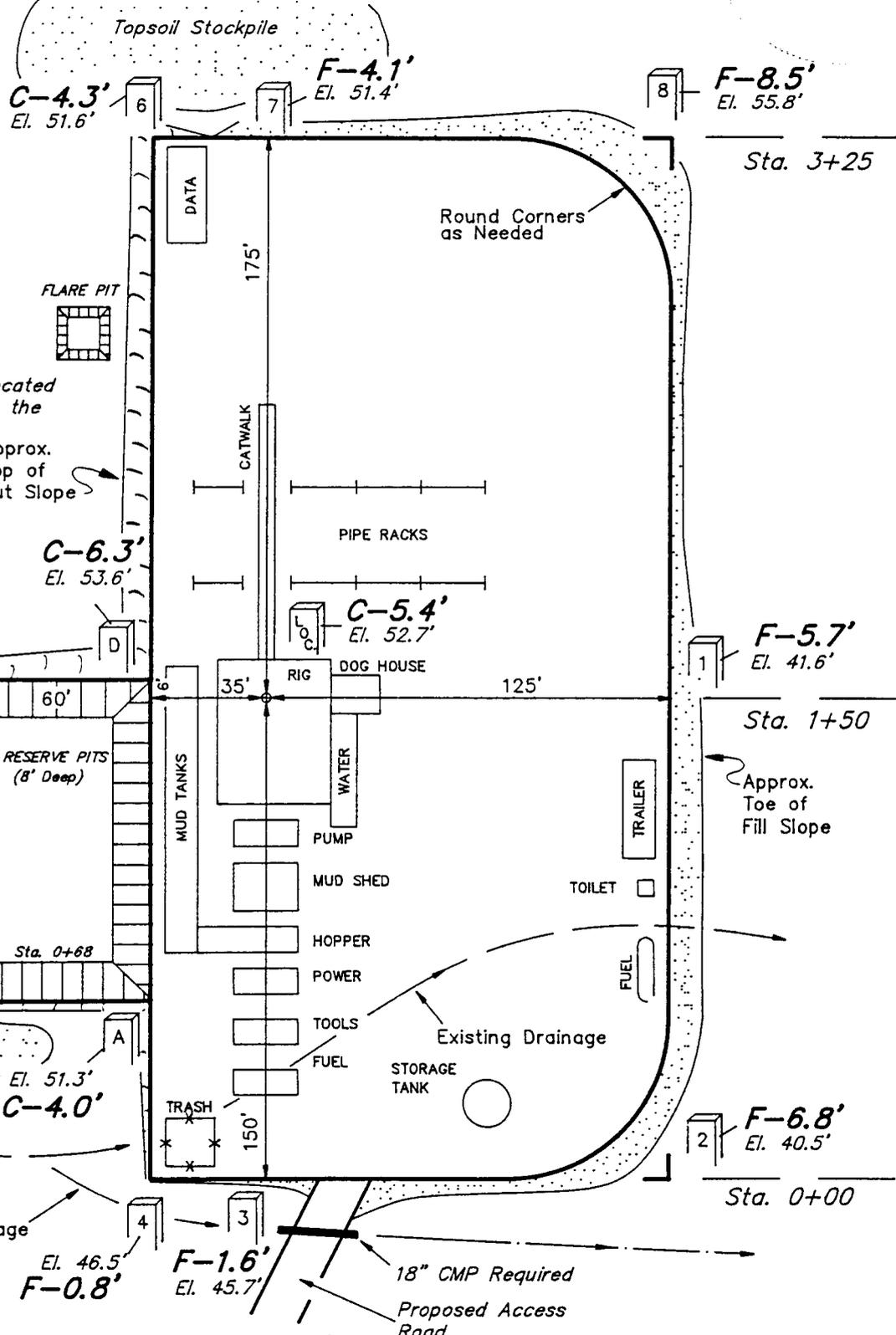
## LOCATION LAYOUT FOR

GLEN BENCH STATE #12-16  
SECTION 16, T8S, R22E, S.L.B.&M.  
1432' FSL 637' FWL

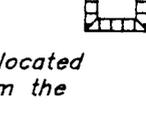
*Handwritten signature*



SCALE: 1" = 50'  
DATE: 10-28-94  
Drawn By: C.B.T.



Reserve Pit Backfill & Spoils Stockpile



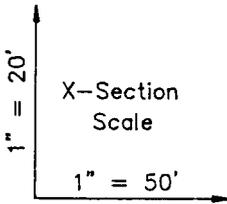
Elev. Ungraded Ground at Location Stake = 4852.7'

Elev. Graded Ground at Location Stake = 4847.3'

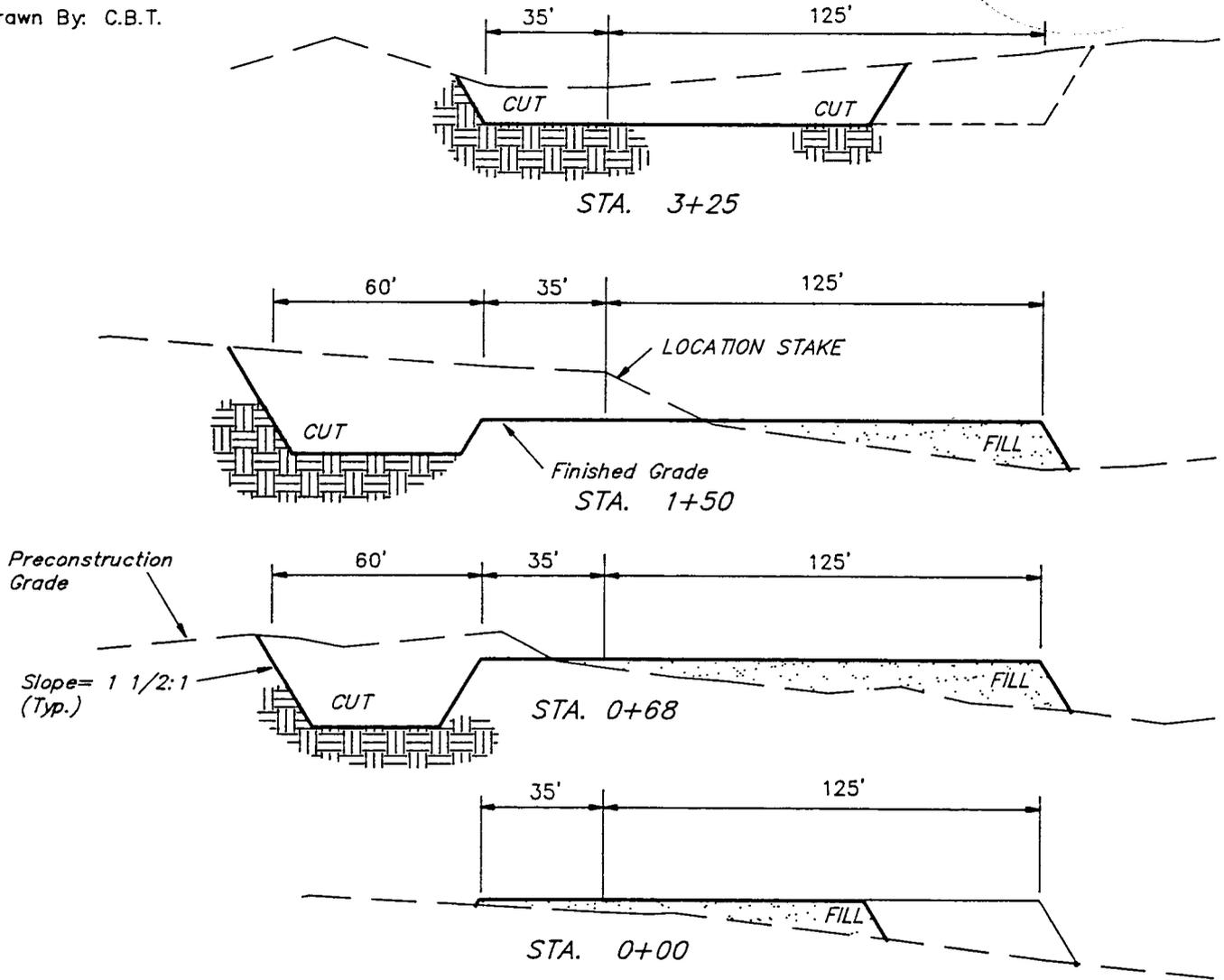
CHANDLER & ASSOCIATES, INC.

LOCATION LAYOUT FOR

GLEN BENCH STATE #12-16  
SECTION 16, T8S, R22E, S.L.B.&M.  
1432' FSL 637' FWL



DATE: 10-28-94  
Drawn By: C.B.T.



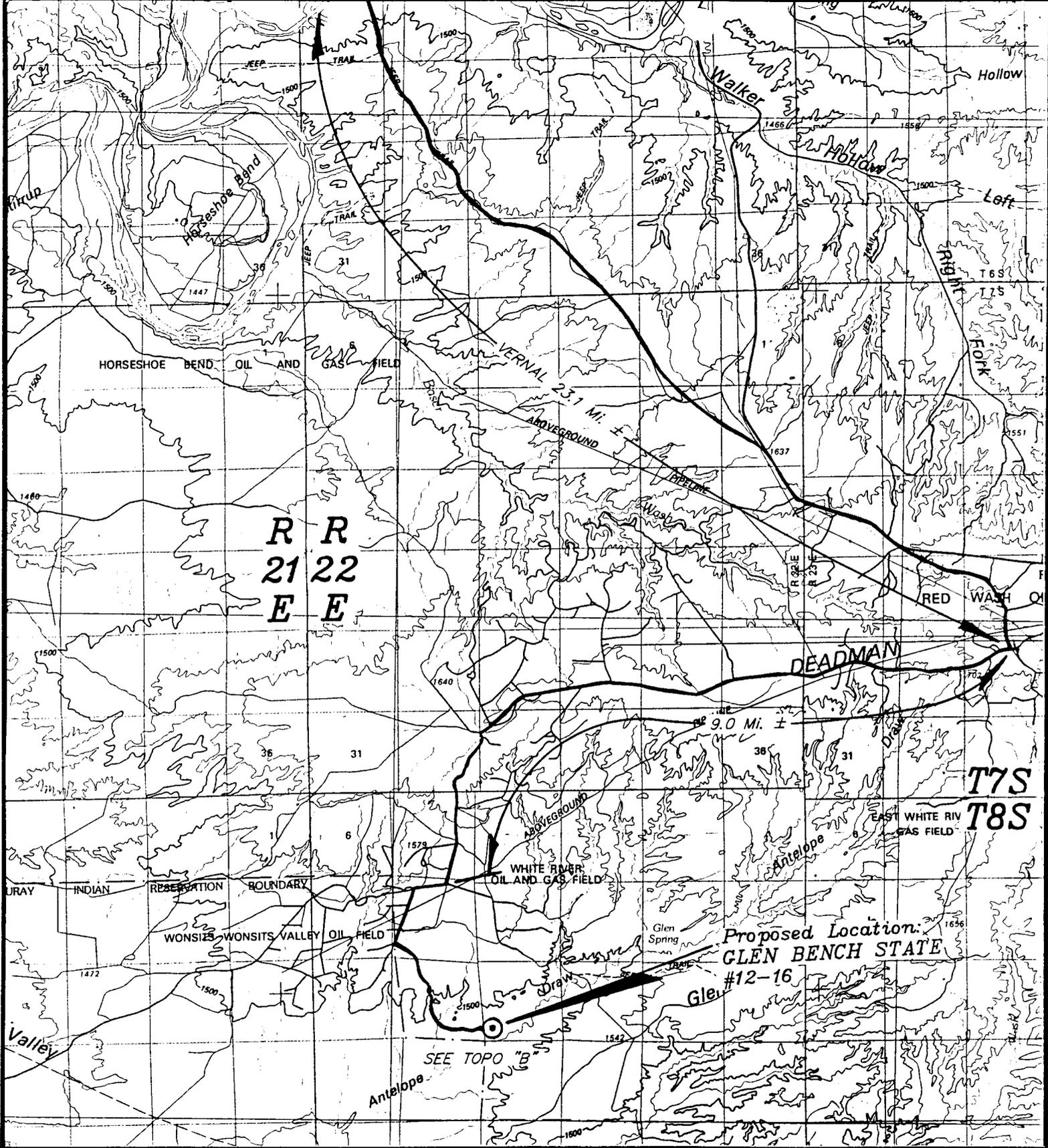
NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE YARDAGES

(6") Topsoil Stripping	=	1,070 Cu. Yds.
Remaining Location	=	4,640 Cu. Yds.
<b>TOTAL CUT</b>	=	<b>5,710 CU.YDS.</b>
<b>FILL</b>	=	<b>3,810 CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	=	1,700 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	1,700 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	=	0 Cu. Yds.



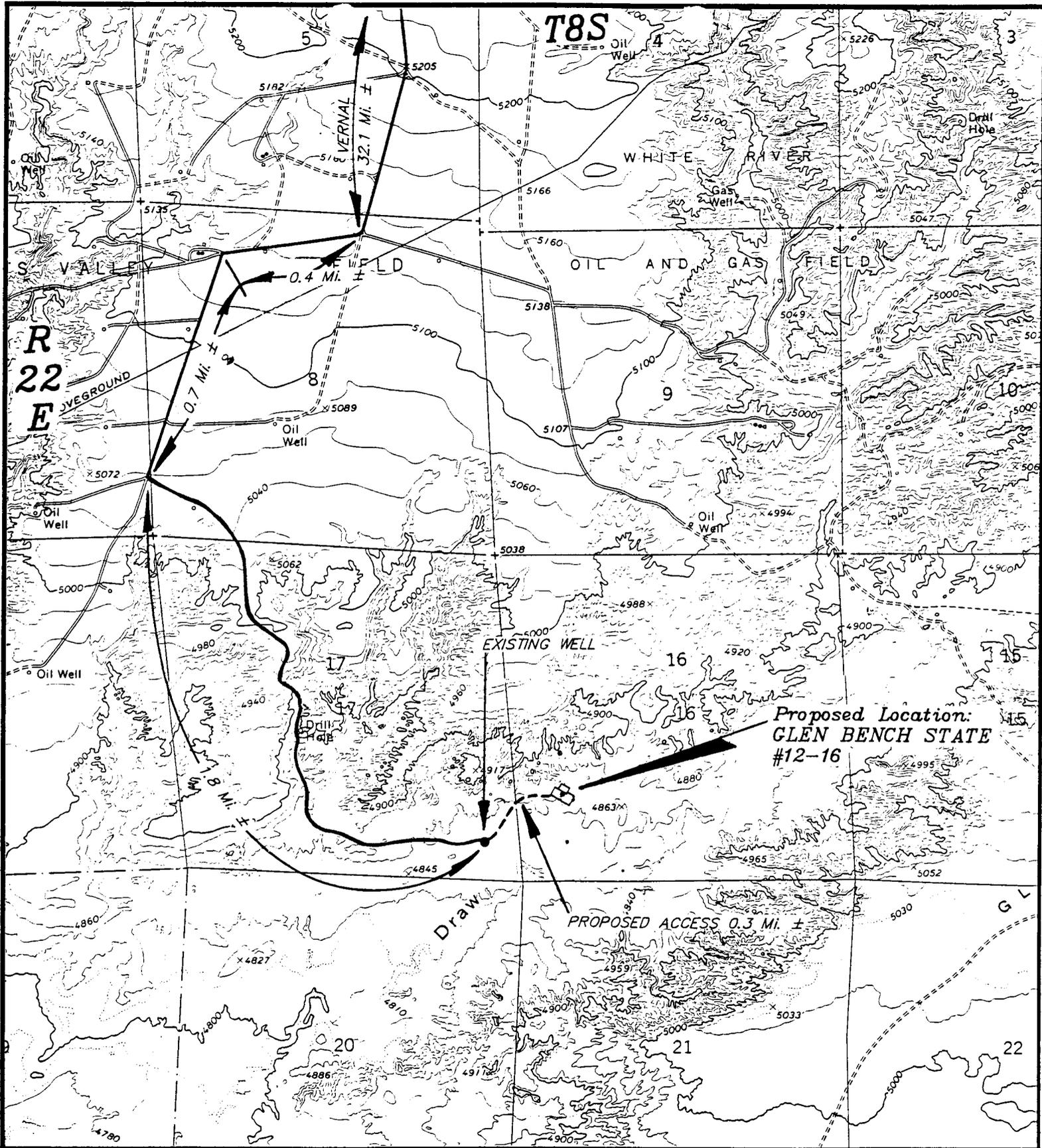
TOPOGRAPHIC  
MAP "A"

DATE: 10/27/94 D.COX



CHANDLER & ASSOCIATES, INC.

GLEN BENCH STATE #12-16  
SECTION 16, T8S, R22E, S.L.B.&M.  
1432' FSL 637' FWL



TOPOGRAPHIC  
MAP "B"

SCALE: 1"=2000'

DATE: 10/27/94 D.COX



CHANDLER & ASSOCIATES, INC.

GLEN BENCH STATE #12-16  
SECTION 16, T8S, R22E, S.L.B.&M.  
1432' FSL 637' FWL

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/17/94

API NO. ASSIGNED: 43-047-32583

WELL NAME: GLEN BENCH STATE 12-16  
OPERATOR: CHANDLER & ASSOCIATES INC (N3320)

PROPOSED LOCATION:  
NWSW 16 - T08S - R22E  
SURFACE: 1432-FSL-0637-FWL  
BOTTOM: 1432-FSL-0637-FWL  
UINTAH COUNTY  
UNDESIGNATED FIELD (002)

INSPECT LOCATION BY: 11/30/94		
TECH REVIEW	Initials	Date
Engineering	<i>JM</i>	11/23/94
Geology	<i>BA</i>	11/23/94
Surface	<i>David H.</i>	11/21/94

LEASE TYPE: STA  
LEASE NUMBER: ML-22049

PROPOSED PRODUCING FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

Plat  
 Bond: Federal[] State[] Fee[]  
 (Number 19519040790)  
 Potash (Y/N)  
 Oil shale (Y/N)  
 Water permit  
 (Number #53617-43-8496)  
 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: *The Reserve pit will be located on north side of location.*

CONFIDENTIAL  
PERIOD  
EXPIRES  
*2-26-90*

DRILLING LOCATION ASSESSMENT

State of Utah  
Division of Oil, Gas and Mining

OPERATOR: CHANDLER & ASSOC. INC. WELL NAME: GLEN BENCH STATE  
#12-16

SECTION: 16 TWP: 8S RNG: 22E LOC: 1432' FSL 637' FWL

QTR/QTR NW/SW COUNTY: UINTAH FIELD: WHITE RIVER

SURFACE OWNER: STATE OF UTAH

SURFACE AGREEMENT: AS PER STATE LANDS

SPACING: F SECTION LINE F QTR/QTR LINE F ANOTHER WELL

INSPECTOR: DAVID W. HACKFORD DATE AND TIME: 11/21/94 9:30 AM

PARTICIPANTS: DAVID HACKFORD (DOG M), JIM SIMINGTON (CHANDLER),  
DOYLE ALLRED (UINTAH ENGINEERING), BRENT STUBBS ( STUBBS  
CONSTRUCTION).

REGIONAL SETTING/TOPOGRAPHY: SITE IS ON THE SHOULDER OF A 60'  
HIGH RIDGE RUNNING NORTHEAST TO SOUTHWEST WITH A PLAIN STRETCHING  
1500' TO THE SOUTHEAST AND ANTELOPE DRAW.

LAND USE:

CURRENT SURFACE USE: LIVESTOCK GRAZING WITH SOME WILDLIFE USE.

PROPOSED SURFACE DISTURBANCE: LOCATION 325' X 220' WITH 0.3 MILE  
ACCESS ROAD.

AFFECTED FLOODPLAINS AND/OR WETLANDS: AREA IS NOT A FLOODPLAIN  
BUT COULD SEE RUNOFF DURING OR AFTER RAIN STORMS.

FLORA/FAUNA: SALTBRUSH, NATIVE GRASSES, GREASEWOOD; ANTELOPE,  
COYOTES, RABBITS, SMALL BIRDS, RAPTORS, REPTILES, DEER.

ENVIRONMENTAL PARAMETERS

SURFACE GEOLOGY

SOIL TYPE AND CHARACTERISTICS: LIGHT RED SANDY CLAY.

SURFACE FORMATION & CHARACTERISTICS:

EROSION/SEDIMENTATION/STABILITY: EROSION IS VERY EVIDENT ON  
HILLS TO THE NORTHWEST BUT SHOULD NOT BE A PROBLEM AT THIS SITE.  
SEDIMENTATION AND STABILITY SHOULD NOT BE A PROBLEM.

PALEONTOLOGICAL POTENTIAL: NONE

SUBSURFACE GEOLOGY

OBJECTIVES/DEPTHS: GREEN RIVER FORMATION AT 5450' TD

ABNORMAL PRESSURES-HIGH AND LOW: NONE EXPECTED.

CULTURAL RESOURCES/ARCHAEOLOGY: SITE HAS BEEN ARCED BY CARL CONNER WITH THE GRAND RIVER INSTITUTE. A REPORT SHOULD BE SENT TO DOGM.

CONSTRUCTION MATERIALS: CUT AND FILL AS NECESSARY.

SITE RECLAMATION: AS REQUIRED BY STATE LANDS.

RESERVE PIT

CHARACTERISTICS: 100' X 60' AND 8' DEEP. CAPACITY: 4110 BBLs. WITH 2' FREEBOARD.

LINING: A PLASTIC LINER WILL NOT BE NECESSARY.

MUD PROGRAM: GEL BASE WATER WITH AN EXPECTED MUD WEIGHT OF 8.8 PPG.

DRILLING WATER SUPPLY: VERNAL CITY WATER FROM A-1 TANK.  
PERMIT # 53617-43-8496.

OTHER OBSERVATIONS

STIPULATIONS FOR APD APPROVAL RESERVE PIT PLACED ON NORTH SIDE OF LOCATION.

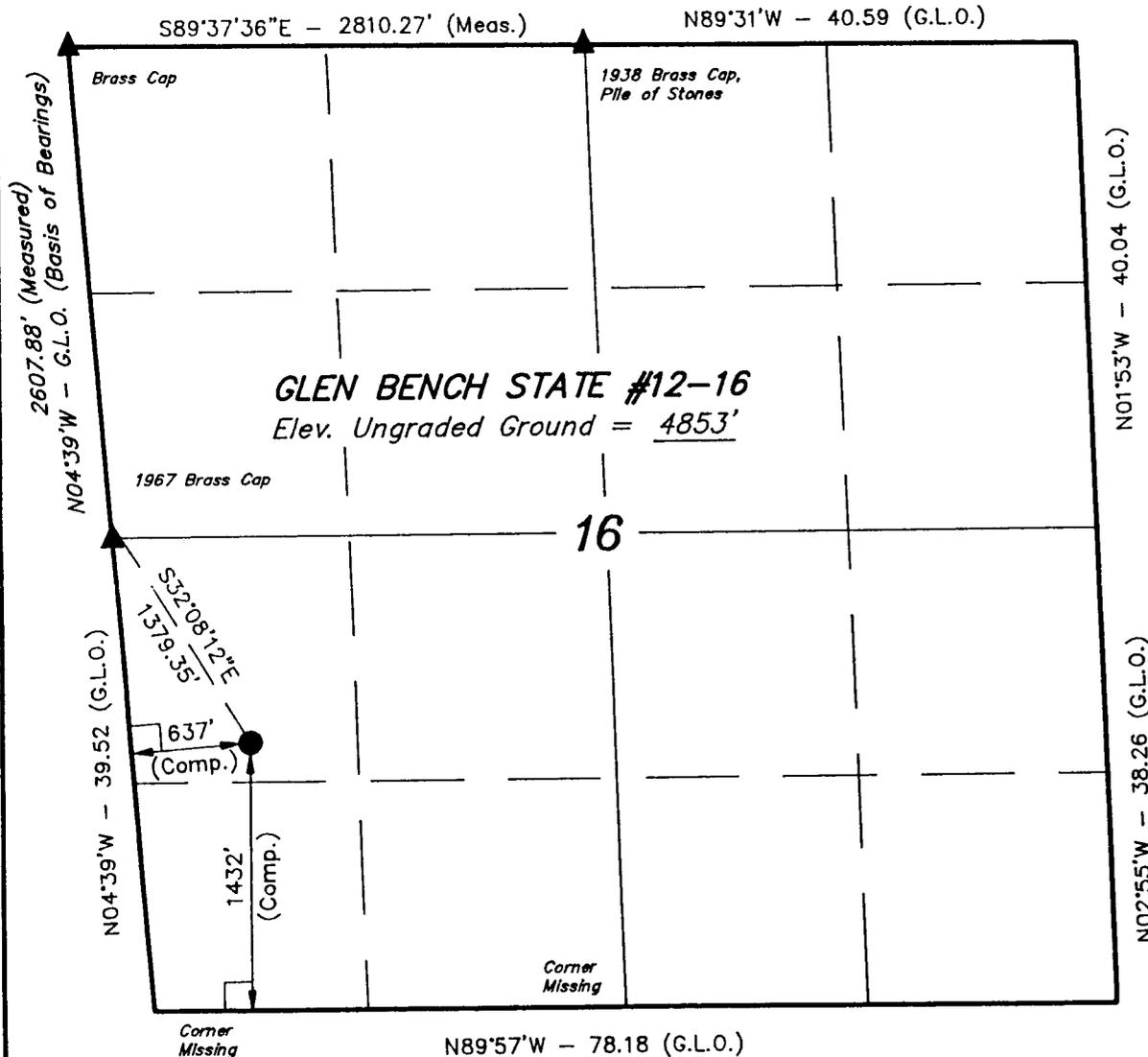
ATTACHMENTS

PHOTOGRAPHS WILL BE PLACED ON FILE.

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

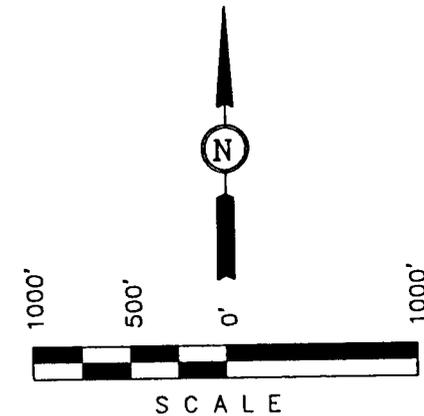
CHANDLER & ASSOCIATES, INC.

Well location, GLEN BENCH STATE #12-16, located as shown in the NW 1/4 SW 1/4 of Section 16, T8S, R22E, S.L.B.&M. Uintah County, Utah.



## BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 16, T8S, R22E, S.L.B.&M. TAKEN FROM THE RED WASH 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 5038 FEET.



## CERTIFICATE

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

*Robert L. Key*

REGISTERED LAND SURVEYOR  
REGISTRATION NO. 181319  
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.

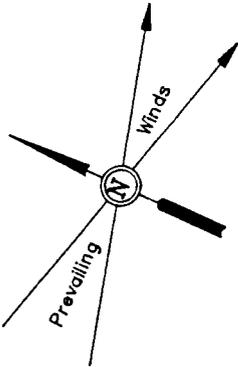
SCALE 1" = 1000'	DATE SURVEYED: 10-3-94	DATE DRAWN: 10-28-94
PARTY D.A. G.B. C.B.T.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE CHANDLER & ASSOCIATES, INC.	

CHANDLER & ASSOCIATES, INC.

LOCATION LAYOUT FOR

GLEN BENCH STATE #12-16  
SECTION 16, T8S, R22E, S.L.B.&M.  
1432' FSL 637' FWL

*Handwritten signature: R. Kay*



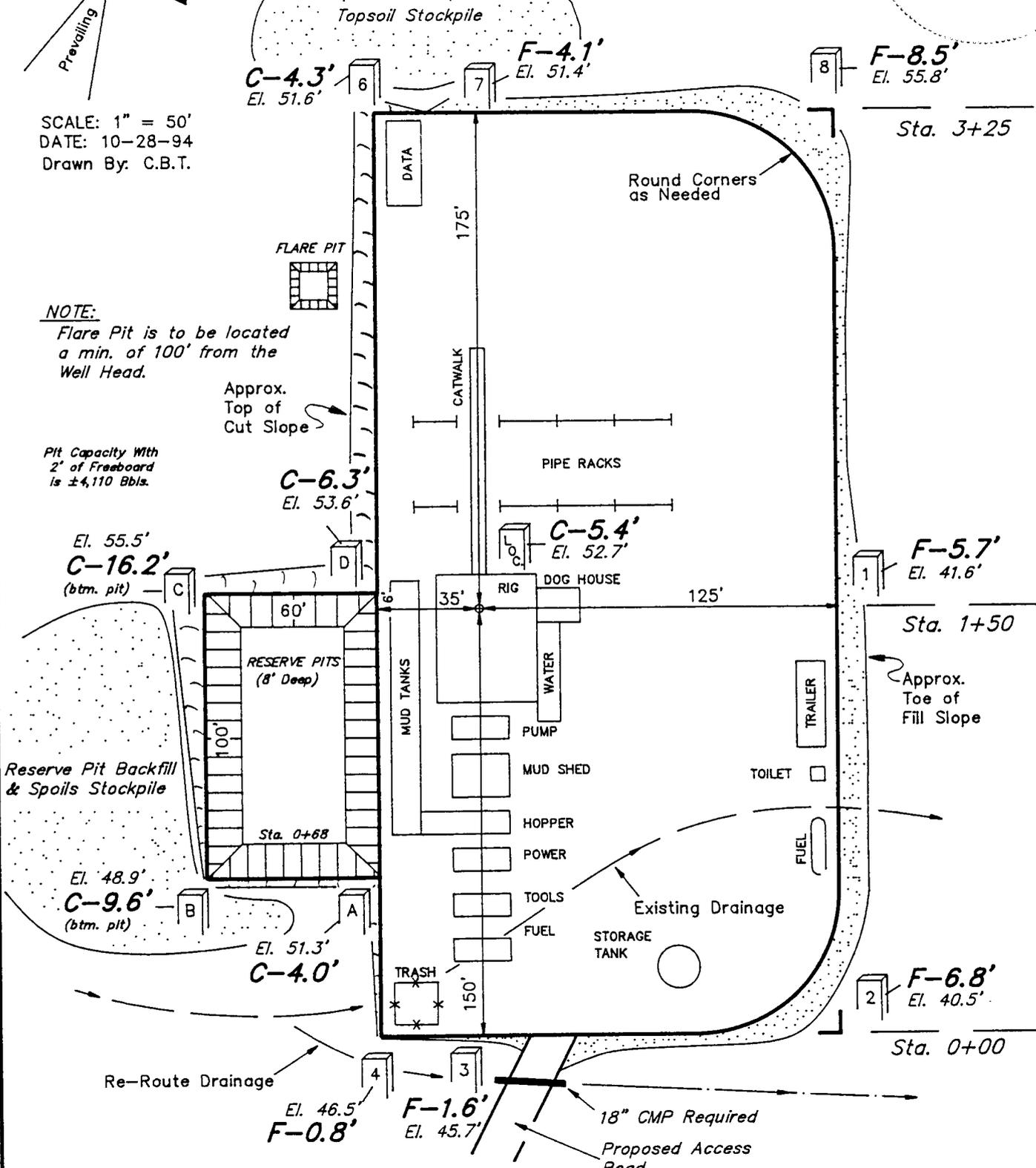
SCALE: 1" = 50'  
DATE: 10-28-94  
Drawn By: C.B.T.

**NOTE:**

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

Pit Capacity With 2' of Freeboard is ±4,110 Bbls.

