

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG _____ ELECTRIC LOGS _____ X WATER SANDS _____ LOCATION INSPECTED _____ SUB REPORT/abd _____

950201 Oper Request Confidential Status
 9/21/94 Confidential Status expired 1-19-96

DATE FILED SEPTEMBER 26, 1994
 LAND: FEE & PATENTED _____ STATE LEASE NO. ML-22049 PUBLIC LEASE NO. _____ INDIAN _____

DRILLING APPROVED: OCTOBER 4, 1994

SPUDDED IN 11-27-94

COMPLETED 12-19-94 POW PUT TO PRODUCING: 1-10-95

INITIAL PRODUCTION 32 BOPD

GRAVITY API 38.7

GOR _____

PRODUCING ZONES 5106-5111 (Glen Bench)

TOTAL DEPTH: 5500'

WELL ELEVATION 4936 GR; 4948 KB

DATE ABANDONED: _____

FIELD: UNDESIGNATED

UNIT: NA

COUNTY: UINTAH

WELL NO. GLEN BENCH STATE #6-16 API NO. 43-047-32549

LOCATION 1559' FNL FT FROM (N) (S) LINE. 2191' FWL FT FROM (E) (W) LINE. SE NW 1/4 - 1/4 SEC 16

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

GEOLOGIC TOPS:

RY	Star Point	Chinle	Molas
	Wahweap	Shinarump	Manning Canyon
	Masuk	Moenkopi	Mississippian
	Colorado	Sinbad	Humbug
	Sego	PERMIAN	Brazer
	Buck Tongue	Kaibab	Pilot Shale
	Castlegate	Coconino	Madison
	Mancos	Cutler	Leadville
	Upper	Hoskinnini	Redwall
	Middle	DeChelly	DEVONIAN
	Lower	White Rim	Upper
iver	Emery	Organ Rock	Middle
surface	Blue Gate	Cedar Mesa	Lower
2850'	Ferron	Halgaite Tongue	Ouray
	Frontier	Phosphoria	Eibert
	Dakota	Park City	McCracken
	Burro Canyon	Rico (Goodridge)	Aneth
	Cedar Mountain	Supai	Simonson Dolomite
	Buckhorn	Wolfcamp	Sevy Dolomite
	JURASSIC	CARBON I FEROUS	North Point
5450'	Morrison	Pennsylvanian	SILURIAN
5090'	Salt Wash	Oquirrh	Laketown Dolomite
Core	San Rafael Gr.	Weber	ORDOVICIAN
	Summerville	Morgan	Eureka Quartzite
	Bluff Sandstone	Hermosa	Pogonip Limestone
	Curtis		CAMBRIAN
	Entrada	Pardox	Lynch
reek	Moab Tongue	Ismay	Bowman
	Carmel	Desert Creek	Tapeats
US	Glen Canyon Gr.	Akah	Ophir
	Navajo	Barker Creek	Tintic
	Kayenta		PRE - CAMBRIAN
	Wingate	Cane Creek	
	TRIASSIC		

Cultural Resources Inventory Report
on the
Proposed Glen Bench State #6-16 Well Location
and Related Access
in Uintah County, Utah
for
Chandler and Associates

43-047-32549
Sec 16 T9S R22E

GRI Project No. 9484

September 24, 1994

Prepared by

Grand River Institute
P.O. Box 3543
Grand Junction, Colorado 81502
UDSH Project Authorization No. U-94-GB-561s

Carl E. Conner
Carl E. Conner, Principal Investigator

Submitted to

Utah Division of State History
300 Rio Grande
Salt Lake City, Utah 84101-3500

Introduction

At the request of Chandler and Associates and the State of Utah, a cultural resources inventory was conducted for the proposed Glen Bench State #6-16 well location and related 0.2 mile access. This work was conducted by Carl E. Conner of Grand River Institute under UDSH Project Authorization No. U-94-GB-561s. This work was done to meet requirements of State laws and regulations that protect cultural resources. A files search was conducted through the Utah Division of State History on 21 September 1994, which indicated one paleontological locality, 42Un574v was previously recorded in the project's vicinity. Field work was conducted on the 22nd of September. Paleontological locality 42Un574v was relocated east of the proposed new access, and will not be adversely affected by the proposed action. No cultural resources were found, and archaeological clearance is recommended.

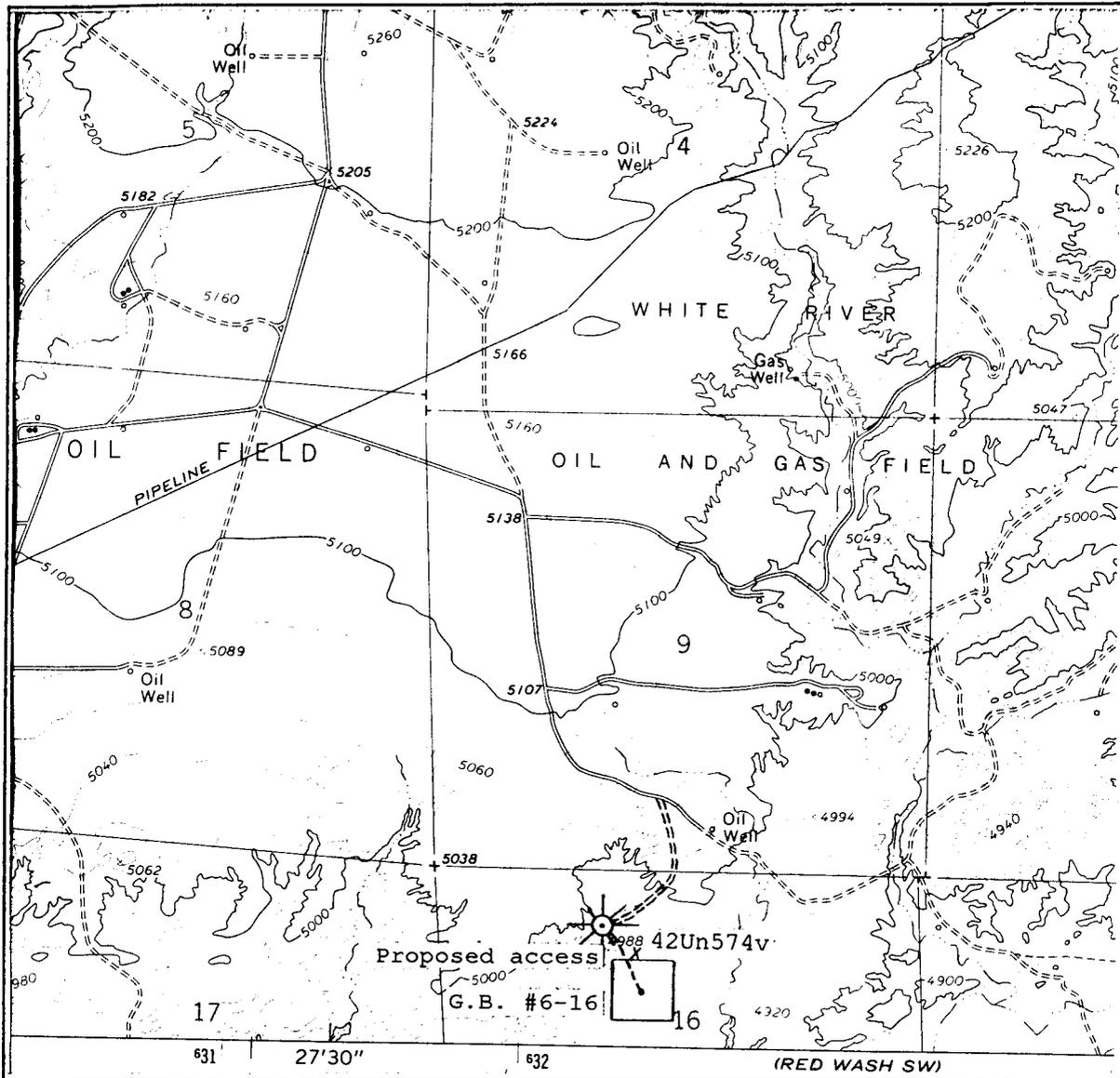
Location of Project Area

The well and access are located approximately 34.0 miles southeast of Vernal, Utah, within the White River Oil and Gas Field in Uintah County. The unit and its related access route are within T. 8 S., R. 22 E., Section 16, S.L.B.M. (Figure 1).

Affected Environment

The project area is within the major geologic subdivision of the Colorado Plateau known as the Uintah Basin. The basin is distinctively bowl-shaped and bounded by mountains on all sides (Nickens and Larralde 1980:11). The geology of the area consists of Quaternary- and Tertiary-age deposits which include Holocene and Pleistocene pediment deposits, and Eocene-age fluvial and lacustrine sedimentary rocks.

The Uinta Formation, which is predominate in the project area, is considered to be of high paleontological sensitivity. As listed by the Utah State Paleontologist's Office for paleontologically sensitive areas, the Uinta Formation is ranked #1 for vertebrate fossils, #4 for trace fossils, and #15 for invertebrate fossils. An area just south of Ouray, across the White River, is called the White River Pocket. It is where O. C. Marsh first collected mammal, turtle and



Red Wash NW Quadrangle
 Utah--Uintah County
 1968
 USGS 7.5' Series (topographic)
 Scale 1:24000
 Contour interval 20 feet
 T. 8S., R. 22E., S.L.B.M.

Figure 1. Cultural resources inventory of the proposed Glen Bench State #6-16 well location and related 0.2 mile access in Uintah County, Utah, for Chandler and Associates. Areas surveyed are highlighted. Paleontological locality 42Un574v is shown in relation to the project area. [GRI Project No. 9484, 9/24/94]

crocodillian fossils in 1870, and has been periodically collected since that time. This fossiliferous zone extends both east and west from the White River Pocket area and includes other major fossil collecting localities in the Uinta Formation. To the east are Coyote Wash, Chipeta Wells, Kennedy Hole and Devils Playground. To the west are the Myton Pocket, South Leland Bench and several areas north and east of Duchesne. To the north are the Leota, Skull Pass and other quarries. Materials from the area are considered important enough to have had one of the North American Mammalian Ages named the Uintan (personal communication, Alden Hamblin, paleontologist).

The wells lie in the alluvial basin of East Coyote Wash. Soils in the general area of the project are rocky, clayey, silty, and sandy loams. On the well location, soils are sandy. On the surrounding hills, soils are formed in residuum from, and often expose, the underlying Uinta Formation sandstone and clays.

Elevation of the project area averages 4960 feet. The terrain is barren and vegetated by a dwarf saltbush community mixed with sagebrush, greasewood, desert trumpet and Russian thistle. Regional faunal inhabitants include deer, pronghorn, coyote, cottontails, and raptors.

A cool desert climate prevails. Annual precipitation averages from 6 to 10 inches. Temperatures range from 100 F in the summer to -40 F in January. Agriculture is limited by the low rainfall, poor soils, and low winter temperatures. In this area, there is a frost-free period of about 120 days (Nickens and Larralde 1980:13). Paleoenvironmental data are scant, but it is generally agreed that gross climatic conditions have remained fairly constant over the last 12,000 years. However, changes in effective moisture and cooling and warming trends probably affected the prehistoric occupation of the region.

Files Search

A files search was conducted through the Utah Division of State History on 21 September 1994, which indicated one paleontological locality, 42Un574v was previously recorded in the project's vicinity. This locality was recorded in 1991 and was field evaluated as non-significant (Polk 1991:5).

The search indicated no cultural resources were previously recorded within the project area. However, regional archaeological studies suggest nearly continuous human occupation of northeastern Utah for the past 12,000 years. Evidence of the PaleoIndian Tradition, the Archaic Tradition, Fremont Culture, and Protohistoric/Historic Utes has been found. Historic records suggest occupation or use by EuroAmerican trappers, settlers, miners, and ranchers as well. Overviews of the prehistory and history of the region are provided in the Utah BLM Cultural Resource Series No. 5, Sample Inventories of Oil and Gas Fields in Eastern Utah (Nickens and Larralde 1980).

Study Objectives

The purpose of the study was to identify and record all cultural resources within the area of potential impact and to assess their significance and eligibility to the National Register of Historic Places (NRHP). The overall site density within the desert shrub vegetation communities of the Uintah Basin are quite low (0.86 per square mile in the Red Wash area, see Nickens and Larralde 1980:41). Paleontological resources were also considered in the inspection.

Field Methods

A Class III, 100% pedestrian, cultural resources survey of the proposed well location was made by walking a series of concentric circles around the flagged center to a diameter of 750 feet. The related access route was surveyed by walking a zigzag transect centered on the flagged line to cover a corridor 200 feet wide. A total of about 12 acres was intensively surveyed.

Cultural resources were sought as surface exposures and were characterized as sites or isolated finds. Sites were defined by the presence of six or more artifacts and/or significant feature(s) indicative of patterned human activity. Isolated finds were defined by the presence of 1 to 5 artifacts apparently of surficial nature. Cultural resources encountered were to be recorded to standards set by the Preservation Office of the Utah Division of State History.

Study Findings/Recommendations

No cultural were encountered during the survey. Paleontological locality 42Un574v was relocated east of the proposed new access, and will not be adversely affected by the proposed action. The locality was previously field evaluated as non-significant. Accordingly, cultural and paleontological clearance is recommended.

References

- Larralde, Signa L. and Susan M. Chandler
1981 Archaeological inventory in the Seep Ridge Cultural Study Tract, Uintah County, Northeast Utah. Ms on file, BLM Vernal District Office.
- Nickens, Paul R. and Signa L. Larralde
1980 Archaeological inventory in the Red Wash Cultural Study Tract, Uintah County, Utah. In: Sample Inventories of Oil and Gas Fields in Eastern Utah, Utah BLM Cultural Resource Series No.5. Bureau of Land Management, Salt Lake City.
- Polk, Ann S.
1991 A cultural resources survey of a proposed transmission line near Glen Bench, Uintah County, Utah. Ms on file, Utah Division of State History, Salt Lake City.
- Personal communication
Alden Hamblin, paleontologist, Vernal

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN ORIGINAL

(Other instructions reverse side)

SEP 26 1994

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

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

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

2. NAME OF OPERATOR
 Chandler & Associates, Inc.

3. ADDRESS AND TELEPHONE NO.
 555 Seventeenth Street (303)295-0400
 Anaconda Tower Suite 1850 Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 1559' FNL 2191' FWL (SE 1/4 NW 1/4)
 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) 1559

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. 1100'

19. PROPOSED DEPTH 5500

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4936 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. FARMOR LEASE NAME, WELL NO.
 Glen Bench State

9. API WELL NO.
 #6-16

10. FIELD AND POOL, OR WILDCAT
 Glen Bench

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

12. COUNTY OR PARISH 13. STATE
 Uintah Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	350'	(see attached drilling plan)
7 7/8"	5 1/2"	15.5#	5500'	(see attached drilling plan)

- M.I.R.U.
- Drill to T.D. 5500'
- Run 5 1/2" casing if commercial production is indicated.
- If dry hole, well will be plugged and abandoned as instructed by B.L.M.
- 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, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Robert L. Kay TITLE Agent for Chandler DATE 9-26-94
 Robert L. Kay, R.L.S.
 (This space for Federal or State office use)

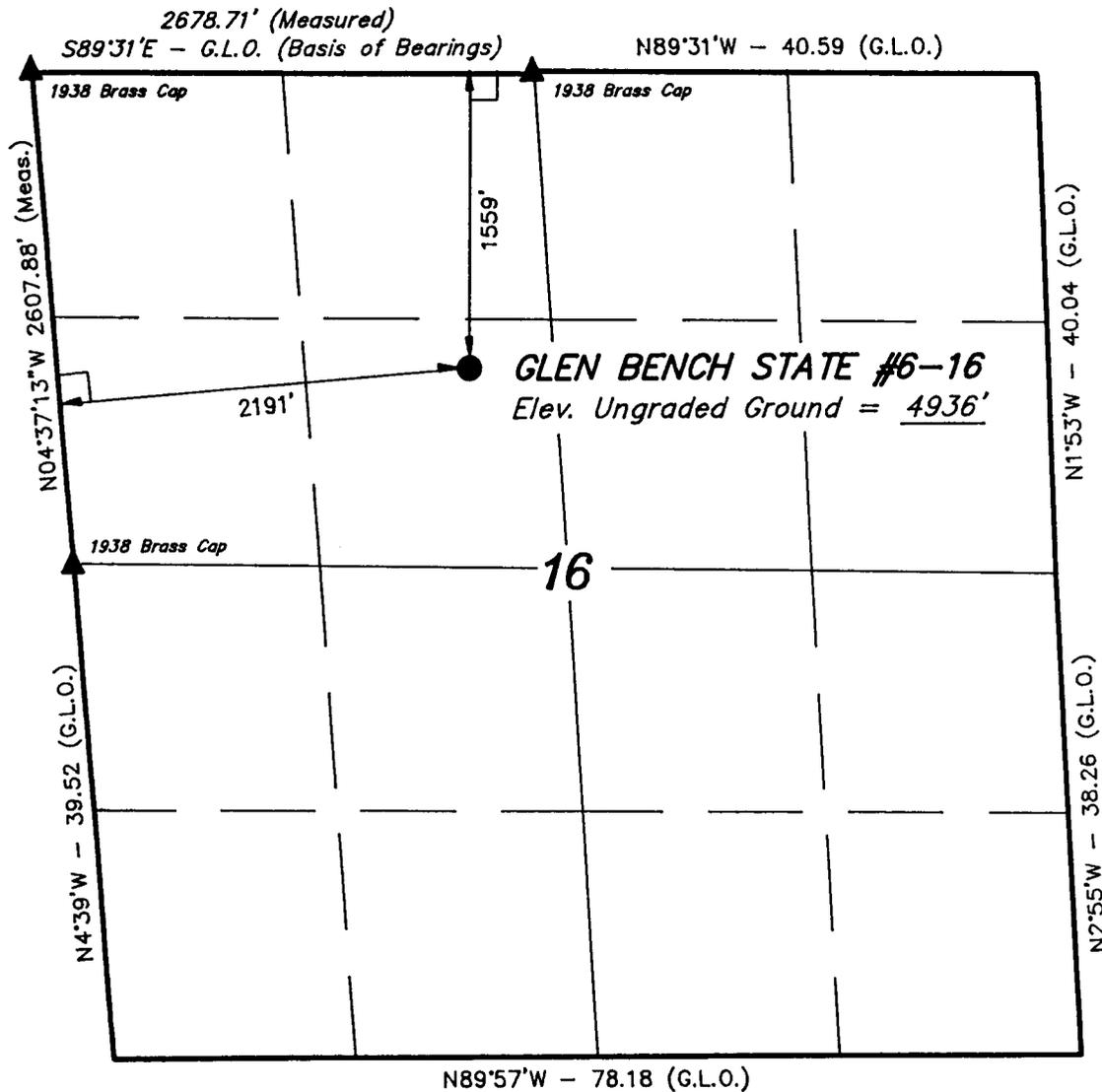
PERMIT NO. _____ APPROVAL DATE _____ APPROVED BY THE STATE
 Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
 CONDITIONS OF APPROVAL, IF ANY:
 OIL, GAS, AND MINING
 DATE: 10/4/94
 BY: [Signature] DATE: 10/4/94
 APPROVED BY _____ TITLE _____

*See Instructions On Reverse Side

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

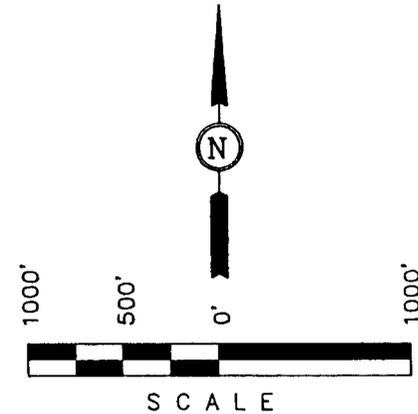
CHANDLER & ASSOCIATES, INC.

Well location, GLEN BENCH STATE #6-16, located as shown in the SE 1/4 NW 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 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 Kay
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 161319
 STATE OF UTAH

REVISED: 9-15-94 D.J.S.

UINTAH ENGINEERING & LAND SURVEYING		
85 SOUTH 200 EAST - VERNAL, UTAH 84078		
(801) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 9-8-94	DATE DRAWN: 9-9-94
PARTY G.S. R.A. D.J.S.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE CHANDLER & ASSOCIATES, INC.	

LEGEND:

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

DRILLING LOCATION ASSESSMENT

State of Utah
Division of Oil, Gas and Mining

OPERATOR: CHANDLER & ASSOCIATES, INC. WELL NAME: GLEN BENCH
STATE 6-16
SECTION: 16 TWP: 8S RNG: 22E LOC: 1559 FNL 2191 FWL
QTR/QTR SE/NW COUNTY: UINTAH FIELD: WHITE RIVER
SURFACE OWNER: STATE OF UTAH
SURFACE AGREEMENT:
SPACING: F SECTION LINE F QTR/QTR LINE F ANOTHER WELL
INSPECTOR: DAVID W. HACKFORD DATE AND TIME: 9/19/94 9:30 AM

PARTICIPANTS: DAVID HACKFORD (DOGM), TRACY HENLINE (UELS) JIM
SIMON~~TON~~ (C&A INC.)

REGIONAL SETTING/TOPOGRAPHY: SITE IS ON THE SHOULDER OF A SLIGHT
RIDGE WITH A SIX FOOT GULLY RUNNING SOUTHEAST 100' NORTHWEST OF
PROPOSED LOCATION. AREA IS MOSTLY FLAT WITH SMALL SANDY ROLLING
HILLS.

LAND USE:

CURRENT SURFACE USE: SOME LIVESTOCK GRAZING AND WILDLIFE USE.

PROPOSED SURFACE DISTURBANCE: LOCATION 325' X 210' PLUS 1000'
ACCESS ROAD.

AFFECTED FLOODPLAINS AND/OR WETLANDS: WEST EDGE OF LOCATION WOULD
BE PART OF A FIVE ACRE FLOODPLAIN ONLY AFTER A VERY HEAVY RAIN.
NO WETLANDS.

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

ENVIRONMENTAL PARAMETERS

SURFACE GEOLOGY

SOIL TYPE AND CHARACTERISTICS: LIGHT SANDY LOAM.

SURFACE FORMATION & CHARACTERISTICS:

EROSION/SEDIMENTATION/STABILITY: VERY LITTLE EROSION IN
AREA; NO STABILITY PROBLEMS OBSERVED.

PALEONTOLOGICAL POTENTIAL: NONE

SUBSURFACE GEOLOGY

OBJECTIVES/DEPTHS: GREEN RIVER FORMATION AT 6000'

ABNORMAL PRESSURES-HIGH AND LOW: NONE EXPECTED.

CULTURAL RESOURCES/ARCHAEOLOGY: NO INTEREST IN THIS AREA. SITE WILL BE CHECKED BY CARL CONNER WITH GRAND RIVER INSTITUTE AND A REPORT WILL BE SENT TO SALT LAKE OFFICE. (DOGM)

CONSTRUCTION MATERIALS: CUT AND FILL AS NECESSARY.

SITE RECLAMATION: AS REQUIRED BY STATE LANDS.

RESERVE PIT

CHARACTERISTICS: 100' X 60' AND 8' DEEP.

LINING: A 12 MIL LINER WILL BE REQUIRED.

MUD PROGRAM: GEL BASE WATER WITH AN EXPECTED MUD WEIGHT OF 8.8 POUNDS PER GALLON.

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

OTHER OBSERVATIONS RESERVE PIT TO BE ON EAST SIDE OF LOCATION. AN EXISTING POWER LINE LOCATED 200' WEST OF SITE.