Approx. Top of Cut Slope



Reserve Pit Backfill & Spoils Stockpile

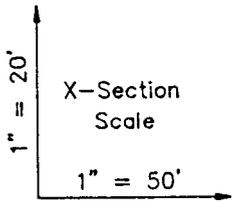
Elev. Ungraded Ground at Location Stake = 4852.7'  
Elev. Graded Ground at Location Stake = 4847.3'

CHANDLER & ASSOCIATES, INC.

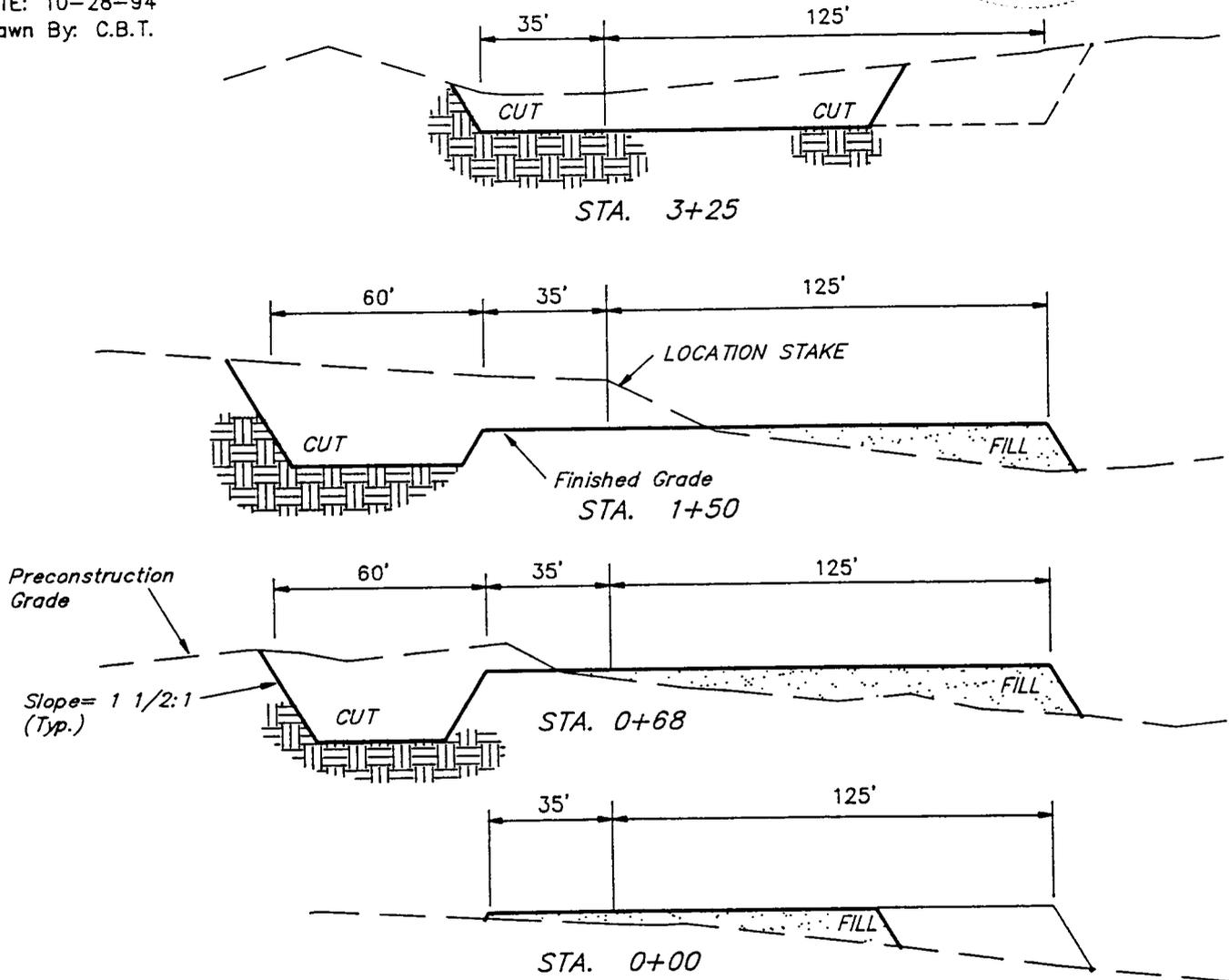
LOCATION LAYOUT FOR

GLEN BENCH STATE #12-16  
SECTION 16, T8S, R22E, S.L.B.&M.  
1432' FSL 637' FWL

*[Handwritten signature]*



DATE: 10-28-94  
Drawn By: C.B.T.



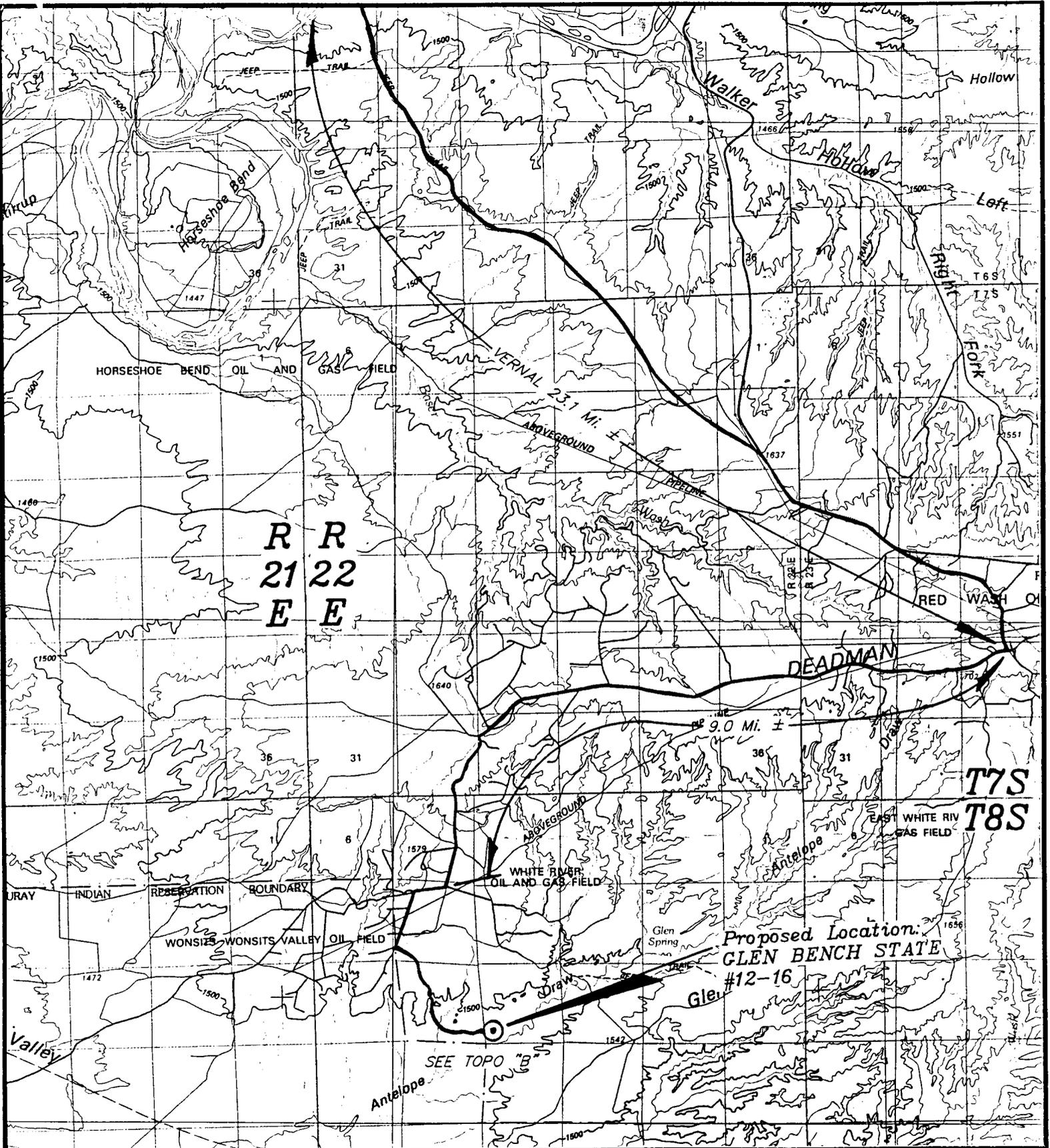
NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE YARDAGES

(6") Topsoil Stripping	=	1,070 Cu. Yds.
Remaining Location	=	4,640 Cu. Yds.
<b>TOTAL CUT</b>	<b>=</b>	<b>5,710 CU.YDS.</b>
<b>FILL</b>	<b>=</b>	<b>3,810 CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	=	1,700 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	1,700 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	=	0 Cu. Yds.



R R  
21 22  
E E

T7S  
T8S

Proposed Location:  
GLEN BENCH STATE  
#12-16

SEE TOPO "B"

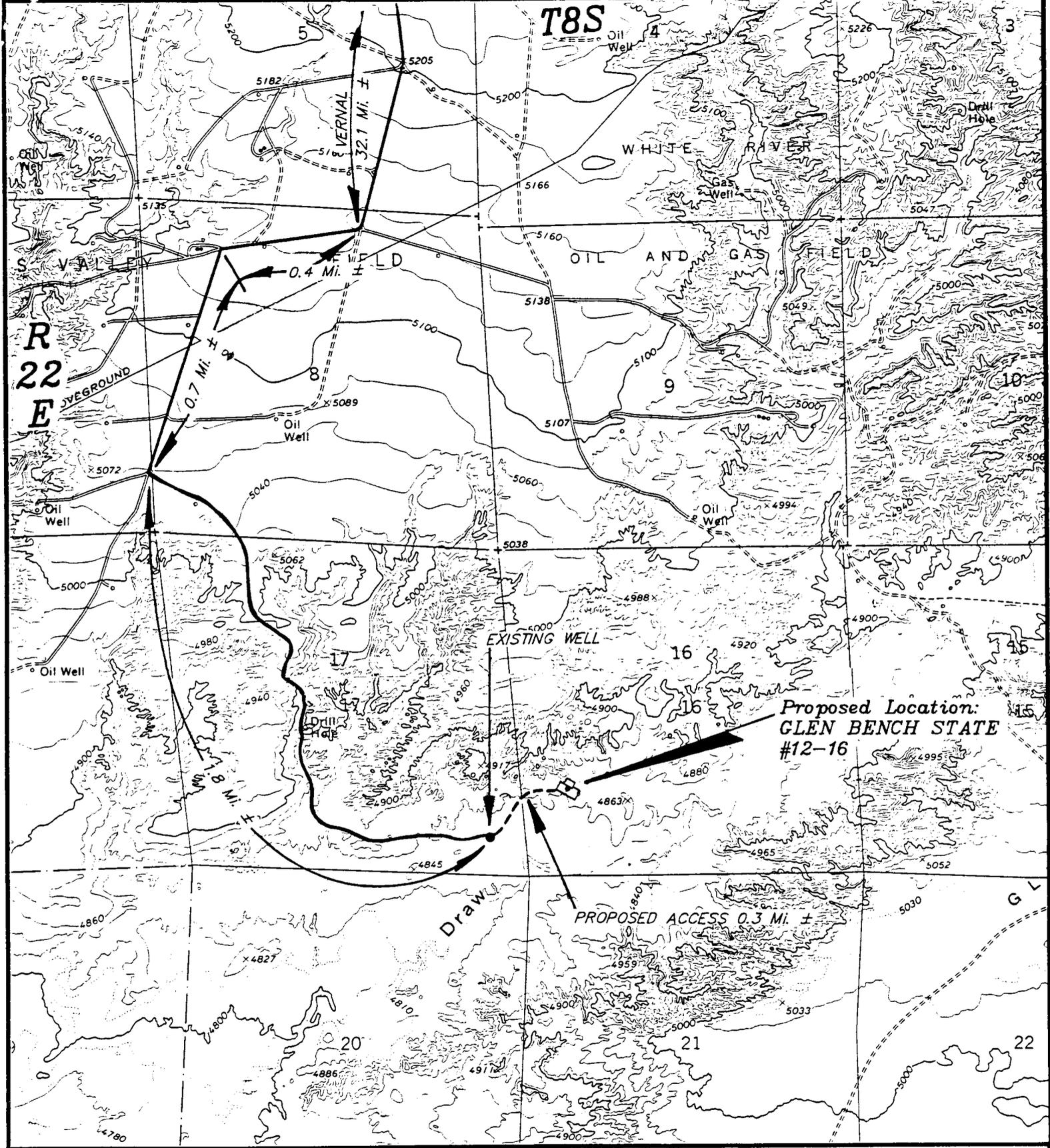
TOPOGRAPHIC  
MAP "A"



CHANDLER & ASSOCIATES, INC.

GLEN BENCH STATE #12-16  
SECTION 16, T8S, R22E, S.L.B.&M.  
1432' FSL 637' FWL

DATE: 10/27/94 D.COX



**Proposed Location:  
GLEN BENCH STATE  
#12-16**

TOPOGRAPHIC  
MAP "B"

SCALE: 1"=2000'

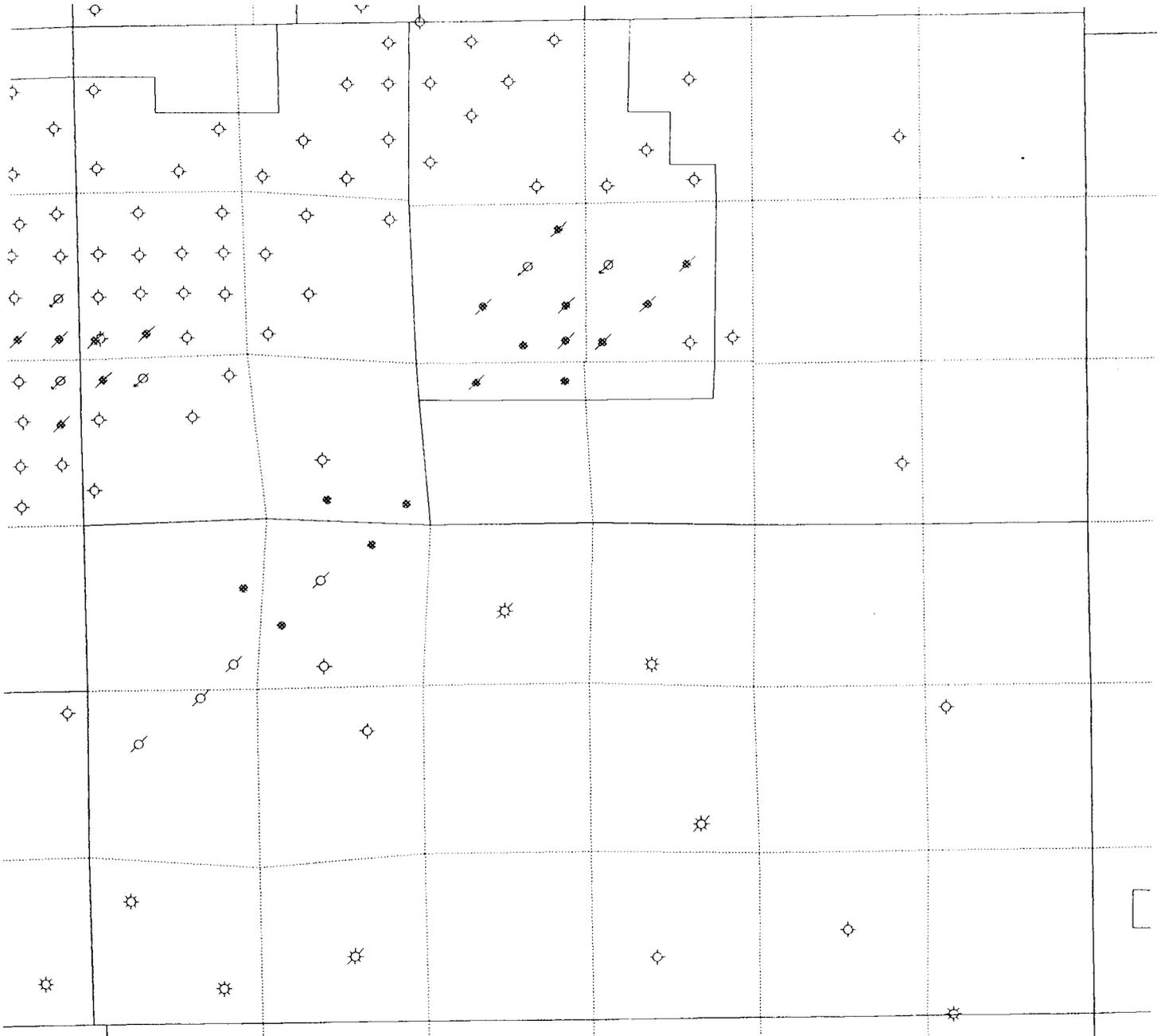
DATE: 10/27/94 D.COX



**CHANDLER & ASSOCIATES, INC.**

GLEN BENCH STATE #12-16  
SECTION 16, T8S, R22E, S.L.B.&M.  
1432' FSL 637' FWL

CHANDLER AND ASSOCIATES INC.  
GLEN BENCH STATE WELLS 7-16, & 12-16  
SEC. 16, T8S, R22E UINTAH COUNTY



**STATE OF UTAH**

<b>Operator: CHANDLER &amp; ASSOCIATES</b>	<b>Well Name: GLEN BENCH STATE 12-</b>
<b>Project ID: 43-047-32583</b>	<b>Location: SEC. 16 - T08S - R22E</b>

Design Parameters:

Mud weight ( 8.80 ppg) : 0.457 psi/ft  
 Shut in surface pressure : 2197 psi  
 Internal gradient (burst) : 0.054 psi/ft  
 Annular gradient (burst) : 0.000 psi/ft  
 Tensile load is determined using buoyed weight  
 Service rating is "Sweet"

Design Factors:

Collapse : 1.125  
 Burst : 1.00  
 8 Round : 1.80 (J)  
 Buttress : 1.60 (J)  
 Other : 1.50 (J)  
 Body Yield : 1.50 (B)

Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost		
1	5,450	5.500	15.50	K-55	LT&C	5,450	4.825		
	<b>Load (psi)</b>	<b>Collapse Strgth (psi)</b>	<b>S.F.</b>	<b>Burst Load (psi)</b>	<b>Min Int Strgth (psi)</b>	<b>Yield S.F.</b>	<b>Tension Load (kips)</b>	<b>Strgth (kips)</b>	<b>S.F.</b>
1	2491	4040	1.622	2491	4810	1.93	73.11	239	3.27 J

Prepared by : FRM, Salt Lake City, UT  
 Date : 11-23-1994  
 Remarks :

Minimum segment length for the 5,450 foot well is 1,000 feet.  
 SICP is based on the ideal gas law, a gas gravity of 0.69, and a mean gas temperature of 101°F (Surface 74°F , BHT 128°F & temp. gradient 1.000°/100 ft.)  
 The mud gradient and bottom hole pressures (for burst) are 0.457 psi/ft and 2,491 psi, respectively.

**NOTE:** The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with evacuated casing), 1.0 - Burst, 1.8 - 8 Round Tension, 1.6 - Buttress Tension, and 1.5 - Body Yield. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser. Costs for this design are based on a 1987 pricing model. (Version 1.06)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1A. TYPE OF WORK  
 DRILL       DEEPEN       PLUG BACK

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

2. NAME OF OPERATOR  
 Chandler & Associates, Inc.

3. ADDRESS OF OPERATOR  
 475 Seventeenth Street, Suite 1000 Denver, Colorado 80202  
 Phone #(303)295-0400

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface  
 1432' FSL 637' FWL (NW1/4 SW1/4)  
 At proposed prod. zone

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

10. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)      637'

16. NO. OF ACRES IN LEASE      640

17. NO. OF ACRES ASSIGNED TO THIS WELL      40

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.      1500'

19. PROPOSED DEPTH      5450'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 4853 GR.

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

5. LEASE DESIGNATION AND SERIAL NO.  
 ML - 22049

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 N/A

7. UNIT AGREEMENT NAME  
 N/A

8. FARM OR LEASE NAME  
 Glen Bench State

9. WELL NO.  
 #12-16

10. FIELD AND POOL, OR WILDCAT  
 Glen Bench

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 Sec. 16, T8S, R22E,  
 S.L.B. & M.

12. COUNTY OR PARISH      13. STATE  
 Uintah      Utah

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/2"	8 5/8"	24#	350'	(See attached Drilling Plan)
7 7/8"	5 1/2"	15.5#	5450'	(See attached Drilling Plan)

- M.I.R.U.
- Drill to T.D. 5450'
- Run 5 1/2" casing if commercial production is indicated.
- If dry hole, well will be plugged and abandoned as instructed by the BLM.
- Well will be drilled with fresh water to 5000' 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., B.L.M. Bond #2396118, with Reichart Silversmith.

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

24. SIGNED Robert L. Kay, R.I.S. TITLE Agent for Chandler & Assoc DATE November 16, 1994

(This space for Federal or State office use)

PERMIT NO. 43-049-32583 APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE 11/18/94  
 CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_

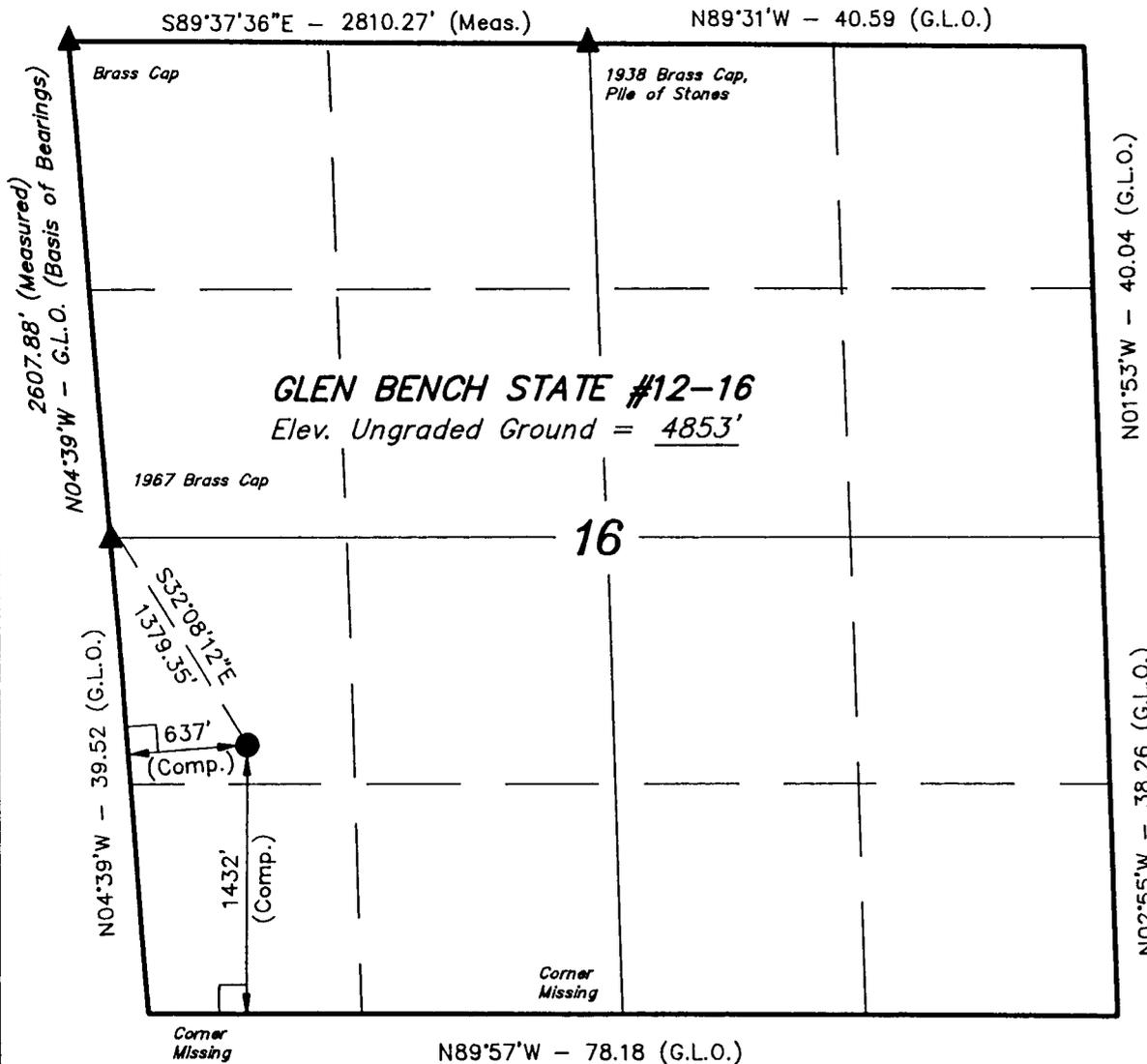
*JAN Matthews*  
 R 649-3-3

\*See Instructions On Reverse Side

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

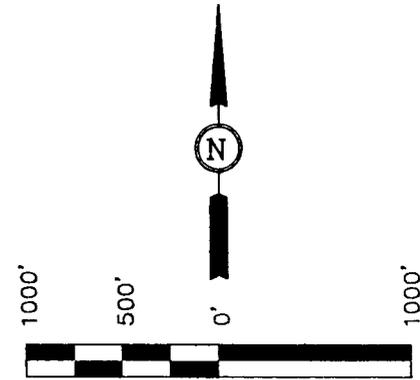
CHANDLER & ASSOCIATES, INC.

Well location, GLEN BENCH STATE #12-16, located as shown in the NW 1/4 SW 1/4 of Section 16, T8S, R22E, S.L.B.&M. Uintah County, Utah.



### BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 16, T8S, R22E, S.L.B.&M. TAKEN FROM THE RED WASH 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 5038 FEET.



### CERTIFICATE

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

*Robert L. Key*

REGISTERED LAND SURVEYOR  
REGISTRATION NO. 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: 10-3-94	DATE DRAWN: 10-28-94
PARTY D.A. G.B. C.B.T.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE CHANDLER & ASSOCIATES, INC.	

NOVEMBER 21, 1994

STATE OF UTAH  
DIVISION OF OIL GAS & MINING

RE: Letter of Exception Locations

Attn: Mike Hebertson



Chandler & Associates, Inc. respectfully submits the following information for an Exception Location on the below mentioned well pads.

The Glen Bench State #12-16, located 1432' FSL & 637' FWL in Section 16, T8S, R22E, S.L.B.&M. and the Glen Bench State #7-16, located 1736' FNL & 1464' FEL in Section 16, T8S, R22E, S.L.B.&M. were both moved from the standard 40 acre location due to the topographical relief in the area, (which is not well represented on the 7.5 min. quad.) We have kept the move of these locations at a minimum and both are at the first available area outside of the window which is suitable to build a location. If you have any questions concerning this matter please feel free to call me at (801) 789-1017.

Thank You for your attention to this matter,

A handwritten signature in cursive script, appearing to read "Tracy D. Henline".

Tracy D. Henline, U.E.L.S./Agent for  
CHANDLER & ASSOCIATES, INC.

**CHANDLER & ASSOCIATES, INC.  
DRILLING PLAN FOR THE  
GLEN BENCH STATE #12-16**

**I. DRILLING PLAN:**

1. Geological Surface Formation: Uintah

2. Estimated Tops:

<u>Name</u>	<u>Top</u>	<u>Prod. Phase Anticipated</u>
Green River	2789'	
X Marker	4892'	
Glen Bench Sand	5030'	
White River Sand	5287'	Oil
Wasatch	5377'	
TD	5450'	

3. CASING PROGRAM:

	<u>Depth</u>	<u>Hole Size</u>	<u>Csq. Size</u>	<u>Type</u>	<u>Weight</u>
Surface	350'	12-1/4"	8-5/8"	K-55	24#/ft
Prod.	5450	7-7/8"	5-1/2"	K-55	15.5#/ft

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 State #12-16**

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.

6. Proposed Circulating Medium:

<u>Depth</u>	<u>Mud Type</u>	<u>Density (lb./gal)</u>	<u>Viscosity</u>	<u>Water Loss</u>
0'-350'	Fresh Water with LCM	8.4	30	No control
350'-5000'	Fresh Water with LCM	8.4 - 8.6	30-35	No control
5000'-TD	Chem Gel Mud	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 surface).  
 CNL/Litho Density (base of surface to TD)  
 Mud Logger (base of surface to TD)
- 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.

**Chandler & Associates, Inc.**  
**Glen Bench State #12-16**

8. Cementing Program:

<u>Casing</u>	<u>Volume</u>	<u>Type &amp; Additives</u>
Surface	265 sx	Class "G" w/2% CaCl <sub>2</sub> 1/4#/sk cello seal (based on 100% access)
Production	760 sx *	460 sx Super "G" containing 47#/sk Class "G" plus 20#/sk Poz"A" plus 17#/sk CSE plus 3% salt plus 2% Gel followed by 300 sx Class "G" containing 0.15% WR-15 (Retarder)

Cement Characteristics:

Class "G" - yeild = 1.18 cu.ft. per. sack  
weight = 15.8 lb./gal  
strength = 3200 psi in 72 hrs @ 135 degrees  
Super "G" - yeild = 2.76 cu.ft. per. sack  
weight = 11.08 lb./gal  
strength = 630 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 surface.

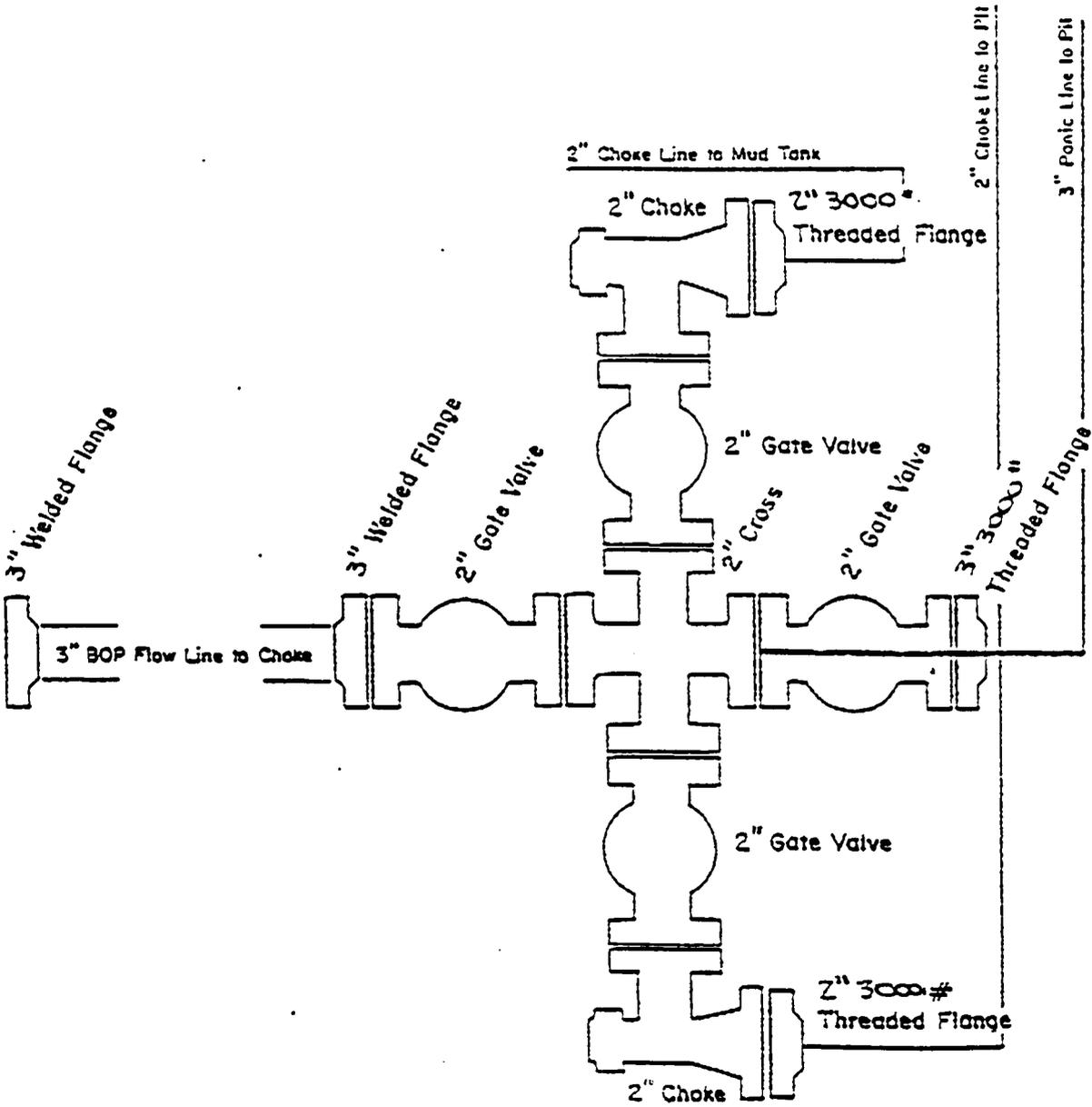
A bond log will be run across the zone of interest and across zones as required by the authorized officer to insure protection of natural resources.