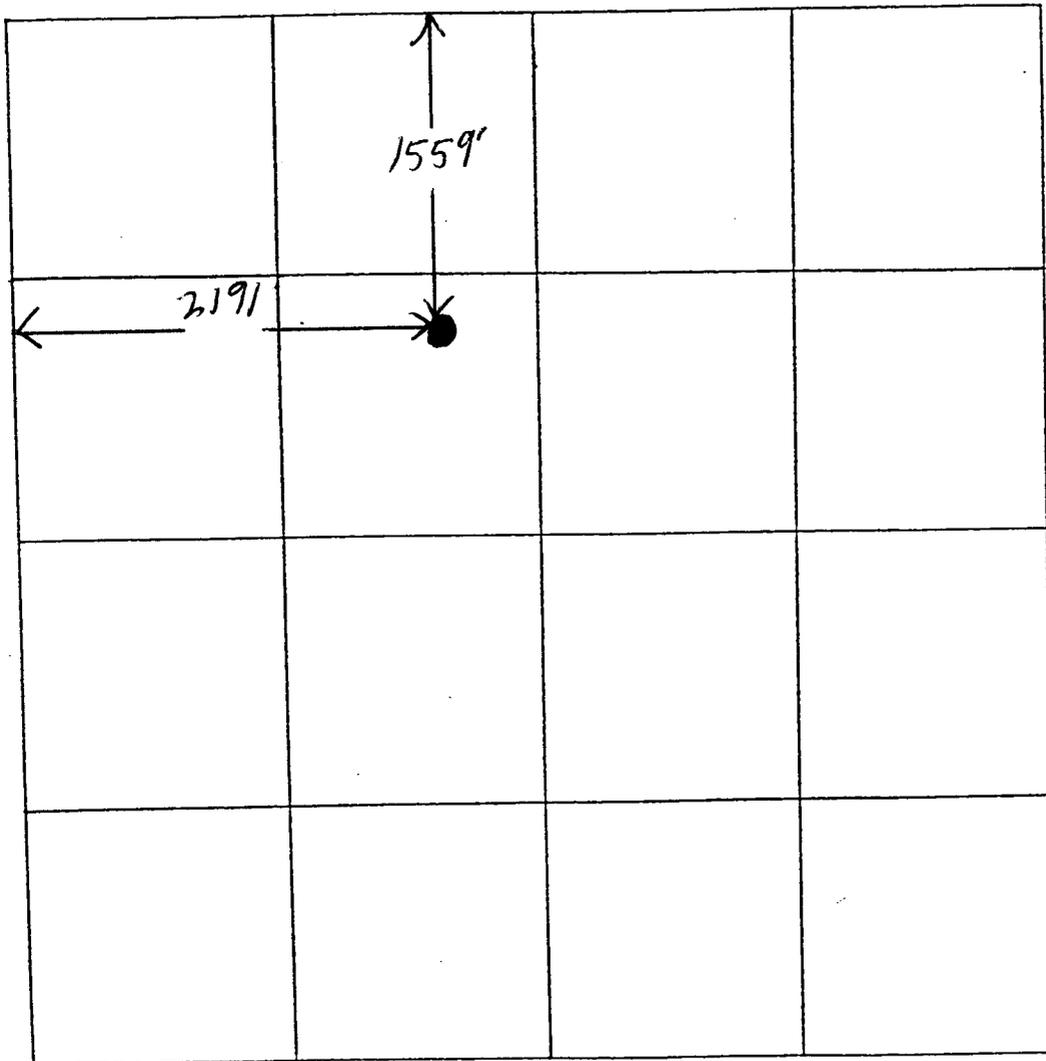
STIPULATIONS FOR APD APPROVAL RESERVE PIT PLACED ON EAST SIDE OF LOCATION.

ATTACHMENTS

PHOTOGRAPHS WILL BE PLACED ON FILE. ARCHAEOLOGY REPORT WILL BE SENT TO DOGM.

SECTION 16 TOWNSHIP 4S RANGE 22E COUNTY Uintah STATE Utah

SCALE= 1"=1000'



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SEE

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. LEASE DESIGNATION AND SERIAL NO.
ML - 22049

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

7. UNIT AGREEMENT NAME
N/A

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

9. API WELL NO.
#6-16

10. FIELD AND POOL, OR WILDCAT
UNDESIGNATED

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

12. COUNTY OR PARISH
Utah

13. STATE
Utah

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See Topo Map "A"

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1100'

19. PROPOSED DEPTH
5500

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Rotary

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A.S.A.P.

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

24. SIGNED Robert L. Kay TITLE Agent for Chandler DATE 9-26-94
Robert L. Kay, R.L.S.
(This space for Federal or State office use)

PERMIT NO. 43-047-32549 APPROVAL DATE _____

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

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY _____ TITLE _____

*See Instructions On Reverse Side

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 10/4/94
BY: J.M. Juthe
WELL SPACING: R649-3-3

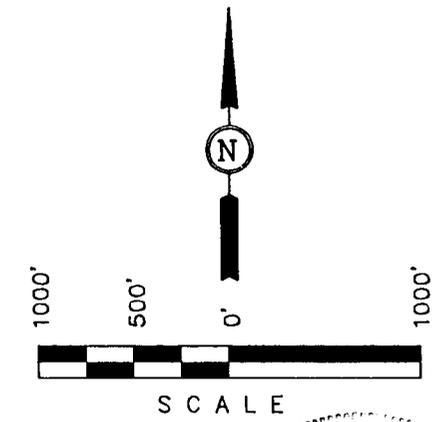
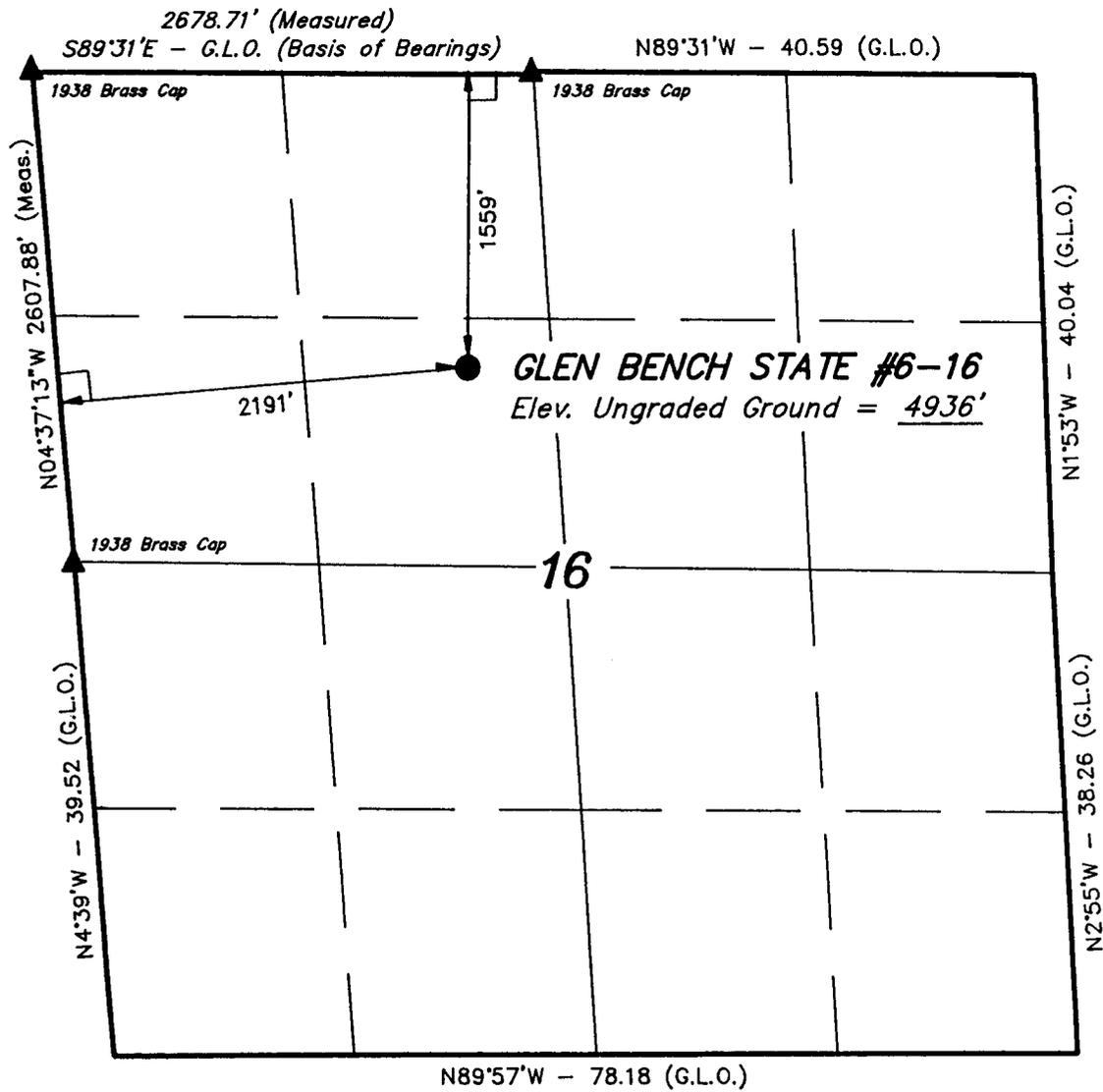
T8S, R22E, S.L.B.&M.

CHANDLER & ASSOCIATES, INC.

Well location, GLEN BENCH STATE #6-16, located as shown in the SE 1/4 NW 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 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. Kay
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 161319
 STATE OF UTAH

REVISED: 9-15-94 D.J.S.

UINTAH ENGINEERING & LAND SURVEYING 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (801) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 9-8-94	DATE DRAWN: 9-9-94
PARTY G.S. R.A. D.J.S.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE CHANDLER & ASSOCIATES, INC.	

LEGEND:

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- = SECTION CORNERS LOCATED.

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 09/26/94

API NO. ASSIGNED: 43-047-32549

WELL NAME: GLEN BENCH STATE 6-16
OPERATOR: CHANDLER & ASSOCIATES (N3320)

PROPOSED LOCATION:
SENW 16 - T08S - R22E
SURFACE: 1559-FNL-2191-FWL
BOTTOM: 1559-FNL-2191-FWL
UINTAH COUNTY
UNDESIGNATED FIELD (002)

INSPECT LOCATION BY: 10/10/94

TECH REVIEW	Initials	Date
Engineering	<i>JAM</i>	10/4/94
Geology	<i>TA</i>	9/30/94
Surface	<i>DH</i>	9/19/94

LEASE TYPE: STA
LEASE NUMBER: ML-22049

PROPOSED PRODUCING FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

Y Plat
Y Bond: Federal[] State[] Fee[]
(Number 2396118)
N Potash (Y/N)
N Oil shale (Y/N)
 Water permit
(Number)
N 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: EXCEPTION SPACING STATEMENT REQUESTED 9/28/94

STIPULATIONS:

CONFIDENTIAL
PERIOD
EXPIRED
1-19-96

STATE OF UTAH

Operator: CHANDLER &* ASSOCIATES	Well Name: GLEN BENCH STATE 6-1
Project ID: 43-047-32549	Location: SEC. 16 - T088 - R22E

Design Parameters:

Mud weight (8.80 ppg) : 0.457 psi/ft
 Shut in surface pressure : 2215 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)

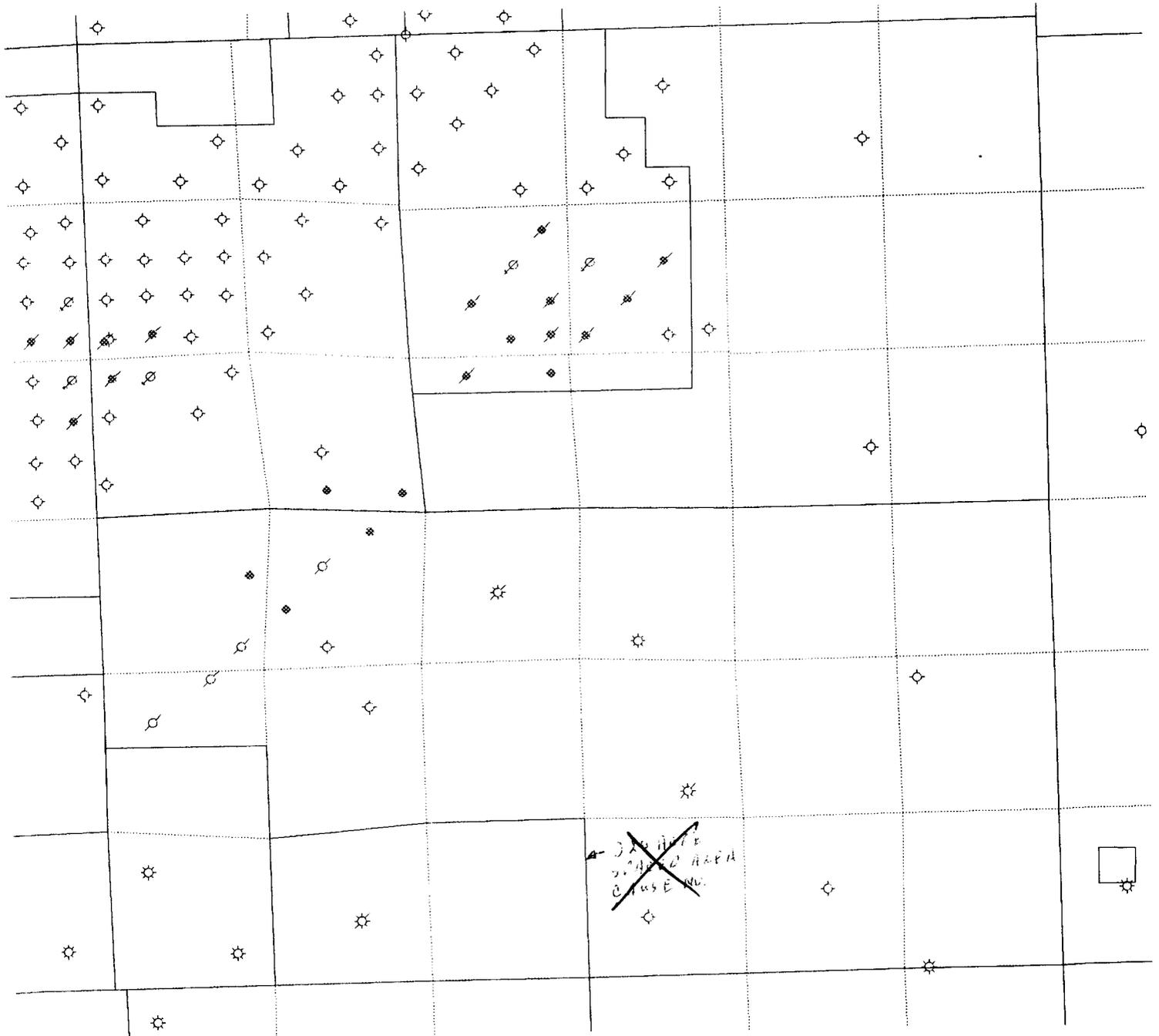
Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost		
1	5,500	5.500	15.50	K-55	ST&C	5,500	4.825		
	Load (psi)	Collapse Strgth (psi)	S.F.	Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Tension Load (kips)	Strgth (kips)	S.F.
1	2514	4040	1.607	2514	4810	1.91	73.78	222	3.01 J

Prepared by : FRM, Salt Lake City, UT
 Date : 10-04-1994
 Remarks :

Minimum segment length for the 5,500 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 102°F (Surface 74°F , BHT 129°F & temp. gradient 1.000°/100 ft.)
 The mud gradient and bottom hole pressures (for burst) are 0.457 psi/ft and 2,514 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)

CINDLER & ASSOCIATES
GLENN BENCH STATE 6-16
SEC. 16 T8S, R22E UINTAH, COUNTY



STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:

ML-22049

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name:

NA

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

7. Unit Agreement Name:

NA

1. Type of Well: OIL GAS OTHER:

8. Well Name and Number:

Glen Bench State 6-16

2. Name of Operator:

Chandler & Associates, Inc.

9. API Well Number:

3. Address and Telephone Number:

475 17th St, Ste 1000 Denver, Co 80202 (303) 295-0400

10. Field and Pool, or Wildcat:

White River

4. Location of Well

Footages: 2191'FWL & 1559'FNL

County: Uintah

QQ, Sec.,T.,R.,M.: SENW Sec 16-T8S-R22E

State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT
(Submit in Duplicate)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Multiple Completion
- New Construction
- Pull or Alter Casing
- Recomplete
- Reperforate
- Vent or Flare
- Water Shut-Off

Other Exception location

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Other _____
- New Construction
- Pull or Alter Casing
- Reperforate
- Vent or Flare
- Water Shut-Off

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Application for topographic exception to a spaced location.
Well moved due to an electrical power line and a big gulch.

OCT 4

13.

Name & Signature: D.M. (Don) Johnson

Title: Manager Operations

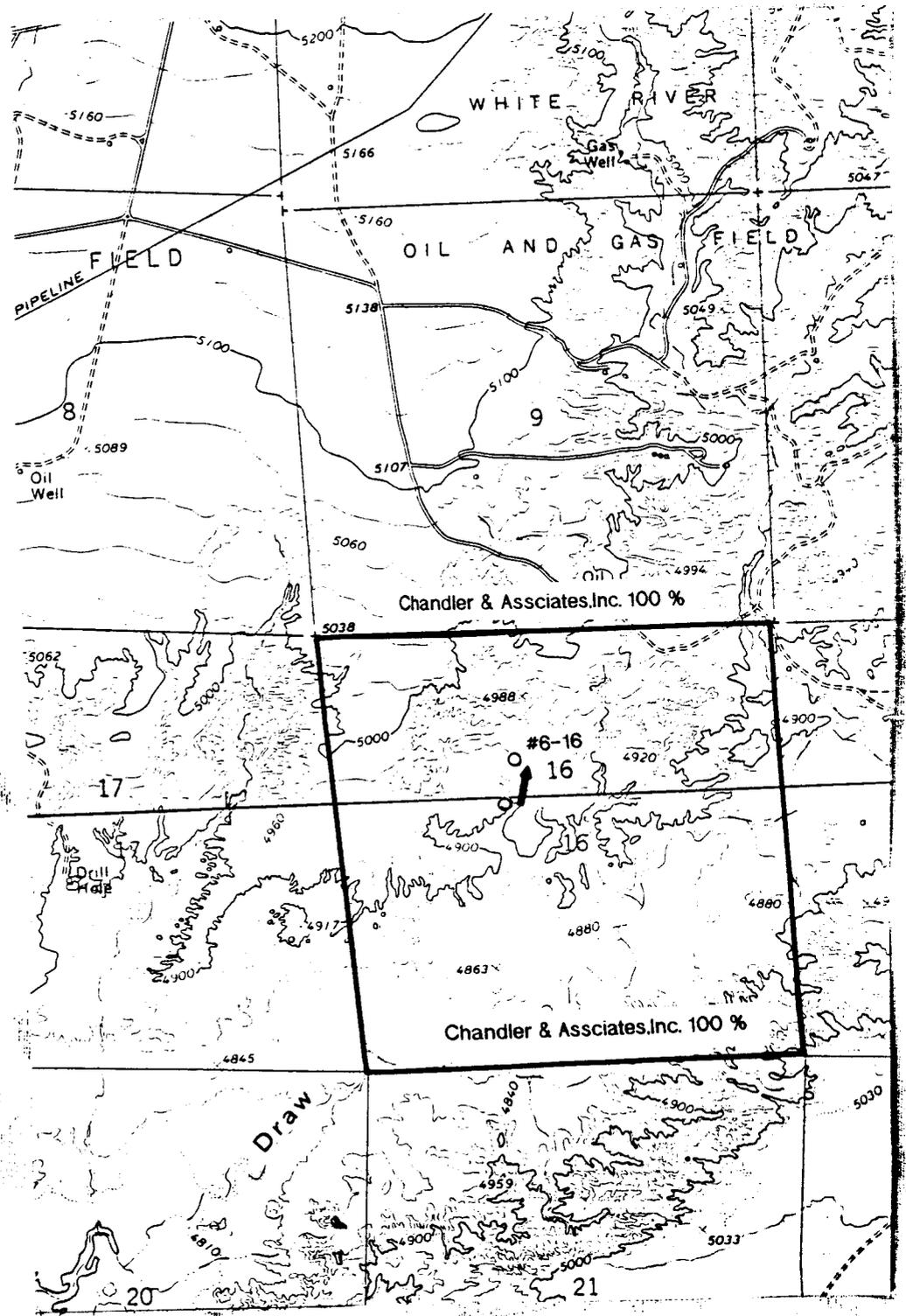
Date: 9/29/94

(This space for State use only)

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

DATE: 10/4/94

BY: [Signature]



**CHANDLER & ASSOCIATES, INC.
DRILLING PLAN FOR THE
GLEN BENCH STATE #6-16**

I. DRILLING PLAN:

1. Geological Surface Formation: Uintah

2. Estimated Tops:

<u>Name</u>	<u>Top</u>	<u>Prod. Phase Anticipated</u>
Green River	2870'	
X Marker	4973'	
Glen Bench Sand	5111'	
White River Sand	5368'	Oil
Wasatch	5458'	
TD	5500'	

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.	5500	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 #6-16

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 #6-16

8. Cementing Program:

<u>Casing</u>	<u>Volume</u>	<u>Type & Additives</u>
Surface	265 sx	Class "G" w/2% CaCl ₂ 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.

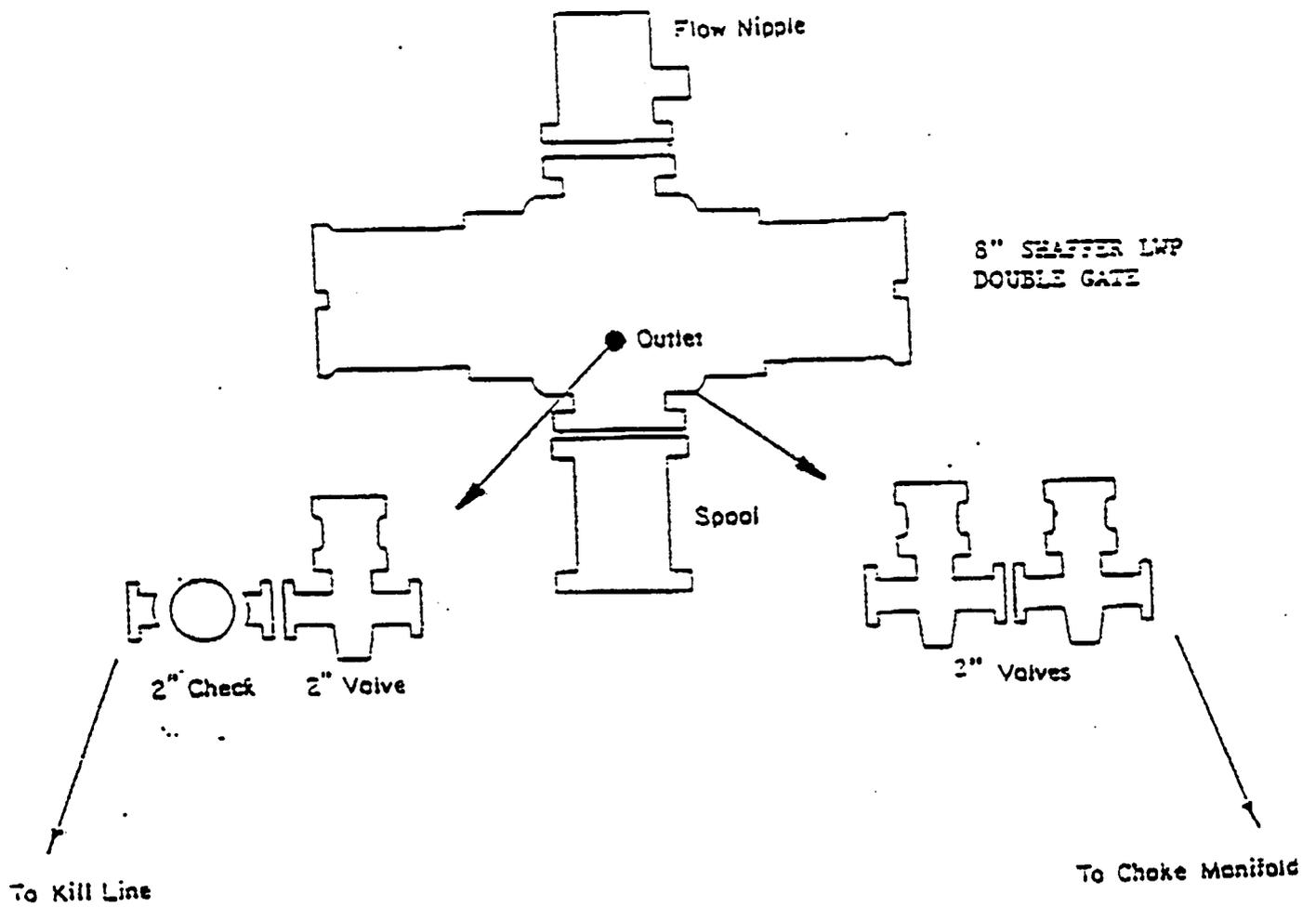
A bond log will be run across the zone of interest and across zones as required by the authorized officer to insure protection of natural resources.