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

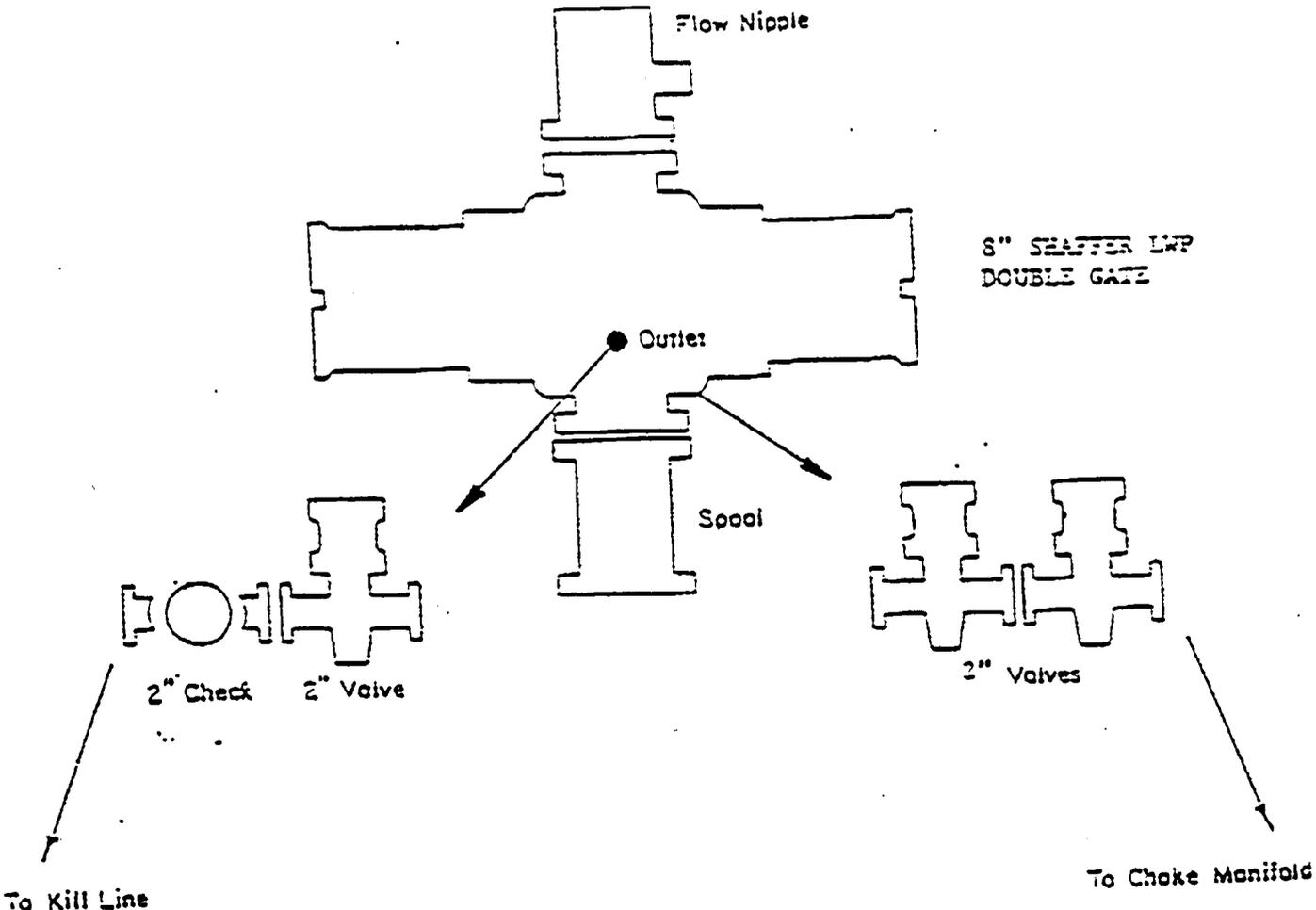
No abnormal temperatures or pressures are anticipated. No H<sub>2</sub>S has been encountered in or known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom hole pressure equals approximately 1,600 psi (calculated at 0.303 psi/ft) and maximum anticipated surface pressure equals approximately 437 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

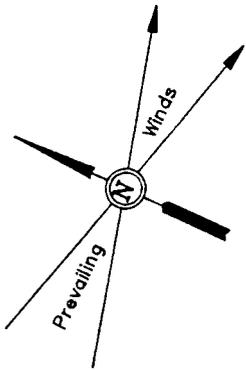


# CHANDLER & ASSOCIATES, INC.

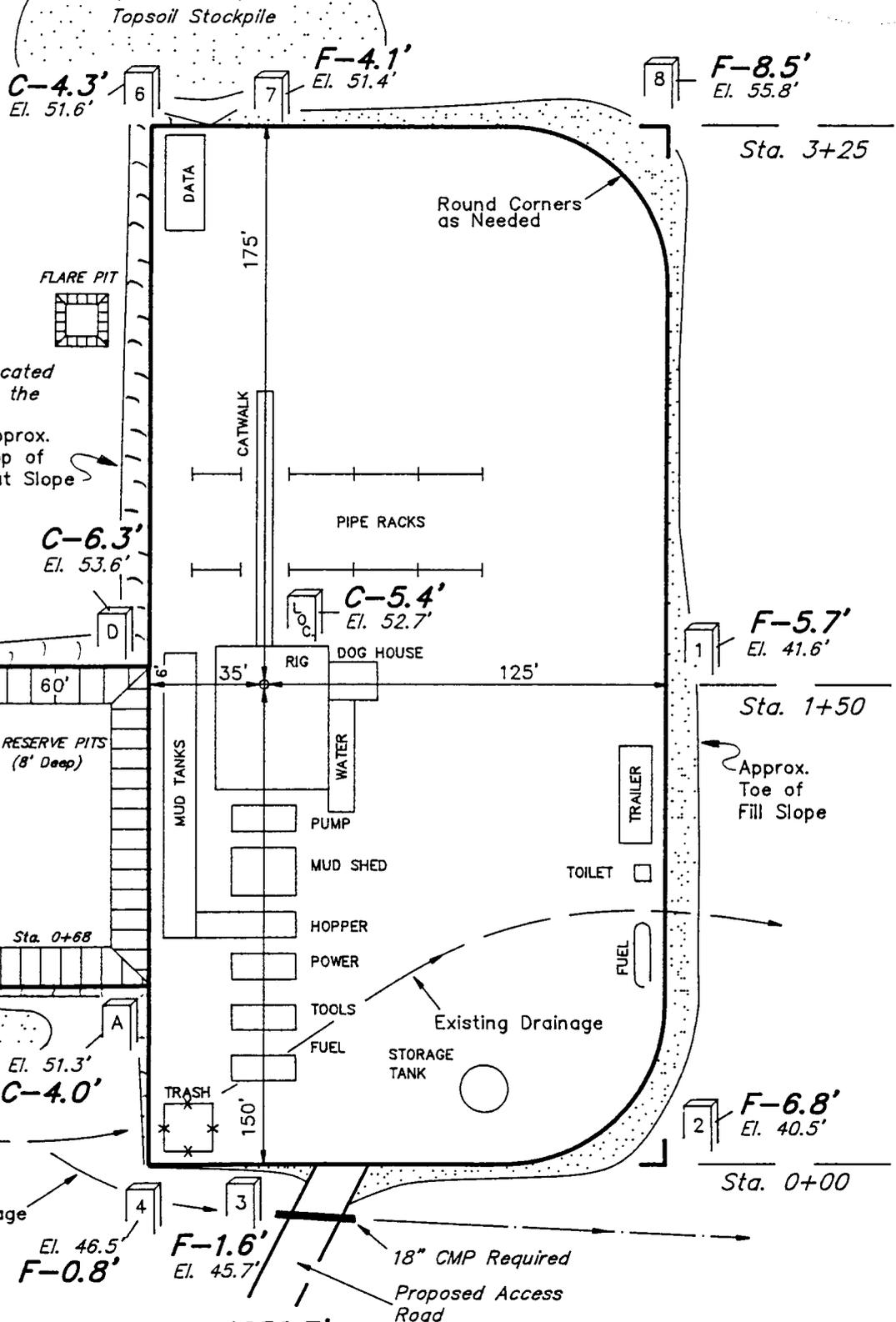
## LOCATION LAYOUT FOR

GLEN BENCH STATE #12-16  
SECTION 16, T8S, R22E, S.L.B.&M.  
1432' FSL 637' FWL

*Ref Hay*



SCALE: 1" = 50'  
DATE: 10-28-94  
Drawn By: C.B.T.



**NOTE:**

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

Pit Capacity With 2' of Freeboard is ±4,110 Bbls.

Approx. Top of Cut Slope

Reserve Pit Backfill & Spoils Stockpile

El. 48.9'  
C-9.6' (btm. pit)

Elev. Ungraded Ground at Location Stake = 4852.7'

Elev. Graded Ground at Location Stake = 4847.3'

CHANDLER & ASSOCIATES, INC.

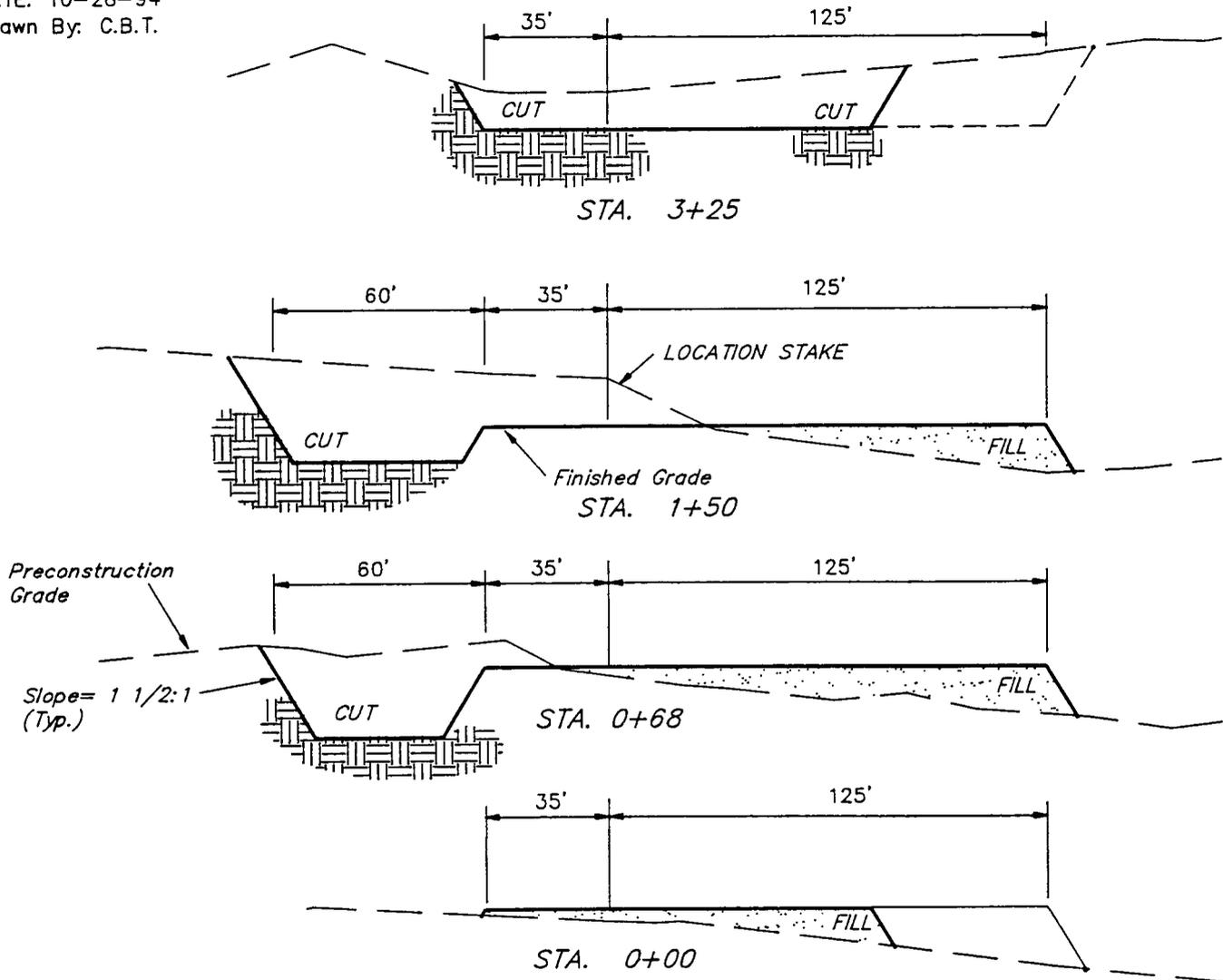
LOCATION LAYOUT FOR

GLEN BENCH STATE #12-16  
SECTION 16, T8S, R22E, S.L.B.&M.  
1432' FSL 637' FWL

*Handwritten signature*

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

DATE: 10-28-94  
Drawn By: C.B.T.



NOTE:

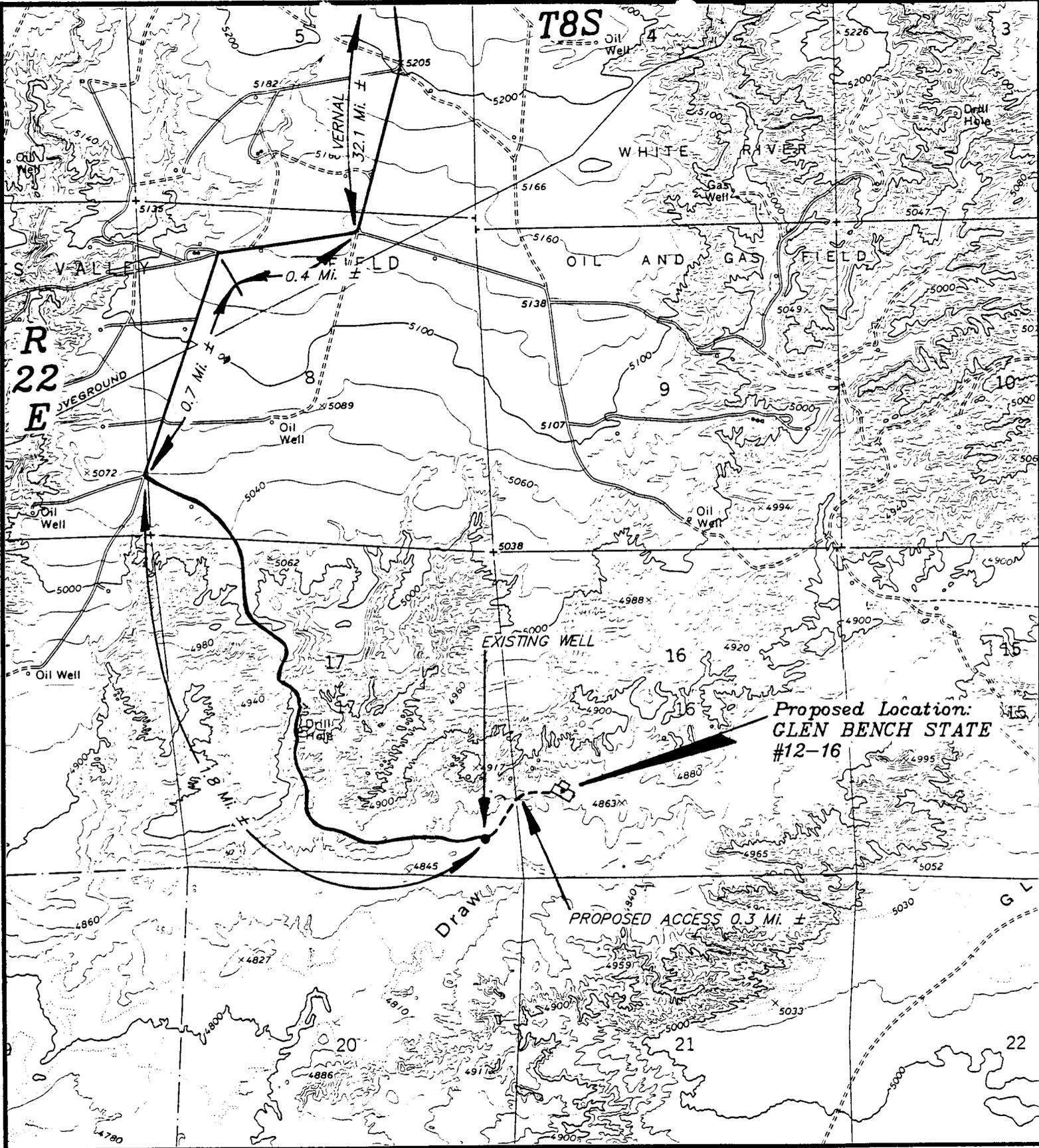
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE YARDAGES

(6") Topsoil Stripping	=	1,070 Cu. Yds.
Remaining Location	=	4,640 Cu. Yds.
<b>TOTAL CUT</b>	=	<b>5,710 CU.YDS.</b>
<b>FILL</b>	=	<b>3,810 CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	=	1,700 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	1,700 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	=	0 Cu. Yds.





TOPOGRAPHIC  
MAP "B"

SCALE: 1" = 2000'

DATE: 10/27/94 D.COX



CHANDLER & ASSOCIATES, INC.

GLEN BENCH STATE #12-16  
SECTION 16, T8S, R22E, S.L.B.&M.  
1432' FSL 637' FWL



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)

November 23, 1994

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

Re: Glen Bench State #12-16 Well, 1432' FSL, 637' FWL, NW SW, Sec. 16, T. 8 S., R. 22 E., Uintah County, Utah

Gentlemen:

Pursuant to Utah Admin. R. 649-3-3, Location and Siting of Wells and Utah Admin. R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to drill the referenced well is hereby granted.

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

1. The reserve pit will be located on north side of location.
2. Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules.
3. Notification to the Division within 24 hours after drilling operations commence.
4. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
5. Submittal of the Report of Water Encountered During Drilling, Form 7.
6. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or K. Michael Hebertson, Reclamation Specialist, (Home) (801)269-9212.

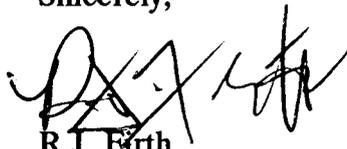


Page 2  
Chandler & Associates, Inc.  
Glen Bench State #12-16 Well  
November 23, 1994

7. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-047-32583.

Sincerely,

A handwritten signature in black ink, appearing to read 'R.J. Firth', written over a printed name.

R.J. Firth  
Associate Director

ldc  
Enclosures  
cc: Uintah County Assessor  
Bureau of Land Management, Vernal District Office  
WO11



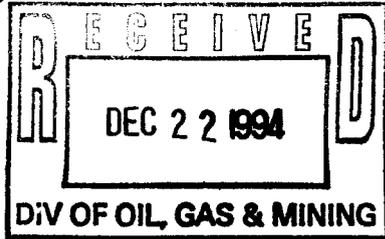
# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Vernal District Office  
170 South 500 East  
Vernal, Utah 84078-2799

IN REPLY REFER TO:

2800  
UTU-71286  
(U-082)



Tammy Searing  
Division of Oil, Gas and Mining  
355 West North Temple  
Three Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

DEC 21 1994

Dear Ms. Searing:

This is in reference to State mineral lease 22049, located in Section 16, of T.8 S., R. 22 E., SLM, Utah. **Chandler and Associates, Inc.**, has secured a Federal right-of-way from our office for access to well #~~12-16~~. We have enclosed a copy of the right-of-way document for your information and files.

We request that you notify our office of any future changes in the status of this well so that our records can be updated and the right-of-way terminated if necessary. Please reference our right-of-way serial number UTU-71286 in any future correspondence concerning this well.

Should you have any questions concerning this matter, please contact Cindy McKee of our office at (801) 781-4434. We thank you for your cooperation.

Sincerely,

Paul M. Andrews  
Area Manager  
Book Cliffs Resource Area

Enclosure:  
As stated

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
RIGHT-OF-WAY GRANT

SERIAL NUMBER UTU-71286

- 
1. A right-of-way is hereby granted pursuant to Title V of the Federal Land Policy and Management Act of 1976 (90 Stat. 2776; 43 U.S.C. 1761).
  2. Nature of Interest:
    - a. By this instrument, the holder:

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

receives a right to construct, operate, maintain, and terminate an access road to State Well #12-16, Oil & Gas Lease ML-22049, on public lands described as follows:

T. 8 S., R. 22 E., SLM, Utah  
Sec. 7, SE $\frac{1}{4}$ SE $\frac{1}{4}$ ;  
Sec. 8, W $\frac{1}{2}$ W $\frac{1}{2}$ , SE $\frac{1}{4}$ SW $\frac{1}{4}$ ;  
Sec. 17, NW $\frac{1}{4}$ , E $\frac{1}{2}$ SW $\frac{1}{4}$ , S $\frac{1}{2}$ SE $\frac{1}{4}$ .
    - b. The right-of-way area granted herein is 50 feet wide, 13,900 feet long and contains 15.96 acres, more or less.
    - c. This instrument shall terminate December 31, 2025, unless, prior thereto, it is relinquished, abandoned, terminated, or modified pursuant to the terms and conditions of this instrument or of any applicable Federal law or regulation.
    - d. This instrument may be renewed. If renewed, the right-of-way shall be subject to the regulations existing at the time of renewal and any other terms and conditions that the authorized officer deems necessary to protect the public interest.
    - e. Notwithstanding the expiration of this instrument or any renewal thereof, early relinquishment, abandonment, or termination, the provisions of this instrument, to the extent applicable, shall continue in effect and shall be binding on the holder, its successors, or assigns, until they have fully satisfied the obligations and/or liabilities accruing herein before or on account of the expiration, or prior termination, of the grant.

3. Rental:

For and in consideration of the rights granted, the holder agrees to pay the Bureau of Land Management fair market value rental as determined by the authorized officer unless specifically exempted from such payment by regulation. Provided, however, that the rental may be adjusted by the authorized officer, whenever necessary, to reflect changes in the fair market rental value as determined by the application of sound business management principles, and so far as practicable and feasible, in accordance with comparable commercial practices. Rental payments, if applicable, should be mailed to the following address:

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

4. Terms and Conditions:

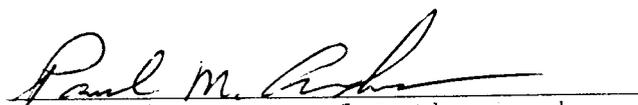
- a. This grant is issued subject to the holder's compliance with all applicable regulations contained in Title 43 Code of Federal Regulations part 2800.
- b. Upon grant termination by the authorized officer, all improvements shall be removed from the Federal lands within 90 days, or otherwise disposed of as provided in paragraph (4)(c) or as directed by the authorized officer.
- c. The stipulations, plans, maps, or designs set forth in Exhibit "A", dated December 19, 1994, attached hereto, are incorporated into and made a part of this grant instrument as fully and effectively as if they were set forth herein in their entirety.
- d. Failure of the holder to comply with applicable law or any provision of this right-of-way grant shall constitute grounds for suspension or termination thereof.
- e. The holder shall perform all operations in a good and workmanlike manner so as to ensure protection of the environment and the health and safety of the public.
- f. The holder shall construct, operate, and maintain the facilities, improvements, and structures within this right-of-way in strict conformity with the plan of development which was submitted with the application on November 16, 1994, as supplemented December 5, 1994. Any relocation, additional construction, or use that is not in accord with the approved plan of development shall not be initiated without the prior written approval of the authorized officer. Noncompliance with the above will be grounds for an immediate temporary suspension of activities if it constitutes a threat to public health and safety or the environment.

IN WITNESS WHEREOF, The undersigned agrees to the terms and conditions of this right-of-way grant.

  
\_\_\_\_\_  
(Signature of Holder)

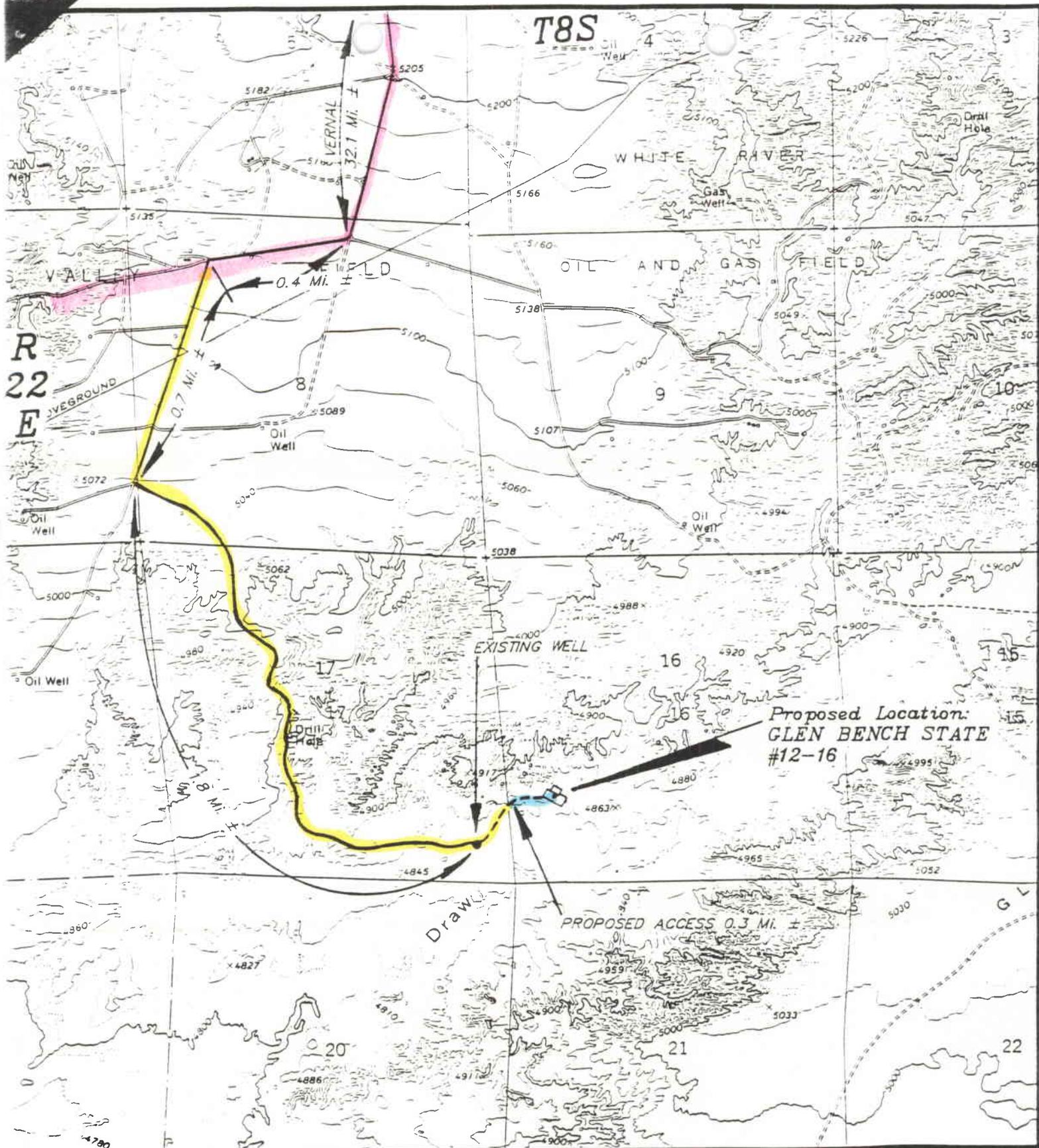
*Agent for Chandler*  
\_\_\_\_\_  
(Title)

*12-18-94*  
\_\_\_\_\_  
(Date)

  
\_\_\_\_\_  
(Signature of Authorized Officer)

Manager,  
Book Cliffs Resource Area  
\_\_\_\_\_  
(Title)

**DEC 19 1994**  
\_\_\_\_\_  
(Effective Date of Grant)



TOPOGRAPHIC  
MAP "B"

SCALE: 1"=2000'

DATE: 10/27/94 D.COX

Exhibit 'A', December 21, 1994

- ROW UTU-71286
- BLM Maintained Road
- Road on State Lands

T. 8 S., R. 22 E., SLM, Utah

**CONFIDENTIAL**

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: CHANDLER DRILLING

Well Name: GLEN BENCH 12-16

Api No. 43-047-32583

Section 16 Township 8S Range 22E County UINTAH

Drilling Contractor \_\_\_\_\_

Rig # \_\_\_\_\_

SPUDDED: Date 1/4/95

Time \_\_\_\_\_

How DRY HOLE

Drilling will commence \_\_\_\_\_

Reported by LEON SCHULTZ

Telephone # \_\_\_\_\_

Date: 1/4/95 Signed: FRM

OPERATOR Chandler & Associates, Inc.

OPERATOR ACCT. NO. 113320

ADDRESS 475 17th St, Ste 1000  
Denver, Co 80202

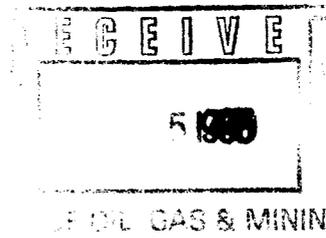
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11732	43=047-32583	Glen Bench State 12-16	NWSW	16	8S	22E	Uintah	1-4-95	1-4-95
WELL 1 COMMENTS:											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
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.

(3/89)



*[Signature]*  
Signature \_\_\_\_\_ 1/19/95  
Mgr, Operations/Prod  
Title \_\_\_\_\_ Date \_\_\_\_\_  
Phone No. (303) 295-0400

27 1995

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

LEASE DESIGNATION AND SERIAL NO.

OIL GAS & MINING 2049

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

2. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RECVR.  Other \_\_\_\_\_

2. NAME OF OPERATOR  
Chandler & Associates, Inc.

3. ADDRESS OF OPERATOR (303) 295-0400  
475 17th St, Ste 1000 Denver, Co 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)  
At surface NW SW (1432' FSL & 637' FWL)  
At top prod. interval reported below Same  
At total depth Same

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
NA

7. UNIT AGREEMENT NAME  
NA

8. FARM OR LEASE NAME  
Glen Bench State

9. WELL NO.  
12-16

10. FIELD AND POOL OR WILDCAT  
Glen Bench

11. SEC. T. R. M. OR BLOCK AND SURVEY OR AREA  
Sec 16-T8S-R22E  
S.L.B. & M.

14. API NO. 43-047-32583 DATE ISSUED 11/23/95

12. COUNTY Uintah 13. STATE Utah

15. DATE SPUNDED 1/4/95 16. DATE T.D. REACHED 1/18/95 17. DATE COMPL. (Ready to prod.) 1/26/95 (Plug & Abd.) 18. ELEVATIONS (DP, BER, RT, CR, ETC.) 4583' GL 4865' KB 19. ELEV. CASINGHEAD - - -

20. TOTAL DEPTH, MD & TVD 5803 21. PLUG BACK T.D., MD & TVD 5753 22. IF MULTIPLE COMPL. HOW MANY NA 23. INTERVALS DRILLED BY - - - 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD) 4960' - 4965' 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RDM DI-FL/GR; CNL-CDL/GR. 1-20-94 mud, CBL 27. WAS WELL CORED YES  NO  (Submit analysis) DRILL STEM TEST YES  NO  (See reverse side) No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8	24	392	12-1/4	285sx Class 'G'	- - -
5-1/2	15.5	5796	7-7/8	914sx Class 'G'	- - -

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (NO)
					2-7/8	4982	

31. PERFORATION RECORD (Interval, size and number) 4960-4965' .38 diameter 20 shots

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4960-4965	Brkdwn w/50bbbls 2% KCL.
	Frac w/14,060# 20/40;
	14,680# 16/30 sand &
	35# gelled water

33. PRODUCTION

DATE FIRST PRODUCTION 2/11/95 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping (2-1/2" x 1-1/2" x 16') WELL STATUS (Producing or shut-in) Producing

DATE OF TEST 2/21/95 HOURS TESTED 24 CHOKED SIZE NA PROD'N FOR TEST PERIOD - - - OIL—EBL. 45 GAS—MCF. TSTM WATER—EBL. -0- GAS-OIL RATIO - - -

FLOW. TUBING PRESS. NA CASING PRESSURE NA CALCULATED 24-HOUR RATE - - - OIL—EBL. - - - GAS—MCF. TSTM WATER—EBL. - - - OIL GRAVITY-API (CORR.) 37.2

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Used for fuel 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 DM Johnson TITLE Mgr. Operations/Prod DATE 2/22/95

See Spaces for Additional Data on Reverse Side

## INSTRUCTIONS

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

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

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

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

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

37. SUMMARY OF POROUS ZONES:		38. GEOLOGIC MARKERS					
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.		Bottom	Top	Description, contents, etc.	Name	Meas. Depth	True Vert. Depth
Uintah	Surface	2758'	Surface	Shale, siltstone, sandstone	"43-16" Zone	4405'	4405'
Green River	2758'	5318'	2758'	Oil shale, limestone/dolomite siltstone, sandstone	"Y" Marker	4813'	4813'
	4958'	4966'	4958'	Sandstone: oil bearing; No cores or tests	Glen Bench Ss	4948'	4948'
Wasatch	5318'	5800' TD	5318'	Shale, mudstone and sandstone			

27 1995

REPORT OF WATER ENCOUNTERED DURING DRILLING & MINING

1. Well name and number: Glen Bench State 12-16

API number: 43-047-32583

2. Well Location: QQ NWSW Section 16 Township 8S Range 22E County Uintah

3. Well operator: Chandler & Associates, Inc.

Address: 475 17th St, Suite 1000

Denver, Co 80202

Phone: (303) 295-0400

4. Drilling contractor: Chandler Drilling Corporation

Address: 475 17th St, 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		
NA	NA	NA	NA

6. Formation tops: '43-16' Zone 4405'

'Y' Marker 4813'

Glen Bench SS 4948'

\_\_\_\_\_

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: 2/2/95

Name & Signature: Don M Johnson

Title: Mgr, Prod/Operations

# UTAH DIVISION OF OIL, GAS AND MINING EQUIPMENT INVENTORY

Operator: Chandler and Associates Lease: State:  Federal:  Indian:  Fee:

Well Name: Glen Bench State 12-16 API Number: 43-047-32583

Section: 16 Township: 8S Range: 22E County: Uintah Field: Glen Bench

Well Status: POW Well Type: Oil:  Gas:

PRODUCTION LEASE EQUIPMENT:  CENTRAL BATTERY:

Well head       Boiler(s)       Compressor       Separator(s)  
 Dehydrator(s)       Shed(s)       Line Heater(s)       Heated Separator  
 VRU       Heater Treater(s)

PUMPS:  
 Triplex       Chemical       Centrifugal

LIFT METHOD:  
 Pumpjack       Hydraulic       Submersible       Flowing

GAS EQUIPMENT:

Gas Meters       Purchase Meter       Sales Meter

TANKS:	NUMBER	SIZE	
	<u>2</u>	<u>400</u>	Oil Storage Tank(s) BBLS
	<u>1</u>	<u>sub surface</u>	Water Tank(s) BBLS
			Power Water Tank BBLS
			Condensate Tank(s) BBLS
	<u>1</u>		Propane Tank

REMARKS: Casinghead gas used for fuel gas with propane  
for backup. Gas vents at pre-set psi.  
O.I tanks have permits.

Location central battery: Qtr/Qtr:  Section:  Township:  Range:

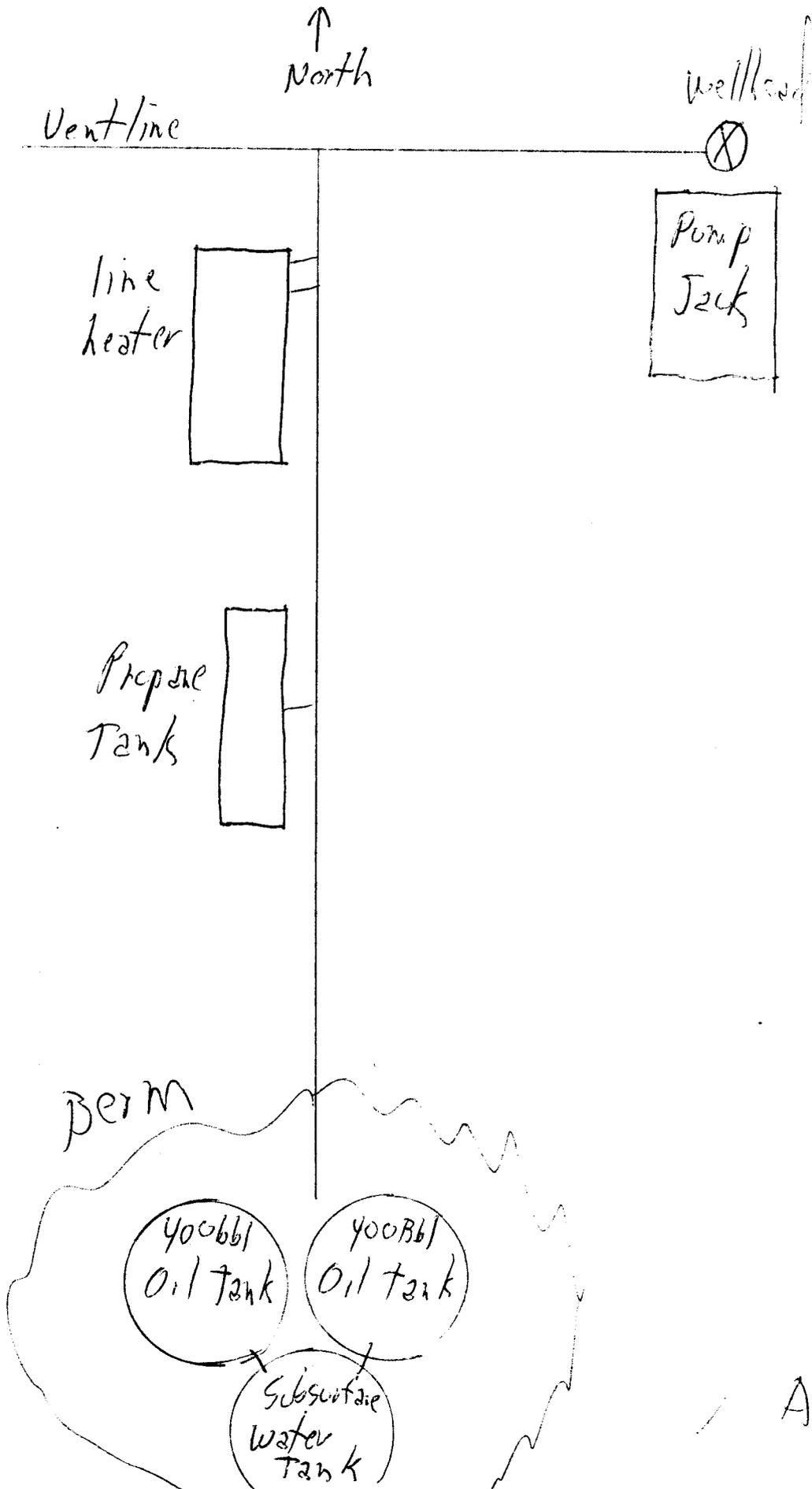
Inspector: David M. Hood Date: 3/10/95

Chandler + Associates

Glen Beach State 12-16

43-047-32583

Top Soil



ACCESS



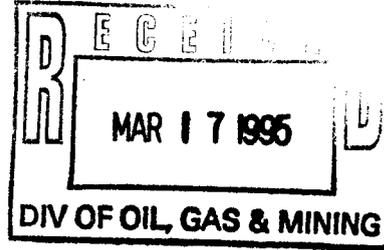
**CHANDLER & ASSOCIATES, INC.**

475 17TH ST. • SUITE 1000 • DENVER, COLORADO 80202 • 303 295-0400

OIL & GAS EXPLORATION AND PRODUCTION

FAX 303 295-0222

March 13, 1995



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

RE: Glen Bench State #12-16  
NW SW, Section 16, T8S, R22E  
Unitah County, Utah

Dear Mr. Hunt:

I wish to inform you and your agency that it is Chandler and Associates intention to convert the aforementioned well into a Class II water injection well, utilizing the existing perforations. 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 notify myself or Tom Taylor at (303) 295-0400.

Sincerely,

CHANDLER AND ASSOCIATES

D.M. (Don) Johnson  
Manager of Operations And Production

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

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR CHANDLER & ASSOCIATES, INC..		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 475 17th Street, Suite #1000 Denver, CO 80202 (303) 295-0400		7. UNIT AGREEMENT NAME UTU 73974A
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1432' FSL & 637' FWL (NW SW) Sec. 16, T8S R22E S.L.B. & M.		8. FARM OR LEASE NAME
14. PERMIT NO.		9. WELL NO. Glen Bench Fed. #12-16
15. ELEVATIONS (Show whether DF, RT, OR, etc.)		10. FIELD AND POOL, OR WILDCAT Glen Bench
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
		12. COUNTY OR PARISH Uintah,
		13. STATE Utah

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

NOTICE OF INTENTION TO :		SUBSEQUENT REPORT OF :	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <u>CONVERT TO INJECTION</u> <input checked="" type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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

Chandler & Associates, Inc. wishes to preform a step rate test, subsurface pressure survey, and convert to injection the Glen Bench #12-16.

The procedure for this action is as follows:

- 1) MIRUSU. Pressure test tubing. Tag PBTD. Clean out if necessary.
- 2) T.I. w/2-7/8" tubing and retrievable packer to 4900' KB± SN @ 4869' KB±.
- 3) Establish injection zone (4748'-4753') rate, swab test, establish fluid entry rates.
- 4) Run 72 hr bottom hole pressure survey
- 5) Hook up surface equipment. Wait on EPA approval to start injection.

It will be necessary to trench approximately 150' across the well pad to the stubbed out tie-in on the existing injection line for the Glen Bench Secondary Recovery Unit.

Enclosed with this sundry is the plat map, well bore diagram and copy of the cement bond logs from the Glen Bench #6-16, over the Glen Bench interval and the calculated top of cement for the A.D. #3-17-3C.

SEP 18 1995

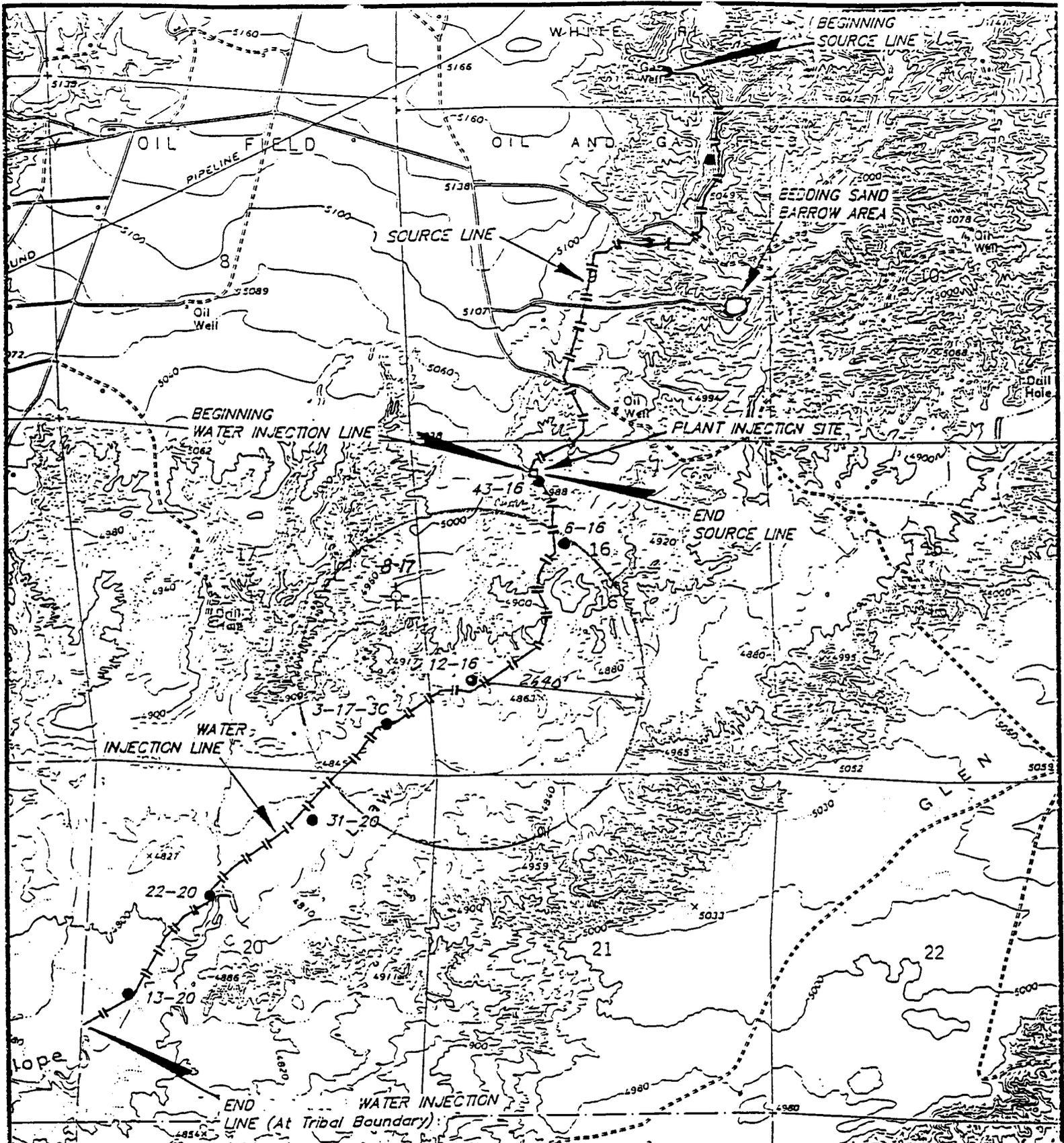
18. I hereby certify that the foregoing is true and correct

SIGNED Thomas D. Taylor TITLE Production Geologist DATE Sept 15, 1995

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_



APPROXIMATE SOURCE PIPELINE DISTANCE = 8,600' ±  
 APPROXIMATE WATER INJECTION LINE DISTANCE = 11,949' ±

" TOPOGRAPHIC MAP "

LEGEND:

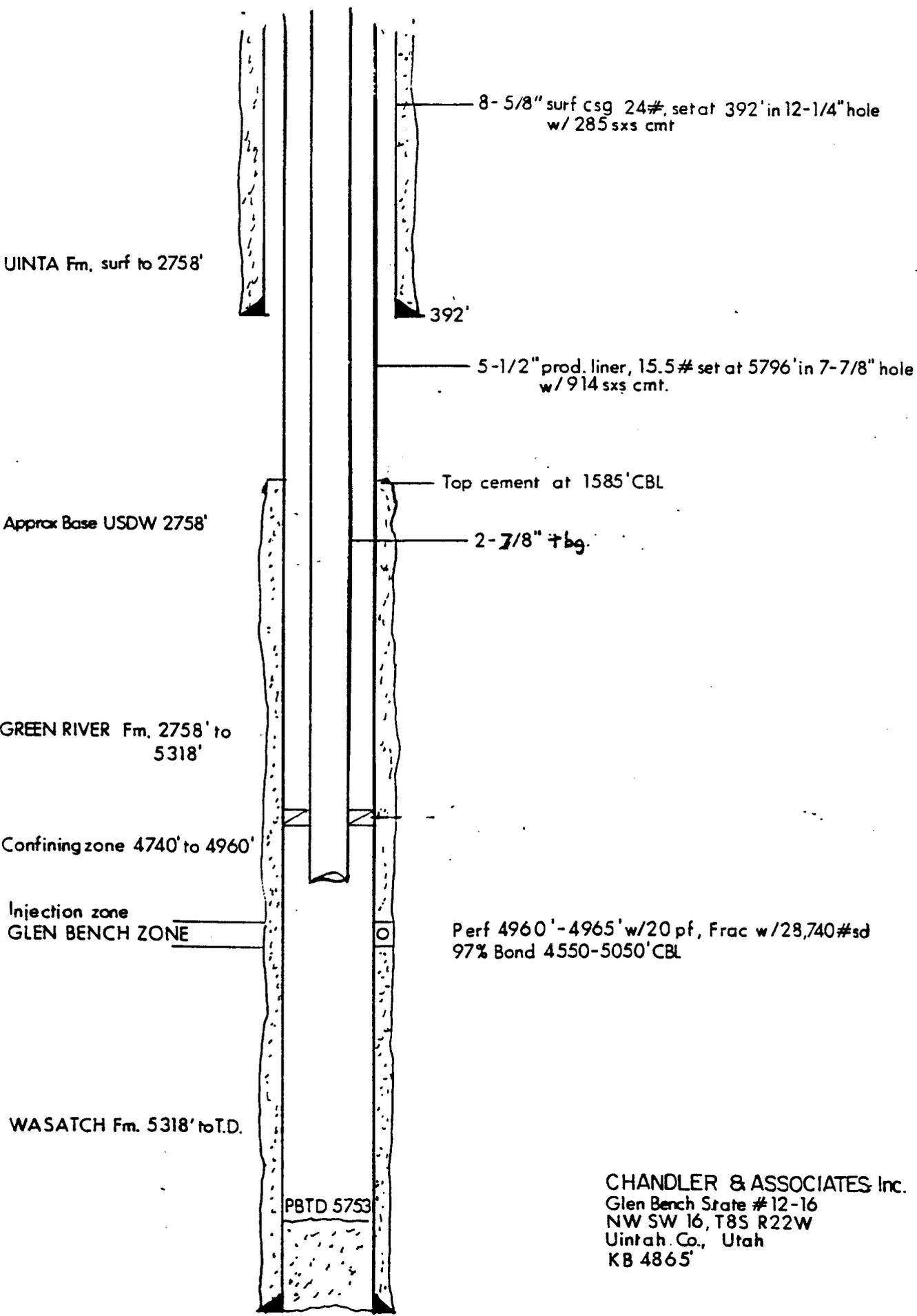
- Existing Pipeline
- |---|---| Proposed Pipeline



CHANDLER & ASSOCIATES, INC.

GLEN BENCH WATER INJECTION PROJECT  
 SECTIONS 9, 16, 17, & 20, T8S, T22E, S.L.B.&M.

DATE: 6-20-95 D.COX



8- 5/8" surf csg 24#, set at 392' in 12-1/4" hole  
w/ 285 sxs cmt

392'

5-1/2" prod. liner, 15.5# set at 5796' in 7-7/8" hole  
w/ 914 sxs cmt.

Top cement at 1585' CBL

2-7/8" tbg.

UINTA Fm. surf to 2758'

Approx Base USDW 2758'

GREEN RIVER Fm. 2758' to  
5318'

Confining zone 4740' to 4960'

Injection zone  
GLEN BENCH ZONE

Perf 4960'-4965' w/20 pf, Frac w/28,740#sd  
97% Bond 4550-5050' CBL

WASATCH Fm. 5318' to T.D.

PBDT 5753

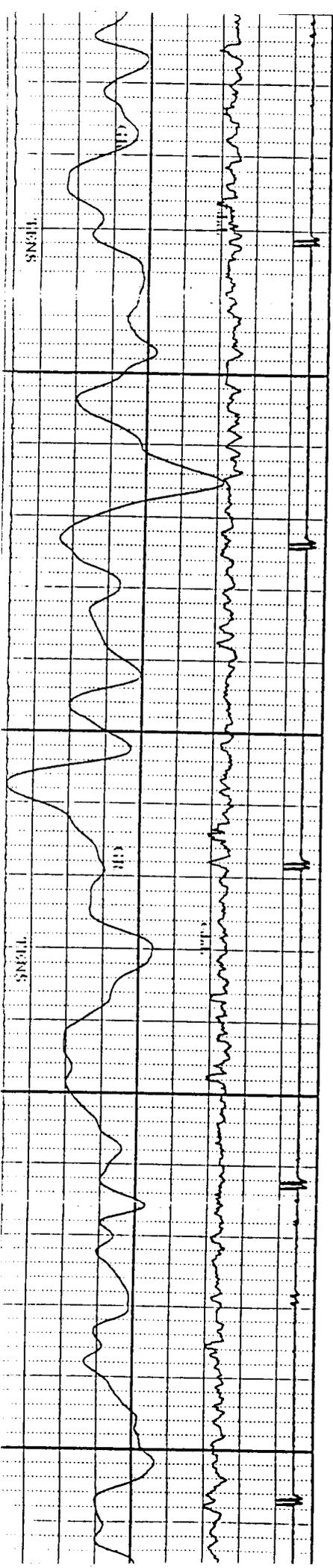
CHANDLER & ASSOCIATES Inc.  
Glen Bench State #12-16  
NW SW 16, T8S R22W  
Uintah Co., Utah  
KB 4865'

TD 5803' 1/18/95

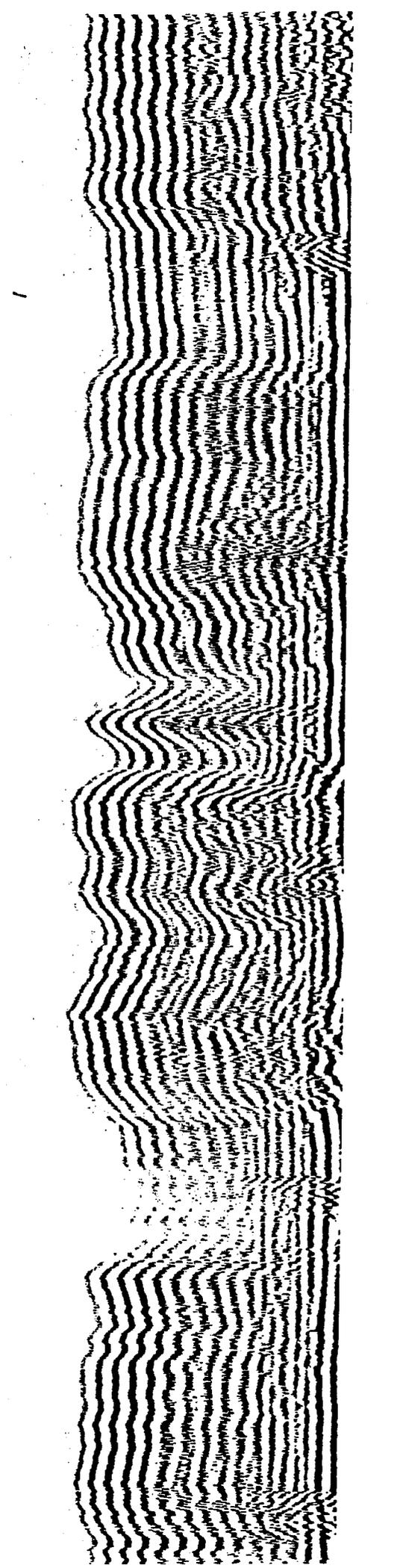
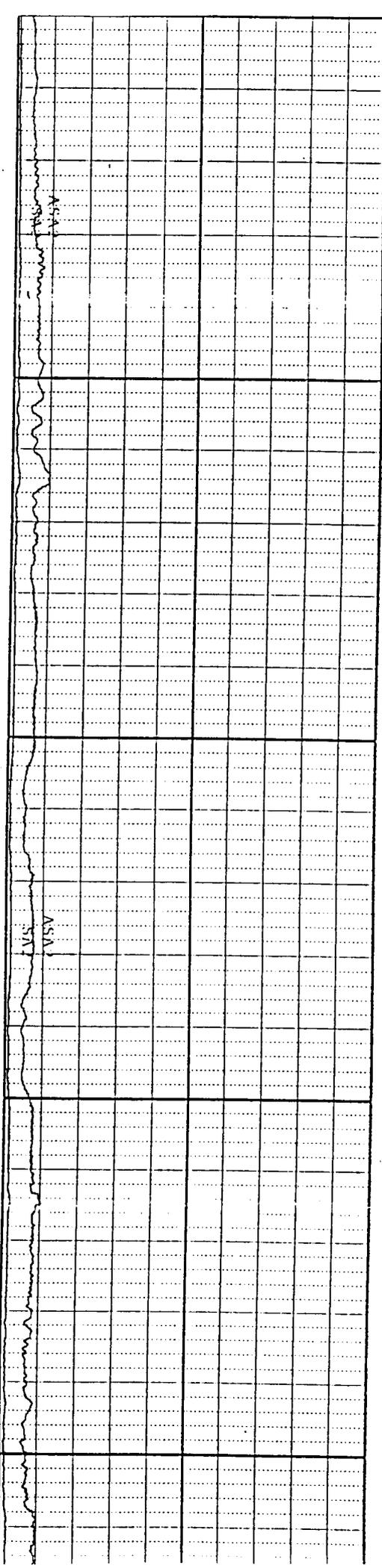
# Final Print Schlumberger

## CEMENT BOND LOG WITH GAMMA RAY & CCL.

County UINTAH Field GLEN BENCH Location 1559' FNL & 2191' FWL Well GLEN BENCH STATE #6-16 Company CHANDLER & ASSOCIATES, IN	COMPANY CHANDLER & ASSOCIATES, INC.					
	WELL GLEN BENCH STATE #6-16					
	FIELD GLEN BENCH					
	COUNTY UINTAH STATE UTAH					
Location		1559' FNL & 2191' FWL				Other Services: CBI PURI
API Serial No.	Sect.	Twp.	Range			
N.A.	16	8S	22 E			
Permanent Datum	GI	Elev. 4976			Elev. K.B. 4948	
Log Measured From	KB	12' above Perm. Datum			D.F.	
Drilling Measured From	KB				G.L. 4976	
Date	DECEMBER 19, 199		Casing Fluid	WATER		
Run No.	001		Fluid Level	1011		
Depth-Driller	5440		Max. Rec. Temp.			
Depth-Logger	5426		Est. Cement Top	2114		
Btm. Log Interval	5426		Unit	District	130 434	
Top Log Interval	2000		Recorded By	GEO. REID		
Open Hole Size			Witnessed By	JIM SIMINGTON		
CASING REC.	Size	Wt/Ft	Grade	Type Joint	Top	Bottom
Surface String						
Prot. String						
Prod. String	5.5	15.5			SURFACE	L.D.
Liner						
PRIMARY CEMENTING DATA						
STRING	Surface	Protection	Production	Liner		
Vol. of Cement	N/A					
Type of Cement						
Additive						
Retarder						
Wt. of slurry						
Water loss						
Type fluid in csq.						