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

No abnormal temperatures or pressures are anticipated. No H₂S has been encountered in or known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom hole pressure equals approximately 1,600 psi (calculated at 0.298 psi/ft) and maximum anticipated surface pressure equals approximately 419 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

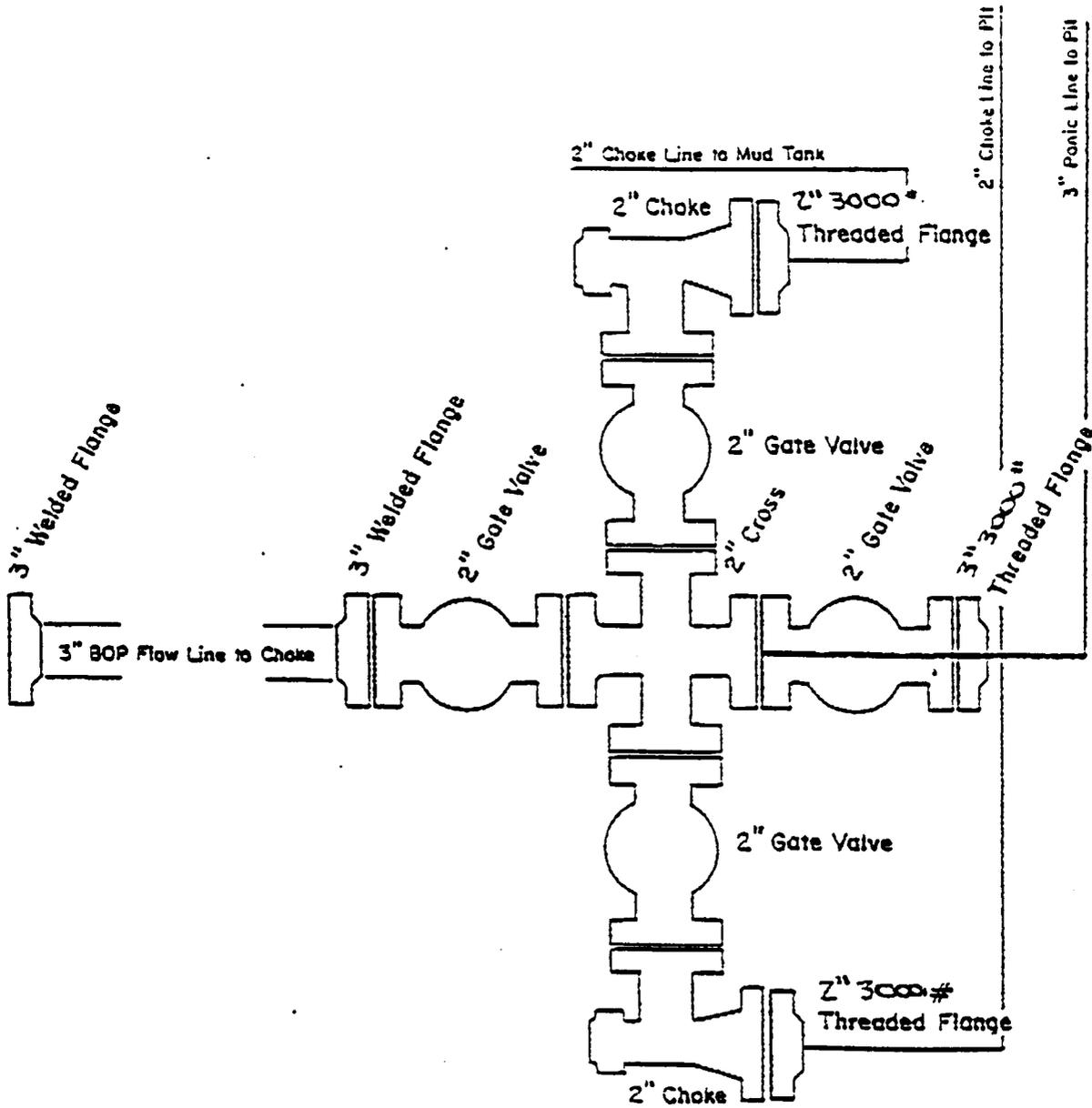
CHANDLER DRILLING

RIG NO.7



CHANDLER DRILLING

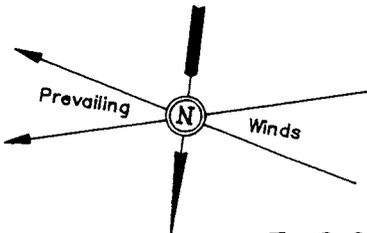
RIG NO.7



CHANDLER & ASSOCIATES, INC.

LOCATION LAYOUT FOR

GLEN BENCH STATE #6-16
SECTION 16, T8S, R22E, S.L.B.&M.
1559' FNL 2191' FWL



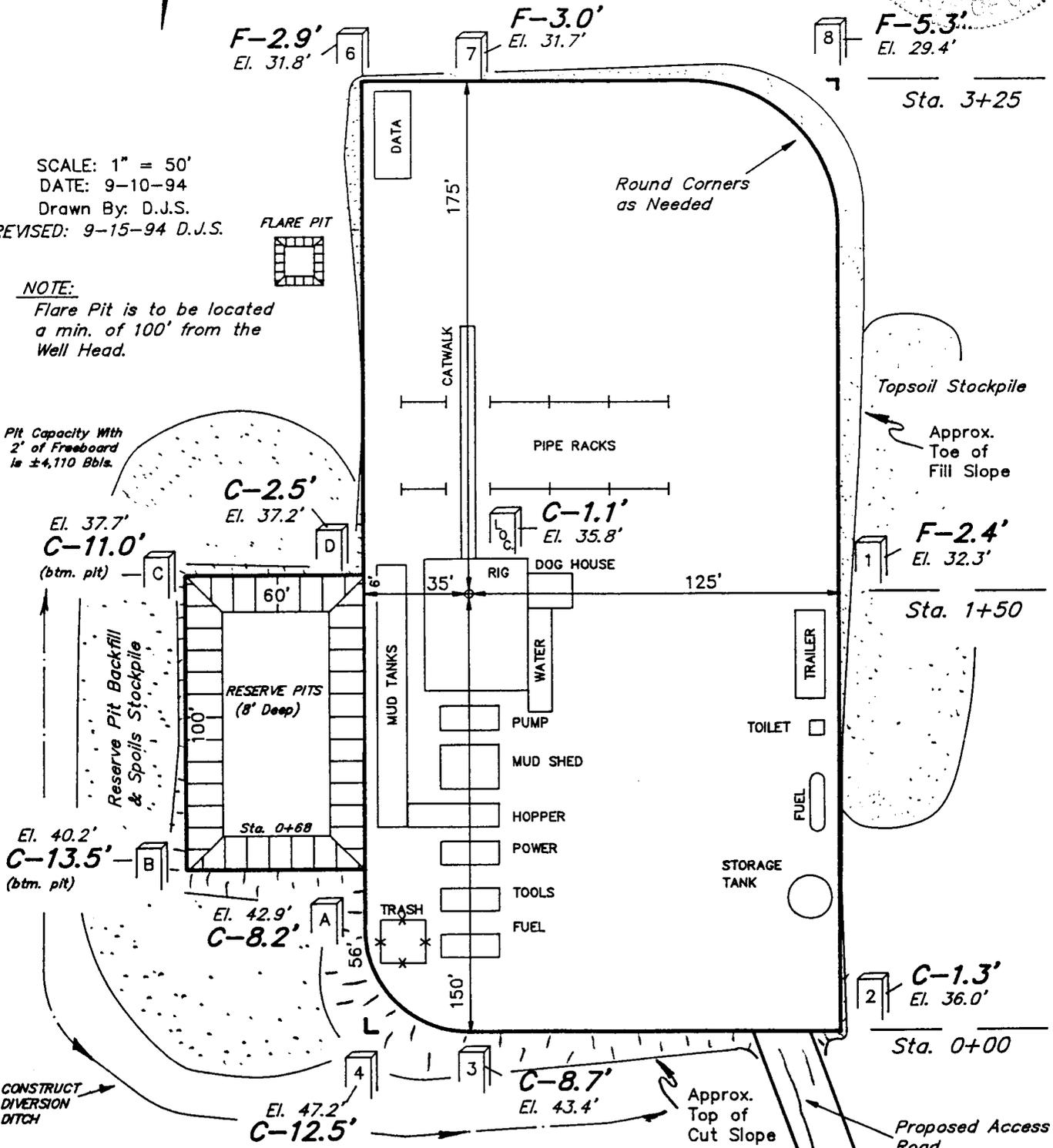
SCALE: 1" = 50'
DATE: 9-10-94
Drawn By: D.J.S.
REVISED: 9-15-94 D.J.S.



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.



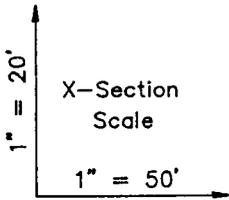
Elev. Ungraded Ground at Location Stake = 4935.8'

Elev. Graded Ground at Location Stake = 4934.7'

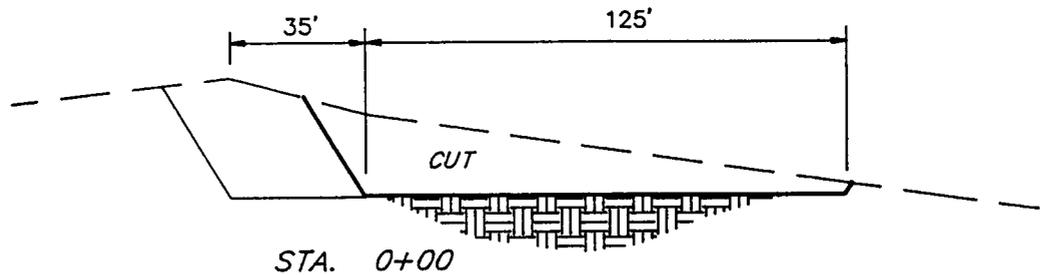
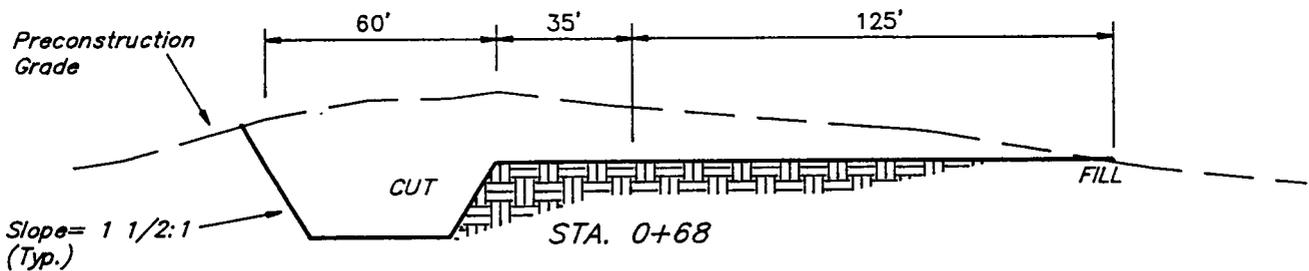
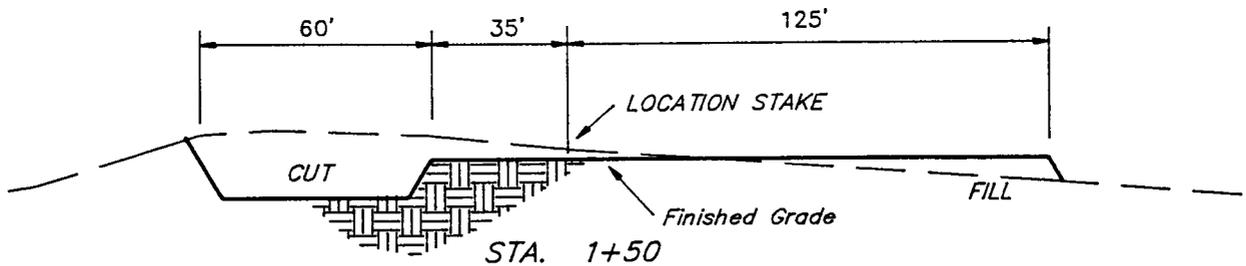
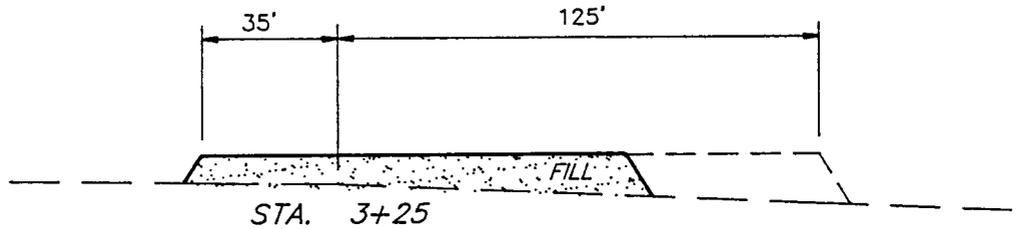
CHANDLER & ASSOCIATES, INC.

TYPICAL CROSS SECTIONS FOR

GLEN BENCH STATE #6-16
SECTION 16, T8S, R22E, S.L.B.&M.
1559' FNL 2191' FWL



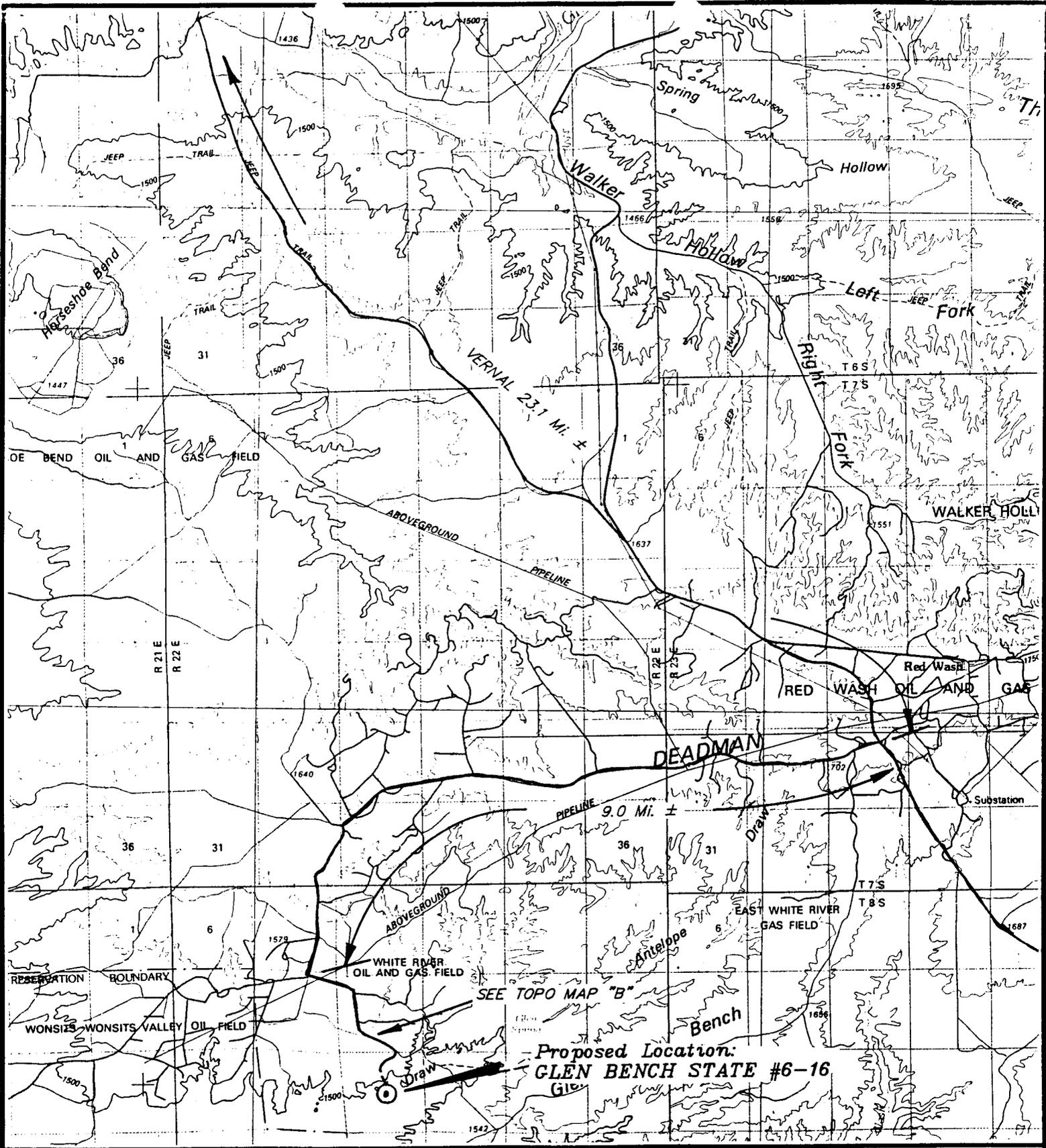
DATE: 9-10-94
Drawn By: D.J.S.
REVISED: 9-15-94 D.J.S.



APPROXIMATE YARDAGES

(6") Topsoil Stripping	=	1,070 Cu. Yds.
Remaining Location	=	5,460 Cu. Yds.
TOTAL CUT	=	6,530 CU.YDS.
FILL	=	4,590 CU.YDS.

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: 9-11-94 D.J.S.



REVISED: 9-15-94 D.J.S.

CHANDLER & ASSOCIATES, INC.

GLEN BENCH STATE #6-16
SECTION 16, T8S, R22E, S.L.B.&M.
1559' FNL 2191' 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)

October 4, 1994

Chandler & Associates, Inc.
555 Seventeenth Street
Anaconda Tower, Suite 1850
Denver, Colorado 80202

Re: Glen Bench State #6-16 Well, 1559' FNL, 2191' FWL, SE NW, Sec. 16, T. 8 S., R. 22 E., Uintah County, Utah

Gentlemen:

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

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

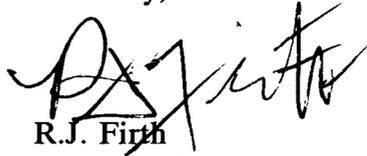
1. Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules.
2. Notification to the Division within 24 hours after drilling operations commence.
3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
4. Submittal of the Report of Water Encountered During Drilling, Form 7.
5. 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 #6-16 Well
October 4, 1994

6. 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 43-047-32549.

Sincerely,



R.J. Firth
Associate Director

ldc
Enclosures
cc: Uintah County Assessor
Bureau of Land Management, Vernal District Office
WOI1

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: CHANDLER & ASSOCIATES

WELL NAME: GLEN BENCH 6-16

API NO. 43-047-32549

Section 16 Township 8S Range 22E County UINTAH

Drilling Contractor CHANDLER

Rig # 7

SPUDDED: Date 11/26/94

Time 5:00 AM

How ROTARY

Drilling will commence _____

Reported by LEON SCHULTZ

Telephone # 1-801-828-8060

Date 11/28/94 SIGNED JLT

OPERATOR Chandler & Associates, Inc.
 ADDRESS 475 17th St, Ste 1000
Denver, Co 80202

OPERATOR ACCT. NO. H 3320

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	11716	43-047-32549	Glen Bench State 6-16	SE	16	8S	22E	Uintah	11-27-94	11-27-94
WELL 1 COMMENTS: <i>Entity added 12-19-94. JLC</i>											
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

Mgr Operations 12/15/94
Title Date

Phone No. 303 294-0400

RECEIVED

DEC 19 1994

STATE OF OIL GAS

RECEIVED

DEC 19 1994

RECEIVED

DEC 19 1994

DIVISION OF
OIL GAS & MINING

Chandler and Associates, Inc.

Glen Bench State #6-16

SE NW Sec. 16 T8S R22E

Uinta County, Utah

43-047-32549

Precision Core Analysis, Inc.

Chandler and Associates, Inc.
 Glen Bench State #6-16
 SE NW Sec. 16 T8S R22E
 Uinta County, Utah

Job: 9463
 Date: 09-Dec-94

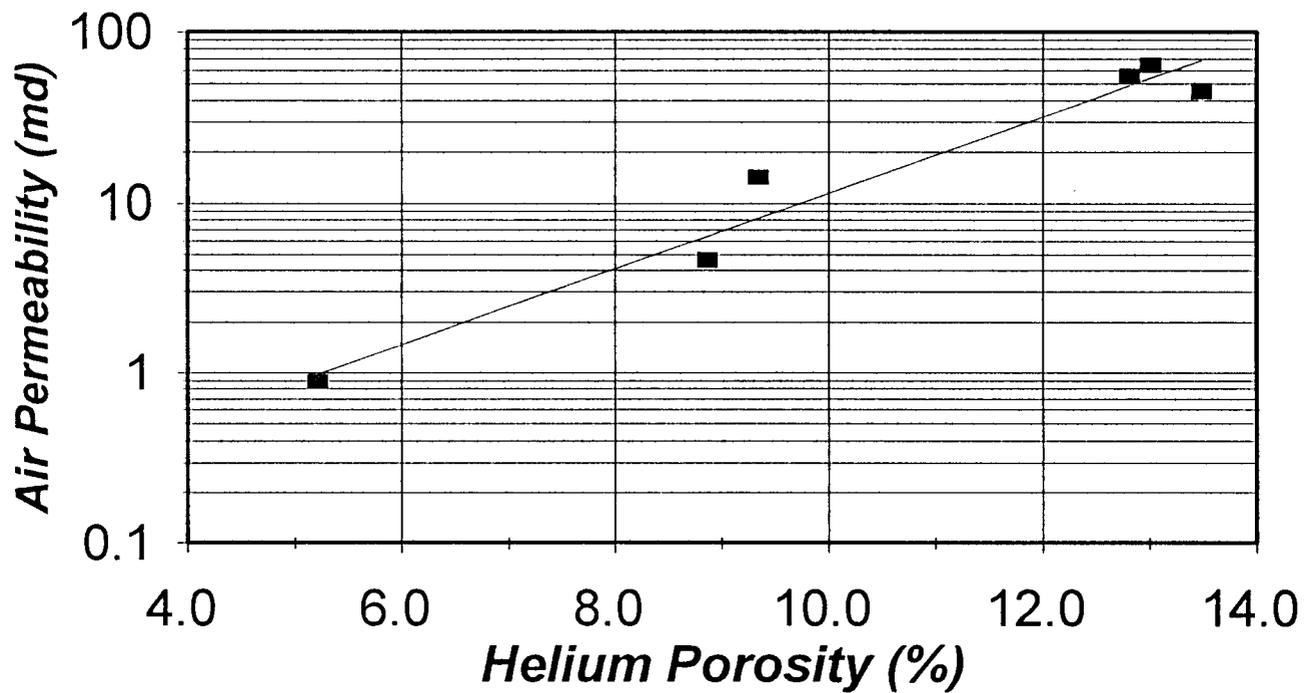
Reference Number	Depth (ft)	Perm Air (md)	Perm Klink (md)	Helium Porosity (%)	Saturations Water (%)	Oil (%)	Grain Density (g/cc)	Sample Description
<i>Core No. 1 Green River Fm. 5100.0'-5150.0' Rec. 50.0'/50.0'</i>								
1	5113.8	14.2	11.5	9.3	18.6	9.3	2.68	Sst lt gry vf gr calc
2	5114.7	55.2	46.9	12.8	25.3	12.7	2.68	Sst lt gry vf gr calc
3	5115.8	45.1	38.0	13.5	22.4	11.2	2.67	Sst lt gry vf gr calc
4	5116.3	63.8	54.7	13.0	23.5	11.7	2.68	Sst lt gry vf-f gr sl calc
5	5117.5	4.62	3.69	8.9	27.1	8.5	2.69	Sst lt gry f gr sl calc lam
6	5118.1	0.875	0.664	5.2	40.7	10.2	2.67	Sst lt gry f gr sl calc lam

Precision Core Analysis, Inc.

Chandler and Associates, Inc.
Glen Bench State #6-16
SE NW Sec. 16 T8S R22E
Uinta County, Utah

Job: 9463
Date: 09-Dec-94

Air Permeability vs Helium Porosity

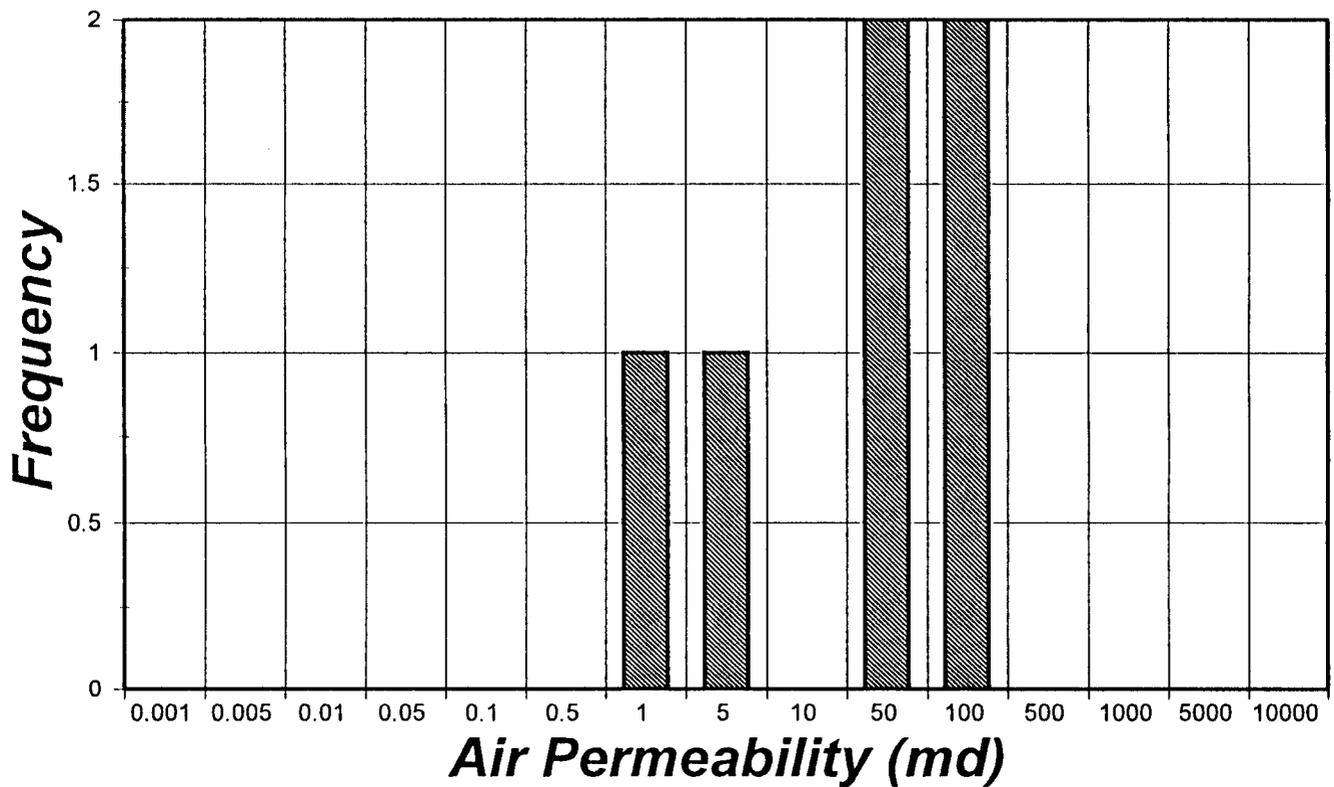


Precision Core Analysis, Inc.