5000  
1  
5100  
5200



Schlumberger

SIMULTANEOUS  
DUAL LATEROLOG  
MICRO-SFL

COUNTY UINTAH, UTAH  
FIELD ANTELOPE DRAW  
LOCATION SEC. 17-8S-22E  
WELL ANTELOPE DRAW FED -  
FRAL #3-17-3C  
COMPANY GULF OIL CORPORATION

COMPANY GULF OIL CORPORATION  
WELL ANTELOPE DRAW FEDERAL 3-17-3C  
FIELD ANTELOPE DRAW  
COUNTY UINTAH STATE UTAH

LOCATION SE/SE 658 FSL, 695 FFL  
API SERIAL NO. SEC. TWP RANGE  
17 8S 22E

Other Services:  
LDT/GR

Permanent Datum: GI ; Elev.: <sup>4933</sup>4830  
Log Measured From KB 13 Ft. Above Perm. Datum  
Drilling Measured From KB

Elev.: K.B. <sup>4946</sup>4843  
D.F. ---  
G.I. <sup>4933</sup>4830

Date	12/18/84				
Run No.	ONE				
Depth-Driller	5025				
Depth-Logger (Schl.)	5023				
Btm. Log Interval	5009				
Top Log Interval	408				
Casing-Driller	8-5/8@429	@	@	@	@
Casing-Logger	408				
Bit Size	7-7/8"				
Type Fluid in Hole	KCL BRINE				
Dens.	9.1	27			
pH	9.5	-- ml	ml	ml	ml
Fluid Loss					
Source of Sample	FLOWLINE				
Rm @ Meas. Temp.	.102 @ 52 °F	@ °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.078 @ 52 °F	@ °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	.109 @ 52 °F	@ °F	@ °F	@ °F	@ °F
Source: Rmf	MEAS.				
Rmc	CALC.				
Rm @ BHT	0.46 @ 125 °F	@ °F	@ °F	@ °F	@ °F
Circulation Stopped	1300 12/18				
Logger on Bottom	1700 12/18				
Max. Rec. Temp.	125 °F	°F	°F	°F	°F
Equip.	8255 R.S.				
Location					
Recorded By	MC ELLIGOTT				
Witnessed By	JAMISON				

1700

est top C.  
1310 ft  
Total

Top of cement calc.  
850 sq class 6' = 986 cu ft

75% = 740 cu ft used

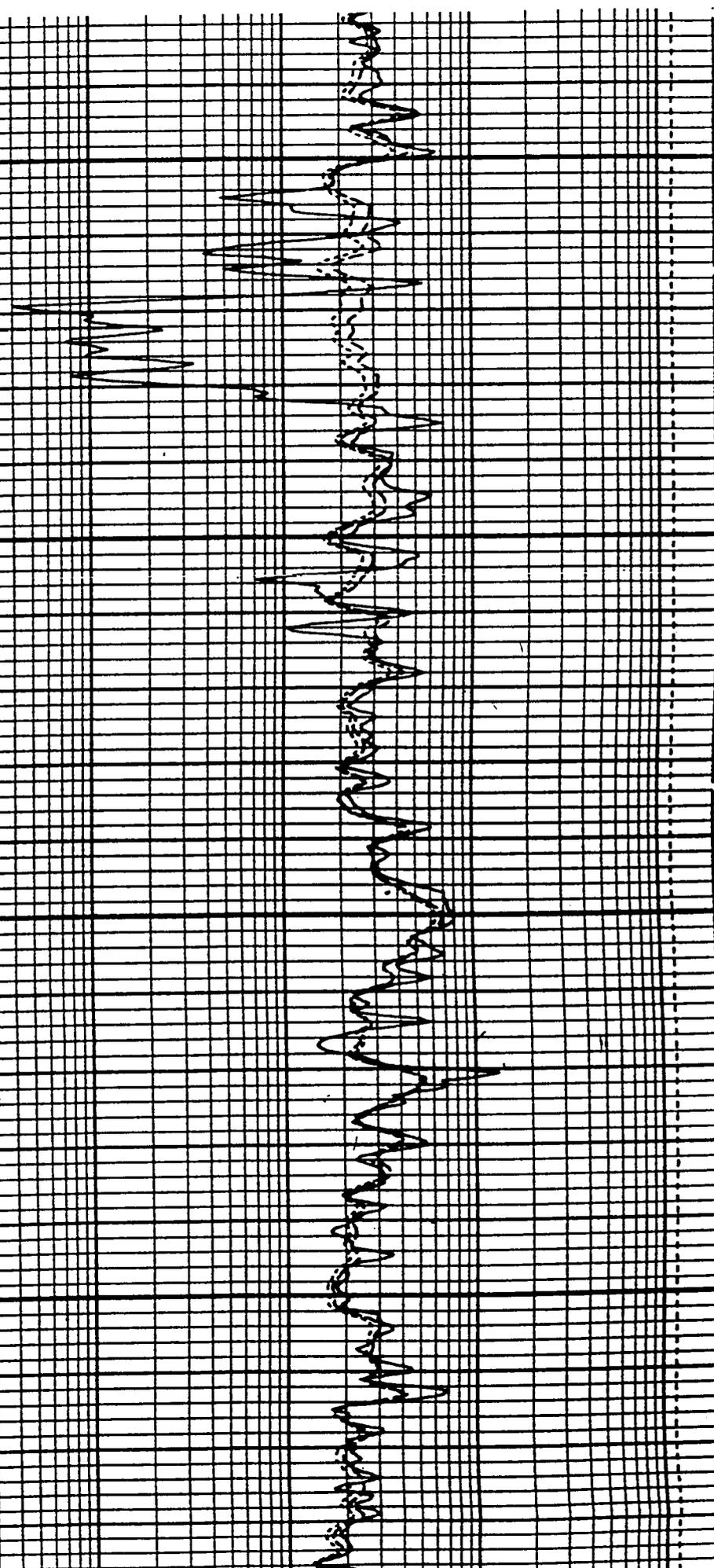
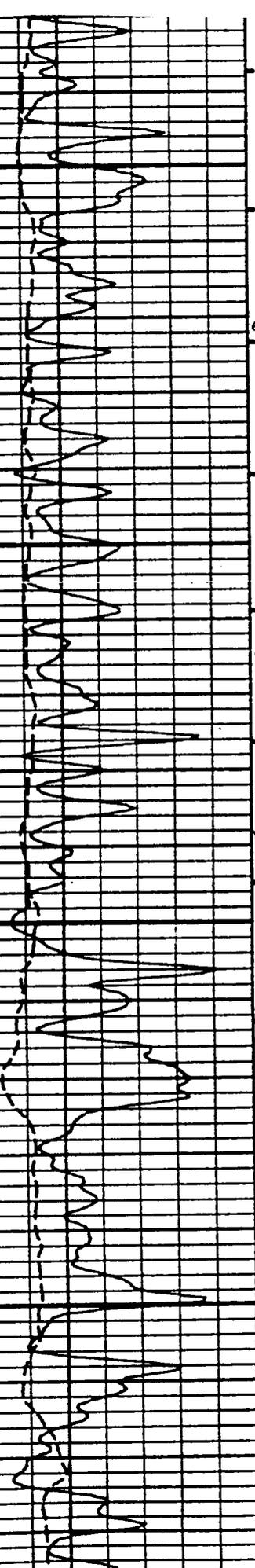
1310 (from hole volume)  
from log

800  
- 3300

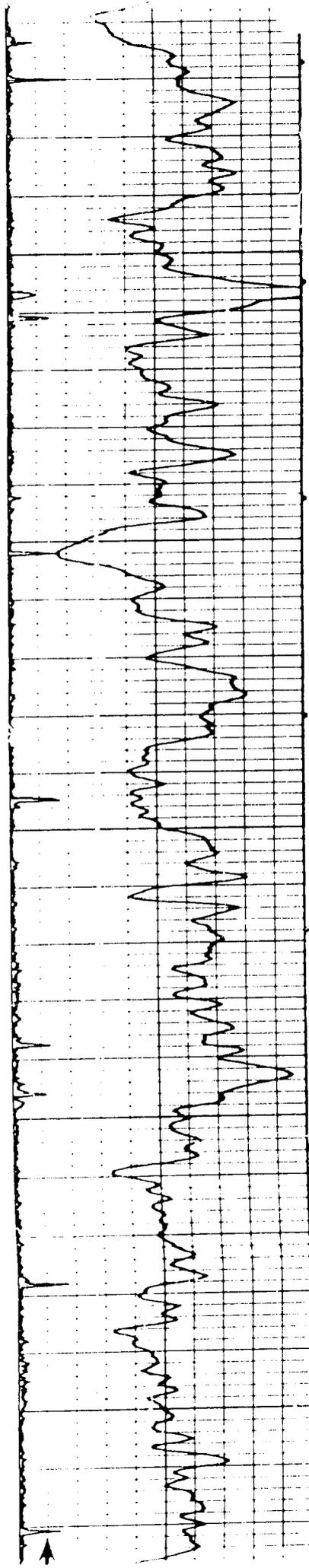
(1725 to TD)

x .1732 (log displacement)  
per linear ft

= 738 cu ft



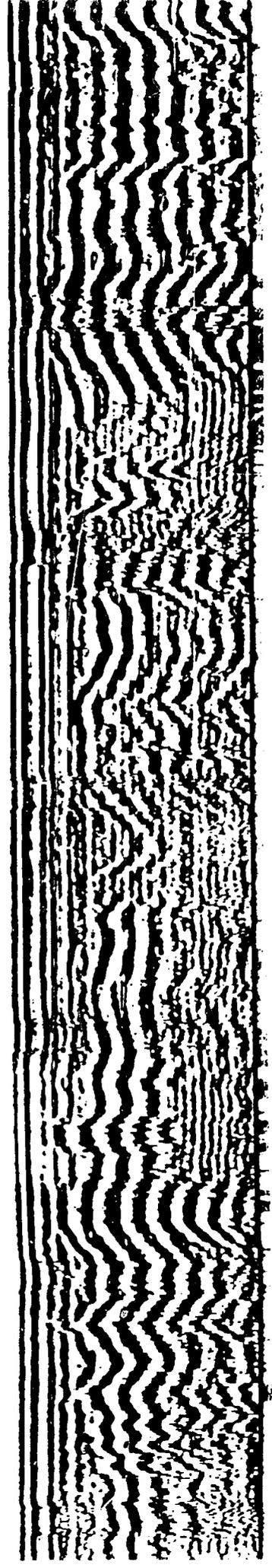
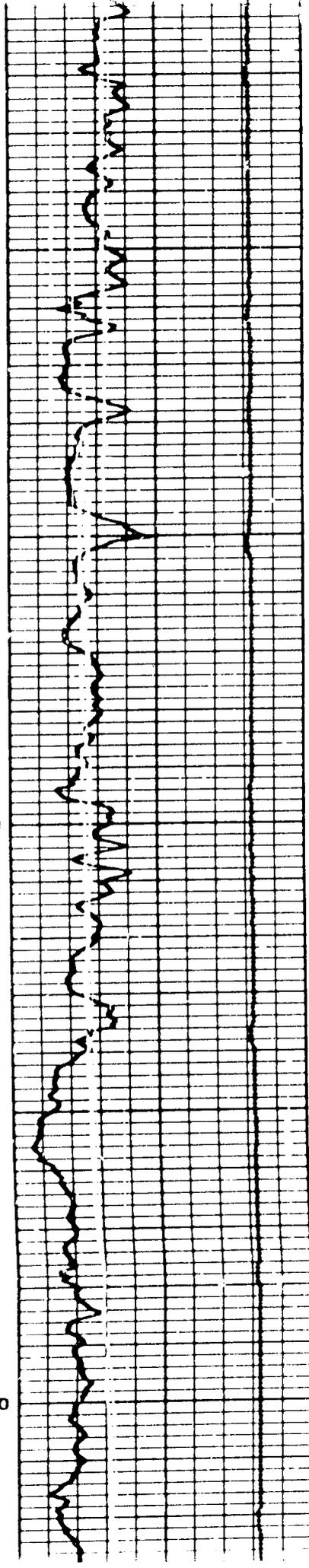


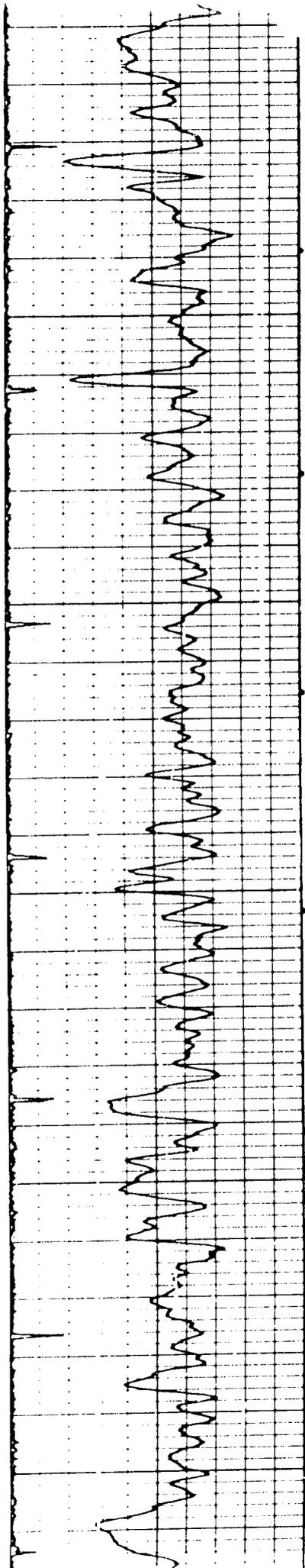


04700

04800

04900

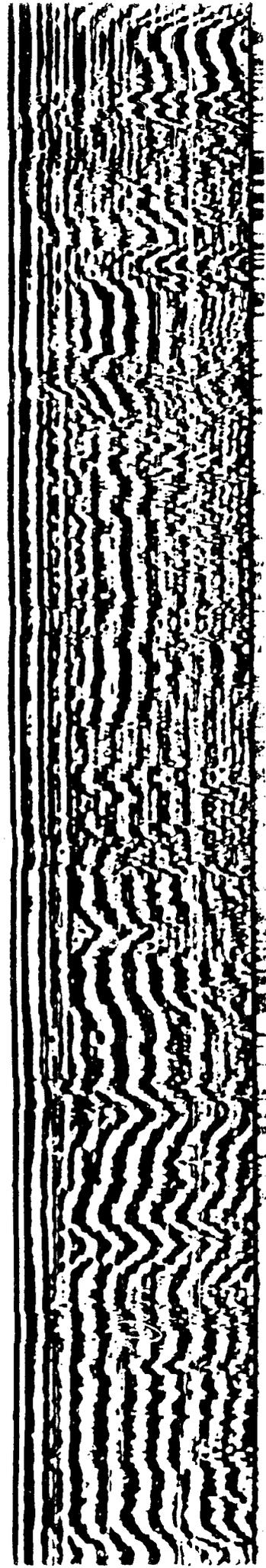
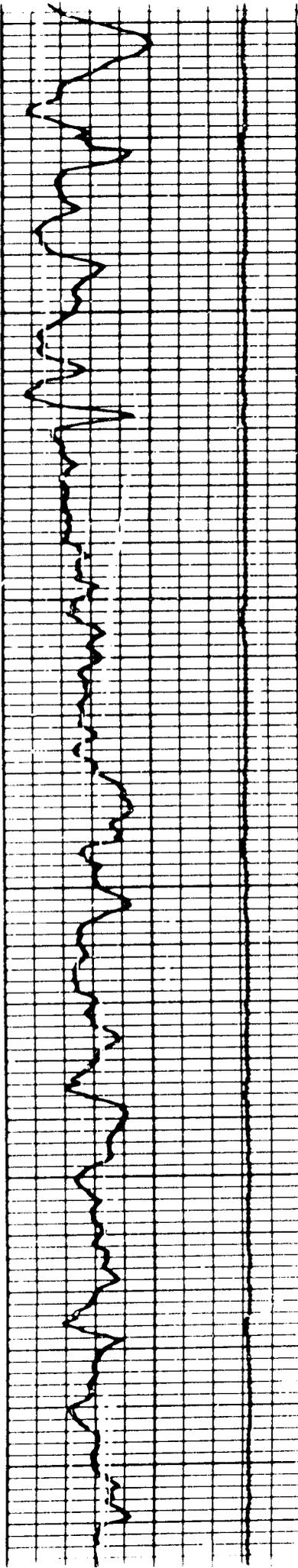


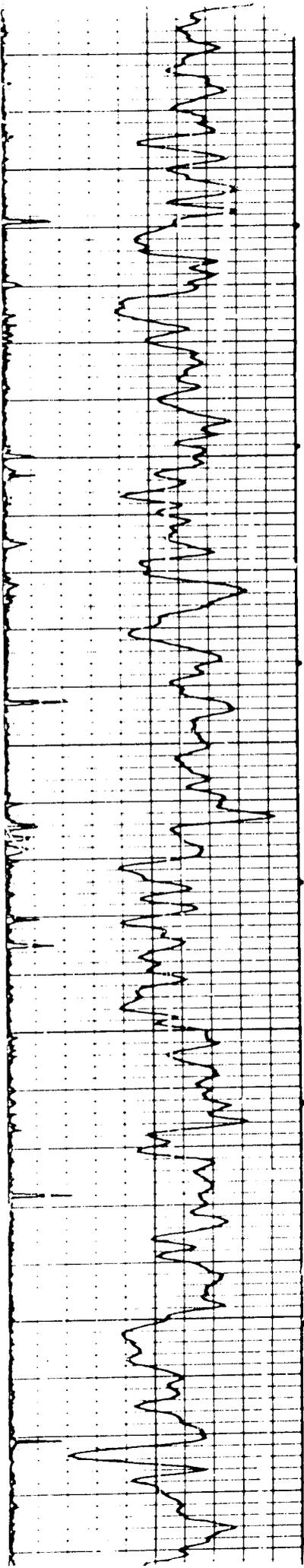


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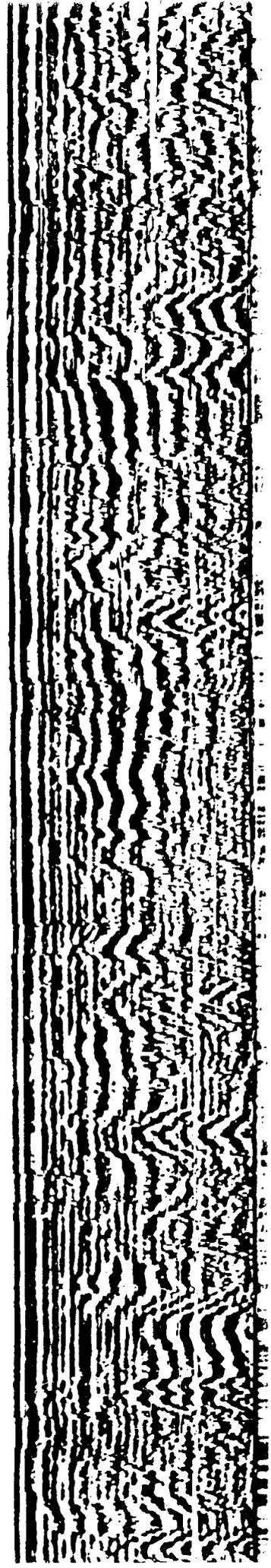
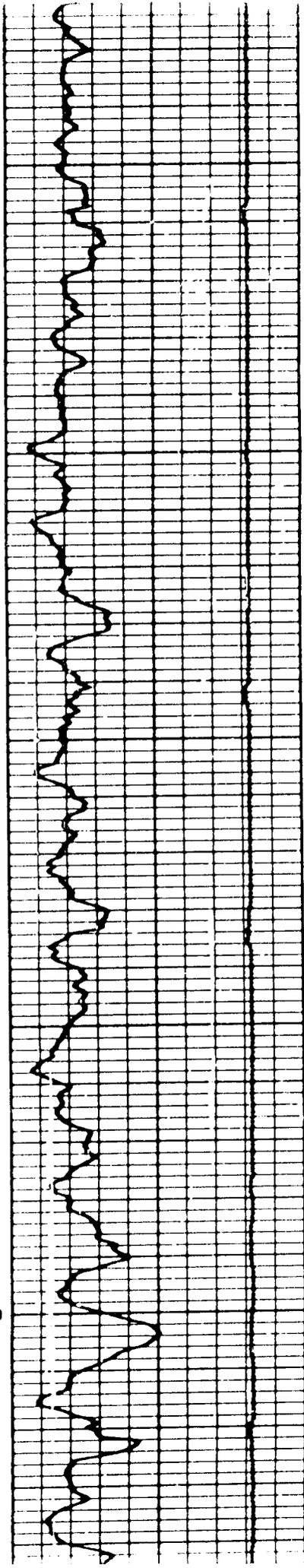


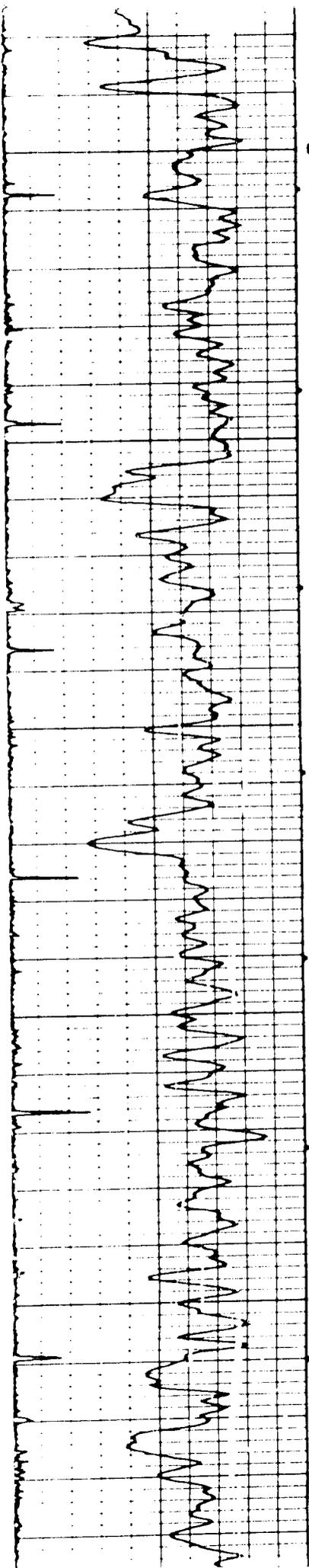


04200

04300

04400

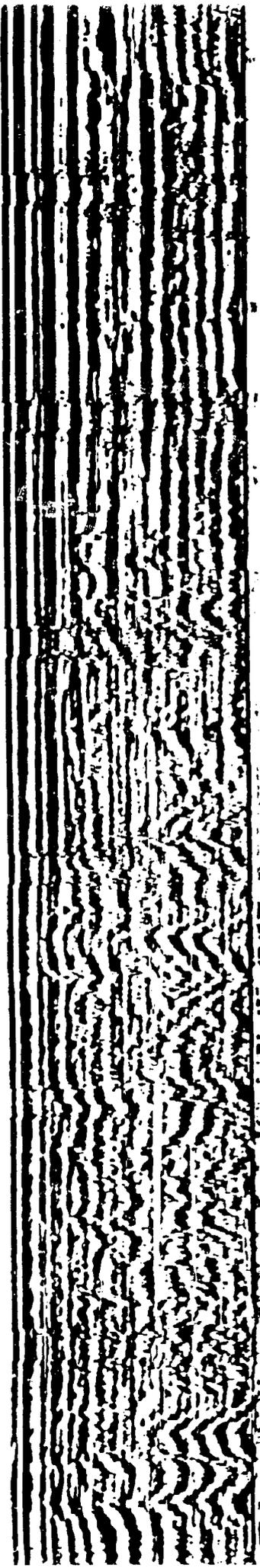
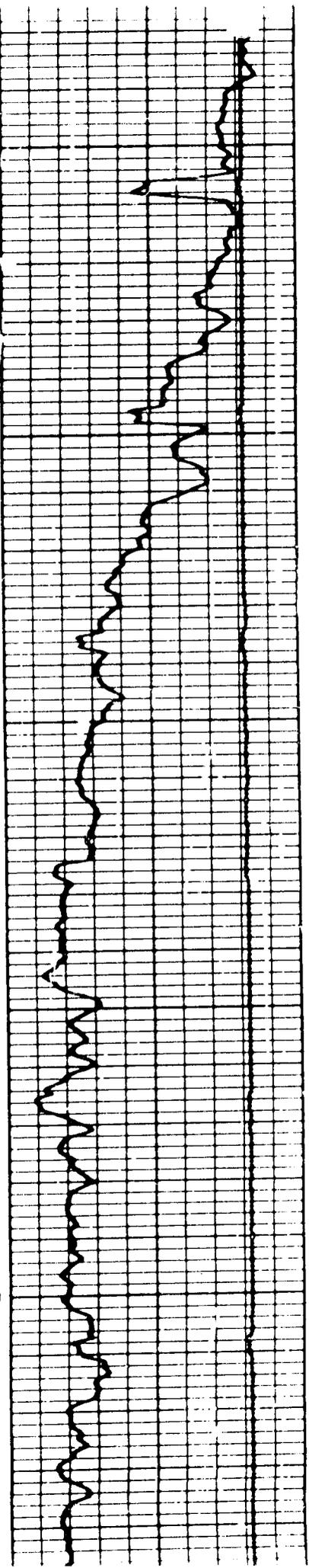


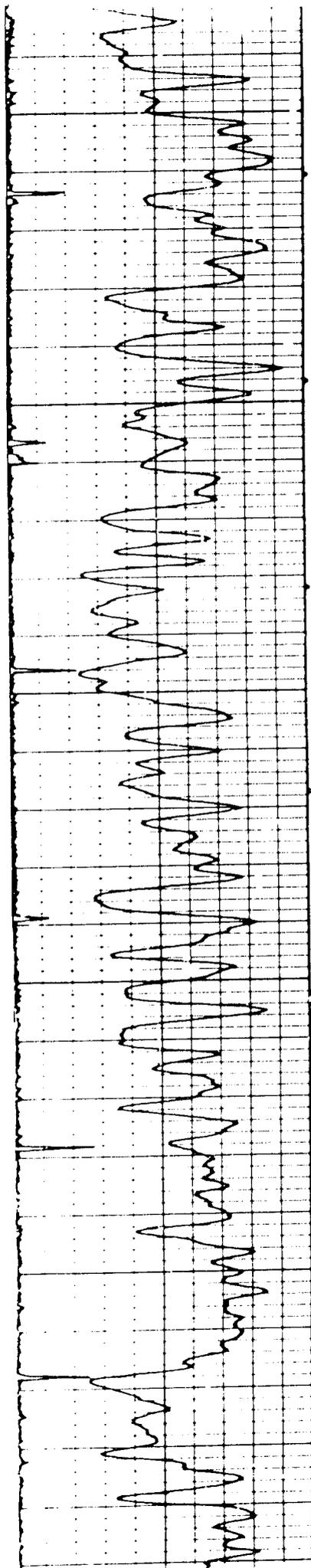


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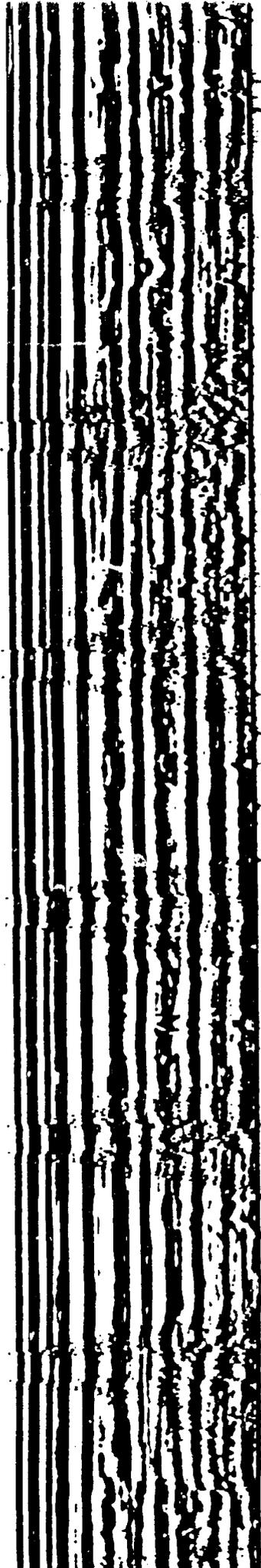
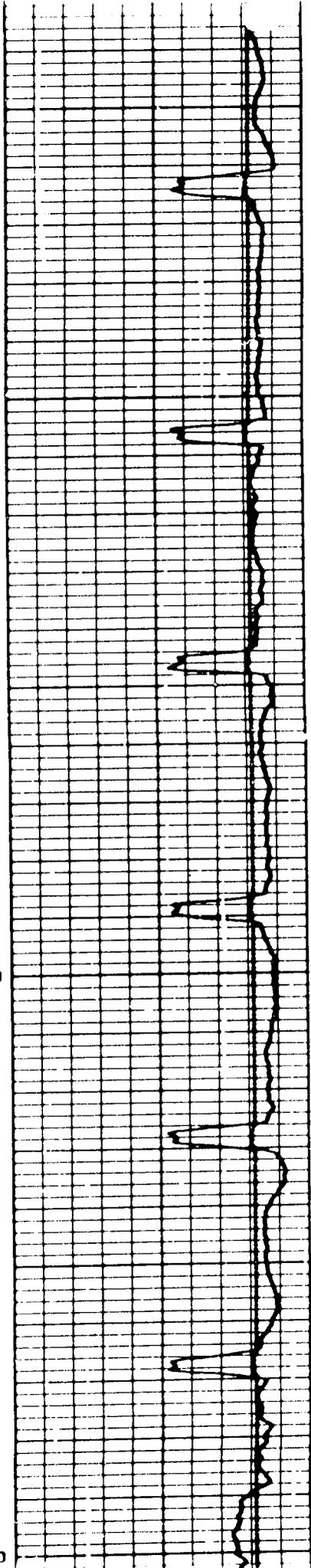


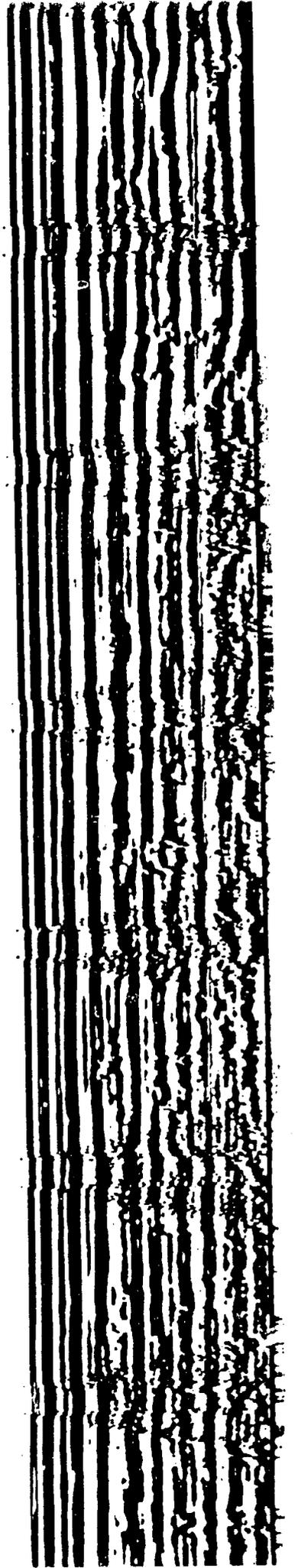
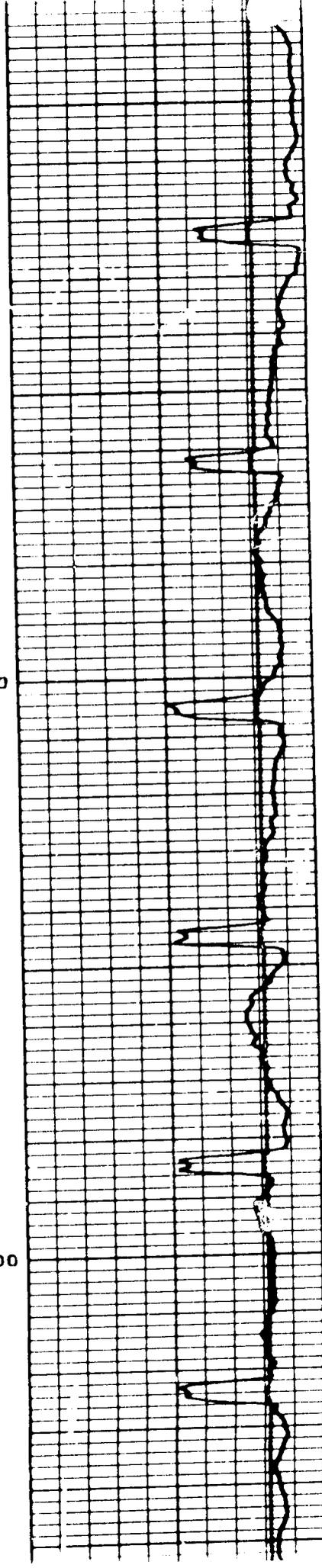
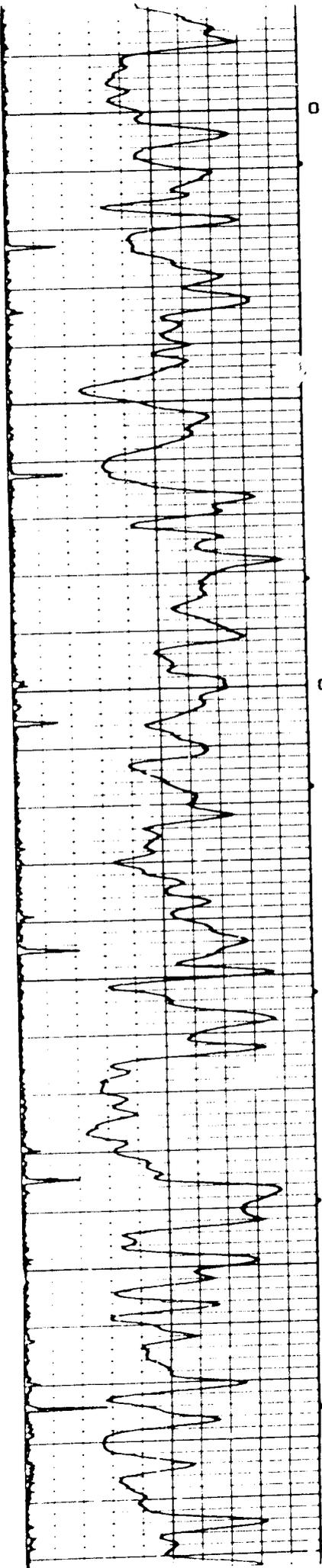


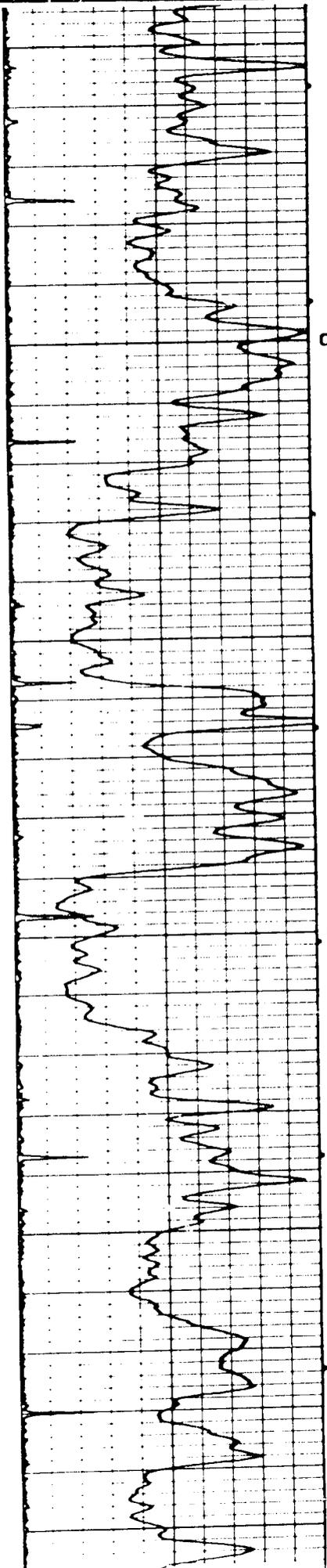
03800

03800

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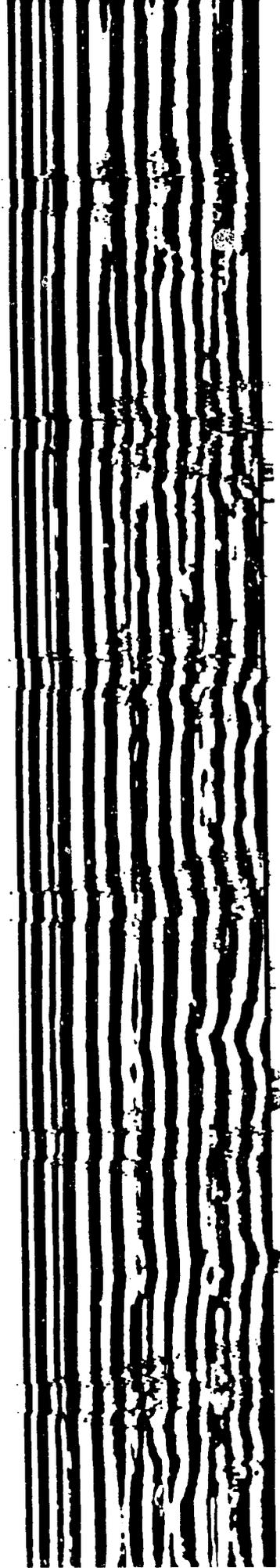
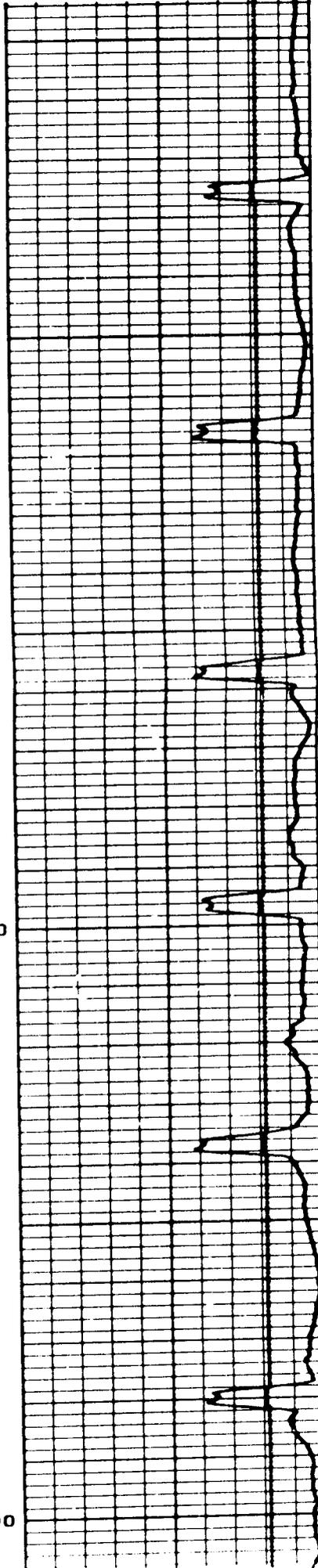




03300

03400

03500



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

---ooOoo---

IN THE MATTER OF THE APPLICATION	:	
OF CHANDLER & ASSOCIATES, INC.	:	NOTICE OF AGENCY ACTION
FOR ADMINISTRATIVE APPROVAL	:	
OF THE FEDERAL 31-30 AND FEDERAL	:	CAUSE NO. UIC-164
12-16 WELLS LOCATED IN SECTIONS 30	:	
AND 16, TOWNSHIP 8 SOUTH, RANGE 22	:	
EAST, S.L.M., UINTAH COUNTY, UTAH, AS	:	
CLASS II INJECTION WELLS	:	

---ooOoo---

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

Notice is hereby given that the Division is commencing an informal adjudicative proceeding to consider the application of Chandler & Associates, Inc. for administrative approval of the Federal 31-30 and Federal 12-16 wells, located in Sections 30 and 16, Township 8 South, Range 22 East, Uintah County, Utah, for conversion to Class II injection wells. The proceeding will be conducted in accordance with Utah Admin. R.649-10, Administrative Procedures.

The interval from 4746 feet to 4764 feet (Glen Bench Zone of the Green River Formation) will be selectively perforated for water injection. The maximum requested injection pressure will be limited to 942 psig.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

DATED this 21st day of September, 1995.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

  
\_\_\_\_\_  
R. J. Firth  
Associate Director, Oil & Gas



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

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

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

September 21, 1995

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

Re: Notice of Agency Action - Cause No. UIC-164

Gentlemen:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

A handwritten signature in cursive script that reads "Lisha Cordova". The signature is fluid and matches the typed name below it.

Lisha Cordova  
Administrative Analyst

Enclosure



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

Michael O. Leavitt  
Governor

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801-538-5319 (TDD)

September 21, 1995

Newspaper Agency Corporation  
Legal Advertising  
Tribune Building, Front Counter  
143 South Main  
Salt Lake City, Utah 84111

Re: Notice of Agency Action - Cause No. UIC-164

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Sincerely,

A handwritten signature in cursive script that reads "Lisha Cordova".

Lisha Cordova  
Administrative Analyst

Enclosure

**Chandler & Associates, Inc.  
Federal 31-30 and 12-16 Wells  
Cause No. UIC-164**

Publication Notices were sent to the following:

Newspaper Agency Corporation  
Legal Advertising  
Tribune Building, Front Counter  
143 South Main  
Salt Lake City, Utah 84111

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

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

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

U.S. Environmental Protection Agency  
Region VIII  
Attn. Tom Pike  
999 18th Street  
Denver, Colorado 80202-2466



---

Lisha Cordova  
Administrative Analyst  
September 21, 1995

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

**PERMIT  
STATEMENT OF BASIS**

**Applicant:** Chandler and Associates      **Well:** Federal 31-30 and 12-16

**Location:** Glen Bench Unit, Uintah County

**Ownership Issues:** The proposed wells are located in sections 30 and 16, township 8 south, range 22 east, Uintah, County, Utah. The surface and minerals within a 1/2 mile of the well is owned by the federal government.

**Well Integrity:** The wells proposed for injection are the federal 31-30 and the Federal 12-16. The 31-30 well has a 13 3/8" surface casing at 80 feet and is cemented to surface. A 8 5/8" intermediate casing is set at 2510 feet and has a cement top at 2137 feet. A 5 1/2" longstring is set at 5115 feet and has a cement top at 4036 feet. The Federal 12-16 well has an 8 5/8" surface casing set at 392 feet and is cemented to surface. A 5 1/2" production casing is set at 5796 and has a cement top at approximately 1600 feet. The injection interval is from 4748-4753 feet (Glen Bench Zone of the Green River Formation). A 2 7/8" tubing will be set in a packer no higher than 50 feet above the perforations. This construction should adequately protect all USDW's. There ~~is~~<sup>are</sup> 4 producing wells and 1 plugged and abandoned well in the 1/2 mile area of review. These wells have sufficient cement behind the longstring and has adequate surface casing to prevent any migration of fluid up the hole. The abandoned well has adequate plugs to prevent migration of fluid up the hole. A casing test should be performed at the time of conversion and a casing/tubing pressure test should be performed prior to injection.

**Ground Water Protection:** The base of moderately saline water is at a depth of approximately 1166 feet located in the Uinta Formation in the area of the project. Any shallow fresh water zones will be adequately protected by existing constructions. The average fracture gradient for the field is .64 psi/ft. which calculates to a surface pressure of 942 psi. No corrective action is needed on the proposed well or any of the wells in the area of review.

**Oil/Gas & Other Mineral Resources Protection:** The project (Glen Bench Unit) has been approved by the board. Injection into these wells should have no adverse effects on any offsetting production outside the unit area.

**Bonding:** All the wells in the unit are operated by Chandler and are covered by a federal bond.

**Actions Taken and Further Approvals Needed:** A public notice for the wells has been published in both the Salt Lake Tribune and the Uinta Basin Standard. Administrative approval can be granted for the injection wells after a 15 day comment period if no objections are received. An MIT needs to be conducted prior to injection. The applications submitted by Chandler meet the minimum requirements of the rules. Information submitted by Chandler for approval of the waterflood unit was used to make permit decisions. The wells have been approved by the U.S.E.P.A.

DJJ  
Reviewers

09-25-95  
Date

PROOF OF PUBLICATION

70  
F 4 F

STATE OF UTAH,

} ss.

County of Uintah

I, Melanie Morrison,  
being duly sworn, depose and say, that I  
am the Business Manager of The Vernal  
Express, a weekly newspaper of general  
circulation, published each week at Vernal,  
Utah, that the notice attached hereto was  
published in said newspaper

for 1 publications,

the first publication having been made on  
the 27th day of September, 1995 and the  
last on the 27th day of September, 1995,

that

said notice was published in the regular  
and entire issue of every number of the  
paper during the period and times of  
publication, and the same was published in  
the newspaper proper and not in a  
supplement.

By *Melanie Morrison*  
Manager

Subscribed and sworn to before me, this  
27th day of September A.D. 1995.

*Jack R. Stoler*  
Notary Public, Residence, Vernal, Utah

**NOTICE OF  
AGENCY ACTION  
CAUSE NO.  
UIC-164  
BEFORE THE  
DIVISION OF  
OIL, GAS AND  
MINING  
DEPARTMENT  
OF NATURAL  
RESOURCES  
STATE OF UTAH  
IN THE MATTER OF  
THE APPLICATION OF  
CHANDLER & ASSO-  
CIATES, INC. FOR AD-  
MINISTRATIVE AP-  
PROVAL OF THE FED-  
ERAL 31-30 AND FED-  
ERAL 12-16 WELLS  
LOCATED IN SEC-  
TIONS 30 AND 16,  
TOWNSHIP 8 SOUTH,  
RANGE 22 EAST,  
S.L.M. UINTAH  
COUNTY, UTAH AS  
CLASS II INJECTION  
WELLS.  
THE STATE OF UTAH  
TO ALL PERSONS IN-  
TERESTED IN THE  
ABOVE ENTITLED  
MATTER.**

Notice is hereby given  
that the division is com-  
mencing an informal ad-  
judicative proceeding to  
consider the application  
of Chandler & Associ-  
ates, Inc. for administra-  
tive approval of the Fed-  
eral 31-30 and Federal  
12-16 wells, located in  
Sections 30 and 16,  
Township 8 South, Range

22 East, Uintah County,  
Utah, for conversion to  
Class II injection wells.  
The proceeding will be  
conducted in accordance  
with Utah Admin. R. 649-  
10, Administrative Proce-  
dures.

The interval from 4746  
feet to 4764 feet (Glen  
Bench Zone of the Green  
River Formation) will be  
selectively perforated for  
water injection. The max-  
imum requested injection  
pressure will be limited to  
942 psig.

Any person desiring to  
object to the application  
or otherwise intervene in  
the proceeding, must file  
a written protest or notice  
of intervention with the  
Division within fifteen  
days following publica-  
tion of this notice. If such  
a protest or notice of in-  
tervention is received, a  
hearing will be scheduled  
before the Board of Oil,  
Gas and Mining. Protes-  
tants and/or intervenors  
should be prepared to  
demonstrate at the hear-  
ing how this matter af-  
fects their interests.

DATED this 21st day  
of September, 1995.

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

Published in the Vernal  
Express Sept. 27, 1995.



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

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

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

October 24, 1995

Chandler and Associates Inc.  
475 17th St., Suite 100  
Denver, Colorado 80202

Re: Federal 31-30 and 12-16 Wells, Sections 30 and 16, Township 8 South, Range 22  
East, Uintah County, Utah

Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced wells to Class II injection wells. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Chandler and Associates Inc..

If you have any questions regarding this approval or the necessary requirements, please contact Dan Jarvis at this office.

Sincerely,

R.J. Firth  
Associate Director

cc: Debra G. Ehlert, Environmental Protection Agency  
Bureau of Land Management, Vernal





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

Michael O. Leavitt  
Governor  
Ted Stewart  
Executive Director  
James W. Carter  
Division Director

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

**UNDERGROUND INJECTION CONTROL PERMIT**

**Cause No. UIC-164**

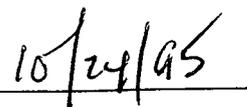
**Operator:** Chandler and Associates, Inc.  
**Wells:** Federal 31-30 and Federal 12-16  
**Location:** Sections 30 and 16, Township 8 South, Range 22  
East, Uintah County  
**API No.:** 43-047-31008 and 43-047-32583  
**Well Type:** Enhanced Recovery (waterflood)

**Stipulations of Permit Approval**

1. Approval for conversion to injection well issued on October 24, 1995.
2. Maximum Allowable Injection Pressure: 942 psig.
3. Maximum Allowable Injection Rate: limited by pressure.
4. Injection Interval: 4,746 feet to 4,764 feet (Glen Bench Zone of the Green River Formation).

Approved by:

  
R.J. Firth  
Associate Director, Oil and Gas

  
Date

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

1. LEASE DESIGNATION & SERIAL NO. <b>ML-22049</b>	
2. IF INDIAN ALLOTTEE OR TRIBE NAME <b>N.A.</b>	
3. UNIT AGREEMENT NAME <b>UTU73974X</b>	
4. FARM OR LEASE NAME <b>GLEN BENCH STATE</b>	
5. WELL NO. <b>12-16</b>	
6. FIELD AND POOL OR WILDCAT <b>GLEN BENCH</b>	
7. SEC., T., R., NE. OR BLK. AND SURVEY OR AREA <b>Sec16-T8S-R22E</b>	
8. API NO. <b>43-047-32583</b>	9. ELEVATIONS (Show whether DF, RT, CR, etc.) <b>4865' KB</b>
10. COUNTY <b>Utah</b>	11. STATE <b>UT</b>

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. OIL WELL  GAS WELL  OTHER

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

3. ADDRESS OF OPERATOR  
**475 17th ST. #1000**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also cases 17 below.)  
At surface **NW SW (1432' FSL, 637' FWL)**  
At proposed prod. zone

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <b>conversion to injection</b> <input type="checkbox"/>	
(Note: Report results of multiple completion or Well Completion or Recompletion Report and Log form.)	

APPROX. DATE WORK WILL START \_\_\_\_\_

DATE OF COMPLETION **12/16/95**

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

\* Must be accompanied by a cement verification report.

Glen Bench #12-16 was converted to a water injection well for the Glen Bench Secondary Recovery Unit, using existing perforations (4961-4966)

12/15/95 MIRUSU - unseat pump, pull rods & pump, make clean out run with bit & scaper

12/16/95 Run 5 1/2" retaining packer and set at 4880'KB, pump packer fluid down CSG, perform MIT (1hr. test)

12/17/96 Run 72hr. BHP survey

12/22/95 Perform Step Rate Test

12/23/95 Start water injection at 3:30p.m. 12/23/95

Attached: BHP Survey/Step Rate Test  
Well Rework Record  
MIT

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

SIGNED Tom Lgh TITLE Production Geologist DATE 3/14/96

(This space for Federal or State office use)

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

See Instructions On Reverse Side

**CHANDLER & ASSOCIATES, INC.**  
**P.O. BOX 418**  
**RANGELY, CO 81648**  
**970-675-8451**  
**970-675-5154(FAX)**

February 15, 1996

TO: Mr. John Carson - Environmental Protection Agency  
RE: Glen Bench #12-16 MIT test  
FROM: Jim Simonton

Dear Mr. Carson:

Per our discussion on February 14, 1996, in regard to the MIT test conducted by me on our Glen Bench #12-16 well, Sec. 16-T8S-R22E, Uintah County, Utah, on 12/16/95, the following is an explanation as to the pressure decline from 600 psi to a thirty-five minute test at 500 psi:

Initially, the Glen Bench #12-16 was an oil well and upon EPA approval dated August 9, 1995, the well was converted to a Class II Enhanced Oil Recovery Well in December 1995. Prior to the conversion, a scraper run was made and the well was hot water treated to remove paraffin in the casing. A retrievable packer was run and the annulus filled with 120 degree packer fluid. During the packer fluid circulation some gas cut water was circulated out and continued to have a small amount of gas migrating to surface after the packer was set. I proceeded with the annulus pressure test, with the tubing valve open, to 600 psi. I was trying to obtain a good 500 psi test on the annulus. Once at 600 psi I shut down the pump and noticed small psi bleed-offs. Suspecting gas, I continued to slightly open the casing valve to release entrapped gas. Once the small volume of gas was released the annulus psi held constant at 500 psi. Additionally, during the entire process, the tubing remained dead. On the a/m of 12/17/95, the casing was holding at 495 psi. Once injection commenced, I bled off the casing psi and the casing has remained dead with tubing injection pressures of 580 psi. Also, enclosed you will find the requested copy of the "Well Rework Record."

I sincerely appreciate your cooperation and understanding in this matter and apologize for any additional work it may have caused you or your staff.

Sincerely,



Jim Simonton  
Oil & Gas Supervisor

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460



**WELL REWORK RECORD**

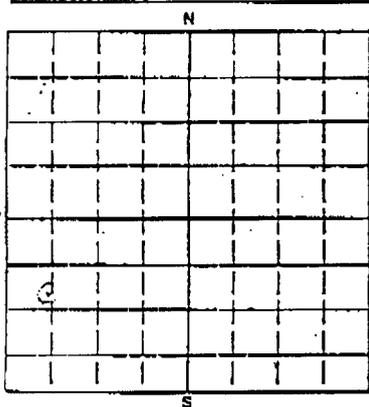
**NAME AND ADDRESS OF PERMITTEE**

Chandler & Associates, Inc.  
475 17th St., Ste. 1000  
Denver, CO 80202

**NAME AND ADDRESS OF CONTRACTOR**

Ross Well Service  
P.O. Box 757  
Roosevelt, Utah 84066

**LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES**



STATE: Utah COUNTY: Uintah

PERMIT NUMBER: UT2765-04248

**SURFACE LOCATION DESCRIPTION**

NW 1/4 OF SW 1/4 OF 1/4 SECTION 16 TOWNSHIP 8S RANGE 22E

**LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT**

Surface Location 1432 ft. from (N/S) S Line of quarter section  
and 637 ft. from (E/W) W Line of quarter section

**WELL ACTIVITY**

- Brine Disposal
- Enhanced Recovery
- Hydrocarbon Storage

Total Depth Before Rework: 5800'

Total Depth After Rework: 5800'

Date Rework Commenced: 12/14/95

Date Rework Completed: 12/23/95

**TYPE OF PERMIT**

- Individual
  - Area
- Number of Wells: \_\_\_\_\_

Well Number:

12-16

Lease Name: Glen Bench

**WELL CASING RECORD — BEFORE REWORK**

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	
8-5/8"	392'	285	"G"			
5-1/2"	5796'	610	super "G"	4960'	4965'	Frac w/28,740#
		304	"G"			

**WELL CASING RECORD — AFTER REWORK (Indicate Additions and Changes Only)**

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

DESCRIBE REWORK OPERATIONS IN DETAIL. USE ADDITIONAL SHEETS IF NECESSARY

**WIRE LINE LOGS, LIST EACH TYPE**

Log Types: \_\_\_\_\_ Logged Intervals: \_\_\_\_\_

Pulled rods & Pump. Make CO run with bit & scraper. Run 5 1/2" ret. pkr, and set at 4880'. Pumped pkr. fluid and performed MIT test. Start injection on 12/23/95 aft BHP Survey.

**CERTIFICATION**

*I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).*

**NAME AND OFFICIAL TITLE (Please type or print)**

James. A. Simonton  
Oil & Gas Supervisor

**SIGNATURE**

**DATE SIGNED**

2/15/96

# Mechanical Integrity Test Casing or Annulus Pressure Test for Well UT2765-04248

U.S. Environmental Protection Agency  
Underground Injection Control Program, UIC Implementation Section, 8WM-DW  
999 18th Street, Suite 500, Denver, CO 80202-2466  
This form was printed on 04/04/1995.

EPA Witness: \_\_\_\_\_ Date 12/16/95 Time 10:00 (am/pm)

Test conducted by: Jim Simonton (Chandler & Assoc.)

Others present: John Jardine (ROSS Well Service)

Chandler & Associates, Inc., Denver, CO	Op ID CHD01
GLEN BENCH STATE #12-16	2R UC as of 03/23/1995
GLEN BENCH	NWSW 16 08S 22E
Indian? Yes,	Compliance staff: Williams

Last MIT: Time (minutes)	Test #1	Test #2	Test #3
0	<u>600</u> psig	_____ psig	_____ psig
5	<u>550</u>	_____	_____
10	<u>540</u>	_____	_____
15	<u>535</u>	_____	_____
20	<u>525</u>	_____	_____
25	<u>500</u>	_____	_____
30	<u>500</u>	_____	_____
35	<u>500</u>	_____	_____
40	<u>500</u>	_____	_____
45	<u>500</u>	_____	_____
50	<u>500</u>	_____	_____
55	<u>500</u>	_____	_____
60	<u>500</u>	_____	_____
Tubing pressure	<u>500</u> psig	_____ psig	_____ psig

Result(circle) Pass Fail                      Pass Fail                      Pass Fail

Signature of \_\_\_\_\_ Witness: James A. Simonton

See back of page for any additional comments and compliance followup.

## BJ Services Company Treatment Report

Date DEC. 23, 1995 District VERNAL F. Receipt 400357 Operator CHANDLER & ASSOC  
 Well Name GLEN BENCH STATE 12-16 Field WHITE RIVER DOME Location SEC 16 T8S R22E  
 County UNTAM State UT Stage No. \_\_\_\_\_

**WELL DATA** New        Old        Depth TD/PS        Formation         
 Tubing Desc. 2 7/8 6.5 Set at:        Type Packer        Set at         
 Casing Desc.        Set From        To        Liner Desc.         
 Liner Set From        To        Open Hole Size        From        To         
 Perforations: Size        Number:        Intervals         
 Previous Treatment N/A Prior Production N/A

<p><b>TREATMENT DATA</b> No Pad <u>      </u> Pad Type <u>      </u>                  Treatment Fluid Type: <u>Water</u> Vol. <u>136</u> Gal.                  Base Fluid Type <u>2% KCL</u> Base Fluid Vol. <u>5712</u> Gal.                  Foam Quality <u>X</u> Total Prop Qty. <u>0</u> Lbc.                  Proppant Description <u>      </u>                  Hole Loaded With <u>2% KCL</u> Treated Via <u>Tubing and Annulus</u>                  Ball Sealers: <u>      </u> In <u>      </u> Stages of <u>      </u>                  Types and Numbers of Pumps Used <u>1 - SLURRY MASTER</u>                  Auxiliary Materials <u>      </u></p>	<p><b>LIQUID/GAS PUMPED &amp; CAPACITIES IN BR</b></p> Tubing Cap. <u>      </u> Casing Cap. <u>      </u> Annular Cap. <u>      </u> Open Hole Cap. <u>      </u> Fluid to Load <u>25</u> Pad Volume <u>0</u> Treating fluid <u>0</u> Flush <u>0</u> Over Flush <u>      </u> Fluid to Recover <u>136</u> Total CO2 <u>      </u> Total N2 <u>      </u>
---	--

TIME MM:SS	TREATING PRESSURE PSI		SURFACE SEALING PUMPED BBLS		SLURRY RATE BPM	SURFACE CO2 PUMPED		CO2 RATE BPM	SURFACE N2 PUMPED MSCF		N2 RATE SCFM	COMMENTS SAFETY MEETING/TEST LINES
	STP	ANNULUS	STAGE	TOTAL		STAGE	TOTAL		STAGE	TOTAL		
1:21	2100											PRESSURE TEST
1:27	170			0	4.8							START DOWN HOLE
1:35	0			28	3.5							SHUT DOWN SWITCH TURBINE
1:37	0				1.9							START WITH 1" TURBINE
1:41	0			10	.5							BACK DOWN TO .5
1:44	99		# 1		1.2							STAGE # 1
1:49	107			10								STOP STAGE # 1
1:53	317		# 2	10	1.4							START STAGE # 2
1:58	341											STOP STAGE # 2
2:00	440		# 3	15	1.8							START STAGE # 3
2:05	530											STOP STAGE # 3
2:09	710		# 4	12	1.8							START STAGE # 4
2:14	770											STOP STAGE # 4
2:15	849		# 5	16	2.0							START STAGE # 5
2:20	889											STOP STAGE # 5

PROCEDURE SUMMARY CONTINUED ON NEXT PAGE



(SOUTH WEST)

# Sub-Surface Pressure Test

Field Glen Bench County Uintah State Utah

Company Chandler & Assoc.

Lease Glen Bench Well No. 12-16

Date 12-17-95 to 12-20-95 Status of Well S.I.

Pay Perforations Datum 4850

Depth Feet	Pressure lbs. sq. in.	Time Interval From Test Start (in hours)	Gradient lbs./ft	
-0-	-0-		.0	Casing Press 400 PSI
3500	169		.048	Tubing Press -0- PSI
4000	235		.132	Oil Level
4500	273		.076	Water Level
4850	444		.489	Hours - Shut In <u>Flowing</u>
				Temp. <u>148°</u> At <u>4850</u>
				Elevation - DF. <u>Ground</u>
				Pressure This Test <u>444 PSI</u>
				Last Test Date
				Press Last Test
				H.P. Change
				Loss/Day
				Choke Size
				Oil Bbls./day
				Water Bbls./day
				Total Bbls./day
				Orifice and Line
				Static and Differential
				Gas Sp. Gr.
				cu. ft./day
				GOR

Instrument	Number	Calibration Date
Amerada	0-3000 PSI	5-18-94

### Calculations and Remarks

Operator on Job Travis Johnson

Test Calculated By George Landry

Witnesses: Company \_\_\_\_\_

State \_\_\_\_\_

LESSON NORTHWEST

G.B. 12-16

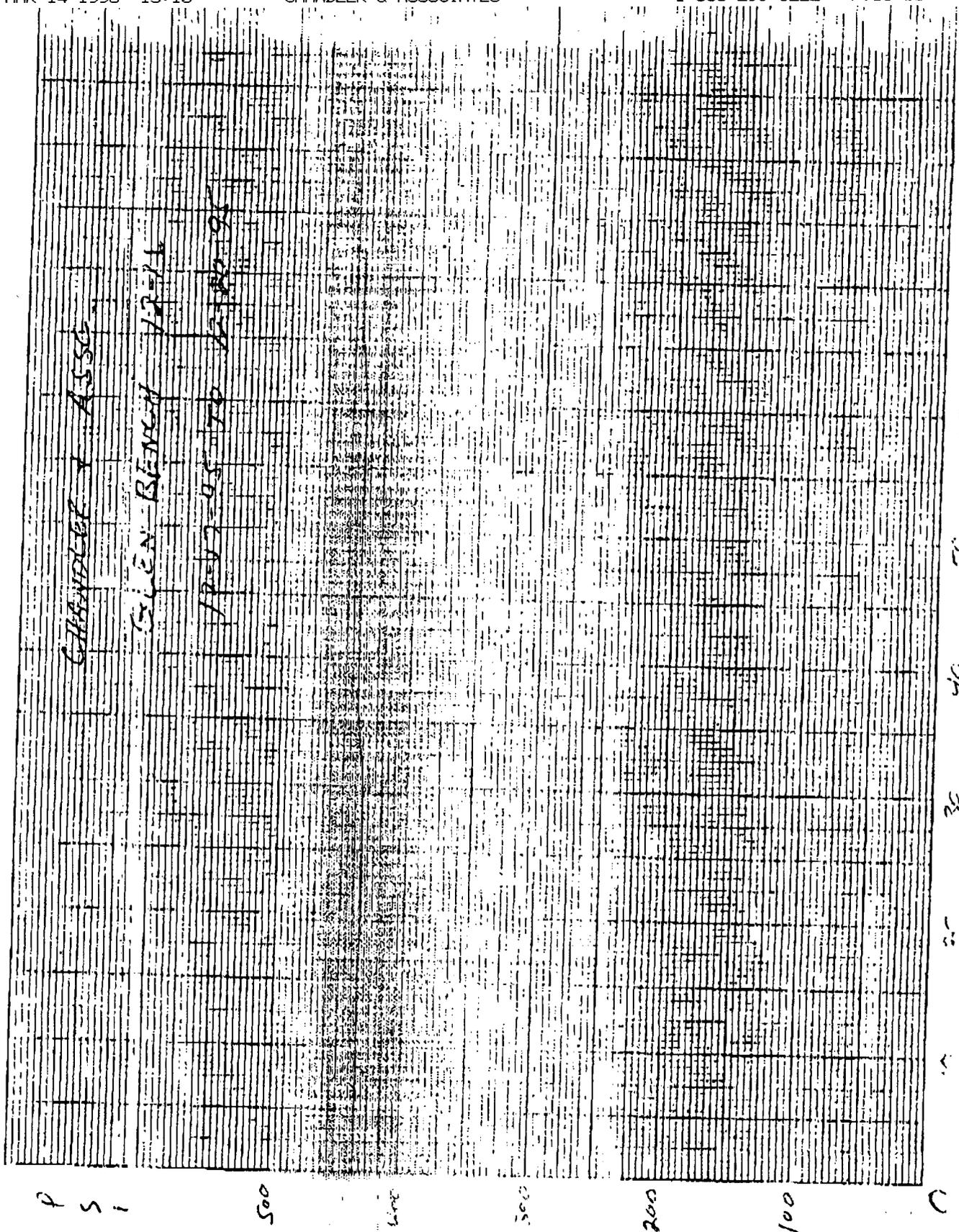
4-5000 PSI

72 hour clock

Depth Feet	Pressure lbs sq in	Time Interval From Test Start at (in hours)
4850	486	on bottom 10:00 AM 12-17-95
	487	6 hrs
	487	12 hrs
	487	18 hrs
	487	24 hrs
	487	30 hrs
	480	36 hrs
	480	42 hrs
	480	48 hrs
	480	54 hrs
	480	60 hrs
	484	66 hrs
	484	72 hrs

K&E CONSULTANTS INC. 10-10-95

46 1320



P S I

500

Line

500

200

100

C

100  
200  
300  
400  
500  
600  
700  
800  
900  
1000



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> <small>(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)</small>		5. LEASE DESIGNATION & SERIAL NO. ML-22049	
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N.A.	
1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME UTU73974X	
2. NAME OF OPERATOR CHANDLER & ASSOCIATES, INC.		8. FARM OR LEASE NAME GLEN BENCH STATE	
3. ADDRESS OF OPERATOR 475 17th ST. #1000		9. WELL NO. 12-16	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface NW SW (1432' FSL, 637' FWL) At proposed prod. zone		10. FIELD AND POOL, OR WILDCAT GLEN BENCH	
		11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA Sec16-T8S-R22E	
14. API NO. 43-047-32583	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4865' KB	12. COUNTY Unitah	13. STATE UT

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

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> SHOOT OR ACIDIZE <input type="checkbox"/> REPAIR WELL <input type="checkbox"/> (Other) <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/> FRACTURE TREATMENT <input type="checkbox"/> SHOOTING OR ACIDIZING <input type="checkbox"/> (Other) <u>conversion to injection</u> <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>
PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPLETE <input type="checkbox"/> ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> ABANDONMENT* <input type="checkbox"/>
APPROX. DATE WORK WILL START _____	DATE OF COMPLETION <u>12/16/95</u>

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

\* Must be accompanied by a cement verification report.