Chandler and Associates, Inc.
Glen Bench State #6-16
SE NW Sec. 16 T8S R22E
Uinta County, Utah

Job: 9463
Date: 09-Dec-94

Air Permeability Frequency Distribution

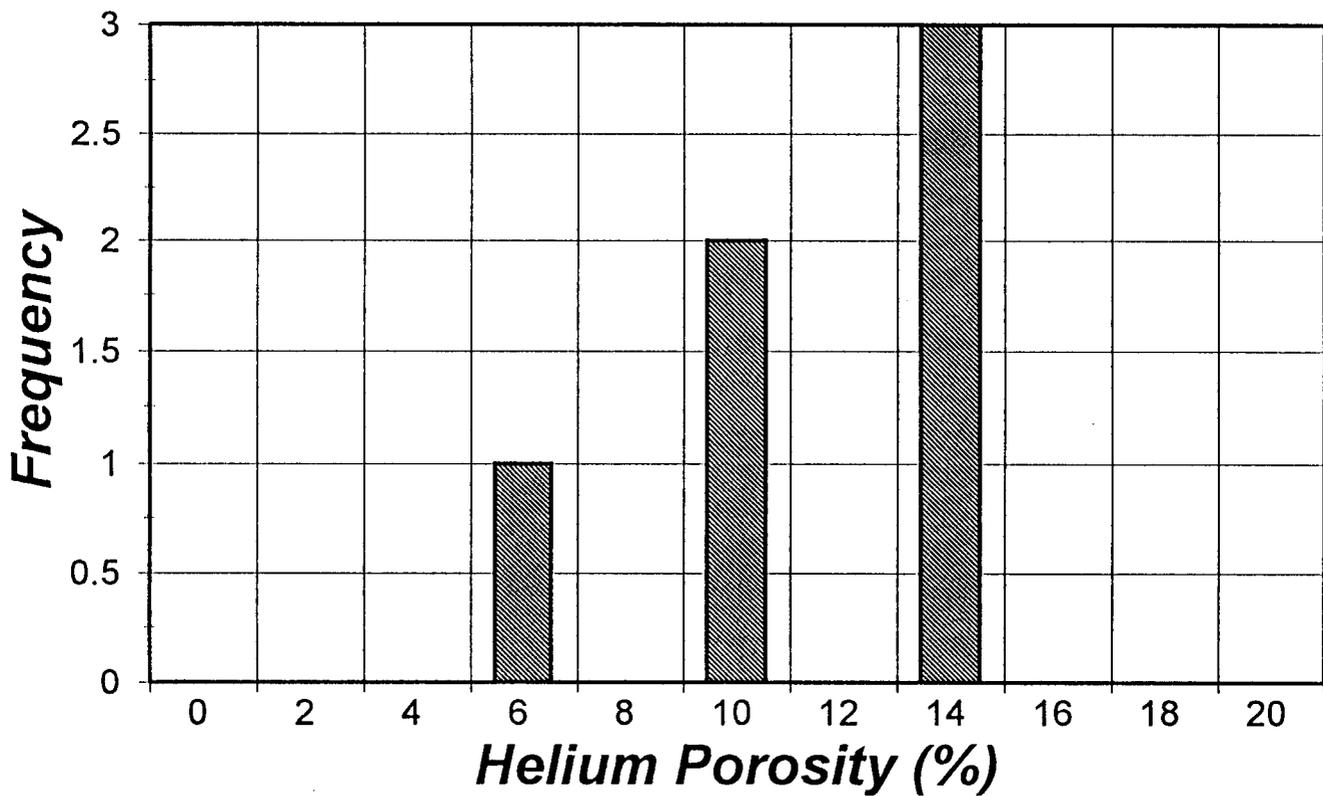


Precision Core Analysis, Inc.

Chandler and Associates, Inc.
Glen Bench State #6-16
SE NW Sec. 16 T8S R22E
Uinta County, Utah

Job: 9463
Date: 09-Dec-94

Helium Porosity Frequency Distribution



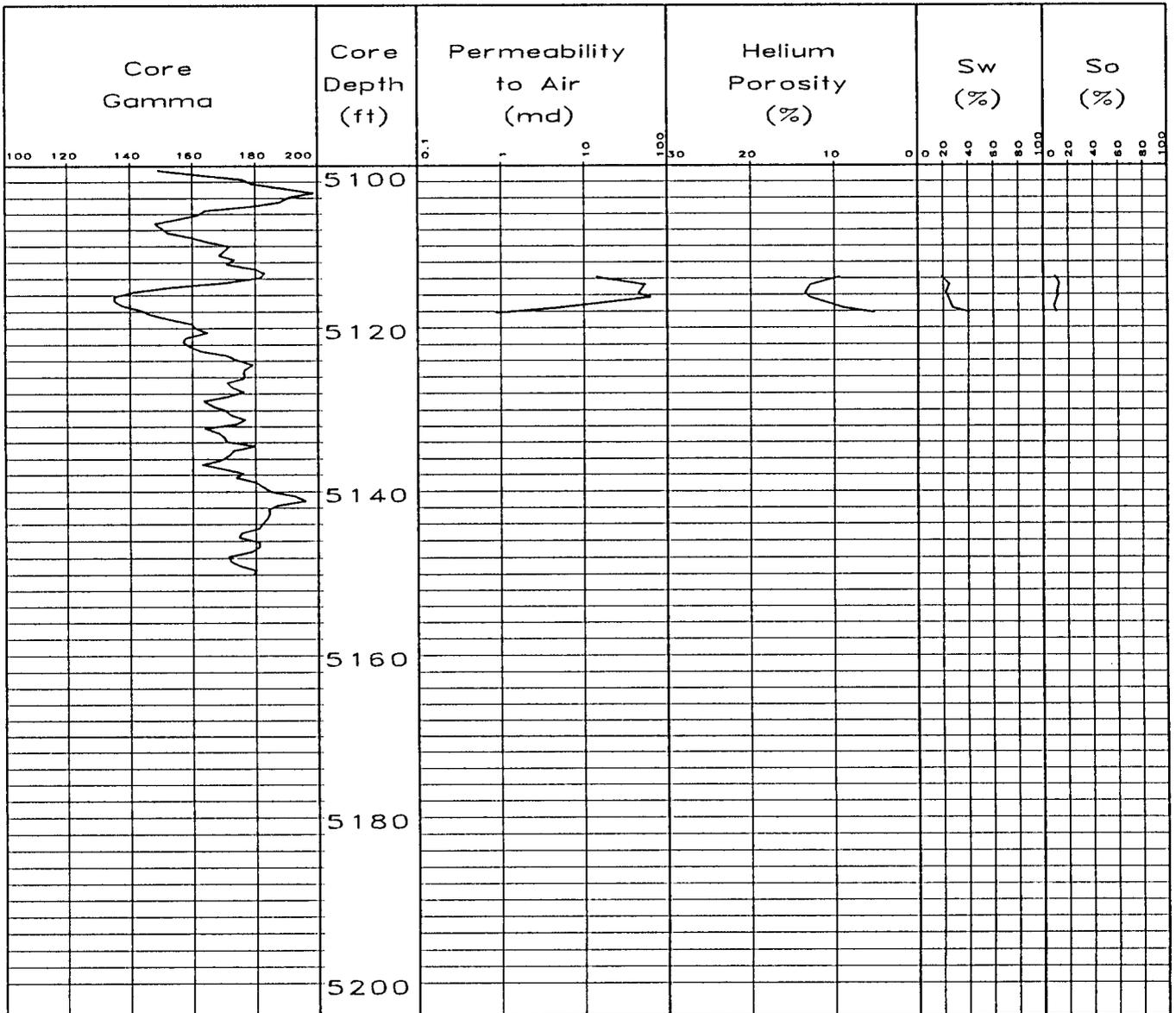
Precision Core Analysis, Inc.

Chandler and Associates, Inc.
 Glen Bench State #6-16
 SE NW Sec. 16 T8S R22E
 Uinta County, Utah

Job: 9463
 Date: 09-Dec-94

PETRO-LOG

Scale 1:240



Precision Core Analysis, Inc.

Chandler and Associates, Inc.
Glen Bench State #6-16
SE NW Sec. 16 T8S R22E
Uinta County, Utah

Job: 9463
Date: 09-Dec-94

Zone	Permeability (md)*			Porosity (%)**		
	Median	Arith. Mean	Geom. Mean	Median	Arith. Mean	Geom. Mean
Zone1	29.663	30.649	14.460	11.081	10.457	9.953

* Values above 0.00 md

** Values above 0.00 %

Precision Core Analysis, Inc.

Chandler and Associates, Inc.
Glen Bench State #6-16
SE NW Sec. 16 T8S R22E
Uinta County, Utah

Job: 9463
Date: 09-Dec-94

Zone1 Air Permeability Regression

Regression Output:

Constant	-1.169566
Std Err of Y Est	0.175112
R Squared	0.955054
No. of Observations	6.000000
Degrees of Freedom	4.000000

X Coefficient(s)	0.222783
Std Err of Coef.	0.024165

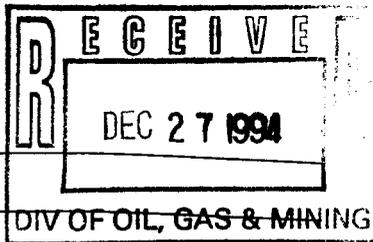
Zone1 Klinkenberg Permeability Regression

Regression Output:

Constant	-1.320647
Std Err of Y Est	0.177417
R Squared	0.956243
No. of Observations	6.000000
Degrees of Freedom	4.000000

X Coefficient(s)	0.228904
Std Err of Coef.	0.024483

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING



REPORT OF WATER ENCOUNTERED DURING DRILLING

1. Well name and number: Glen Bench State #6-16

API number: 43-047-32549

2. Well Location: QQ SEW 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 Company

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

6. Formation tops: Surface Uintah

2850' Green River

5450' (Est) Wasatch (drilled, not logged)

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: 12/23/94

Name & Signature: DM (Don) Johnson Title: Mgr-Prod/Oper

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

RECEIVED
SUBMIT IN DUPLICATE
JAN 25 1995
Other information on reverse side

WELL COMPLETION OR RECOMPLETION REPORT AND LOGGING

5. LEASE DESIGNATION AND SERIAL NO. ML-22049

6. IF INDIAN, ALLOTTEE OR TRIBE NAME NA

7. UNIT AGREEMENT NAME NA

8. FARM OR LEASE NAME Glen Bench State

9. WELL NO. 6-16

10. FIELD AND POOL, OR WILDCAT Glen Bench

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec 15-T8S-R22E SLB & M

12. COUNTY OR PARISH Uintah

13. STATE Utah

14. PERMIT NO. 43-C47-32549 DATE ISSUED 10-4-94

15. DATE SPUDDED 11-27-94 16. DATE T.D. REACHED 12-9-94 17. DATE COMPL. (Ready to prod.) 12-19-94 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 4936' GR 4948' KB 19. ELEV. CASINGHEAD - - -

20. TOTAL DEPTH, MD & TVD 5500 21. PLUG, BACK T.D., MD & TVD 5448 22. IF MULTIPLE COMPL., HOW MANY* - - - 23. INTERVALS DRILLED BY 0-TD ROTARY TOOLS 0-TD CABLE TOOLS - - -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
5106' - 5111' Glen Bench

25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN DI-FL/GR; CNL-CDL/GR

27. WAS WELL CORED Yes

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

CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8	24	388	12-1/4	285sx Glass 'G'	- - -
5-1/2	11.6	5487	7-7/8	700sx Class 'G'	- - -

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8	5140	

31. PERFORATION RECORD (Interval, size and number)

5106' - 5111'
20 shots
.38"

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
<u>5106' - 5111'</u>	<u>Brkdwn using 500gals 2% KCL. Frac using 7560gals Viking I; 13,040# 20/40 & 14,480# 16/30 sand</u>

33. PRODUCTION

DATE FIRST PRODUCTION 1-10-95 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pump (2 1/2 x 1 1/2 x 16') WELL STATUS (Producing or shut-in) Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
<u>1-13-95</u>	<u>24</u>	<u>NA</u>	<u>→</u>	<u>32</u>	<u>0</u>	<u>0</u>	<u>- - -</u>

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
<u>NA</u>	<u>NA</u>	<u>→</u>	<u>- - -</u>	<u>- - -</u>	<u>- - -</u>	<u>38.7</u>

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

35. LIST OF ATTACHMENTS Copy of core data, CBL, OPEN hole LOGS ATTACHED

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

SIGNED [Signature] TITLE Mgr. Prod/Operations DATE 1/19/95

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

INSTRUCTIONS

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

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

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

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES		38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Uintah Green River	Surface 2850'	2850'	Sandstone, Siltstone, Shale
Wasatch	5450'	5450'	Oil shale, limestone, shale sandstone, siltstone
Core:	5090'	5140'	Red shale & mudstone Oil bearing sand 5104-5111'

NAME	MEAS. DEPTH	TOP	FROM VERT. DEPTH
Green River X	4414		+534
Green River Y	4963		- 15
Glen Bench SS	5104		-156
White River SS	5364		-416

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

JAN 25 1995

6. Lease Designation and Serial Number

ML-22049

7. Indian Allottee or Tribe Name

NA

8. Unit or Communitization Agreement

NA

9. Well Name and Number

Glen Bench State 7-16

10. API Well Number

7-16

11. Field and Pool, or Wildcat

Glen Bench

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT— for such proposals

1. Type of Well

- Oil Well Gas Well Other (specify)

2. Name of Operator

Chandler and Associates

3. Address of Operator

475 17th Street--Suite 1000
Denver, CO. 80202

4. Telephone Number

303-295-0400

5. Location of Well

Footage : 1730' FNL and 1464' FFL
QQ, Sec. T., R., M. : SW/NE Sec. 16-T8S-R22E

County : Uintah

State : UTAH

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT
(Submit in Duplicate)

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

Approximate Date Work Will Start 1/20/95

SUBSEQUENT REPORT
(Submit Original Form Only)

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

Date of Work Completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Permission is requested to commingle this well with the Glen Bench State 6-16 battery which is located approx. 2500' to the southwest of this well. The wells are covered under the same lease, with the same royalties and both are Green River completions. If well tests are required the other well could be shut down for a brief period of time and the tanks gauged to determine the well production. All gas would be tied together in a common line and should be used on lease. If any excess is taken off lease, the gas volume would be measured by approved methods. The commingled flowline would consist of a 2-7/8" flowline, 2-1-1/2" trace lines and a 2" gas line which would be insulated and set on skids alongside the existing lease road. By commingling, at least one production tank could be avoided and it would limit traffic into the 7-16 well which is an area of clay and subject to erosion and bad roads.

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

Name & Signature James A. Simonton Title Agent Date 1/18/95

(State Use Only)



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

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

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

January 27, 1995

Don Johnson
Chandler & Associates
475 17th Street, Ste 1000
Denver, CO 80202

Re: Glen Bench State 7-16 and Glen Bench State 6-16 Commingling

Dear Mr. Johnson:

Pursuant to the sundry notice filed by Chandler & Associates on January 18, 1995, the Division of Oil, Gas & Mining hereby grants approval to commingle production from the Glen Bench State 7-16 well with production from the Glen Bench State 6-16 well. This approval is granted subject to the performance of 24 hour well tests on a monthly basis in order to properly allocate oil production.

Please advise if there are any questions.

Sincerely,

A handwritten signature in cursive script, appearing to read "Steven L. Schneider".

Steven L. Schneider
Audit Manager

cc: R. J. Firth
Enclosure



UTAH DIVISION OF OIL, GAS AND MINING EQUIPMENT INVENTORY

Operator: Chandler + Assoc. Lease: State: Federal: Indian: Fee:

Well Name: Glen Beach State 676 API Number: 43-047-32549

Section: 16 Township: 36 Range: 22E County: Wasatch Field: Ordway/Hot

Well Status: Prod 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>3</u>		Oil Storage Tank(s)
	<u>1</u>	<u>400</u>	Water Tank(s)
		<u>Subsurface</u>	Power Water Tank
			Condensate Tank(s)
	<u>1</u>		Propane Tank
			BBLS

REMARKS: Oil tanks have barriers. water tank is subsurface
Battery is also on Glen Beach State 7-6 Ordway/Hot gas venting.

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

Inspector: Donna W. H. [Signature] Date: 3/10/95

Chandler + Assoc. Inc

Glen Beach, Date 6-16

43-047-32579

Subscriber
pit - water
Tank

↑
North

400 Bbl
Oil
Tank

400 Bbl
Oil
Tank

400 Bbl
Oil
Tank

← Emulsion Tank 625
7-16

Berm

Propane
Tank

Access

Pump
Jack

Line
Keeper

⊙
well head

Gas Vent Line

Top
Soil

OPERATOR Equitable Resources Energy Company
Balcron Oil Division

ADDRESS P.O. Box 21017
Billings, MT 59104
(406) 255-7860

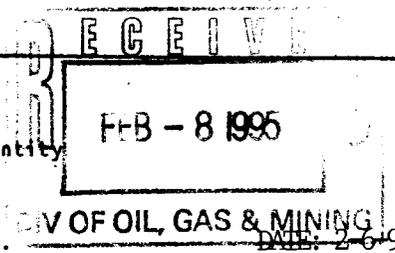
OPERATOR ACCT. NO. N 9890

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	11736	43-047-32612	Balcron Monument State #24-2	SE SW	2	9S	17E	Uintah	2-3-95	2-3-95
WELL 1 COMMENTS: Spud of a new well.											
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.



Robbie Schuman
Signature
Regulatory & Environmental Specialist
Title ~~XXXX~~

Phone No. (406) 259-7860

MAR 06 2000

SUPPLEMENT TO ATTACHMENTS

DIVISION OF OIL, GAS AND MINING

1. Application for Injection Well - Glen Bench State #6-16:

Shenandoah Energy Inc. is applying to convert the Glen Bench State #6-16 into an Underground Injection Control (UIC) well. The Glen Bench State #6-16 is within the boundaries of an existing, approved Enhanced Recovery Unit (UTU 73974 A) and currently produces from the Glen Bench sandstone of the Green River Formation. All information regarding the Glen Bench Unit, such as engineering report, maps, well tests, and logs have been submitted to the State of Utah, Bureau of Land Management, Bureau of Indian Affairs and Environmental Protection Agency.

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

Attachment A is a 7.5 minute topographic map which shows the Area of Review (AOR) as defined by an area with 1/2 mile radius from the proposed Class II injector, Glen Bench State #6-16. There are no known active water wells within the boundaries of the area of review and there are ~~two~~ ^{one} active injection wells within the AOR..

*radius 1/2 mile (2 wells for many)
- miscel 2 wells for platte
• Utah Test #1 (174)
• 11-16-8-22*

3. Logs:

Copies of the Cement Bond Log, Dual Induction - SFL, and Compensated Neutron-Formation Density logs on the Glen Bench State #6-16 are being submitted with this application. Log information of wells within the AOR is on file with State of Utah, Division of Oil, Gas and Mining.

4. Construction details - Attachment B:

The well bore profile for Glen Bench State #6-16 shows the current construction. The string of surface protection consists of 388', 8-5/8", 24#, J-55 casing set with 285 sacks of class 'G' cement in a 12-1/4" hole. Production string consists of 5353' of 5-1/2", 11.6#, J-55 casing set with 700 sacks of class 'G' cement in a 7-7/8" hole. Cement was circulated to surface. Top of cement is estimated from cement bond log to be at 2150'. The perforated interval (5106'-5111') or injection zone appears to have bond in excess of 95%. The 2-7/8" tubing is to be secured with a full bore 'Arrowset' packer set at approximately 5044' w/15,000# tension.

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

- 1) MIRU, Unseat pump. POOH w/ rods and pump.
- 2) RIH with bit and scraper to PBSD.
- 3) Set ret. Packer @ 5050'
- 4) Test well for Mechanical Integrity (MIT); if passed successfully, hook up surface equipment, place well on injection status, and wait on approval to start injection.

5. Injection Fluid - Attachment C:

Earliest produced water analysis from the Glen Bench zone in the ~~near~~ by Glen Bench State #6-16 was performed in February 1997 the results are listed below.


 { Total Dissolved Solids (TDS) = 16,351 Mg/l(ppm)
 pH = 9.2
 Specific Gravity = 1.008

Subsequent sampling as the waterflood operations have progressed has resulted in a noticeable decline in TDS due to the properties the nature of the injected source water. The primary water source for injection would be

produced water from the secondary recovery project, additional water would be obtained from the White River #31-4 well in Section 4, T8S, R22E. This well has been approved as source water for water floods, State of Utah water user claim Code #49, Serial #287. Shenandoah Energy Inc. is the operator of record for this water source well. The water sampled at the plant inlet on May 1999 has a specific gravity of 1.005 gm/cc, pH of 9.0 and TDS of 5689 mg/l.

*How much water can be injected?
R6A9-5-2-26*

6. Operating Data - Attachment D:

A Zonal Isolation Step Rate Test was performed on the Glen Bench State #6-16, December 1999 by injecting 2% KCl in the proposed injection zone (5106'-5111') and pressures measured when stabilized at five minute intervals. The face fracture gradient for the Glen Bench zone of Green River Formation calculated to be 0.618 psi/ft, the gradient was determined using the breakpoint on the injectivity test.

- 1) The anticipated maximum daily injection volume would be approximately 720 bbls of fluid.
940 psi @ 0.5 BPM = 720 BWPD
- 2) The estimated injection pressure gradient is derived from the Step Rate Test .
5111' x 0.434 psi./ft. = 2218 psi.
Injected pressure = 940 psi. + 2218 psi. = 3158 psi.
Injected pressure gradient = 3158 psi. / 5111' = 0.618 psi/ft.
- 3) Theoretical maximum allowable surface injection pressure (Pm) is 945 psi.
Pm = maximum pressure at the wellhead
1.005 = specific gravity of injected fluid
0.618 = face fracture gradient
5111' = depth to base sand
.434 = normal pressure gradient
Pm = [0.618- 0.434 (1.005)] 5111 = 945 psig
- 4) Nature of the annulus fluid is described as packer fluid; a mixture of fresh water with scale and corrosion inhibitors.

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

The proposed injection interval in the Glen Bench State #6-16 is the existing perforations in the Glen Bench (Local Name) pay zone of the Tertiary Green River formation at 5106'-5111' KB. The total section of the Green River formation that overlies the proposed injection interval is approximately 2256' thick. The lithology of this rock section consists of shales, siltstones, limestones and thin sandstone lenses. The Glen Bench zone for this well is an interval seven feet (5105'- 5112') thick, and is made up of almost entirely of sandstone; described as white to light gray, very fine grained, angular to sub-angular, medium sorted, unconsolidated, slightly calcareous friable sandstone. The confining zone above the proposed injection zone consists of 285' of shale (4820' - 5105') that is calcareous in part with occasional thin siltstone and sandstone stringers.

A core was cut and recovered over the Glen Bench pay zone, there were no drill stem tests. Core porosity ranges from 8.9% to 13.5%, which compares well with measured log porosity. Average porosity for the Glen Bench interval is estimated at 11%. Measured permeability from the core ranged from a low of 11.5 md to a high of 63.8 md, average permeability is estimated at 30.65 md.

There were no observed fresh water zones encountered while drilling this well. The base of moderately saline water (TDS 10,000 mg/l or less) is derived from USGS OPEN-FILE REPORT 87-394/Utah Dept. of Natural Resource Technical Pub. No. 92; Base of Moderately Saline Ground Water in the Unita Basin, Utah, 1987; Howell, L., Longson, M.S., and Hunt, G.L. From this publication and corresponding plates, it appears that the base of moderately saline water is between 2,000' and 3,000' below sea level which corresponds approximately to the base Unita/top Green River contact in the Glen Bench State #6-16 well bore at 2850' KB (+2098').