Glen Bench #12-16 was converted to a water injection well for the Glen Bench Secondary Recovery Unit, using existing perforations (4961-4966)

12/15/95 MIRUSU - unseat pump, pull rods & pump, make clean out run with bit & scaper

12/16/95 Run 5½" retaining packer and set at 4880'KB, pump packer fluid down CSG, perform MIT (1hr. test)

12/17/96 Run 72hr. BHP survey

12/22/95 Perform Step Rate Test

12/23/95 Start water injection at 3:30p.m. 12/23/95  
Attached: BHP Survey/Step Rate Test  
Well Rework Record  
MIT

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

SIGNED Tom Egh TITLE Production Geologist DATE 3/14/96

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side

**CHANDLER & ASSOCIATES, INC.**  
**P.O. BOX 418**  
**RANGELY, CO 81648**  
**970-675-8451**  
**970-675-5154(FAX)**

February 15, 1996

TO: Mr. John Carson - Environmental Protection Agency

RE: Glen Bench #12-16 MIT test.

FROM: Jim Simonton

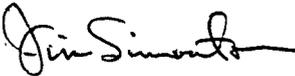
Dear Mr. Carson:

Per our discussion on February 14, 1996, in regard to the MIT test conducted by me on our Glen Bench #12-16 well, Sec. 16-T8S-R22E, Uintah County, Utah, on 12/16/95, the following is an explanation as to the pressure decline from 600 psi to a thirty-five minute test at 500 psi:

Initially, the Glen Bench #12-16 was an oil well and upon EPA approval dated August 9, 1995, the well was converted to a Class II Enhanced Oil Recovery Well in December 1995. Prior to the conversion, a scraper run was made and the well was hot water treated to remove paraffin in the casing. A retrievable packer was run and the annulus filled with 120 degree packer fluid. During the packer fluid circulation some gas cut water was circulated out and continued to have a small amount of gas migrating to surface after the packer was set. I proceeded with the annulus pressure test, with the tubing valve open, to 600 psi. I was trying to obtain a good 500 psi test on the annulus. Once at 600 psi I shut down the pump and noticed small psi bleed-offs. Suspecting gas, I continued to slightly open the casing valve to release entrapped gas. Once the small volume of gas was released the annulus psi held constant at 500 psi. Additionally, during the entire process, the tubing remained dead. On the a/m of 12/17/95, the casing was holding at 495 psi. Once injection commenced, I bled off the casing psi and the casing has remained dead with tubing injection pressures of 580 psi. Also, enclosed you will find the requested copy of the "Well Rework Record."

I sincerely appreciate your cooperation and understanding in this matter and apologize for any additional work it may have caused you or your staff.

Sincerely,



Jim Simonton  
Oil & Gas Supervisor

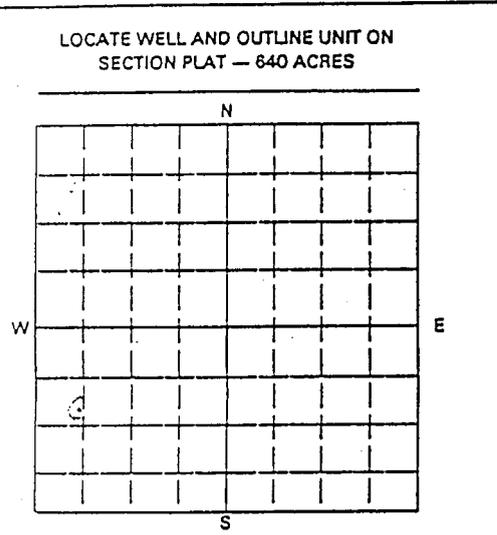
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460



### WELL REWORK RECORD

**NAME AND ADDRESS OF PERMITTEE**  
Chandler & Associates, Inc.  
475 17th St., Ste. 1000  
Denver, CO 80202

**NAME AND ADDRESS OF CONTRACTOR**  
Ross Well Service  
P.O. Box 757  
Roosevelt, Utah 84066



STATE: Utah COUNTY: Uintah PERMIT NUMBER: UT2765-04248

SURFACE LOCATION DESCRIPTION  
NW ¼ OF SW ¼ OF ¼ SECTION 16 TOWNSHIP 8S RANGE 22E

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT  
Surface Location 1432 ft. from (N/S) S Line of quarter section  
and 637 ft. from (E/W) W Line of quarter section

<b>WELL ACTIVITY</b> <input type="checkbox"/> Brine Disposal <input checked="" type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Hydrocarbon Storage  Lease Name Glen Bench	Total Depth Before Rework 5800'	<b>TYPE OF PERMIT</b> <input checked="" type="checkbox"/> Individual <input type="checkbox"/> Area Number of Wells _____  Well Number 12-16
	Total Depth After Rework 5800'	
	Date Rework Commenced 12/14/95	
	Date Rework Completed 12/23/95	

#### WELL CASING RECORD — BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	
8-5/8"	392'	285	"G"			
5-1/2"	5796'	610	super "G"	4960'	4965'	Frac w/28,740#
		304	"G"			

#### WELL CASING RECORD — AFTER REWORK (Indicate Additions and Changes Only)

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

DESCRIBE REWORK OPERATIONS IN DETAIL USE ADDITIONAL SHEETS IF NECESSARY Pulled rods & Pump. Make CO run with bit & scraper. Run 5½" ret. pkr, and set at 4880'. Pumped pkr. fluid and performed MIT test. Start injection on 12/23/95 aft BHP Survey.	WIRE LINE LOGS, LIST EACH TYPE	
	Log Types	Logged Intervals

#### CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print) James. A. Simonton Oil & Gas Supervisor	SIGNATURE 	DATE SIGNED 2/15/96
--	---------------	------------------------

# Mechanical Integrity Test

## Casing or Annulus Pressure Test for Well UT2765-04248

U.S. Environmental Protection Agency  
 Underground Injection Control Program, UIC Implementation Section, 8WM-DW  
 999 18th Street, Suite 500, Denver, CO 80202-2466  
 This form was printed on 04/04/1995.

EPA Witness: \_\_\_\_\_ Date 12/16/95 Time 10:00 (am/pm)  
 Test conducted by: Jim Simonton (Chandler & Assoc.)  
 Others present: John Jardine (Ross Well Service)

<b>Chandler &amp; Associates, Inc., Denver, CO</b> GLEN BENCH STATE #12-16 GLEN BENCH	Op ID CHD01 2R UC as of 03/23/1995 NWSW 16 08S 22E
Indian? Yes,	Compliance staff: Williams

Last MIT:      /      /     

Time (minutes)	Test #1	Test #2	Test #3
0	<u>600</u> psig	_____ psig	_____ psig
5	<u>550</u>	_____	_____
10	<u>540</u>	_____	_____
15	<u>535</u>	_____	_____
20	<u>525</u>	_____	_____
25	<u>500</u>	_____	_____
30	<u>500</u>	_____	_____
35	<u>500</u>	_____	_____
40	<u>500</u>	_____	_____
45	<u>500</u>	_____	_____
50	<u>500</u>	_____	_____
55	<u>500</u>	_____	_____
60	<u>500</u>	_____	_____
Tubing pressure	<u>0</u> psig	_____ psig	_____ psig

Result(circle) Pass Fail                      Pass Fail                      Pass Fail

Signature of \_\_\_\_\_ Witness: Jane A. Simonta

*See back of page for any additional comments and compliance followup.*

## BJ Services Company Treatment Report

Date DEC. 23, 1996 District VERNAL F.Receipt 400357 Operator CHANDLER & ASSOC  
 Well Name GLEN BENCH STATE 12-16 Field WHITE RIVER DOME Location SEC 16 T8S R22E  
 County UNTAH State UT Stage No. \_\_\_\_\_

**WELL DATA** New OR Depth TD/PB \_\_\_\_\_ Formation \_\_\_\_\_  
 Tubing Desc. 2 7/8 6.5 Set at: \_\_\_\_\_ Type Packer \_\_\_\_\_ Set at \_\_\_\_\_  
 Casing Desc. \_\_\_\_\_ Set From \_\_\_\_\_ To \_\_\_\_\_ 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. 136 Gal.  
 Base Fluid Type 2% KCL Base Fluid Vol. 5712 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 - SLURRY MASTER  
 Auxiliary Materials \_\_\_\_\_

**LIQUID/GAS PUMPED & CAPACITIES IN BBL**  
 Tubing Cap. \_\_\_\_\_  
 Casing Cap. \_\_\_\_\_  
 Annular Cap. \_\_\_\_\_  
 Open Hole Cap. \_\_\_\_\_  
 Fluid to Load 25  
 Pad Volume 0  
 Treating fluid 0  
 Flush 0  
 Over Flush \_\_\_\_\_  
 Fluid to Recover 136  
 Total CO2 \_\_\_\_\_  
 Total N2 \_\_\_\_\_

**PROCEDURE SUMMARY**

TIME AM/PM	TREATING PRESSURE PST		SURFACE SLURRY PUMPED BBL'S		SLURRY RATE BPM	SURFACE CO2 PUMPED		CO2 RATE BPM	SURFACE N2 PUMPED MSCF		N2 RATE SCFM	COMMENTS SAFETY MEETING/TEST LINES
	STP	ANNULUS	STAGE	TOTAL		STAGE	TOTAL		STAGE	TOTAL		
1:21	2100											PRESSURE TEST
1:27	170			-0-	4.6							START DOWN HOLE
1:35	-0-			28	3.5							SHUT DOWN SWITCH TURBINE
1:37	-0-				1.9							START WITH 1" TURBINE
1:41	-0-			10	.5							BACK DOWN TO .5
1:44	99		# 1		1.2							STAGE # 1
1:49	107			10								STOP STAGE # 1
1:53	317		# 2	10	1.4							START STAGE # 2
1:58	341											STOP STAGE # 2
2:00	440		# 3	15	1.6							START STAGE # 3
2:05	530											STOP STAGE # 3
2:09	710		# 4	12	1.8							START STAGE # 4
2:14	770											STOP STAGE # 4
2:15	849		# 5	16	2.0							START STAGE # 5
2:20	889											STOP STAGE # 5

PROCEDURE SUMMARY CONTINUED ON NEXT PAGE



DELSICO NORTHWEST

# Sub-Surface Pressure Test

Field Glen Bench County Uintah State Utah  
 Company Chandler & Assoc.  
 Lease Glen Bench Well No. 12-16  
 Date 12-17-95 to 12-20-95 Status of Well S.I.  
 Pay \_\_\_\_\_ Perforations \_\_\_\_\_ Datum 4850

Depth Feet	Pressure lbs. sq. in.	Pipe Interval From Test Point At (in hours)	Gradient lbs./ft
-0-	-0-		0
3500	169		048
4000	235		132
4500	273		076
4850	444		489

Casing Press 400 PSI  
 Tubing Press -0- PSI  
 Oil Level \_\_\_\_\_  
 Water Level \_\_\_\_\_  
 Hours - Shut In \_\_\_\_\_ Flowing \_\_\_\_\_  
 Temp. 148° At 4850  
 Elevation - D.F. \_\_\_\_\_ Ground \_\_\_\_\_  
 Pressure This Test 444 PSI  
 Last Test Date \_\_\_\_\_  
 Press Last Test \_\_\_\_\_  
 H.P. Change \_\_\_\_\_  
 Loss/Day \_\_\_\_\_  
 Choke Size \_\_\_\_\_  
 Oil Bbls./day \_\_\_\_\_  
 Water Bbls./day \_\_\_\_\_  
 Total Bbls./day \_\_\_\_\_  
 Orifice and Line \_\_\_\_\_  
 Static and Differential \_\_\_\_\_  
 Gas Sp. Gr. \_\_\_\_\_  
 Cu. ft./day \_\_\_\_\_  
 GOR \_\_\_\_\_

Instrument Amerada Number 0-3000 PSI Calibration Date 5-18-94

### Calculations and Remarks

Operator on Job Travis Johnson  
 Test Calculated By George Landry  
 Witnesses: Company \_\_\_\_\_  
 State \_\_\_\_\_

DELSCO NORTHWEST

G.B. 12-16

0-3000 PSI

72 hour clock

Depth Feet	Pressure lb/sq in	Time Interval From Test Start at (in hours)
4850	486	on bottom 10:00 AM 12-17-95
	487	6 hrs
	488	12 hrs
	487	18 hrs
	487	24 hrs
	487	30 hrs
	480	36 hrs
	480	42 hrs
	480	48 hrs
	480	54 hrs
	480	60 hrs
	444	66 hrs
	444	72 hrs

P S I

500

600

500

200

100

C

CHANDLER ASSOC

GREEN BENCH 12-16

12-17-95 TO 12-20-95

0 10 20 30 40 50 60 70 80 90 100



# SHENANDOAH ENERGY INC.

---

11002 East 17500 South  
Vernal, Utah 80478  
(435) 781-4300  
Fax (435) 781-4329

April 24, 2000

## MECHANICAL INTEGRITY TESTS

Glen Bench State #12-16

EPA ID# UT2765-04248

Glen Bench Unit

Uintah County, Utah

Mr. Bahram Jafari  
Underground Injection Control Program  
United States Environmental Protection Agency  
Region VIII  
999 18th Street - Suite 500  
Denver, Colorado 80202-2466

**RECEIVED**

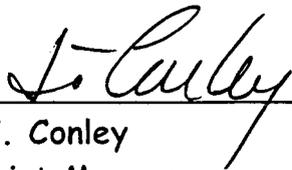
APR 26 2000

DIVISION OF  
OIL, GAS AND MINING

Dear Mr. Jafari,

Results of a recent mechanical integrity test for the captioned well are enclosed. If you have any questions or comments, please contact me at (435) 781-4301.

Sincerely,



---

J. T. Conley  
District Manager

cc Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P. O. Box 145801  
Salt Lake City, UT 84114-5801  
Attn. Mr. Gil Hunt

U.S Department of the Interior  
Bureau of Land Management  
Vernal District Office  
170 South 500 East  
Vernal, UT 84078

# Mechanical Integrity Test Casing or Annulus Pressure Test

U.S. Environmental Protection Agency (8ENF-T)  
Underground Injection Control Program, UIC Implementation Section, ~~888888~~  
999 18th Street, Suite 500, Denver, CO 80202-2466

EPA Witness: NATHAN WISER Date 4/20/00 Time 1:42 am/pm (pm)  
Test conducted by: MIKE JOHNSON, BIG RED HOT OIL SERVICE  
Others present: JOHN CONLEY, SHEMWOOD ENERGY INC.

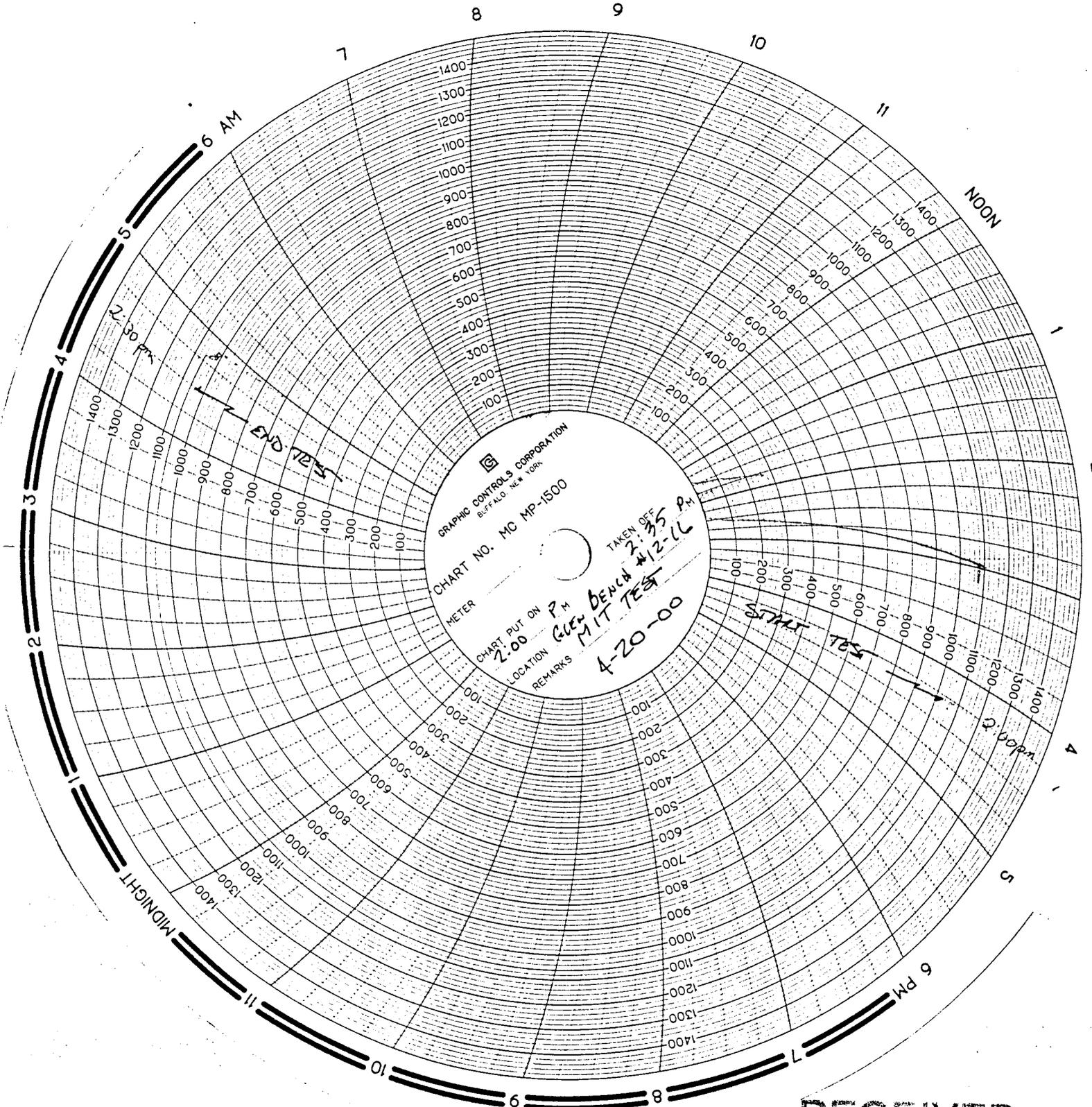
Well: <u>GLEN BENCH STATE # 12-16</u>	Well ID: <u>UT 2765-04248</u>
Field: <u>GLEN BENCH 43-047-32583</u>	Company: <u>SHEMWOOD ENERGY INC.</u>
Well Location: <u>NWSW 516-T 85-R22E</u>	Address: <u>11002 E 17500 S</u> <u>VENN, UT 84078</u>

BEFORE TEST = 775 psig  
CASING PRESS

Time	Test #1	Test #2	Test #3
2:00 pm 0 min	<u>1060</u> psig	_____ psig	_____ psig
2:05 pm 5	<u>1060</u>	_____	_____
2:10 pm 10	<u>1060</u>	_____	_____
2:15 pm 15	<u>1060</u>	_____	_____
<del>2:20</del> 20	<u>No reading</u>	_____	_____
2:26 pm 25	<u>1060</u>	<b>RECEIVED</b>	
2:30 pm 30 min	<u>1060</u>	_____	_____
2:30 pm 35	_____	_____	_____
40	_____	_____	_____
45	_____	_____	_____
50	_____	_____	_____
55	_____	_____	_____
60 min	_____	_____	_____

START Tubing press 725 psig \_\_\_\_\_ psig \_\_\_\_\_ psig  
END TUBING PRESS 725 psig  
Result (circle) Pass Fail Pass Fail Pass Fail

Signature of EPA Witness: Nathan M. Wiser  
See back of page for any additional comments & compliance followup.



**RECEIVED**

APR 26 2000

DIVISION OF  
OIL, GAS AND MINING

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

<p><b>SUNDRY NOTICES AND REPORTS ON WELLS</b></p> <p>Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.                  Use APPLICATION FOR PERMIT -- for such proposals</p>		6. Lease Designation and Serial Number
		7. Indian Allottee or Tribe Name
		8. Unit or Communitization Agreement
		9. Well Name and Number
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)		10. API Well Number
2. Name of Operator Shenandoah Energy Inc.		11. Field and Pool, or Wildcat
3. Address of Operator 475 17th Street, Suite #1000 Denver, Colorado 80202		4. Telephone Number 303-295-0400
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"><b>NOTICE OF INTENT</b> (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"><b>SUBSEQUENT REPORT</b> (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 <u>Change of Operator</u></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 <u>Change of Operator</u>	
<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction																										
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing																										
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> 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 _____																											
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<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing																										
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize																										
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<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off																										
<input checked="" type="checkbox"/> Other <u>Change of Operator</u>																											

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)

**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
43-047-15090-00	04915	WRU	#31-4	SWSE 4, 8S-22E	WHITE RIVER		GREENRIVER	WSW	8910035090
43-047-15081-00	04915	WRU	#16-9	SWSE 9, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	891003509D
43-047-15084-00	04915	WRU	#20-9	NESW 9, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	891003509D
43-047-15087-00	04915	WRU	#25-9	NENE 9, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	891003509D
43-047-31354-00	05170	WRU	#43-16	NENW 16, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	
43-047-31399-00	09915	WRU	#45-16	NENE 16, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	
43-047-32052-00	11468	DESERT SPRINGS FED.	#20-1	NESW 20, 10S-18E	WILDCAT	GRRV	GREEN RIVER	OW	
43-013-32088-00	12497	W. DESERT SPRING	#11-20	NESW 20, 10S-17E	WILDCAT	WSTC	WASATCH	OW	
43-013-32057-00	12497	W. RIVER BEND	#16-17-10-17	SESE 17, 10S-17E	WILDCAT	GRRV	GREEN RIVER	OW	
43-013-31888-00	12497	W. RIVER BEND	#3-12-10-15	NENW 12, 10S-15E	WILDCAT	GRRV	GREEN RIVER	OW	
43-013-32084-00	12497	WILKIN RIDGE	#13-23	SWSW 23, 10S-16E	WILDCAT	WSTC	GREEN RIVER	OW	
43-047-33163-00		DESERT SPRING	#7-30-10-18	SWNE 30, T10S-R18E	APD	WSTC			

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MAY 30 2000

DIVISION OF  
OIL, GAS AND MINING

# 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	
43-047-31433-00	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



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155

In Reply Refer To:  
3100  
U-058 et al  
(UT-932)

JUN 5 2000

### NOTICE

Shenandoah Operating Company, LLC : Oil and Gas Leases  
475 17<sup>th</sup> Street, Suite 1000 :  
Denver, CO 80202 :

#### Name Change Recognized

Acceptable evidence has been received in this office concerning the change of name of Chandler & Associates, LLC to Shenandoah Operating Company, LLC on Federal oil and gas leases.

The oil and gas lease files identified on the enclosed exhibit have been noted as to the name change. The exhibit was compiled from a list of leases obtained from our automated records system. We have not abstracted the lease files to determine if the entity affected by the name change holds an interest in the leases identified nor have we attempted to identify leases where the entity is the operator on the ground maintaining no vested record title or operating rights interests. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the name change by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

A rider to statewide Surety Bond No. 124 29 03 64 (BLM Bond No. UT0969) changing the name on the bond from Chandler & Associates, LLC to Shenandoah Energy Inc. has been accepted by this office effective January 26, 2000. However, the rider makes no mention of Shenandoah Operating Company, LLC. A rider to the above bond adding the name of Shenandoah Operating Company, LLC needs to be submitted to this office.

**/s/ Robert Lopez**

Robert Lopez  
Chief, Branch of  
Minerals Adjudication

Enclosure  
Exhibit of Leases

RECEIVED

JUN 06 2000

DIVISION OF  
OIL, GAS AND MINING



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155

IN REPLY REFER TO  
UT-931

August 24, 2000

Attn: Scott M. Webb  
Shenandoah Energy Inc.  
465 17<sup>th</sup> Street, Suite 1000  
Denver, Colorado 80202

Re: Glen Bench Unit  
Uintah County, Utah

Gentlemen:

On August 24, 2000, we received an indenture dated August 18, 2000, whereby Shenandoah Operating Company, L.L.C. resigned as Unit Operator and Shenandoah Energy Inc. was designated as Successor Unit Operator for the Glen Bench Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective August 24, 2000. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Glen Bench Unit Agreement.

Your statewide (Utah) oil and gas bond No. 0969 will be used to cover all operations within the Glen Bench Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks  
Chief, Branch of Fluid Minerals

### Enclosure

bcc: Field Manager - Vernal (w/enclosure)  
Division of Oil, Gas & Mining  
Minerals Adjudication Group U-932  
File - Glen Bench Unit (w/enclosure)  
MMS - Data Management Division  
Agr. Sec. Chron  
Fluid Chron

UT931:TAThompson:tt:8/24/00

## Results of query for MMS Account Number UTU73974X

API Number	Operator	Well Name	Well Status	Lease or CA Number	Inspection Item	Township	Range	Section	Qu
4304731008	CHANDLER & ASSOCIATES LLC	31-30 GLEN BENCH	POW	UTU9617	UTU73974X	8S	22E	30	NW
4304731257	CHANDLER & ASSOCIATES LLC	44-19 GLENBENCH	ABD	UTU9617	UTU73974X	8S	22E	19	SE
4304731260	CHANDLER & ASSOCIATES LLC	22-30 BENCH GLEN	TA	UTU9617	UTU73974X	8S	22E	30	SE
4	CHANDLER & ASSOCIATES LLC								
4304731355	CHANDLER & ASSOCIATES LLC	13-20 NGC	POW	UTU9617	UTU73974X	8S	22E	20	NW
4304731356	CHANDLER & ASSOCIATES LLC	22-20 NGC	WIW	UTU69001	UTU73974X	8S	22E	20	SE
4304731399	CHANDLER & ASSOCIATES LLC	45-16 WHITE RIVER	POW	STATE	UTU73974X	8S	22E	16	NE
4304731433	CHANDLER & ASSOCIATES LLC	31-20 FEDERAL	POW	UTU69001	UTU73974X	8S	22E	20	NW
4304731555	CHANDLER & ASSOCIATES LLC	2-17-4C ANTELOPE	POW	UTU65276	UTU73974X	8S	22E	17	SE
4304731556	CHANDLER & ASSOCIATES LLC	3-17-3C ANTELOPE	POW	UTU65276	UTU73974X	8S	22E	17	SE
	CHANDLER								

4304732476	& ASSOCIATES LLC	GLEN BENCH 8-19	POW	UTU65404	UTU73974X	8S	22E	19	SEI
4304732549	CHANDLER & ASSOCIATES LLC	GLEN BENCH 6-16	POW	STATE	UTU73974X	8S	22E	16	SEI
4304732582	CHANDLER & ASSOCIATES LLC	GLEN BENCH 7-16	WIW	STATE	UTU73974X	8S	22E	16	SW
4304732583	CHANDLER & ASSOCIATES LLC	GLEN BENCH 12-16	WIW	STATE	UTU73974X	8S	22E	16	NW
4304732718	CHANDLER & ASSOCIATES LLC	GLEN BENCH 8-17	P+A	UTU65276	UTU73974X	8S	22E	17	SEI
4304732755	CHANDLER & ASSOCIATES LLC	4-30-8-22	POW	UTU9617	UTU73974X	8S	22E	30	NW
4304732756	CHANDLER & ASSOCIATES LLC	GLEN BENCH 15-19	<del>POW</del> WIW	UTU9617	UTU73974X	8S	22E	19	SW
4304732857	CHANDLER & ASSOCIATES LLC	GLEN B 11-16-8-22	POW	STATE	UTU73974X	8S	22E	16	NE

*DISCLAIMER for online data: No warranty is made by the BLM for use of the data for purposes not intended by the BLM.*

**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		Field or Unit Name
Footage : _____	County : _____	Lease Designation and Number
QQ, Section, Township, Range: _____	State : UTAH	

**EFFECTIVE DATE OF TRANSFER:** \_\_\_\_\_

**CURRENT OPERATOR**

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

**NEW OPERATOR**

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

(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, 7-16, 15-19.

**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. GLH		4-KAS ✓
2. CDW		5- <del>CDW</del> ✓
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**

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

<b>TO:</b> ( 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

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**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 11/02/2000
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 11/02/2000
3. Bond information entered in RBDMS on: 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

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**FEE WELLS - BOND VERIFICATION/LEASE INTEREST OWNER NOTIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed has furnished a bond: N/A
2. The **FORMER** operator has requested a release of liability from their bond on: N/A  
The Division sent response by letter on: N/A
3. (R649-2-10) The **FORMER** operator of the Fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: \_\_\_\_\_

---

**FILMING:**

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

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**FILING:**

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

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**COMMENTS:**

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May 28, 2003

Division of Oil, Gas, & Mining  
1594 West North Temple, Suite 1210  
P. O. Box 145801  
Salt Lake City, Utah 84114-5801

**Attention: John Baza/Jim Thompson**

Gentlemen:

This will serve as notice that through the internal corporate changes described below, activities formerly conducted in the name of either Shenandoah Operating Company, LLC (SOC) and/or Shenandoah Energy, Inc. (SEI) will hereafter be conducted in the name of QEP Uinta Basin, Inc.: i) the Shenandoah entities were purchased in July, 2001 by Questar Market Resources, Inc., which is a mid-level holding company for the non-utility businesses of Questar Corporation, ii) Shenandoah Operating Company, LLC has now been merged into Shenandoah Energy, Inc. (SEI), iii) Shenandoah Energy, Inc. has now been re-named **QEP Uinta Basin, Inc.** pursuant to a State of Delaware Amended and Restated Certificate of Incorporation, iv) the same employees will continue to be responsible for operations of the former SOC and SEI properties, both in the field and in the office. Accordingly, the change involves only an internal corporate name change and no third party change of operator is involved. Please alter your records to reflect the entity name change. Attached is a spreadsheet listing all wells affected by this change.

Should you have any questions, please call me at 303 - 308-3056.

Yours truly,

Frank Nielsen  
Division Landman

Enclosure

RECEIVED

JUN 02 2003

DIV. OF OIL, GAS & MINING



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, UT 84145-0155

IN REPLY REFER TO  
UT-922

June 9, 2003

QEP Uinta Basin, Inc.  
1050 17<sup>th</sup> Street, Suite 500  
Denver, Colorado 80265

Re: Glen Bench Enhanced Recovery Unit  
Uintah County, Utah

Gentlemen:

On May 30, 2003, we received an indenture dated February 1, 2003, whereby Shenandoah Energy, Inc. changed its name and QEP Uinta Basin, Inc. was designated as Successor Unit Operator for the Glen Bench Enhanced Recovery Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective June 9, 2003. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under Glen Bench Enhanced Recovery Unit Agreement.