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

*are MITS?
any cement programs?*

The Glen Bench #12-16 and the Glen Bench #7-16 are within the AOR for the Glen Bench State #6-16 and are both injection wells for the recovery unit and in good working condition. The White River Unit #43-16 produce oil from a Green River sand known locally as the White River sand, which is stratigraphically higher in the section than the Glen Bench sand and was plugged back to a depth of 4862', effectively covered the Glen Bench zone at 5186'. White River Unit #16-9 is a shut in oil producer from a 'stray' Green River sand at 5525'-5527'. Attachment F contains the well bore diagrams for both these wells

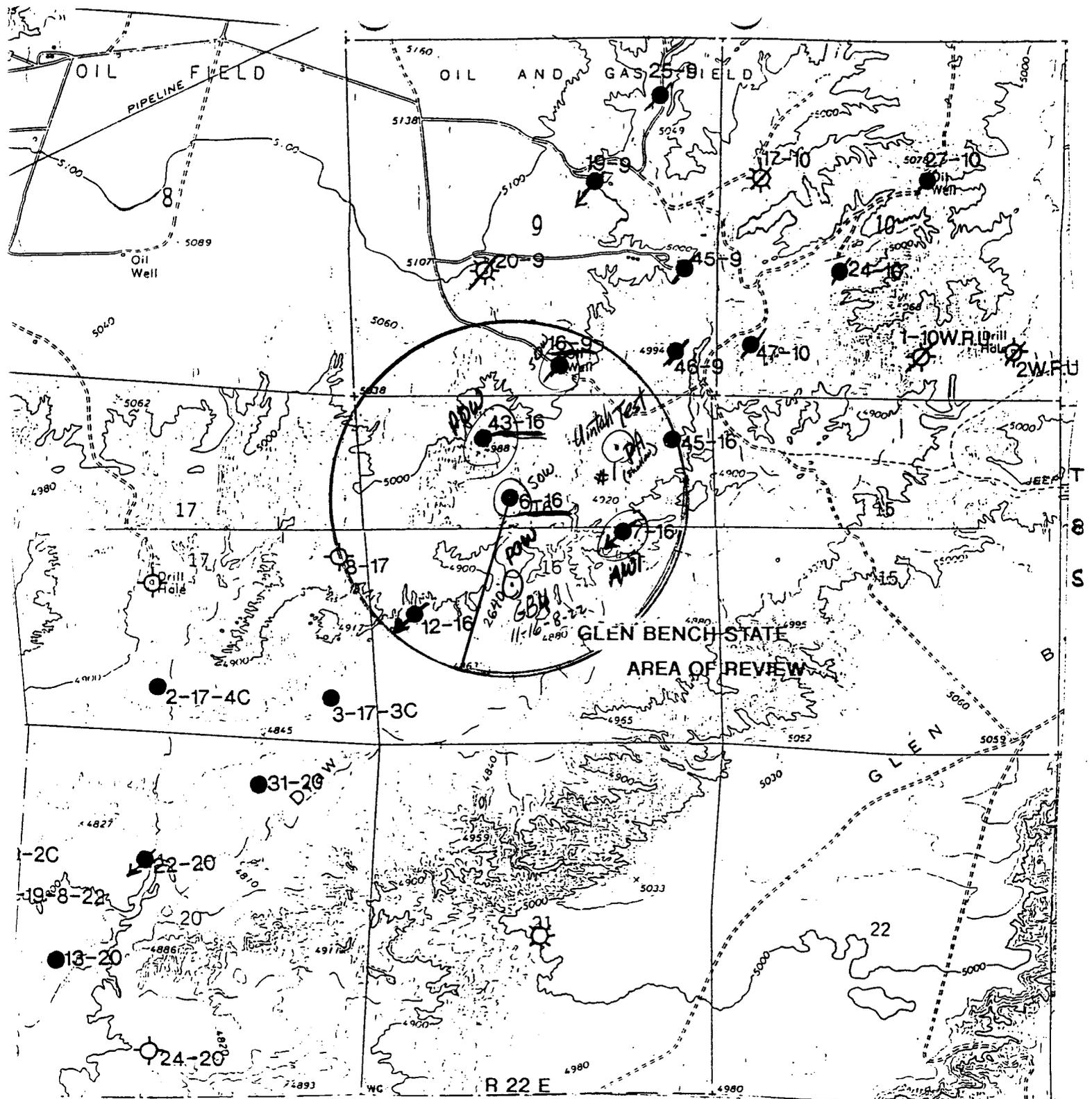
9. Surface Ownership Attachment G: *← Where is it?*

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

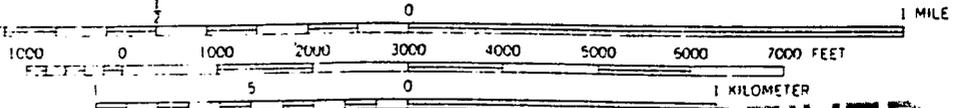
State 6-16

- ~~Section 19, T8S R22E, all: USA; In Trust For The Ute Indian Tribe~~
- ~~Section 16, T8S R22E; all: State of Utah.~~

*S.9
S.17*



SCALE 1:24 000



CONTOUR INTERVAL 20 FEET
 DOTTED LINES REPRESENT 10-FOOT CONTOURS
 DATUM IS MEAN SEA LEVEL

RECEIVED

MAR 06 2000

DIVISION OF
 MINING

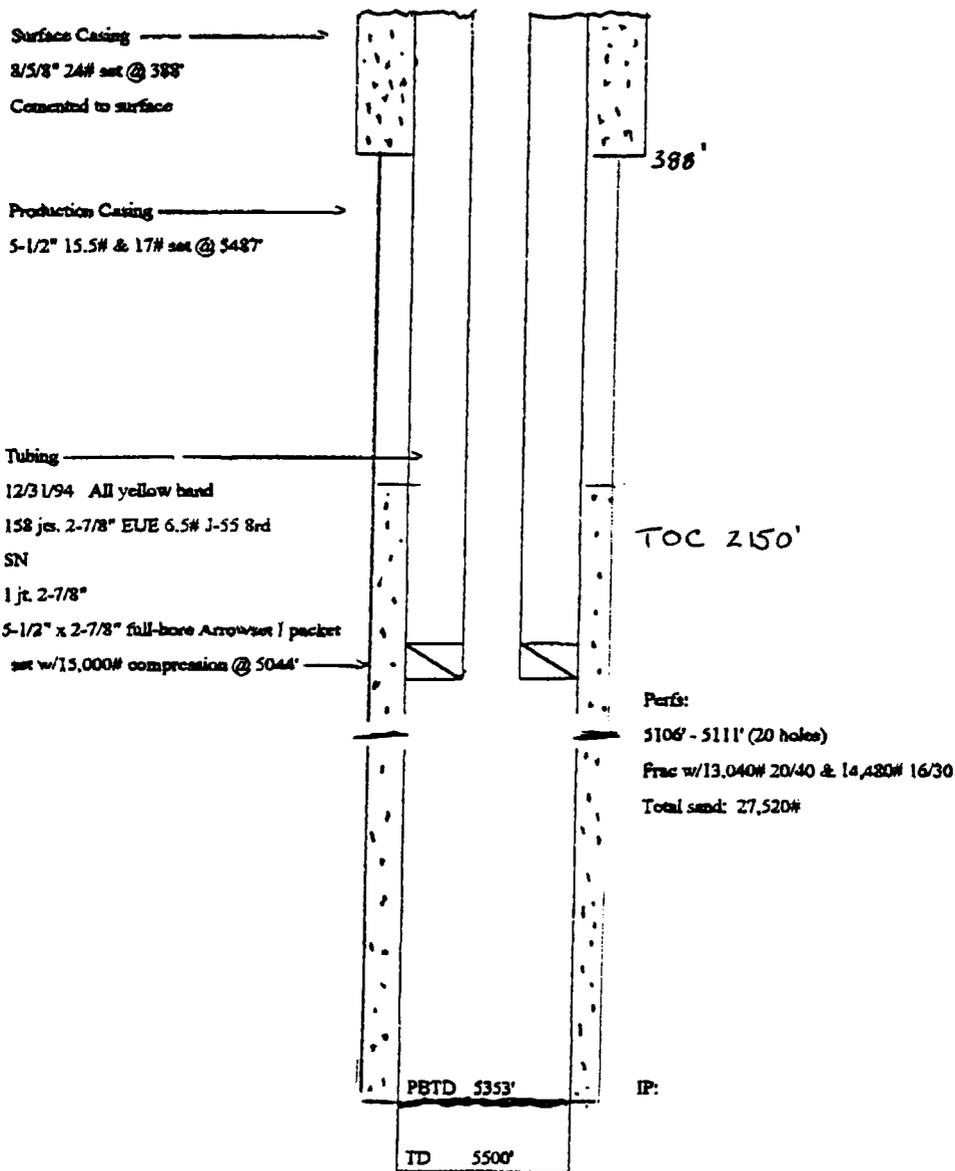
GRID AND 1968 MAGNETIC NORTH
 DIRECTION AT CENTER OF SHEET

1°00' 18 MILS
 15' 267 MILS

SOW

Well Name: Glen Beach 6-16
 Location: SENW Sec. 16, T8S, R22E
 Field: Glen Beach
 Spud Date:
 Completed: 12/31/94

Date of last work: 12-17-99
 County: Uintah
 State: Utah
 KB: 4948' (12)
 GL: 4936'



DST:

IP:

RECEIVED

MAR 06 2000

DIVISION OF
 OIL, GAS AND MINING

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

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

2. NAME OF OPERATOR
Chandler & Associates, Inc.

3. ADDRESS OF OPERATOR
475 17th St, Ste 1000 Denver, Co 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1559' FNL & 2191' FWL (SE NW)

At top prod. interval reported below same

At total depth same

14. PERMIT NO. 43-047-32549 DATE ISSUED 10-4-94

5. LEASE DESIGNATION AND SERIAL NO.

ML-22049

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT AGREEMENT NAME

NA

8. FARM OR LEASE NAME

Glen Bench State

9. WELL NO.

6-16

10. FIELD AND POOL, OR WILDCAT

Glen Bench

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

Sec 15-T8S-R22E

SLB & M

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

15. DATE SPUDDED 11-27-94 16. DATE T.D. REACHED 12-9-94 17. DATE COMPL. (Ready to prod.) 12-19-94 18. ELEVATIONS (DF, RBS, RT, GR, ETC.)* 4936' GR 4948' KB 19. ELEV. CASINGHEAD - - - -

20. TOTAL DEPTH, MD & TVD 5500 21. PLUG BACK T.D., MD & TVD 5448 22. IF MULTIPLE COMPL., HOW MANY* - - - 23. INTERVALS DRILLED BY - - - ROTARY TOOLS 0-TD CABLE TOOLS - - -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 5106' - 5111' Glen Bench 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN DI-FL/GR; CNL-CDL/GR 27. WAS WELL CORED Yes

29. 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	388	12-1/4	285sx Glass 'G'	- - -
5-1/2	11.6	5487	7-7/8	700sx Class 'G'	- - -

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8	5140	

31. PERFORATION RECORD (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

INTERVAL	SHOTS	SIZE	AMOUNT AND KIND OF MATERIAL USED
5106' - 5111'	20	.38"	Brkdown using 500gals 2% KCL. Frac using 7560gals Viking I; 13.040# 20/40 & 14.480# 16/30 sand

RECEIVED
MAR 06 2000
DIVISION OF OIL, GAS AND MINING

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
1-10-95	Pump (2 1/2 x 1 1/2 x 16')	Producing					
DATE OF TEST	HOURS TESTED	CHOKED SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF.	WATER—BSL.	GAS-OIL RATIO
1-13-95	24	NA	32	0	0	- - -	- - -
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL.	GAS—MCF.	WATER—BSL.	OIL GRAVITY-API (CORR.)	
NA	NA	- - -	- - -	- - -	- - -	38.7	

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

35. LIST OF ATTACHMENTS

Copy of core data, CBL OPEN hole LOGS ATTACHED

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

SIGNED [Signature] TITLE Mgr., Prod/Operations DATE 1/19/95

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

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

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

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

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

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CONED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUMULON USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERING		38. GEOLOGIC MARKERS		
FORMATION	TOP	DESCRIPTION, CONTENTS, ETC.	BOTTOM	
Uintah	Surface	Sandstone, Siltstone, Shale Oil shale, Limestone, shale sandstone, siltstone Red shale & mudstone Oil bearing sand 5104-5111'	2850'	
Green River	2850'		5450'	
Wasatch	5450'		5500'	
Core:	5090'		5140'	
MEAS. DEPTH				
NAME				
TOP				
FROM VERT. DEPTH				
		Green River X	4414	+534
		Green River Y	4963	- 15
		Glen Bench SS	5104	-156
		White River SS	5364	-416

MAR 06 2000

WATER ANALYSIS REPORT

DIVISION OF
OIL, GAS AND MINING

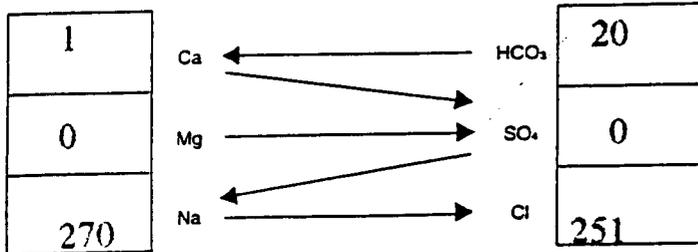
Company CHANDLER AND ASSOCIATES Address _____ Date 02-27-97

Source 6-16 Date Sampled 02-16-97 Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>9.2</u>		
2. H ₂ S (Qualitative)	<u>0.5</u>		
3. Specific Gravity	<u>1.008</u>		
4. Dissolved Solids		<u>16.351</u>	
5. Alkalinity (CaCO ₃)		<u>20</u>	
6. Bicarbonate (HCO ₃)		<u>1.200</u>	÷ 61 <u>20</u> HCO ₃
7. Chlorides (Cl)		<u>8.900</u>	÷ 35.5 <u>251</u> Cl
8. Sulfates (SO ₄)		<u>0</u>	÷ 48 <u>0</u> SO ₄
9. Calcium (Ca)		<u>16</u>	÷ 20 <u>1</u> Ca
10. Magnesium (Mg)		<u>0</u>	÷ 12.2 <u>0</u> Mg
11. Total Hardness (CaCO ₃)		<u>40</u>	
12. Total Iron (Fe)		<u>1.2</u>	
13. Manganese			
14. Barium (Qualitative)			
15. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04		<u>1</u>		<u>81</u>
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00		<u>19</u>		<u>1,596</u>
Na ₂ SO ₄	71.03				
NaCl	58.46		<u>251</u>		<u>14,674</u>

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

REMARKS _____

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WATER ANALYSIS REPORT

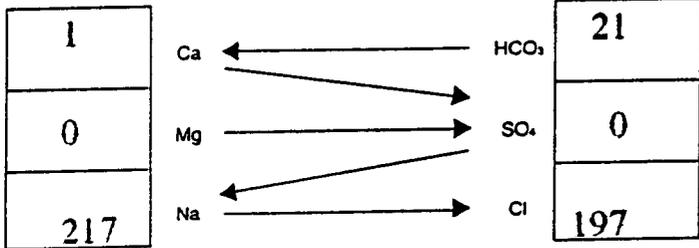
Company CHANDLER AND ASSOCIATES Address _____ Date 02-27-97

Source G.B. 6-16 Date Sampled 02-26-97 Analysis No. _____

	Analysis	mg/l(ppm)	*Meq/l
1. PH	<u>9.2</u>		
2. H ₂ S (Qualitative)	<u>7.0</u>		
3. Specific Gravity	<u>1.003</u>		
4. Dissolved Solids		<u>13,278</u>	
5. Alkalinity (CaCO ₃)		<u>100</u>	
6. Bicarbonate (HCO ₃)		<u>1.250</u>	÷ 61 <u>21</u> HCO ₃
7. Chlorides (Cl)		<u>7.000</u>	÷ 35.5 <u>197</u> Cl
8. Sulfates (SO ₄)		<u>0</u>	÷ 48 <u>0</u> SO ₄
9. Calcium (Ca)		<u>16</u>	÷ 20 <u>1</u> Ca
10. Magnesium (Mg)		<u>0</u>	÷ 12.2 <u>0</u> Mg
11. Total Hardness (CaCO ₃)		<u>40</u>	
12. Total Iron (Fe)		<u>0.6</u>	
13. Manganese			
14. Barium (Qualitative)			
15. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equly. Wt.	X	Meq/l	=	Mg/l
Ca(HCO ₃) ₂	81.04		<u>1</u>		<u>81</u>
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00		<u>20</u>		<u>1,680</u>
Na ₂ SO ₄	71.03				
NaCl	58.46		<u>197</u>		<u>11,517</u>

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

REMARKS _____

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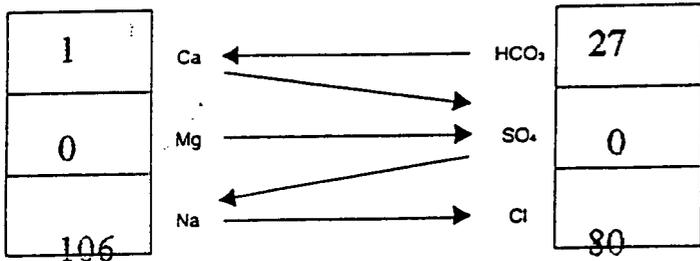
Company CHANDLER AND ASSOCIATES Address _____ Date 07-09-97

Source WR 6-16 Date Sampled 07-08-97 Analysis No. _____

	Analysis	mg/l(ppm)	*Meq/l
1. PH	<u>8.7</u>		
2. H ₂ S (Qualitative)	<u>23.</u>		
3. Specific Gravity	<u>1.004</u>		
4. Dissolved Solids		<u>6,942</u>	
5. Alkalinity (CaCO ₃)		CO ₃ <u>60</u>	÷ 30 <u>2</u> CO ₃
6. Bicarbonate (HCO ₃)		HCO ₃ <u>1,500</u>	÷ 61 <u>25</u> HCO ₃
7. Hydroxyl (OH)		OH <u>0</u>	÷ 17 <u>0</u> OH
8. Chlorides (Cl)		Cl <u>2,800</u>	÷ 35.5 <u>80</u> Cl
9. Sulfates (SO ₄)		SO ₄ <u>0</u>	÷ 48 <u>0</u> SO ₄
10. Calcium (Ca)		Ca <u>16</u>	÷ 20 <u>1</u> Ca
11. Magnesium (Mg)		Mg <u>0</u>	÷ 12.2 <u>0</u> Mg
12. Total Hardness (CaCO ₃)		<u>40</u>	
13. Total Iron (Fe)		<u>1.0</u>	
14. Manganese			
15. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca(HCO ₃) ₂	81.04		<u>1</u>		<u>81</u>
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00		<u>26</u>		<u>2,184</u>
Na ₂ SO ₄	71.03				
NaCl	58.46		<u>80</u>		<u>4,677</u>

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

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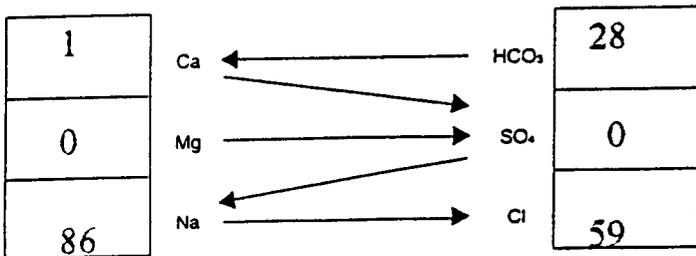
Company CHANDLER AND ASSOCIATES Address _____ Date 11-19-97

Source 6-16 Date Sampled 11-18-97 Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>8.7</u>		
2. H ₂ S (Qualitative)	<u>18</u>		
3. Specific Gravity	<u>1.006</u>		
4. Dissolved Solids		<u>5,798</u>	
5. Alkalinity (CaCO ₃)		<u>180</u>	÷ 30 <u>6</u> CO ₃
6. Bicarbonate (HCO ₃)		<u>1,350</u>	÷ 61 <u>22</u> HCO ₃
7. Hydroxyl (OH)		<u>0</u>	÷ 17 <u>0</u> OH
8. Chlorides (Cl)		<u>2,100</u>	÷ 35.5 <u>59</u> Cl
9. Sulfates (SO ₄)		<u>0</u>	÷ 48 <u>0</u> SO ₄
10. Calcium (Ca)		<u>12</u>	÷ 20 <u>1</u> Ca
11. Magnesium (Mg)		<u>1</u>	÷ 12.2 <u>0</u> Mg
12. Total Hardness (CaCO ₃)		<u>35</u>	
13. Total Iron (Fe)		<u>0.7</u>	
14. Manganese			
15. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04		<u>1</u>		<u>81</u>
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00		<u>27</u>		<u>2,268</u>
Na ₂ SO ₄	71.03				
NaCl	58.46		<u>59</u>		<u>3,449</u>

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

REMARKS _____

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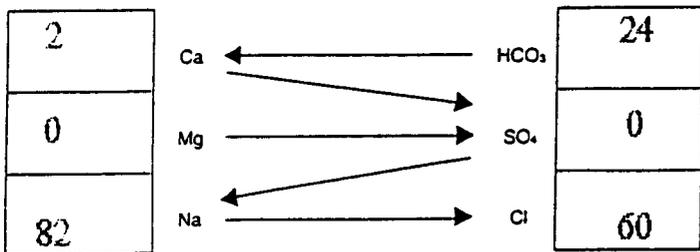
WATER ANALYSIS REPORT

Company CHANDLER AND ASSOCIATES Address _____ Date 07-02-98
Source 6-16 Date Sampled ? Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>9.2</u>		
2. H ₂ S (Qualitative)	<u>15</u>		
3. Specific Gravity	<u>1.004</u>		
4. Dissolved Solids		<u>5,518</u>	
5. Alkalinity (CaCO ₃)		<u>120</u>	÷ 30 <u>4</u> CO ₃
6. Bicarbonate (HCO ₃)		<u>1,200</u>	÷ 61 <u>20</u> HCO ₃
7. Hydroxyl (OH)		<u>0</u>	÷ 17 <u>0</u> OH
8. Chlorides (Cl)		<u>2,100</u>	÷ 35.5 <u>60</u> Cl
9. Sulfates (SO ₄)		<u>0</u>	÷ 48 <u>0</u> SO ₄
10. Calcium (Ca)		<u>40</u>	÷ 20 <u>2</u> Ca
11. Magnesium (Mg)		<u>0</u>	÷ 12.2 <u>0</u> Mg
12. Total Hardness (CaCO ₃)		<u>100</u>	
13. Total Iron (Fe)		<u>6.0</u>	
14. Manganese			
15. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04	<u>2</u>			<u>162</u>
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00	<u>22</u>			<u>1,848</u>
Na ₂ SO ₄	71.03				
NaCl	58.46	<u>60</u>			<u>3,508</u>

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

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WATER ANALYSIS REPORT

Company **CHANDLER AND ASSOCIATES**

Date **04-05-99**

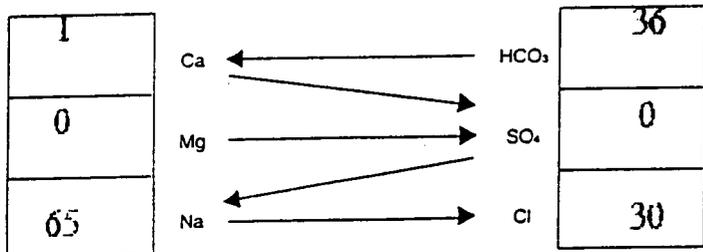
Address _____

Source **6-16 Glen Beach** Date Sampled _____ Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>8.8</u>		
2. H ₂ S (Qualitative)	<u>43</u>		
3. Specific Gravity	<u>1.005</u>		
4. Dissolved Solids		<u>4,775</u>	
5. Alkalinity (CaCO ₃)	CO ₃	<u>0</u>	÷ 30 <u>0</u> CO ₃
6. Bicarbonate (HCO ₃)	HCO ₃	<u>2,200</u>	÷ 61 <u>36</u> HCO ₃
7. Hydroxyl (OH)	OH	<u>0</u>	÷ 17 <u>0</u> OH
8. Chlorides (Cl)	Cl	<u>1,050</u>	÷ 35.5 <u>30</u> Cl
9. Sulfates (SO ₄)	SO ₄	<u>0</u>	÷ 48 <u>0</u> SO ₄
10. Calcium (Ca)	Ca	<u>10</u>	÷ 20 <u>1</u> Ca
11. Magnesium (Mg)	MG	<u>3</u>	÷ 12.2 <u>0</u> Mg
12. Total Hardness (CaCO ₃)		<u>40</u>	
13. Total Iron (Fe)		<u>0.3</u>	
14. Manganese			
15. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04	<u>1</u>			<u>81</u>
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00	<u>35</u>			<u>2,940</u>
Na ₂ SO ₄	71.03				
NaCl	58.46	<u>30</u>			<u>1,754</u>

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

REMARKS _____

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ATTACHMENT C

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WATER ANALYSIS REPORT

Company CHANDLER AND ASSOCIATES Address _____ Date 05-08-99
Source GLEN BENCH INJECTION Date Sampled 05-08-99 Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>9.0</u>		
2. H ₂ S (Qualitative)	<u>26</u>		
3. Specific Gravity	<u>1.005</u>		
4. Dissolved Solids		<u>5,689</u>	
5. Alkalinity (CaCO ₃)	CO ₃	<u>0</u>	÷ 30 <u>0</u> CO ₃
6. Bicarbonate (HCO ₃)	HCO ₃	<u>1,600</u>	÷ 61 <u>26</u> HCO ₃
7. Hydroxyl (OH)	OH	<u>0</u>	÷ 17 <u>0</u> OH
8. Chlorides (Cl)	Cl	<u>2,100</u>	÷ 35.5 <u>60</u> Cl
9. Sulfates (SO ₄)	SO ₄	<u>0</u>	÷ 48 <u>0</u> SO ₄
10. Calcium (Ca)	Ca	<u>10</u>	÷ 20 <u>1</u> Ca
11. Magnesium (Mg)	MG	<u>1</u>	÷ 12.2 <u>0</u> Mg
12. Total Hardness (CaCO ₃)		<u>30</u>	
13. Total Iron (Fe)		<u>0.1</u>	
14. Manganese		<u>0</u>	
15. Phosphate Residuals		<u>24</u>	