Your nationwide (Eastern States) oil and gas bond No. B000024 will be used to cover all operations within the Glen Bench Enhanced Recovery Unit.

It is requested that you notify all interested parties of the name change of unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks  
Chief, Branch of Fluid Minerals

Enclosure

bcc: Field Manager - Vernal (w/enclosure)  
SITLA  
Division of Oil, Gas & Mining  
Minerals Adjudication Group  
File – Glen Bench Enhanced Recovery Unit (w/enclosure)  
Agr. Sec. Chron  
Fluid Chron

UT922:TAThompson:tt:6/9/03

**JUL 07 2003**

3104 (932.34)WF  
Nationwide Bond ESB000024

NOTICE

QEP Uinta Basin, Inc.  
1050 17<sup>th</sup> Street Suite 500  
Denver, Colorado 80265

:  
: Oil and Gas  
: lease  
:

Name Change Recognized

Acceptable evidence has been filed in this office concerning the name change of Shenandoah Energy Incorporated into QEP Uinta Basin, Incorporated. QEP Uinta Basin, Incorporated is the surviving entity. This name change is recognized effective April 17, 2003.

Eastern States will notify the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice.

If you identify other leases in which the merging entity maintain an interest, please contact this office and we will appropriately document those files with a copy of this notice.

If you have any questions, please contact Bill Forbes at 703-440-1536.

*S/ Wilbert B. Forbes*

Wilbert B. Forbes  
Land Law Examiner  
Branch of Use Authorization  
Division of Resources Planning,  
Use and Protection

bc: JFO, MMS, ES RF, 930 RF, 932.34 RF, E-932: wbf:07 /07/03:440-1536/ QEP Uinta Basin  
MFU

**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: Technical 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

**X** Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective:		<b>2/1/2003</b>
<b>FROM:</b> (Old Operator):	<b>TO:</b> ( New Operator):	
N4235-Shenandoah Energy Inc 11002 E 17500 S Vernal, UT 84078-8526 Phone: (435) 781-4341	N2460-QEP Uinta Basin Inc 11002 E 17500 S Vernal, UT 84078-8526 Phone: (435) 781-4341	

**CA No. Unit:**

<b>WELL(S)</b>										Confid
NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS		
<b>BRENNAN BOTTOM UNIT</b>										
BRENNAN FED 5	18	070S	210E	4304715420	5261	Federal	WI	A		
BRENNAN FED 11	18	070S	210E	4304732772	5261	Federal	WI	A		
<b>GLEN BENCH UNIT</b>										
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		
<b>GYPSUM HILLS UNIT</b>										
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 concerning 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:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**QEP Uinta Basin, Inc.**  
 11002 East 17500 South  
 Vernal, UT 84078  
 Tel 435 781 4300 • Fax 435 781 4329

S. L. Tomkinson  
 Phone: 435-781-4308  
 Fax: 435-781-4329  
 Email: [Stephanie.Tomkinson@questar.com](mailto:Stephanie.Tomkinson@questar.com)

April 19, 2005

Via Certified Mail: 7003 2260 0007 1318 6855

Nathan Wisner (8ENF-UFO)  
 UIC Program  
 U.S. EPA, Region VIII  
 999 18<sup>th</sup> Street, Suite 300  
 Denver, Colorado 80202-2466

*RE: Mechanical Integrity Test (MIT)  
 for  
 GB 12-16  
 EPA # UT2765-04248  
 API #43-047-32583  
 Location: NWSW Section 16 T8S R22E*

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

Dear Mr. Wisner:

Enclosed for the subject well is the successful MIT result including the Casing or Annulus Pressure Test form and the pressure test chart. The MIT for this well is a regularly scheduled test.

If you have any questions or require additional information, I can be reached at 435-781-4308.

Sincerely,

Stephanie L. Tomkinson  
 Regulatory Affairs Technician

**RECEIVED  
 APR 21 2005**

Enclosures: MIT Casing or Annulus Pressure Test Form  
 MIT Results Spreadsheet with Pressure Test Chart

DIV. OF OIL, GAS & MINING

cc: Utah Division of Oil Gas and Mining  
 1594 West North Temple, Suite 1210  
 P.O. Box 145801  
 Salt Lake City, Utah 84114-5801  
 Attn: Mr. Gil Hunt

U.S. Department of the Interior  
 Bureau of Land Management  
 Vernal District Office  
 170 South 500 East  
 Vernal, Utah 84078  
 Attn: Mr. Kirk Fleetwood

# MECHANICAL INTEGRITY TEST CASING OR ANNULUS PRESSURE TEST

U.S. ENVIRONMENTAL PROTECTION AGENCY  
UNDERGROUND INJECTION CONTROL PROGRAM, UIC IMPLEMENTATION SECTION (8P-W-GW)  
999 18TH STREET, SUITE 300, DENVER, CO. 80202-2466

EPA WITNES NO \_\_\_\_\_ DATE: 4/15/2005 TIME: 7:30  AM  PM

TEST CONDUCTED BY: DENNIS J. PAULSON (QUESTAR)

OTHERS PRESENT: Kevin Carter (Advantage oilfield services)

API NUMBER: \_\_\_\_\_ EPA ID NUMBER: \_\_\_\_\_

WELL NAME: <u>GB 12-16</u>	TYPE: <input checked="" type="checkbox"/> ER <input type="checkbox"/> SWD	STATUS: <input checked="" type="checkbox"/> AC <input type="checkbox"/> TA <input type="checkbox"/> UC
FIELD: <u>GLEN BENCH</u>		
WELL LOCATION: <u>NW-SW SEC-16</u>	T8 <input type="checkbox"/> N <input checked="" type="checkbox"/> S	R22 <input checked="" type="checkbox"/> E <input type="checkbox"/> W COUNTY: <u>UINTAH</u> STATE: <u>UTAH</u>
OPERATOR: <u>QEP UINTA BASIN INC.</u>		
LAST MIT: <u>APRIL 20,2000</u>	MAXIMUM ALLOWABLE PRESSURE: <u>1345</u>	PSIG

IS THIS A REGULAR SCHEDULED TEST?  YES  NO API# 43-047-32583

INITIAL TEST FOR PERMIT?  YES  NO EPA# UT2765-04248

TEST AFTER WELL WORK?  YES  NO

WELL INJECTING DURING TEST?  YES  NO IF YES, RATE: 181 BPD

PRE-TEST CASING/TUBING ANNULUS PRESSURE: \_\_\_\_\_ 0 :PSIG note: pump shut down during test.

MIT DATA TABLE	TEST #1	TEST #2	TEST #3
----------------	---------	---------	---------

TUBING	PRESSURE		
INITIAL PRESSURE	<u>1285</u> PSIG	PSIG	PSIG
END OF TEST PRESSURE	<u>1176</u> PSIG	PSIG	PSIG

CASING/TUBING	ANNULUS	TUBING	
0 MINUTES	<u>1059.5 @7:41:02</u> PSIG	<u>1285</u> PSIG	PSIG
5 MINUTES	<u>1059.8 @7:46:02</u> PSIG	<u>1286</u> PSIG	PSIG
10 MINUTES	<u>1053.9 @7:51:05</u> PSIG	<u>1247</u> PSIG	PSIG
15 MINUTES	<u>1047.6 @7:56:03</u> PSIG	<u>1233</u> PSIG	PSIG
20 MINUTES	<u>1041.4 @8:01:12</u> PSIG	<u>1259</u> PSIG	PSIG
25 MINUTES	<u>1035.8 @8:06:12</u> PSIG	<u>1153</u> PSIG	PSIG
30 MINUTES	<u>1030.8 @8:11:15</u> PSIG	<u>1176</u> PSIG	PSIG
MINUTES	PSIG	PSIG	PSIG
MINUTES	PSIG	PSIG	PSIG

RESULT	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL
--------	--	-------------------------------	-------------------------------	-------------------------------	-------------------------------	-------------------------------

DOES THE ANNULUS PRESSURE BUILD BACK UP AFTER THE TEST?  YES  NO

3000 PSIG 7049-1 2 DEC 4

DATE	MONTH	YEAR	TIME	FILE	SAMPLE	CASING PSIG	TUBING PSIG	AMBIENT TEMP
15 APR		2005	7:38:52		1	1	0	60
15 APR		2005	7:39:02		1	2	0	60
15 APR		2005	7:39:13		1	3	0	60
15 APR		2005	7:39:25		1	4	0	60
15 APR		2005	7:39:32		1	5	0	60
15 APR		2005	7:39:42		1	6	0	60
15 APR		2005	7:39:52		1	7	0	60
15 APR		2005	7:40:02		1	8	94.76	60
15 APR		2005	7:40:12		1	9	276.27	60
15 APR		2005	7:40:23		1	10	544.2	60
15 APR		2005	7:40:35		1	11	798.6	60
15 APR		2005	7:40:42		1	12	983	60
15 APR		2005	7:40:52		1	13	1066.8	60
15 APR		2005	7:41:02		1	14	1059.5	1285 60
15 APR		2005	7:41:12		1	15	1056.8	59
15 APR		2005	7:41:23		1	16	1056.4	59
15 APR		2005	7:41:35		1	17	1055.6	59
15 APR		2005	7:41:42		1	18	1056.7	59
15 APR		2005	7:41:52		1	19	1056.3	59
15 APR		2005	7:42:02		1	20	1056.6	59
15 APR		2005	7:42:12		1	21	1057	59
15 APR		2005	7:42:23		1	22	1057.1	59
15 APR		2005	7:42:35		1	23	1057.4	59
15 APR		2005	7:42:42		1	24	1057.6	59
15 APR		2005	7:42:52		1	25	1057.8	59
15 APR		2005	7:43:02		1	26	1058	59
15 APR		2005	7:43:12		1	27	1058.2	59
15 APR		2005	7:43:22		1	28	1058.4	59
15 APR		2005	7:43:33		1	29	1058.5	59
15 APR		2005	7:43:45		1	30	1058.6	59
15 APR		2005	7:43:52		1	31	1058.8	59
15 APR		2005	7:44:02		1	32	1058.9	59
15 APR		2005	7:44:12		1	33	1059	59
15 APR		2005	7:44:22		1	34	1059.1	59
15 APR		2005	7:44:33		1	35	1059.2	59
15 APR		2005	7:44:45		1	36	1059.3	59
15 APR		2005	7:44:52		1	37	1059.4	59
15 APR		2005	7:45:02		1	38	1059.5	59
15 APR		2005	7:45:12		1	39	1059.6	59
15 APR		2005	7:45:22		1	40	1059.6	59
15 APR		2005	7:45:33		1	41	1059.7	59
15 APR		2005	7:45:45		1	42	1059.8	59
15 APR		2005	7:45:52		1	43	1059.8	59
15 APR		2005	7:46:02		1	44	1059.8	1286 59
15 APR		2005	7:46:12		1	45	1059.6	59
15 APR		2005	7:46:22		1	46	1059.3	59
15 APR		2005	7:46:32		1	47	1059	59
15 APR		2005	7:46:43		1	48	1058.8	59
15 APR		2005	7:46:55		1	49	1058.6	59
15 APR		2005	7:47:02		1	50	1058.4	59
15 APR		2005	7:47:12		1	51	1058.2	59
15 APR		2005	7:47:22		1	52	1058	59
15 APR		2005	7:47:32		1	53	1057.8	59
15 APR		2005	7:47:43		1	54	1057.6	59
15 APR		2005	7:47:55		1	55	1057.5	59
15 APR		2005	7:48:02		1	56	1057.4	58
15 APR		2005	7:48:12		1	57	1057.2	58
15 APR		2005	7:48:22		1	58	1057	58
15 APR		2005	7:48:32		1	59	1056.8	58
15 APR		2005	7:48:43		1	60	1056.7	58
15 APR		2005	7:48:55		1	61	1056.5	58
15 APR		2005	7:49:02		1	62	1056.3	58
15 APR		2005	7:49:12		1	63	1056.1	58
15 APR		2005	7:49:22		1	64	1055.9	58
15 APR		2005	7:49:32		1	65	1055.7	58
15 APR		2005	7:49:42		1	66	1055.5	58

3000 PSIG 7049-1 2 DEC

4

DATE	MONTH	YEAR	TIME	FILE	SAMPLE	CASING PSIG	TUBING PSIG	AMBIENT TEMP
15 APR		2005	7:49:53		1	67	1055.3	58
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15 APR		2005	7:50:32		1	71	1054.5	58
15 APR		2005	7:50:42		1	72	1054.3	58
15 APR		2005	7:50:53		1	73	1054.1	58
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15 APR		2005	7:51:12		1	75	1053.7	58
15 APR		2005	7:51:22		1	76	1053.5	58
15 APR		2005	7:51:32		1	77	1053.3	58
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15 APR		2005	7:52:05		1	80	1052.6	58
15 APR		2005	7:52:12		1	81	1052.4	58
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15 APR		2005	7:53:32		1	89	1050.7	58
15 APR		2005	7:53:42		1	90	1050.5	58
15 APR		2005	7:53:52		1	91	1050.3	58
15 APR		2005	7:54:03		1	92	1050.1	58
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15 APR		2005	7:54:42		1	96	1049.3	57
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15 APR		2005	7:56:22		1	106	1047.2	57
15 APR		2005	7:56:32		1	107	1047	57
15 APR		2005	7:56:42		1	108	1046.8	57
15 APR		2005	7:56:52		1	109	1046.6	57
15 APR		2005	7:57:02		1	110	1046.4	57
15 APR		2005	7:57:13		1	111	1046.2	57
15 APR		2005	7:57:25		1	112	1046	57
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15 APR		2005	7:57:42		1	114	1045.6	57
15 APR		2005	7:57:52		1	115	1045.4	57
15 APR		2005	7:58:02		1	116	1045.1	57
15 APR		2005	7:58:13		1	117	1044.9	57
15 APR		2005	7:58:25		1	118	1044.7	57
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15 APR		2005	7:58:52		1	121	1044.1	57
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15 APR		2005	7:59:13		1	123	1043.7	57
15 APR		2005	7:59:25		1	124	1043.5	57
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15 APR		2005	7:59:42		1	126	1043.1	57
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15 APR		2005	8:00:02		1	128	1042.7	57
15 APR		2005	8:00:12		1	129	1042.5	57
15 APR		2005	8:00:23		1	130	1042.3	57
15 APR		2005	8:00:35		1	131	1042.2	57
15 APR		2005	8:00:42		1	132	1042	57

1247 58 INJECTION PUMP WENT DOWN

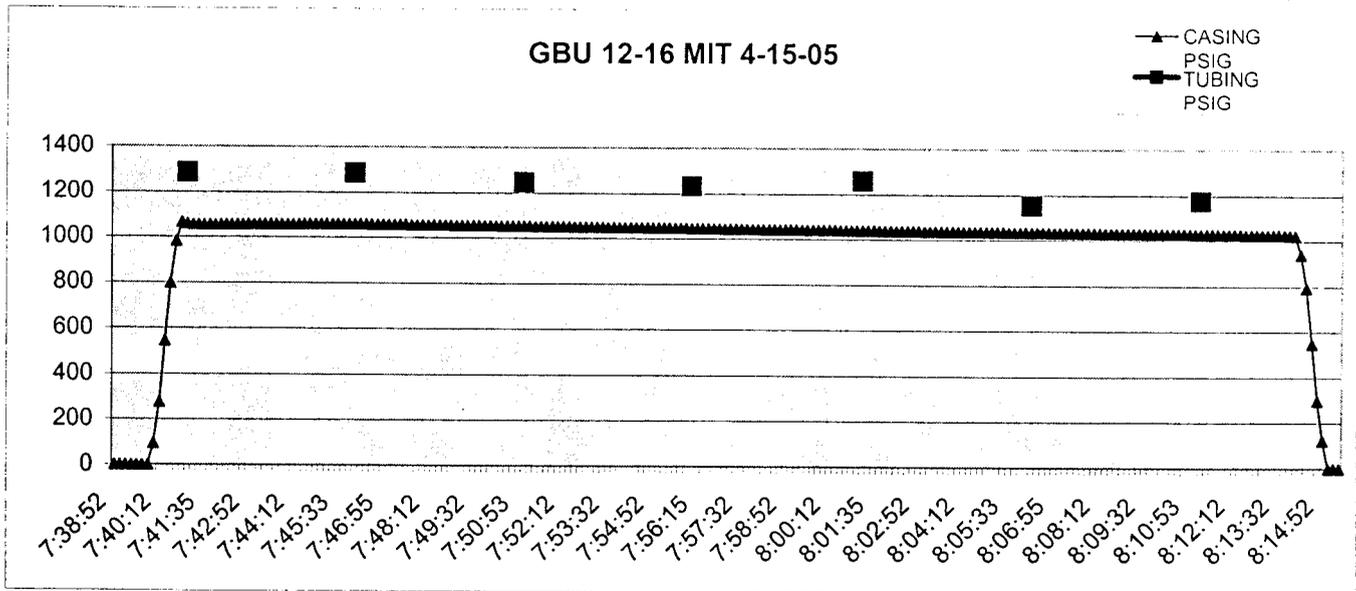
1233

3000 PSIG 7049-1 2 DEC 4

DATE	MONTH	YEAR	TIME	FILE	SAMPLE	CASING PSIG	TUBING PSIG	AMBIENT TEMP
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15 APR		2005	8:01:12	1	135	1041.4	1259	57
15 APR		2005	8:01:23	1	136	1041.2		57
15 APR		2005	8:01:35	1	137	1041		57
15 APR		2005	8:01:42	1	138	1040.8		57
15 APR		2005	8:01:52	1	139	1040.6		57
15 APR		2005	8:02:02	1	140	1040.4		57
15 APR		2005	8:02:12	1	141	1040.2		57
15 APR		2005	8:02:23	1	142	1040		57
15 APR		2005	8:02:35	1	143	1039.8		57
15 APR		2005	8:02:42	1	144	1039.6		57
15 APR		2005	8:02:52	1	145	1039.5		57
15 APR		2005	8:03:02	1	146	1039.3		57
15 APR		2005	8:03:12	1	147	1039.1		57
15 APR		2005	8:03:22	1	148	1038.9		57
15 APR		2005	8:03:33	1	149	1038.7		57
15 APR		2005	8:03:45	1	150	1038.5		57
15 APR		2005	8:03:52	1	151	1038.4		57
15 APR		2005	8:04:02	1	152	1038.2		57
15 APR		2005	8:04:12	1	153	1038		57
15 APR		2005	8:04:22	1	154	1037.8		57
15 APR		2005	8:04:33	1	155	1037.6		57
15 APR		2005	8:04:45	1	156	1037.4		57
15 APR		2005	8:04:52	1	157	1037.2		57
15 APR		2005	8:05:02	1	158	1037.1		57
15 APR		2005	8:05:12	1	159	1036.9		57
15 APR		2005	8:05:22	1	160	1036.7		57
15 APR		2005	8:05:33	1	161	1036.5		57
15 APR		2005	8:05:45	1	162	1036.3		57
15 APR		2005	8:05:52	1	163	1036.2		57
15 APR		2005	8:06:02	1	164	1036		57
15 APR		2005	8:06:12	1	165	1035.8	1153	57
15 APR		2005	8:06:22	1	166	1035.6		57
15 APR		2005	8:06:32	1	167	1035.5		57
15 APR		2005	8:06:43	1	168	1035.3		57
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15 APR		2005	8:07:02	1	170	1034.9		57
15 APR		2005	8:07:12	1	171	1034.8		57
15 APR		2005	8:07:22	1	172	1034.6		57
15 APR		2005	8:07:32	1	173	1034.4		57
15 APR		2005	8:07:43	1	174	1034.2		57
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15 APR		2005	8:08:12	1	177	1033.7		57
15 APR		2005	8:08:22	1	178	1033.6		57
15 APR		2005	8:08:32	1	179	1033.4		57
15 APR		2005	8:08:43	1	180	1033.2		57
15 APR		2005	8:08:55	1	181	1033.1		57
15 APR		2005	8:09:02	1	182	1032.9		57
15 APR		2005	8:09:12	1	183	1032.7		57
15 APR		2005	8:09:22	1	184	1032.6		57
15 APR		2005	8:09:32	1	185	1032.4		57
15 APR		2005	8:09:42	1	186	1032.2		57
15 APR		2005	8:09:53	1	187	1032.1		57
15 APR		2005	8:10:05	1	188	1031.9		57
15 APR		2005	8:10:12	1	189	1031.7		57
15 APR		2005	8:10:22	1	190	1031.6		57
15 APR		2005	8:10:32	1	191	1031.4		57
15 APR		2005	8:10:42	1	192	1031.2		57
15 APR		2005	8:10:53	1	193	1031.1		57
15 APR		2005	8:11:05	1	194	1030.9		57
15 APR		2005	8:11:12	1	195	1030.8	1176	57
15 APR		2005	8:11:22	1	196	1030.6		57
15 APR		2005	8:11:32	1	197	1030.5		56
15 APR		2005	8:11:42	1	198	1030.3		57

3000 PSIG 7049-1 2 DEC 4

DATE	MONTH	YEAR	TIME	FILE	SAMPLE	CASING PSIG	TUBING PSIG	AMBIENT TEMP
15 APR		2005	8:11:53		1	199	1030.1	57
15 APR		2005	8:12:05		1	200	1030	56
15 APR		2005	8:12:12		1	201	1029.8	57
15 APR		2005	8:12:22		1	202	1029.7	56
15 APR		2005	8:12:32		1	203	1029.5	57
15 APR		2005	8:12:42		1	204	1029.4	56
15 APR		2005	8:12:53		1	205	1029.2	57
15 APR		2005	8:13:05		1	206	1029.1	56
15 APR		2005	8:13:12		1	207	1028.9	57
15 APR		2005	8:13:22		1	208	1028.7	57
15 APR		2005	8:13:32		1	209	1028.6	57
15 APR		2005	8:13:42		1	210	1028.4	57
15 APR		2005	8:13:52		1	211	1027.9	57
15 APR		2005	8:14:03		1	212	1024.3	57
15 APR		2005	8:14:15		1	213	942.9	56
15 APR		2005	8:14:22		1	214	793.9	56
15 APR		2005	8:14:32		1	215	548.2	57
15 APR		2005	8:14:42		1	216	297.7	57
15 APR		2005	8:14:52		1	217	122.38	57
15 APR		2005	8:15:03		1	218	0	57
15 APR		2005	8:15:15		1	219	0	57
15 APR		2005	8:15:22		1	220	0	57



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

**ROUTING**

1. DJJ
2. CDW

Change of Operator (Well Sold)

**X - Operator Name Change/Merger**

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

**1/1/2007**

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

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/19/2007
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/16/2007
3. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 1/31/2005
- 4a. Is the new operator registered in the State of Utah: Business Number: 764611-0143
- 5a. (R649-9-2)Waste Management Plan has been received on: IN PLACE
- 5b. Inspections of LA PA state/fee well sites complete on: n/a
- 5c. Reports current for Production/Disposition & Sundries on: n/a
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 4/23/2007 BIA
7. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: 4/23/2007
8. **Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: \_\_\_\_\_
9. **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:**

1. Changes entered in the **Oil and Gas Database** on: 4/30/2007 and 5/15/2007
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 4/30/2007 and 5/15/2007
3. Bond information entered in RBDMS on: 4/30/2007 and 5/15/2007
4. Fee/State wells attached to bond in RBDMS on: 4/30/2007 and 5/15/2007
5. Injection Projects to new operator in RBDMS on: 4/30/2007 and 5/15/2007
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

**BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: ESB000024
2. Indian well(s) covered by Bond Number: 799446
- 3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 965003033
- 3b. The **FORMER** operator has requested a release of liability from their bond on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

4. (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS: THIS IS A COMPANY NAME CHANGE.**

**SOME WELL NAMES HAVE BEEN CHANGED AS REQUESTED**

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)  
 GLEN BENCH (ENHANCED RECOVERY) UNIT

4/30/2007 and 5/15/2007

Original Well Name	Well Name & No.	Q/Q	SEC	TWP	RNG	API	Entity	Lease	Well Type	Status
GB 8D-20-8-22	GB 8D-20-8-22	SENE	20	080S	220E	4304737665	15977	Federal	GW	DRL
WHITE RIVER U 16-9	WR 16-9	SWSE	09	080S	220E	4304715081	4915	Federal	OW	S
GLEN BENCH 31-30	GLEN BENCH 31-30	NWNE	30	080S	220E	4304731008	13727	Federal	OW	P
NGC 13-20	GB 13-20	NWSW	20	080S	220E	4304731355	13727	Federal	OW	P
GLEN BENCH FED 22-20	GB 22-20	SENE	20	080S	220E	4304731356	13727	Federal	WI	A
FED 31-20	GB 31-20	NWNE	20	080S	220E	4304731433	13727	Federal	OW	P
ANTELOPE DRAW 2-17-4C	GB 2-17	SESW	17	080S	220E	4304731555	13727	Federal	OW	P
ANTELOPE DRAW 3-17-3C	GB 3-17	SESE	17	080S	220E	4304731556	13727	Federal	OW	S
GLEN BENCH 8-19	GB 8-19	SENE	19	080S	220E	4304732476	13727	Federal	OW	P
GLEN BENCH 4-30-8-22	GB 4-30-8-22	NWNW	30	080S	220E	4304732755	13727	Federal	OW	S
GLEN BENCH U 15-19-8-22	GB 15-19-8-22	SWSE	19	080S	220E	4304732756	13727	Federal	WI	A
OU GB 1G-19-8-22	OU GB 1G-19-8-22	NENE	19	080S	220E	4304734696	13727	Federal	OW	S
OU GB 2W-30-8-22	GB 2ML-30-8-22	NWNE	30	080S	220E	4304735080	14816	Federal	GW	P
GB 8ML-17-8-22	GB 8ML-17-8-22	SENE	17	080S	220E	4304737995		Federal	GW	APD
WHITE RIVER U 43-16	WR 43-16	NENW	16	080S	220E	4304731354	5170	State	OW	S
WHITE RIVER U 45-16	GB 45-16	NENE	16	080S	220E	4304731399	13727	State	OW	P
GLEN BENCH ST 6-16	GB 6-16	SENE	16	080S	220E	4304732549	13727	State	WI	A
GLEN BENCH ST 7-16	GB 7-16	SWNE	16	080S	220E	4304732582	13727	State	WI	A
GLEN BENCH ST 12-16	GB 12-16	NWSW	16	080S	220E	4304732583	13727	State	WI	A
GLEN BENCH U 11-16-8-22	GB 11-16-8-22	NESW	16	080S	220E	4304732857	13727	State	OW	P
GB 1MU-16-8-22	GB 1MU-16-8-22	NENE	16	080S	220E	4304734656	14251	State	GW	P
OU GB 7W-16-8-22	OU GB 7W-16-8-22	SWNE	16	080S	220E	4304734659	13747	State	GW	P

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: see attached
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: see attached
		7. UNIT or CA AGREEMENT NAME: see attached
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		8. WELL NAME and NUMBER: see attached
2. NAME OF OPERATOR: QUESTAR EXPLORATION AND PRODUCTION COMPANY		9. API NUMBER: attached
3. ADDRESS OF OPERATOR: 1050 17th Street Suite 500 CITY Denver STATE CO ZIP 80265		10. FIELD AND POOL, OR WILDCAT:
4. LOCATION OF WELL FOOTAGES AT SURFACE: attached		COUNTY: Uintah
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start: <u>1/1/2007</u>	<input type="checkbox"/> 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.

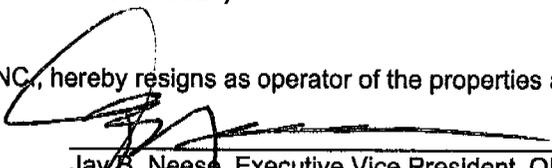
Effective January 1, 2007 operator of record, QEP Uinta Basin, Inc., will hereafter be known as QUESTAR EXPLORATION AND PRODUCTION COMPANY. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible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

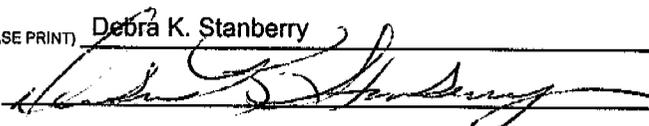
Fee Land Bond Number: 965003033

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

(This space for State use only)

**RECEIVED**  
**APR 19 2007**

DIV. OF OIL, GAS & MINING

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

<b>1. TYPE OF WELL</b> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> see attached
<b>2. NAME OF OPERATOR:</b> QUESTAR EXPLORATION AND PRODUCTION COMPANY		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> see attached
<b>3. ADDRESS OF OPERATOR:</b> 1050 17th Street Suite 500 Denver STATE: CO ZIP: 80265		<b>7. UNIT or CA AGREEMENT NAME:</b> see attached
<b>4. LOCATION OF WELL:</b> FOOTAGES AT SURFACE: attached		<b>8. WELL NAME and NUMBER:</b> see attached
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		<b>9. API NUMBER:</b> attached
COUNTY: Uintah		<b>10. FIELD AND POOL, OR WILDCAT:</b>
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"/> <b>NOTICE OF INTENT</b> (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"/> 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	
	<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> (Submit Original Form Only) Date of work completion: _____		

**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>

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**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

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APR 30 2007

DIV. OF OIL, GAS & MINING

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

**ROUTING**  
 CDW

Change of Operator (Well Sold)

**X - Operator Name Change**

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

**6/14/2010**

<b>FROM: (Old Operator):</b> N5085-Questar Exploration and Production Company 1050 17th St, Suite 500 Denver, CO 80265  Phone: 1 (303) 308-3048	<b>TO: (New Operator):</b> 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**

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 Denver CITY 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

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

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

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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

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AUG 16 2010

DIV. OF OIL, GAS & MINERAL

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

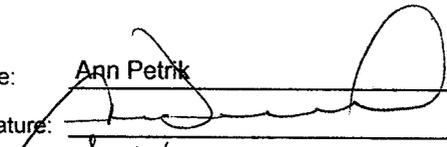
UIC FORM 5

**TRANSFER OF AUTHORITY TO INJECT**

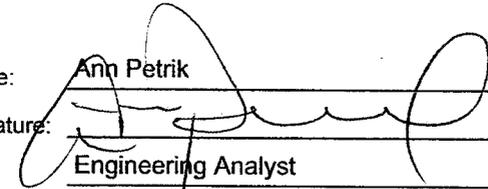
Well Name and Number See Attached List		API Number Attached
Location of Well  Footage : Attached		Field or Unit Name Attached
County :  QQ, Section, Township, Range:		Lease Designation and Number Attached
State : UTAH		

**EFFECTIVE DATE OF TRANSFER:** 6/14/2010

**CURRENT OPERATOR**

Company: <u>Questar Exploration and Production Company</u>	Name: <u>Ann Petrik</u>
Address: <u>1050 17th Street, Suite 500</u>	Signature: 
<u>city Denver state CO zip 80265</u>	Title: <u>Engineering Analyst</u>
Phone: <u>(303) 672-6900</u>	Date: <u>6/28/2010</u>
Comments:	

**NEW OPERATOR**

Company: <u>QEP Energy Company</u>	Name: <u>Ann Petrik</u>
Address: <u>1050 17th Street, Suite 500</u>	Signature: 
<u>city Denver state CO zip 80265</u>	Title: <u>Engineering Analyst</u>
Phone: <u>(303) 672-6900</u>	Date: <u>6/28/2010</u>
Comments:	

(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**

**DIV. OF OIL, GAS & MINING**