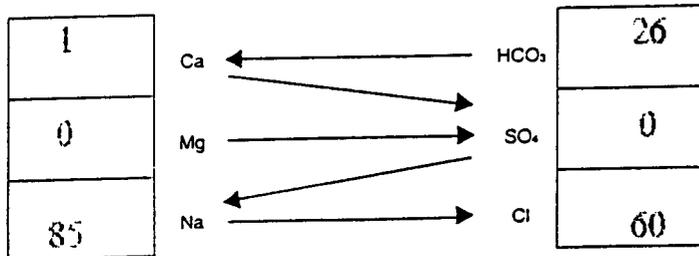
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*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04	<u>1</u>			<u>81</u>
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00	<u>25</u>			<u>2,100</u>
Na ₂ SO ₄	71.03				
NaCl	58.46	<u>60</u>			<u>3,508</u>

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

REMARKS _____

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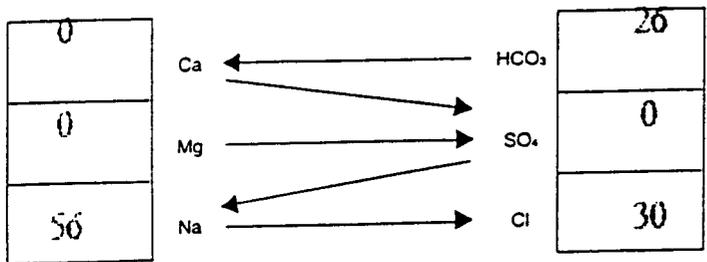
WATER ANALYSIS REPORT

Company CHANDLER AND ASSOCIATES Address _____ Date 04-27-99
Source GLEN BENCH Date Sampled 04-27-99 Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>8.8</u>		
2. H ₂ S (Qualitative)	<u>30</u>		
3. Specific Gravity	<u>1.003</u>		
4. Dissolved Solids		<u>3,938</u>	
5. Alkalinity (CaCO ₃)		<u>0</u>	÷ 30 <u>0</u> CO ₃
6. Bicarbonate (HCO ₃)		<u>1,600</u>	÷ 61 <u>26</u> HCO ₃
7. Hydroxyl (OH)		<u>0</u>	÷ 17 <u>0</u> OH
8. Chlorides (Cl)		<u>1,100</u>	÷ 35.5 <u>30</u> Cl
9. Sulfates (SO ₄)		<u>0</u>	÷ 48 <u>0</u> SO ₄
10. Calcium (Ca)		<u>8</u>	÷ 20 <u>0</u> Ca
11. Magnesium (Mg)		<u>0</u>	÷ 12.2 <u>0</u> Mg
12. Total Hardness (CaCO ₃)		<u>20</u>	
13. Total Iron (Fe)		<u>0.4</u>	
14. Manganese		<u>0</u>	
15. Phosphate Residuals		<u>5</u>	

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04				
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00		<u>26</u>		<u>2,184</u>
Na ₂ SO ₄	71.03				
NaCl	58.46		<u>30</u>		<u>1,754</u>

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

REMARKS _____

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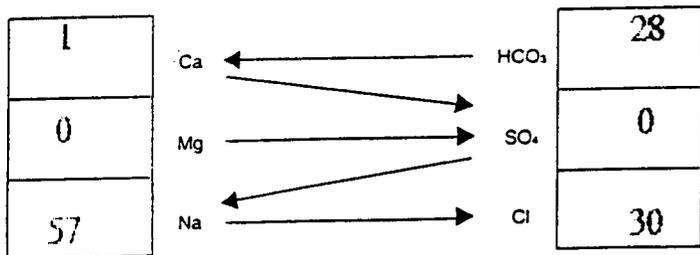
WATER ANALYSIS REPORT

Company CHANDLER AND ASSOCIATES Address _____ Date 04-23-99
Source GLEN BENCH Date Sampled _____ Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>8.5</u>		
2. H ₂ S (Qualitative)	<u>34</u>		
3. Specific Gravity	<u>1.003</u>		
4. Dissolved Solids		<u>4,103</u>	
5. Alkalinity (CaCO ₃)		<u>0</u>	÷ 30 <u>0</u> CO ₃
6. Bicarbonate (HCO ₃)		<u>1,700</u>	÷ 61 <u>28</u> HCO ₃
7. Hydroxyl (OH)		<u>0</u>	÷ 17 <u>0</u> OH
8. Chlorides (Cl)		<u>1,050</u>	÷ 35.5 <u>30</u> Cl
9. Sulfates (SO ₄)		<u>0</u>	÷ 48 <u>0</u> SO ₄
10. Calcium (Ca)		<u>16</u>	÷ 20 <u>1</u> Ca
11. Magnesium (Mg)		<u>0</u>	÷ 12.2 <u>0</u> Mg
12. Total Hardness (CaCO ₃)		<u>40</u>	
13. Total Iron (Fe)		<u>0.3</u>	
14. Manganese		<u>0</u>	
15. Phosphate Residuals		<u>0</u>	

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04	<u>1</u>			<u>81</u>
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00	<u>27</u>			<u>2,268</u>
Na ₂ SO ₄	71.03				
NaCl	58.46	<u>30</u>			<u>1,754</u>

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

REMARKS _____

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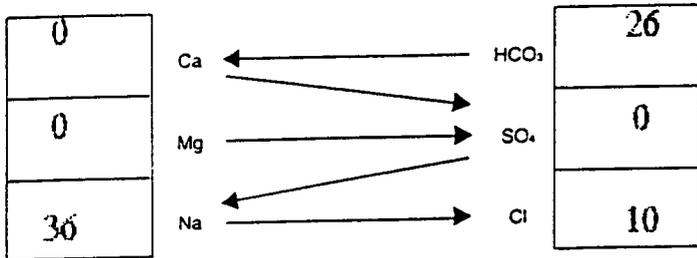
WATER ANALYSIS REPORT

Company CHANDLER AND ASSOCIATES Address _____ Date 03-23-99
Source GLEN BENCH INLET Date Sampled 03-23-99 Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>8.0</u>		
2. H ₂ S (Qualitative)	<u>33</u>		
3. Specific Gravity	<u>1.002</u>		
4. Dissolved Solids		<u>2,769</u>	
5. Alkalinity (CaCO ₃)		<u>0</u>	÷ 30 <u>0</u> CO ₃
6. Bicarbonate (HCO ₃)		<u>1,600</u>	÷ 61 <u>26</u> HCO ₃
7. Hydroxyl (OH)		<u>0</u>	÷ 17 <u>0</u> OH
8. Chlorides (Cl)		<u>350</u>	÷ 35.5 <u>10</u> Cl
9. Sulfates (SO ₄)		<u>0</u>	÷ 48 <u>0</u> SO ₄
10. Calcium (Ca)		<u>8</u>	÷ 20 <u>0</u> Ca
11. Magnesium (Mg)		<u>0</u>	÷ 12.2 <u>0</u> Mg
12. Total Hardness (CaCO ₃)		<u>20</u>	
13. Total Iron (Fe)		<u>0.2</u>	
14. Manganese		<u>0</u>	
15. Phosphate Residuals		<u>48</u>	

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04				
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00		<u>26</u>		<u>2,184</u>
Na ₂ SO ₄	71.03				
NaCl	58.46		<u>10</u>		<u>585</u>

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

REMARKS _____

UNICHEM

A Division of BJ Services

P.O. Box 217
Roosevelt, Utah 84066

Office (435) 722-5066
Fax (435) 722-5727

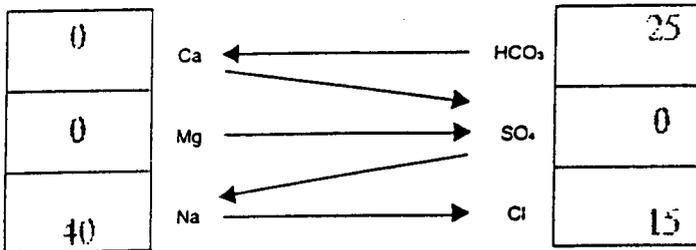
WATER ANALYSIS REPORT

Company CHANDLER AND ASSOCIATES Address _____ Date 01-27-99
Source GOING INTO TANKS AT GBWE Date Sampled _____ Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	8.8		
2. H ₂ S (Qualitative)	24		
3. Specific Gravity	1.002		
4. Dissolved Solids		2,977	
5. Alkalinity (CaCO ₃)	CO ₃	0	÷ 30 0 CO ₃
6. Bicarbonate (HCO ₃)	HCO ₃	1,500	÷ 61 25 HCO ₃
7. Hydroxyl (OH)	OH	0	÷ 17 0 OH
8. Chlorides (Cl)	Cl	530	÷ 35.5 15 Cl
9. Sulfates (SO ₄)	SO ₄	15	÷ 48 0 SO ₄
10. Calcium (Ca)	Ca	4	÷ 20 0 Ca
11. Magnesium (Mg)	Mg	0	÷ 12.2 0 Mg
12. Total Hardness (CaCO ₃)		15	
13. Total Iron (Fe)		0.4	
14. Manganese		0	
15. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04				
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00		25		2,100
Na ₂ SO ₄	71.03				
NaCl	58.46		15		877

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

REMARKS _____

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WATER ANALYSIS REPORT

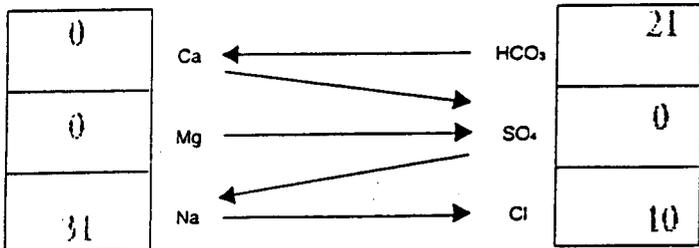
Company CHANDLER AND ASSOCIATES Address _____ Date 01-27-99

Source GBWF Date Sampled _____ Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>8.8</u>		
2. H ₂ S (Qualitative)	<u>30</u>		
3. Specific Gravity	<u>1.002</u>		
4. Dissolved Solids		<u>2,349</u>	
5. Alkalinity (CaCO ₃)		<u>0</u>	÷ 30 <u>0</u> CO ₃
6. Bicarbonate (HCO ₃)		<u>1,300</u>	÷ 61 <u>21</u> HCO ₃
7. Hydroxyl (OH)		<u>0</u>	÷ 17 <u>0</u> OH
8. Chlorides (Cl)		<u>350</u>	÷ 35.5 <u>10</u> Cl
9. Sulfates (SO ₄)		<u>0</u>	÷ 48 <u>0</u> SO ₄
10. Calcium (Ca)		<u>4</u>	÷ 20 <u>0</u> Ca
11. Magnesium (Mg)		<u>2</u>	÷ 12.2 <u>0</u> Mg
12. Total Hardness (CaCO ₃)		<u>20</u>	
13. Total Iron (Fe)		<u>0.5</u>	
14. Manganese		<u>0</u>	
15. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equip. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04				
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00		<u>21</u>		<u>1,764</u>
Na ₂ SO ₄	71.03				
NaCl	58.46		<u>10</u>		<u>585</u>

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

REMARKS _____

UNICHEM

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WATER ANALYSIS REPORT

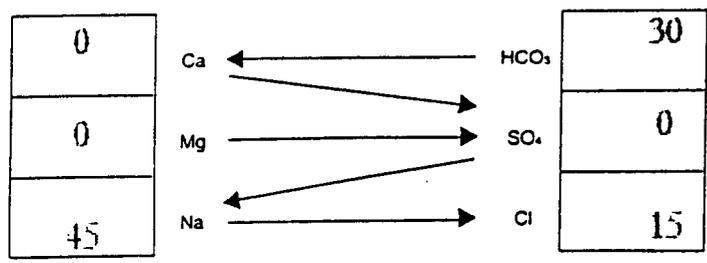
Company CHANDLER AND ASSOCIATES Address _____ Date 10-21-98

Source GBWF Date Sampled _____ Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>8.0</u>		
2. H ₂ S (Qualitative)	<u>20</u>		
3. Specific Gravity	<u>1.003</u>		
4. Dissolved Solids		<u>3,397</u>	
5. Alkalinity (CaCO ₃)		<u>0</u>	÷ 30 <u>0</u> CO ₃
6. Bicarbonate (HCO ₃)		<u>1,800</u>	÷ 61 <u>30</u> HCO ₃
7. Hydroxyl (OH)		<u>0</u>	÷ 17 <u>0</u> OH
8. Chlorides (Cl)		<u>530</u>	÷ 35.5 <u>15</u> Cl
9. Sulfates (SO ₄)		<u>0</u>	÷ 48 <u>0</u> SO ₄
10. Calcium (Ca)		<u>8</u>	÷ 20 <u>0</u> Ca
11. Magnesium (Mg)		<u>2</u>	÷ 12.2 <u>0</u> Mg
12. Total Hardness (CaCO ₃)		<u>30</u>	
13. Total Iron (Fe)		<u>0.6</u>	
14. Manganese		<u>0</u>	
15. Phosphate Residuals		<u>47</u>	

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04				
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00		<u>30</u>		<u>2,520</u>
Na ₂ SO ₄	71.03				
NaCl	58.46		<u>15</u>		<u>877</u>

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

REMARKS _____

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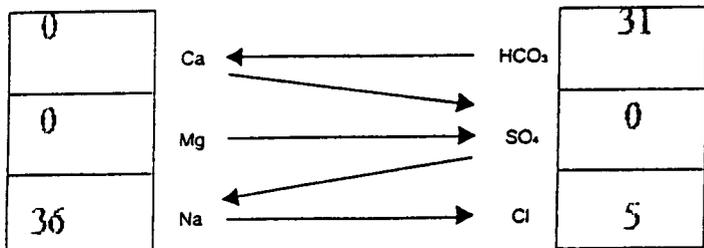
WATER ANALYSIS REPORT

Company CHANDLER AND ASSOCIATES Address _____ Date 06-01-98
Source GBWF Date Sampled 05-29-98 Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	8.2		
2. H ₂ S (Qualitative)	26		
3. Specific Gravity	1.002		
4. Dissolved Solids		2,896	
5. Alkalinity (CaCO ₃)	CO ₃	240	÷ 30 = 8 CO ₃
6. Bicarbonate (HCO ₃)	HCO ₃	1,400	÷ 61 = 23 HCO ₃
7. Hydroxyl (OH)	OH	0	÷ 17 = 0 OH
8. Chlorides (Cl)	Cl	170	÷ 35.5 = 5 Cl
9. Sulfates (SO ₄)	SO ₄	0	÷ 48 = 0 SO ₄
10. Calcium (Ca)	Ca	8	÷ 20 = 0 Ca
11. Magnesium (Mg)	Mg	2	÷ 12.2 = 0 Mg
12. Total Hardness (CaCO ₃)		30	
13. Total Iron (Fe)		0.4	
14. Manganese			
15. Phosphate Residuals		11	

*Milli equivalents per liter

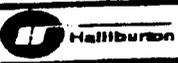
PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04				
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00	31			2,604
Na ₂ SO ₄	71.03				
NaCl	58.46	5			292

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

REMARKS _____

		Job Log		TICKET # 355392	TICKET DATE 12/23/99
REGION NORTH AMERICA LAND		MVA / COUNTRY R.M. USA		BOA / STATE UT	COUNTY UINTAH
MBU ID / EMPL # VEO-111 121420		M.E.S. EMPLOYEE NAME K. ESTEP		PSL DEPARTMENT ZONAL ISOLANTON	
LOCATION VERNAL		COMPANY CHANDLER		CUSTOMER REP / PHONE J. SIMINGTON	
TICKET AMOUNT		WELL TYPE INJECTION		APPLANT #	
WELL LOCATION GLEN BENCH		DEPARTMENT ZONAL ISOLATION		JOB PURPOSE CODE STEP RATE TEST	
LEASE / WELL # GLEN BENCH		Well No. 6-16	SEC / TWP / RNC 16 8S0 22 E.		

Time	Rate	Volume	Pumps	Pressure (PSI)		Job Description / Remarks
				IN	OUT	
0600						called out
						on loc.
						set up
						safety meeting
1044	.1	.5		25		st. injection test
1101	.2	1		100		increase rate
1106	.3	1.5		450		increase rate
1111	.4	2		700		increase rate
1116	.5	2.5		940		increase rate
1121	.6	3.5		1000		increase rate
1126	.8	4		1270		increase rate
				1400		shut down end test
						thank you

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MAR 06 2000

DIVISION OF
OIL, GAS AND MINING

JOBSUMMARY

WELL NAME: NORTH AMERICA LAND
 COUNTY: UTAH
 COUNTY: UINTAH
 EMPLOYEE: K. ESTEP
 COMPANY: CHANDLER
 WELL TYPE: INJECTION
 WELL LOCATION: GLEN BENCH
 DEPARTMENT: 5001
 TEST DESCRIPTION: 450 STEP RATE TEST

H.E.S. EMP NAME / EMP # / (EXPOSURE HOURS)	HRS	HRS	HRS	HRS
C. PARRACK 121667				

H.E.S. UNIT #S / (R/T MILES)	R/T MILES	R/T MILES	R/T MILES	R/T MILES
54320 -45210	80			

Form Name: _____ Type: _____
 Form Thickness: _____ From _____ To _____
 Packer Type: _____ Set At _____
 Bottom Hole Temp: _____ Pressure _____
 Retainer Depth: _____ Total Depth _____

Date	Called Out	On Location	Job Started	Job Completed
	12/23/99	12/23/99	12/23/99	12/23/99
Time	0800	0800	1044	1127

Tools and Accessories

Type and Size	Qty	Make
Float Collar		
Float Shoe		
Centralizers		
Top Plug		
Packer		
DV Tool		
Guide Shoe		
Other		
Other		

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	U		#		0	5,353	
Liner							
Liner							
Tubing	U	6.5			0	5,041	
Drill Pipe							
Open Hole							Shots/Ft.
Perforations					5,108	5,111	
Perforations							

Materials

Mud Type	Density	Lb/Gal
Disp. Fluid	WATER	
Prop. Type	Size	Lb
Prop. Type	Size	Lb
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	in
NE Agent	Gal.	in
Fluid Loss	Gal/Lb	in
Gelling Agent	Gal/Lb	in
Fric. Red.	Gal/Lb	in
Breaker	Gal/Lb	in
Blocking Agent	Gal/Lb	
Perfpac Balls	Qty.	
Other		

Hours On Location

Date	Hours
12/23	4.0
Total	4.0

Operating Hours

Date	Hours
12/23	1.0
Total	1.0

Description of Job
STEP RATE TEST

Hydraulic Matrix

Ordered	Avail.	Used
Treating	Disp.	Overall
Feet	Cement: Lb/Gal	Reason

Cement Data

Stage	Sacks	Cement	Bulk/Sks	Additives	W/Rq	Yield	Lbs/Gal
			Bulk/Sks				

Summary

Circulating Breakdown	Displacement Maximum	Preflush: Gal - BBl	Type:
Lost Returns-YES	Lost Returns-NO	Load & Bkdn: Gal - BBl	Pad:Bbl -Gal
Cmt Rtn#Bbl	Actual TOC	Excess /ReturnGal BBl	Calc.Disp Bbl
Average	Frac. Gradient	Calc. TOC:	Actual Disp.
Shut In: Instant	5 Min. 15 Min.	Treatment: Gal - BBl	Disp:Bbl-Gal
		Cement Slurry Gal - BBl	
		Total Volume Gal - BBl	0

Frac Ring #1 | Frac Ring #2 | Frac Ring #3 | Frac Ring #4

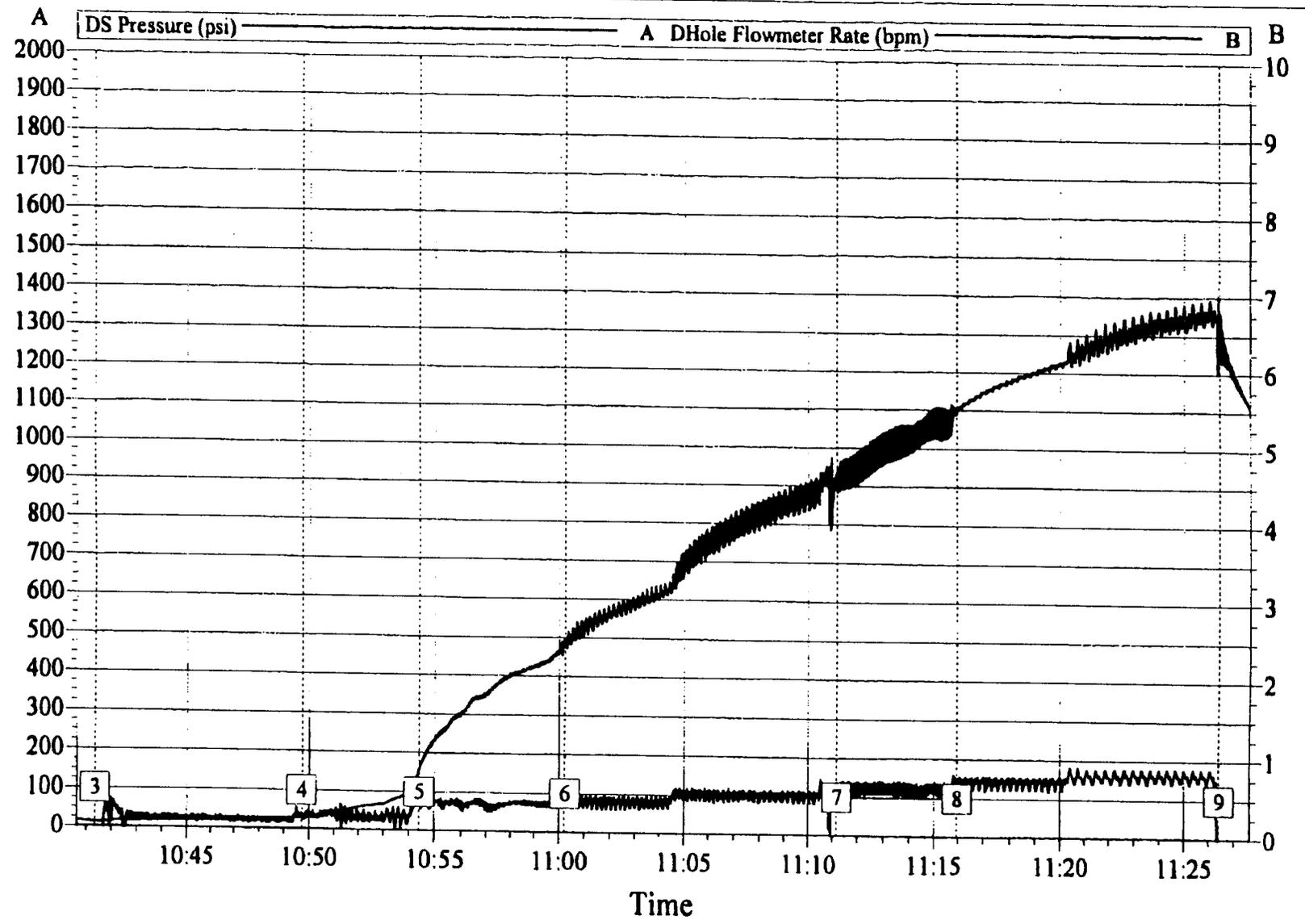
THE INFORMATION STATED HEREIN IS CORRECT
 CUSTOMER REPRESENTATIVE _____ SIGNATURE _____

P03

01/12/00 10:03

CHANDLER_ASSOC

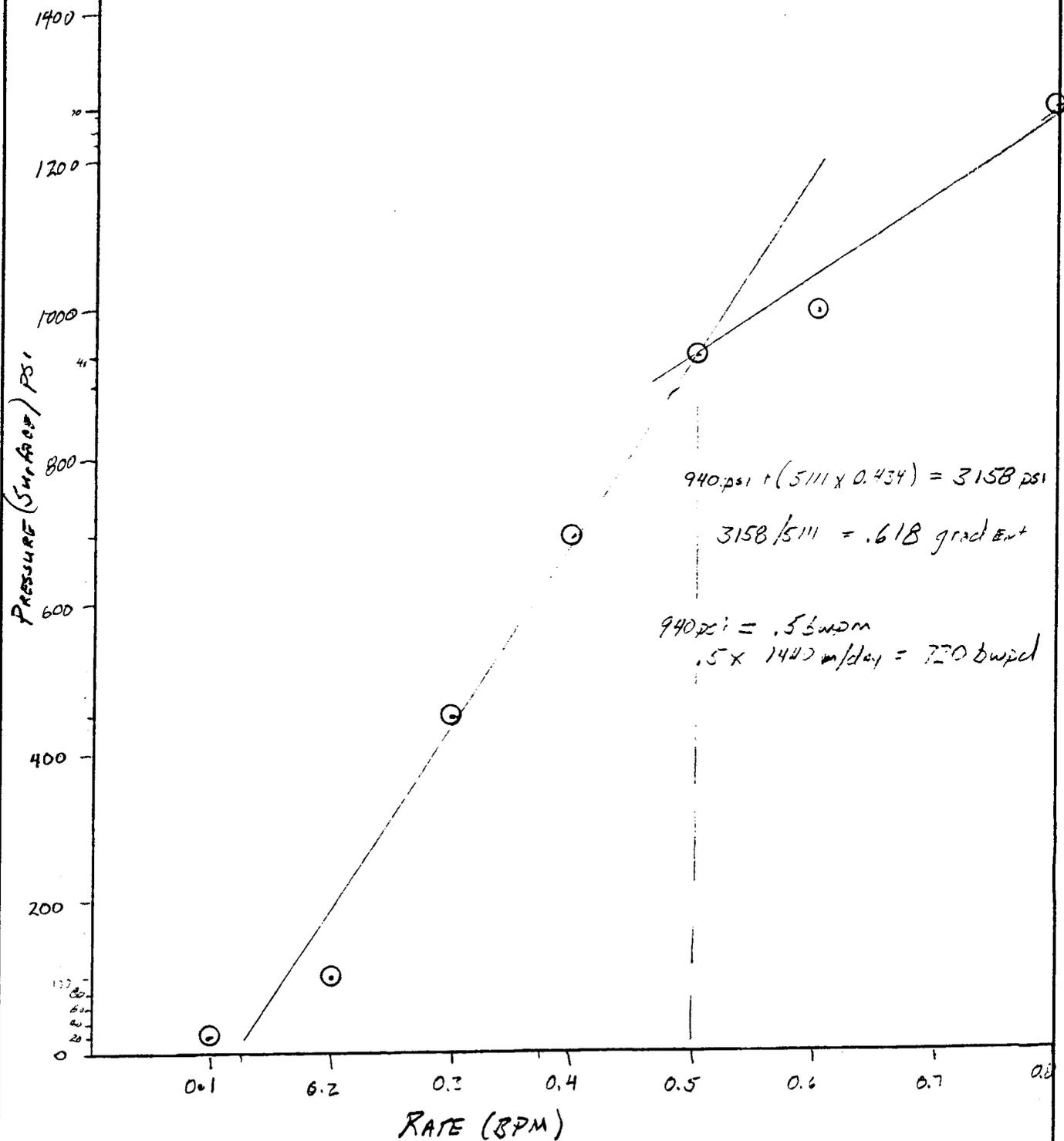
7223956



Customer: CHANDLER Well Desc: 6-16	Job Date: 12/23/99 Job Type: STEP RATE TEST	Ticket #: 355392	HALLIBURTON CemWin v1.2.0 23-Dec-99 11:57
---------------------------------------	------------------------------------------------	------------------	-------------------------------------------------

GLEN BENCH #6-16 STOP RATE TEST

DATE OF TEST
12/23/99



CHANDLER & ASSOCIATES, INC.

CALCULATION SHEET

MADE BY _____

JOB NAME _____

CHECKED BY _____

DATE _____

TITLE _____

FIELD _____

PAGE _____ OF _____

STATE _____

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

RECEIVED

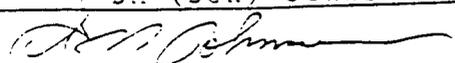
1. Well name and number: Glen Bench State #6-16 MAR 06 2000
 API number: 43-047-32549 DIVISION OF OIL, GAS AND MINING
2. Well Location: OO SENW Section 16 Township 8S Range 22E County Uintah
3. Well operator: Chandler & Associates, Inc.
 Address: 475 17th St, Suite 1000
Denver, Co 80202 Phone: (303) 295-0400
4. Drilling contractor: Chandler Drilling Company
 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

6. Formation tops: Surface Uintah
2850' Green River
5450' (Est) Wasatch (drilled, not logged)

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: 12/23/04

Name & Signature: DM (Don) Johnson Title: Mgr-Prod/Oper


RECEIVED

MAR 06 2000

DIVISION OF
OIL, GAS AND MINING

Chandler and Associates, Inc.

***Glen Bench State #6-16
SE NW Sec. 16 T8S R22E
Uinta County, Utah***

Precision Core Analysis, Inc.

Chandler and Associates, Inc.
 Glen Bench State #6-16
 SE NW Sec. 16 T8S R22E
 Uinta County, Utah

Job: 9463
 Date: 09-Dec-94

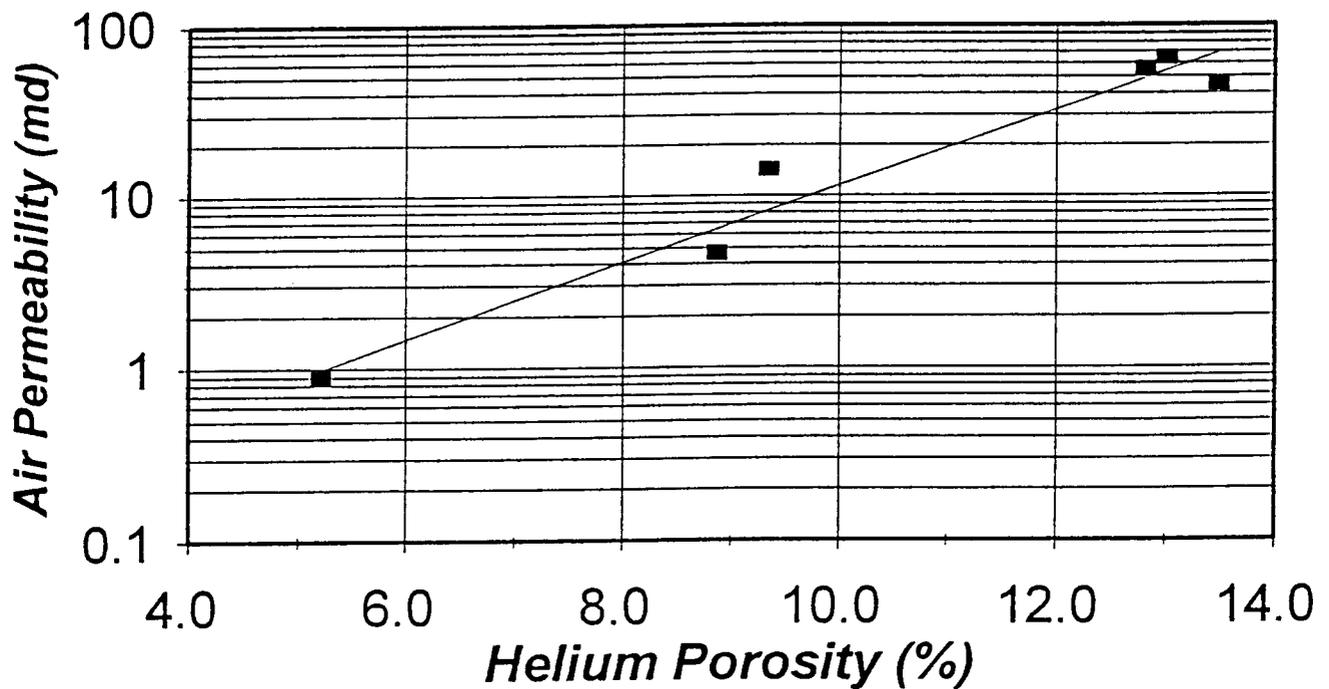
Reference Number	Depth (ft)	Perm Air (md)	Perm Klink (md)	Helium Porosity (%)	Saturations Water (%)	Oil (%)	Grain Density (g/cc)	Sample Description
<i>Core No. 1 Green River Fm. 5100.0'-5150.0' Rec. 50.0'/50.0'</i>								
1	5113.8	14.2	11.5	9.3	18.6	9.3	2.68	Sst lt gry vf gr calc
2	5114.7	55.2	46.9	12.8	25.3	12.7	2.68	Sst lt gry vf gr calc
3	5115.8	45.1	38.0	13.5	22.4	11.2	2.67	Sst lt gry vf gr calc
4	5116.3	63.8	54.7	13.0	23.5	11.7	2.68	Sst lt gry vf-f gr sl calc
5	5117.5	4.62	3.69	8.9	27.1	8.5	2.69	Sst lt gry f gr sl calc lam
6	5118.1	0.875	0.664	5.2	40.7	10.2	2.67	Sst lt gry f gr sl calc lam

Precision Core Analysis, Inc.

Chandler and Associates, Inc.
Glen Bench State #6-16
SE NW Sec. 16 T8S R22E
Uinta County, Utah

Job: 9463
Date: 09-Dec-94

Air Permeability vs Helium Porosity

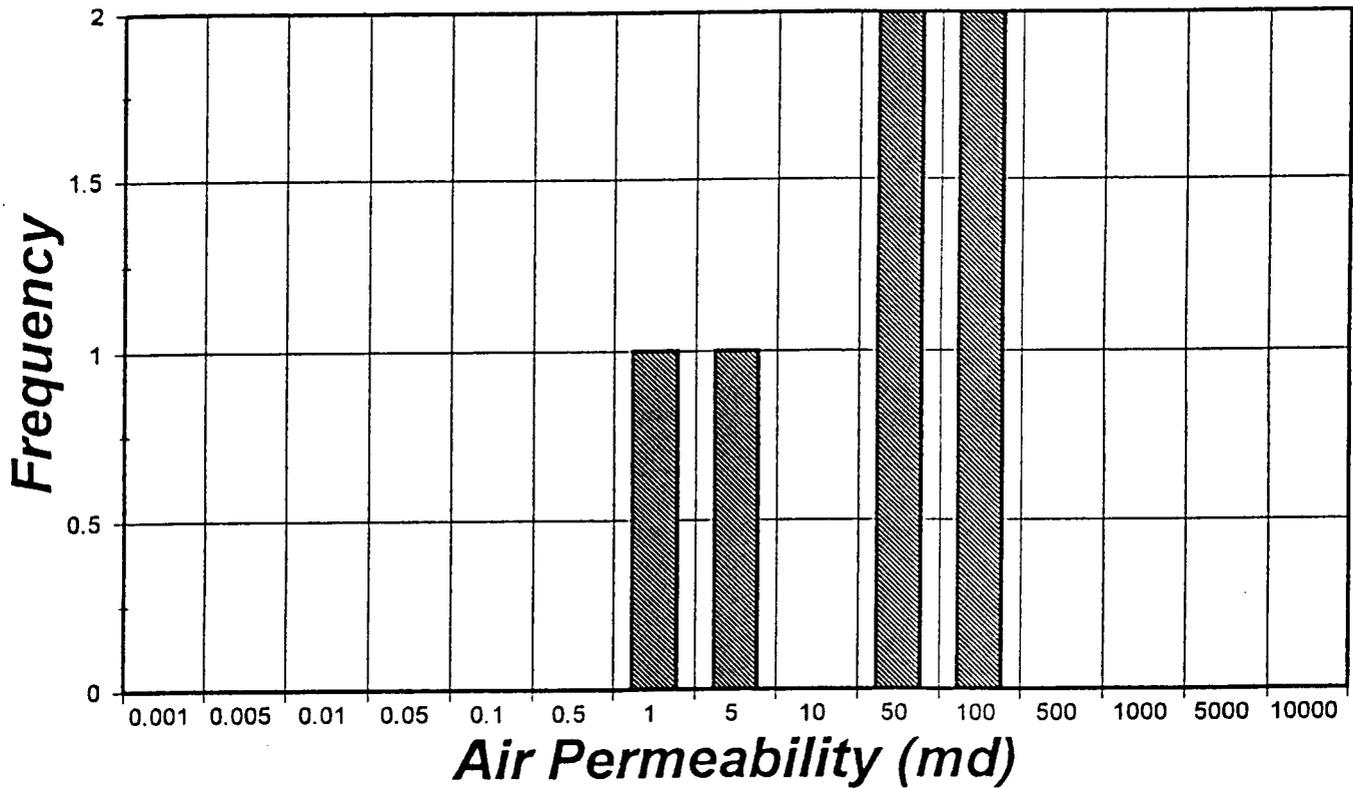


Precision Core Analysis, Inc.

Chandler and Associates, Inc.
Glen Bench State #6-16
SE NW Sec. 16 T8S R22E
Uinta County, Utah

Job: 9463
Date: 09-Dec-94

Air Permeability Frequency Distribution

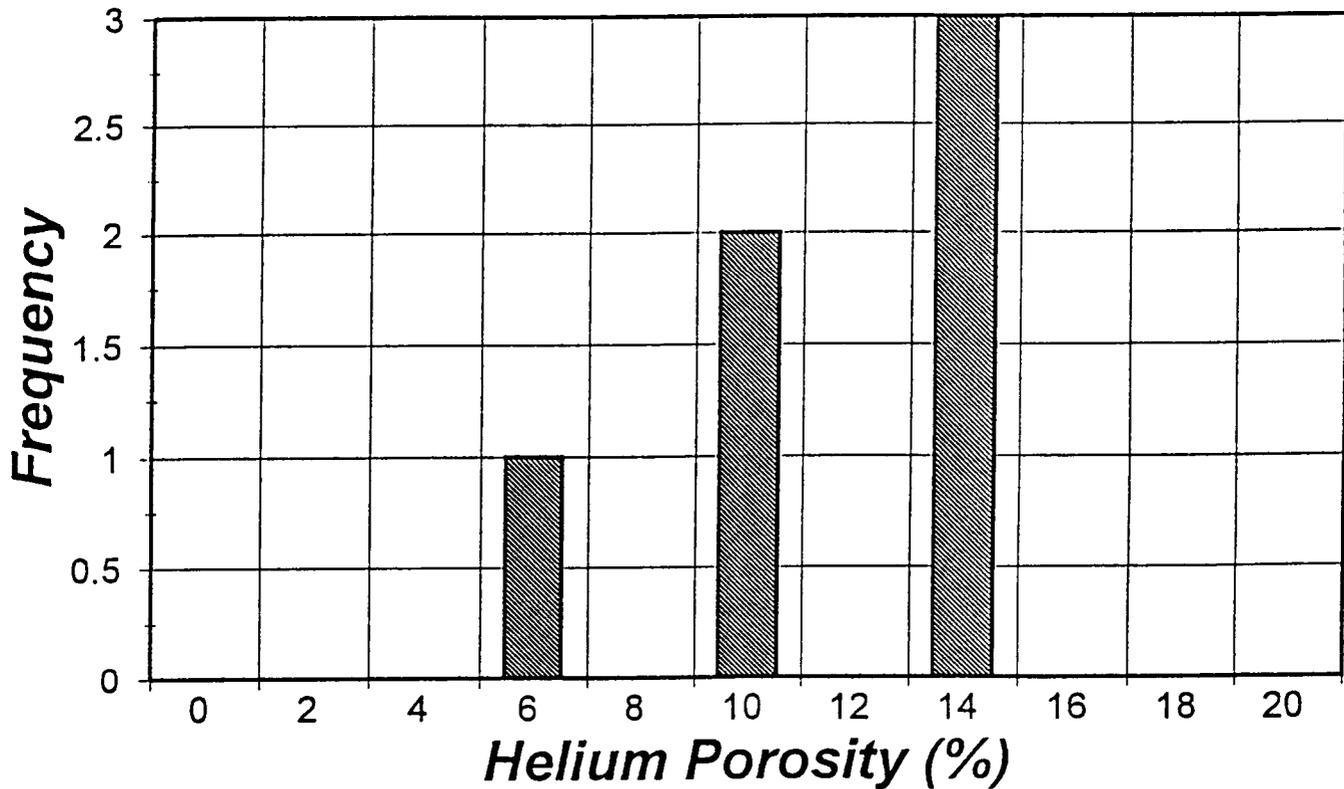


Precision Core Analysis, Inc.

Chandler and Associates, Inc.
Glen Bench State #6-16
SE NW Sec. 16 T8S R22E
Uinta County, Utah

Job: 9463
Date: 09-Dec-94

Helium Porosity Frequency Distribution



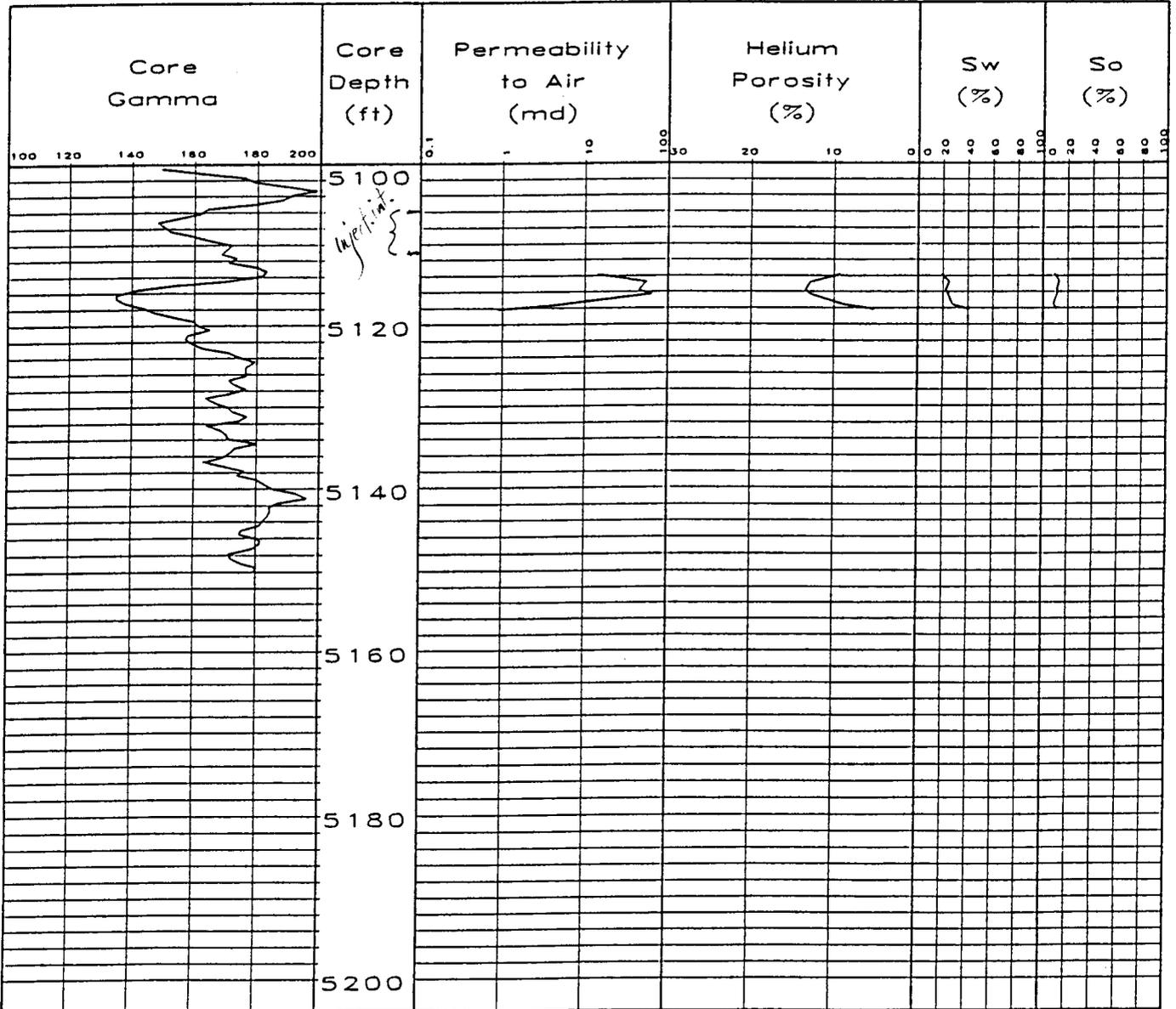
Precision Core Analysis, Inc.

Chandler and Associates, Inc.
 Glen Bench State #6-16
 SE NW Sec. 16 T8S R22E
 Uinta County, Utah

Job: 9463
 Date: 09-Dec-94

PETRO-LOG

Scale 1:240



Precision Core Analysis, Inc.

Chandler and Associates, Inc.
Glen Bench State #6-16
SE NW Sec. 16 T8S R22E
Uinta County, Utah

Job: 9463
Date: 09-Dec-94

Zone	Permeability (md)*			Porosity (%)**		
	Median	Arith. Mean	Geom. Mean	Median	Arith. Mean	Geom. Mean
Zone1	29.663	30.649	14.460	11.081	10.457	9.953

* Values above 0.00 md

** Values above 0.00 %

Precision Core Analysis, Inc.

Chandler and Associates, Inc.
Glen Bench State #6-16
SE NW Sec. 16 T8S R22E
Uinta County, Utah

Job: 9463
Date: 09-Dec-94

Zone1 Air Permeability Regression

Regression Output:

Constant	-1.169566
Std Err of Y Est	0.175112
R Squared	0.955054
No. of Observations	6.000000
Degrees of Freedom	4.000000

X Coefficient(s)	0.222783
Std Err of Coef.	0.024165

Zone1 Klinkenberg Permeability Regression

Regression Output:

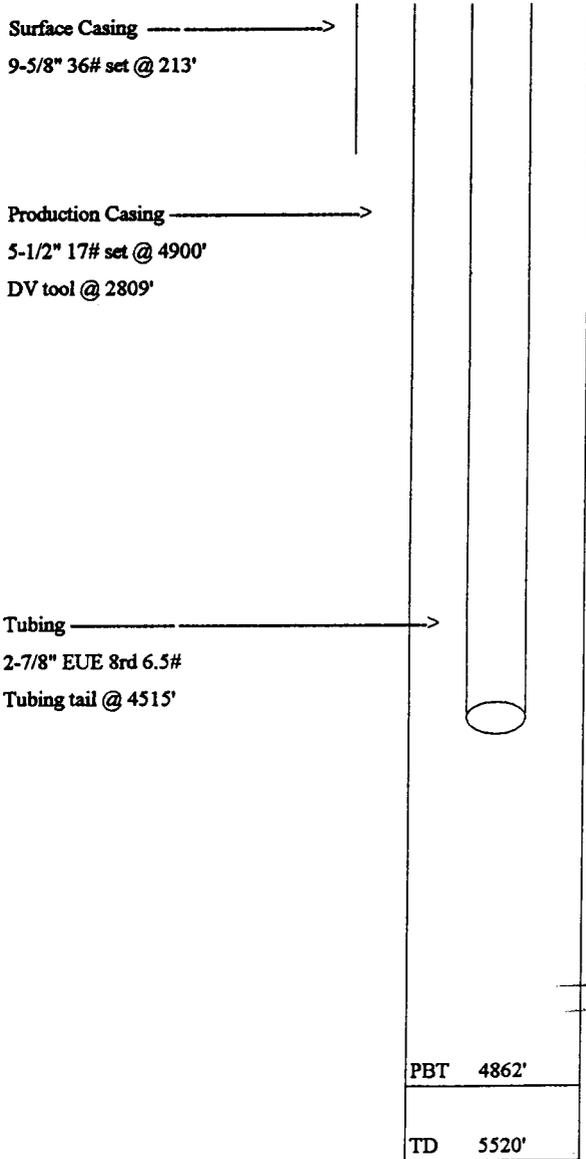
Constant	-1.320647
Std Err of Y Est	0.177417
R Squared	0.956243
No. of Observations	6.000000
Degrees of Freedom	4.000000

X Coefficient(s)	0.228904
Std Err of Coef.	0.024483

Well Name: White River Unit 43-16
 Location: NENW Sec. 16, T8S, R22E
 Field: White River Unit
 Spud Date:
 Completed:

Date: 10/24/97 Pump Change
 County: Uintah
 State: Utah
 KB: 4987
 GL: 4972'

POW



Rod & Pump Detail

- 10/29/97
- Pump-Trico 2-1/2" x 1-1/4" x 16' RHAC
 (top hold-down)
- 1 - 2' x 7/8" pony rod (bottom)
- 10 - 1" rods (250')
- 94 - 3/4" rods (2350')
- 64 - 7/8" rods (1600')
- 14 - 1" rods (350')
- 1 - 6' x 1" pony rod (top)

Perfs:
 4663' - 4674' & 4695' - 4700' w/ 2 JPF

IP:

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MAR 06 2000

DIVISION OF
 OIL, GAS AND MINING

DST's:

Well Name: White River Unit 16-9
 Location: SWSE SEc. 9, T8S, R22E
 Field: White River
 Spud Date:
 Completed:

Date: 2/18/97
 County: Uintah
 State: Utah
 KB: 5016'
 GL: 5002'

SOW

Surface Casing →
 8-5/8" 24# set @ 219'

Production Casing →
 5-1/2" 15.5# & 17# set @ 5619'

Rod & Pump Detail
 Pump - 2-1/2" x 1-3/4" x 16" RHAC
 26 - 3/4" plain
 33 - 3/4" scraped
 51 - 3/4" plain
 58 - 7/8" plain
 50' - 1" plain
 1 - 1" x 8' pony

Tubing →
 2-7/8" EUE 8rd 6.5# J-55
 To surface - 172 jts. 2-7/8"
 "T" anchor @ 5472' w/18M# →
 1 jt. 2-7/8"
 SN @ 5505'
 1 jt. 2-7/8" (tubing tail) @ 5537' →

Perfs:
 5525' - 5527'

DST's:

PBT	5571'	11/94
TD	5619'	

IP:

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

6. Lease Designation and Serial Number
7. Indian Allottee or Tribe Name
8. Unit or Communitization Agreement
9. Well Name and Number
10. API Well Number
11. Field and Pool, or Wildcat

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT - for such proposals

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

2. Name of Operator
Shenandoah Energy Inc.

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

NOTICE OF INTENT
(Submit in Duplicate)

<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Other _____	

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

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

Date of Work Completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.
 * Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please be advised that effective 1/1/200 Chandler & Associates, Inc has changed its name to Shenandoah Energy Inc. Shenandoah Energy Inc. is responsible under the terms and conditions of the lease for the operation conducted upon the leased lands. Shenandoah Energy Inc. is bonded in the amount of \$80,000.00 to the School and Inst. Trust Lands via a name change rider filed with the State. Continental Casualty Bond # 159261960.

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

Name & Signature: Thomas D. Taylor Title Production Geologist Date 05/25/2000

(State Use Only)

SHENANDOAH ENERGY INC.
UTAH OPERATED WELLS

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

RECEIVED

MAY 30 2000

DIVISION OF
OIL, GAS AND MINING

RECEIVED

MAY 30 2000

**DIVISION OF
OIL, GAS AND MINING**

**SHENANDOAH ENERGY INC.
UTAH OPERATED WELLS**

A.P.I. #	ENTITY	WELL NAME	WELL #	LOCATION	FIELD NAME	PROD. ZONE	FORMATION	WELL TYPE	AGREEMENT
43-015-30168-00	10684	BUZZARD BENCH FED	#6-3	SENW 3, 19S-7E	BUZZARD BENCH	FRSD	FERRON	GW	8910204190
43-015-30229-00	10670	BUZZARD BENCH FED	#3-24	SESW 3, 19S-7E	BUZZARD BENCH	FRSD	FERRON	GW	8910204190
43-015-30110-00	10685	FERRON FED	#16-20	SESE 20, 17S-8E	BUZZARD BENCH	FRSD	FERRON	OW	
43-015-30257-00	11837	FERRON FEDERAL	#7-12-19-7	SWNE 12, 19S-7E	BUZZARD BENCH	FRSD	UPPER FERRON	GW	
43-015-30000-00		FERRON FEDERAL	#16-9-10-7	SESE 9, 19S-7E	FERRON		FERRON	DRG	
43-015-3025300	11836	FERRON STATE	#4-36	SWNW 36, 18S-7E	BUZZARD BENCH	FRSD	FERRON	GW	
43-015-30222-00	11029	ORANGEVILLE FED	#1-11	NENE 11, 19S-7E	BUZZARD BENCH	FRSD	UPPER FERRON	GW	891020388A
43-015-30221-00	10600	ORANGEVILLE FED	#4-1	NWNW 1, 19S-7E	BUZZARD BENCH	FRSD	UPPER FERRON	GW	
43-015-30102-00	10920	ORANGEVILLE ST	#1-36	SESE 36, 18S-7E	BUZZARD BENCH	FRSD	UPPER FERRON	GW	8910203880
43-015-30179-00	00535	ORANGEVILLE STATE	#10-2	NWSE 2, 19S-7E	BUZZARD BENCH	FRSD	LOWER FERRON	GW	891020388A
43-015-30108-00	10978	ORANGEVILLE UNIT	#16-6	SESE 6, 18S-8E	BUZZARD BENCH	FRSD	FERRON	OW	
43-047-33164-00	12496	DESERT SPRING	#16-19-10-18	SESE 19, 10S-18E	DESERT SPRING	GRRV	GREEN RIVER	OW	
43-047-3316200	12523	DESERT SPRING	#3-29-10-18	NWNE 29, 10S-18E	DESERT SPRING	GRRV	GREEN RIVER	OW	
43-047-32493-00	11630	E COYOTE FEDERAL	#14-4-8-25	SESW 4, 8S-25E	EAST COYOTE FEDERAL	GRRV	GREENRIVER	OW	
43-047-31555-00	09497	ANTELOPE DRAW	#2-17-4C	SESW 17, 8S-22E	GLEN BENCH	GRRV	GREENRIVER	OW	UTU73974X
43-047-31556-00	09498	ANTELOPE DRAW	#3-17-3C	SESE 17, 8S-22E	GLEN BENCH	GRRV	GREENRIVER	OW	UTU73974X
43-047-32476-00	11862	GLEN BENCH	#8-19	SENE 19, 8S-22E	GLEN BENCH	GRRV	GREENRIVER	OW	UTU73974X
43-047-31257-00	11587	GLEN BENCH FED	#44-19	L 20 19, 8S-22W	GLEN BENCH	GRRV	GREEN RIVER	OW	UTU73974X
43-047-31355-00	11588	GLEN BENCH FED	#13-20	NWSW 20, 8S-22E	GLEN BENCH	GRRV	GREENRIVER	OW	UTU73974X
43-047-31356-00	06135	GLEN BENCH FED	#22-20	SENW 20, 8S-22E	GLEN BENCH		GREEN RIVER	WIW	UTU73974X
43-047-31433-00	06196	GLEN BENCH FED	#31-20	NWNE 20, 8S-22E	GLEN BENCH	GRRV	GREENRIVER	OW	UTU73974X
43-047-31008-00	06045	GLEN BENCH FED	#31-30	L 6 30, 8S-22E	GLEN BENCH	GRRV	GREEN RIVER	OW	UTU73974X
43-047-31260-00	06050	GLEN BENCH FED	#22-30	SENW 30, 8S-22E	GLEN BENCH	GRRV	GREEN RIVER	OW	UTU73974X
43-047-32549-00	11716	GLEN BENCH STATE	#6-16	SENW 16, 8S-22E	GLEN BENCH	GRRV	GREENRIVER	OW	UTU73974X
43-047-32582-00	11716	GLEN BENCH STATE	#7-16	SENE 16, 8S-22E	GLEN BENCH		GREENRIVER	WIW	UTU73974X
43-047-32583-00	11732	GLEN BENCH STATE	#12-16	NWSW 16, 8S-22E	GLEN BENCH		GREENRIVER	WIW	UTU73974X
43-047-32756-00	11955	GLEN BENCH UNIT	#15-19-8-22	SWSE 19, 8S-22E	GLEN BENCH		GREEN RIVER	WIW	UTU73974X
43-047-32755-00	12014	GLEN BENCH UNIT	#4-30-8-22	NWNW 30, 8S-22E	GLEN BENCH	GRRV	GREEN RIVER	OW	UTU73974X
43-047-32857-00	12219	GLEN BENCH UNIT	#11-16-8-22	NESW 16, 8S-22E	GLEN BENCH	GRGBS	GREEN RIVER	OW	UTU73974X
43-013-3147700	12248	UTD WALTON	#26-03	NENW 26, 9S-16E	MONUMENT BUTTE	GRRV	GREEN RIVER	OW	
43-047-33252-00	12527	GLEN BENCH STATE	#2-36-8-21	NENW 36, 8S-21E	NATURAL BUTTES	WSTC	WASATCH	GW	
43-047-33037-00	12377	GLEN BENCH STATE	#8A-36-8-21	SWNE 36, 8S-21E	NATURAL BUTTES	WSTC	WASATCH	GW	
43-047-33038-00	12378	GLEN BENCH STATE	#6-36-8-21	SENW 36, 8S-21E	NATURAL BUTTES	WSTC	WASATCH	GW	
43-047-32746-00	11944	SAGE GROUSE FEDERAL	#6-14-8-22	SENW 14, 8S-22E	NATURAL BUTTES	GRRV	GREEN RIVER	GW	
43-047-32724-00	12361	SAGE GROUSE FEDERAL	#8-36-8-21	SENE 36, 8S-21E	NATURAL BUTTES	GRRV	GREEN RIVER	GW	
43-047-3309500	12528	WHITE RIVER UNIT	#13-35-8-22	SWSW 35, 8S-22E	NATURAL BUTTES	WSTC	WASATCH	GW	891003509B
43-047-3306100	12528	WHITE RIVER UNIT	#15-35-8-22	SWSE 35, 8S-22E	NATURAL BUTTES	WSTC	WASATCH	GW	891003509B
43-047-3275400	12003	FLU KNOLLS FED.	#23-3	NESW 3, 10S-18E	UTELAND BUTTE	GRRV	GREEN RIVER	OW	
43-047-15083-00	04915	WHITE RIVER UNIT	#19-9	SWNE 9, 8S-22E	WHITE RIVER		GREENRIVER	WIW	891003509D
43-047-15080-00	04915	WRU	#15-9	NESE 9, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	891003509D
43-047-15085-00	04915	WRU	#24-10	NESW 10, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	891003509D
43-047-15086-00	04915	WRU	#27-10	SWNE 10, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	891003509D
43-047-31561-00	10000	WRU	#47-10	L1 10, 8S-22E	WHITE RIVER	GRRV	GREENRIVER	OW	



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

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

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

JUN 5 2000

NOTICE

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

Name Change Recognized

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

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

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

/s/ Robert Lopez

Robert Lopez
Chief, Branch of
Minerals Adjudication

Enclosure
Exhibit of Leases

RECEIVED

JUN 06 2000

DIVISION OF
OIL, GAS AND MINING

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH		4-KAS	✓
2. CDW	✓	5-SD	✓
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: **08-24-2000**

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

TO: (New Operator):
SHENANDOAH ENERGY INC
Address: 475 17TH STREET STE 1000
DENVER, CO 80202
Phone: 1-(303)-295-0400
Account 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 2-36-8-21	43-047-33252	12527	36-08S-21E	STATE	GW	P
GLEN BENCH STATE 8A-36-8-21	43-047-33037	12377	36-08S-21E	STATE	GW	P
GLEN BENCH STATE 6-36-8-21	43-047-33038	12378	36-08S-21E	STATE	GW	P
GLEN BENCH STATE 6-16	43-047-32549	11716	16-08S-22E	STATE	OW	S
GLEN BENCH 8-17	43-047-32718	11818	17-08S-22E	FEDERAL	OW	PA
GLEN BENCH 44-19	43-047-31257	11587	19-08S-22E	FEDERAL	OW	PA
GLEN BENCH 8-19	43-047-32476	11862	19-08S-22E	FEDERAL	OW	P
NGC 13-20	43-047-31355	11588	20-08S-22E	FEDERAL	OW	P
GLEN BENCH 31-30	43-047-31008	6045	30-08S-22E	FEDERAL	OW	P
GLEN BENCH 22-30	43-047-31260	6050	30-08S-22E	FEDERAL	OW	TA
GLEN BENCH 4-30-8-22	43-047-32755	12014	30-08S-22E	FEDERAL	OW	P
GLEN BENCH STATE 11-16-8-22	43-047-32857	12219	16-08S-22E	STATE	OW	P

OPERATOR CHANGES DOCUMENTATION

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 05/30/2000
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 05/30/2000

3. The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 11/02/2000
4. Is the new operator registered in the State of Utah: YES Business Number: 1467732-0143
5. If **NO**, the operator was contacted on: _____
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the (merger, name change, or operator change for all wells listed on Federal or Indian leases on: 06/05/2000
7. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: 08/24/2000
8. **Federal and Indian Communization Agreements ("CA"):** The BLM or the BIA has approved the operator change for all wells listed involved in a CA on: N/A
9. **Underground Injection Control ("UIC") Pro;** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

DATA ENTRY:

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

STATE BOND VERIFICATION:

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

FEE WELLS - BOND VERIFICATION/LEASE INTEREST OWNER NOTIFICATION:

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

FILMING:

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

FILING:

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

COMMENTS:

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR Shenandoah Energy Inc.
ADDRESS 475 17th Street, Suite 1000
Denver, Colorado 80202

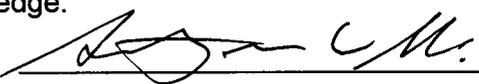
Well name and number: Glen Bench State # 6-16
Field or Unit name: Glen Bench Lease no. ML-22049
Well location: QQ SENW section 16 township 8S range 22E county Uintah

Is this application for expansion of an existing project? Yes No
Will the proposed well be used for: Enhanced Recovery? Yes No
Disposal? Yes No
Storage? Yes No
Is this application for a new well to be drilled? Yes No
If this application is for an existing well,
has a casing test been performed on the well? Yes No
Date of test: _____
API number: 43-047-32549-00

Proposed injection interval: from 5106' to 5111'
Proposed maximum injection: rate 720 bbls per day pressure 945 psig
Proposed injection zone contains oil, gas, and/or fresh water within 1/2 miles of the well.

IMPORTANT: Additional information as required by R615-5-2 should accompany this form.

List of Attachments: AOR map, surface ownership map, wellbore diagrams, core analysis, step rate test, water analysis (produced & injection), logs sections for well.

I certify that this report is true and complete to the best of my knowledge.
Name Scott M. Webb Signature 
Title Regulatory Coordinator Date July 27, 2000
Phone No. (303) 308-3052

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

Comments:

SHENANDOAH ENERGY INC.

475 17TH STREET, SUITE #1000 DENVER, COLORADO 80202-4016

PH: 303-295-0400 FAX : 303-295-0222

February 28, 2000

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

**RE: Glen Bench State #6-16
SW NE, Section 16, T8S, R22E
Uintah County, Utah**

Dear Sirs:

Shenandoah Energy Inc. wishes to inform you and your agency that it is our intention to convert the referenced well into a Class II water injection well, utilizing the existing perforations (5106'-5111'). The application process with the Environmental Protection Agency is being finalized and will be submitted to that agency shortly.

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

Sincerely,



Thomas D. Taylor
Production Geologist

SHENANDOAH ENERGY INC.

475 17TH STREET, SUITE #1000 DENVER, COLORADO 80202-4016

PH: 303-295-0400 FAX : 303-295-0222

February 28, 2000

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

**RE: Glen Bench State #6-16
SW NE, Section 16, T8S, R22E
Uintah County, Utah**

Dear Sirs:

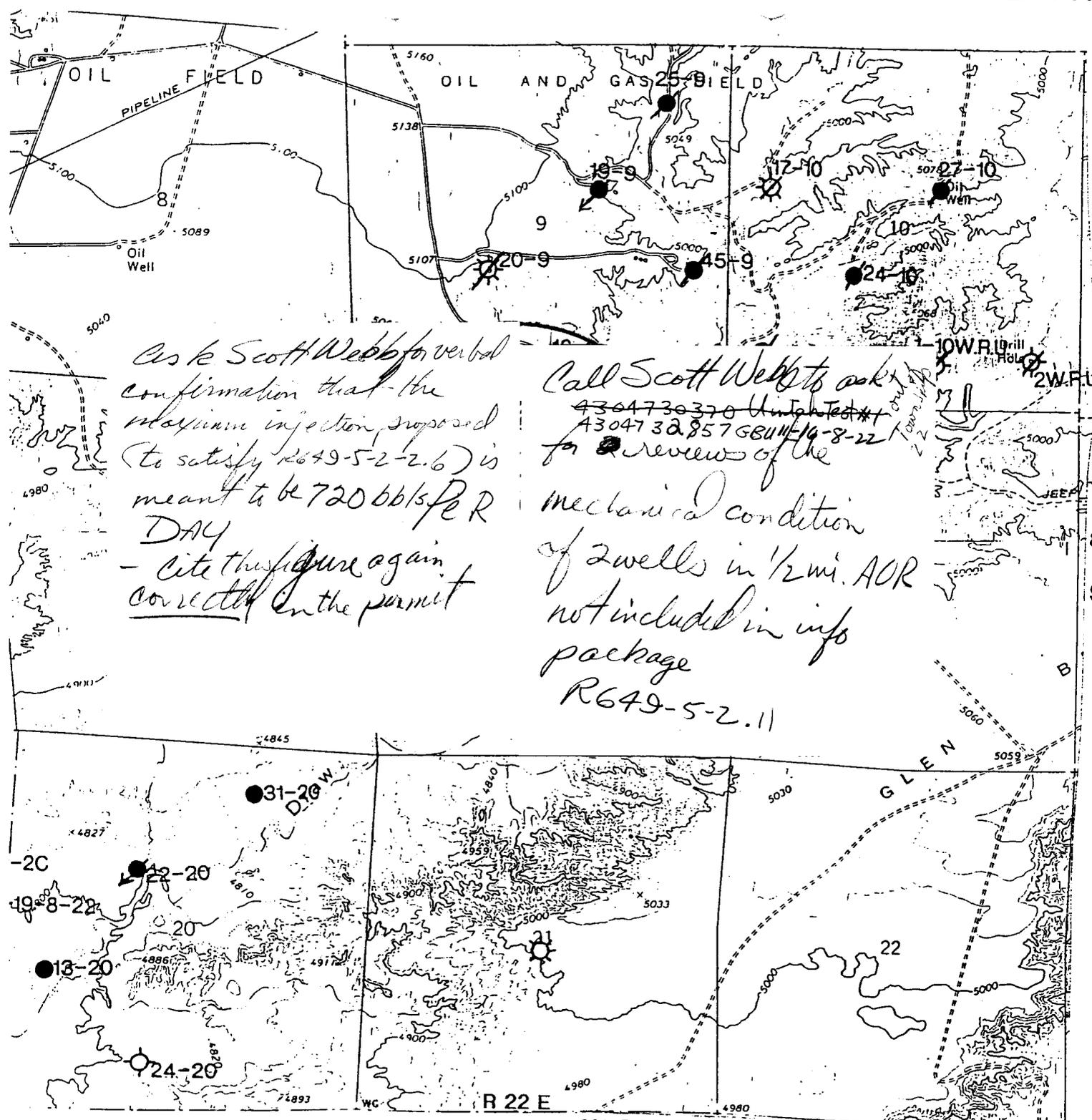
Shenandoah Energy Inc. wishes to inform you and your agency that it is our intention to convert the referenced well into a Class II water injection well, utilizing the existing perforations (5106'-5111'). The application process with the Environmental Protection Agency is being finalized and will be submitted to that agency shortly.

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

Sincerely,



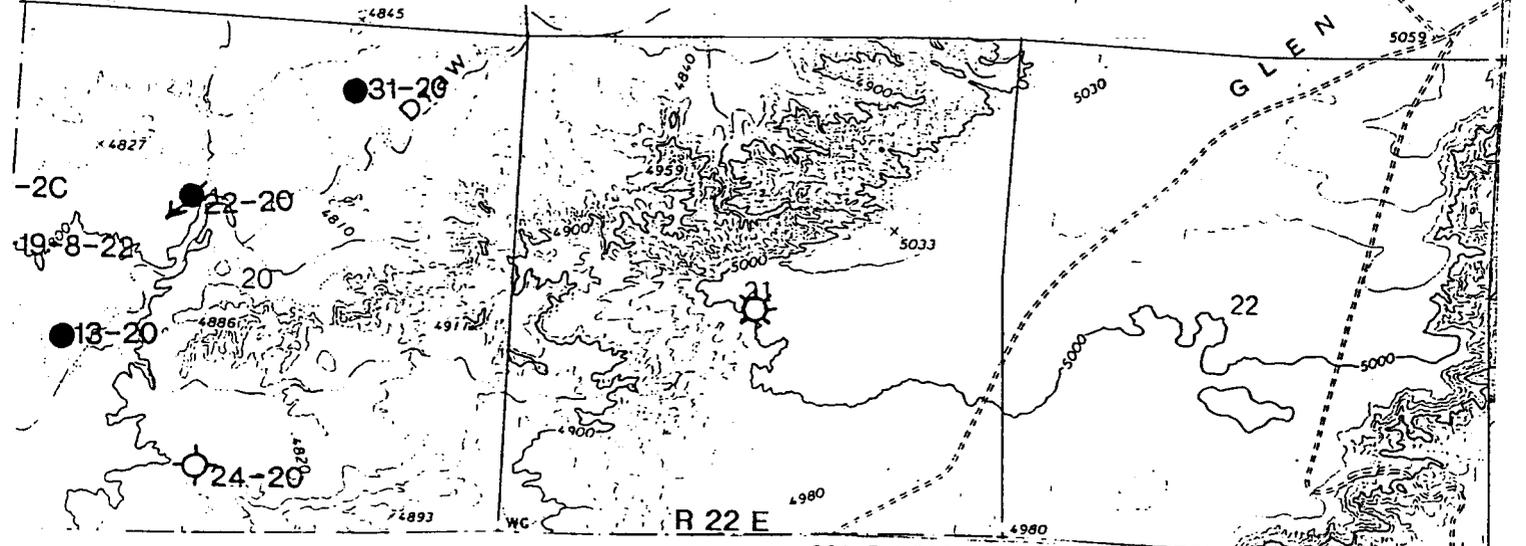
Thomas D. Taylor
Production Geologist



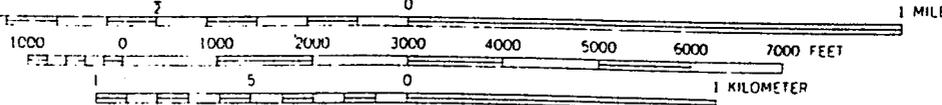
Ask Scott Webb for verbal confirmation that the maximum injection proposed (to satisfy R649-5-2-2.6) is meant to be 720 bbls PER DAY - Cite this figure again correctly on the permit

Call Scott Webb to ask for a review of the mechanical condition of 2 wells in 1/2 mi. AOR not included in info package R649-5-2.11

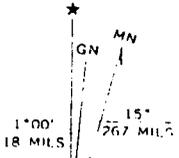
4304730370 Untapped
4304732857 GBULL 14-8-22



SCALE 1:24 000

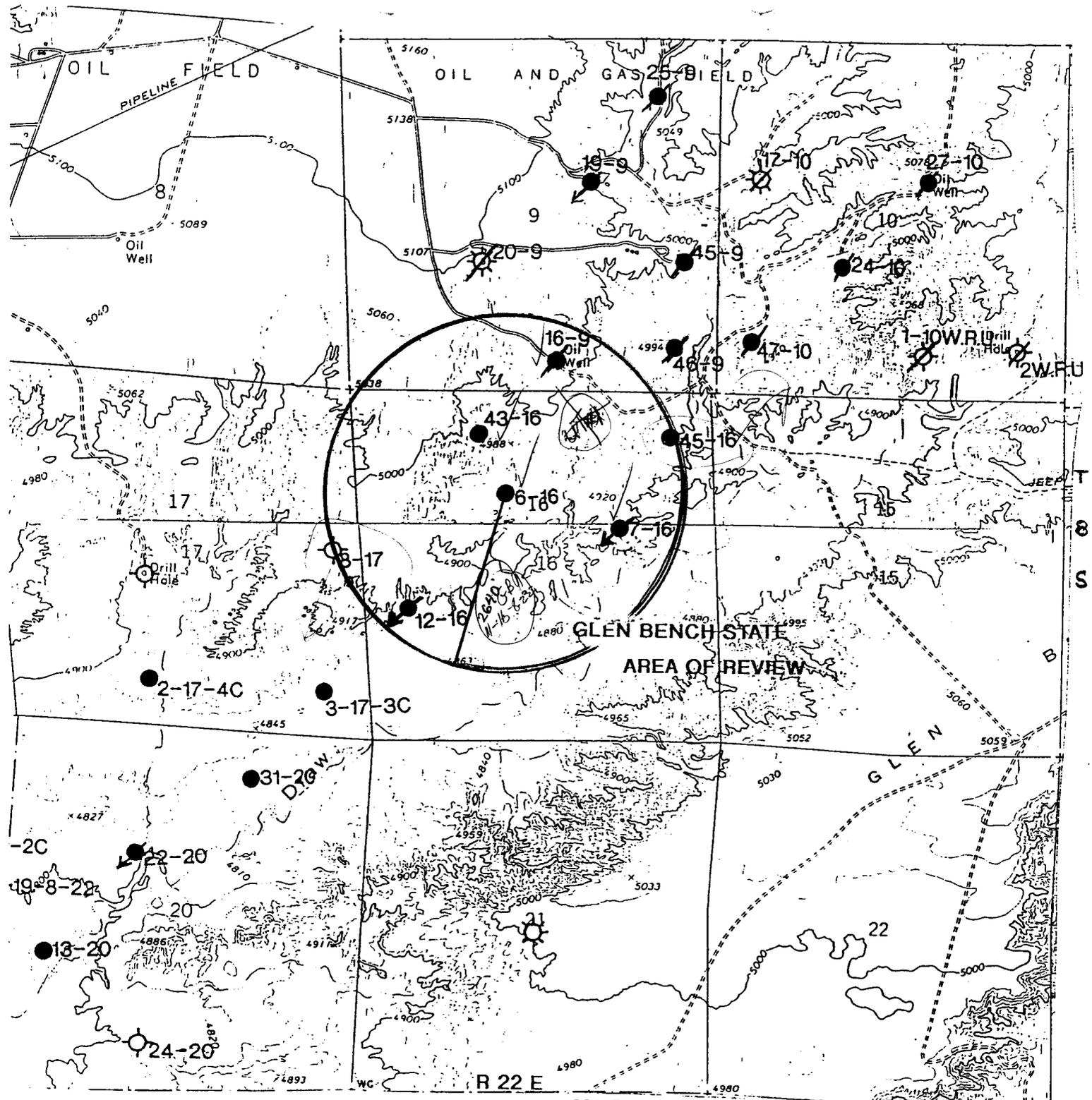


CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

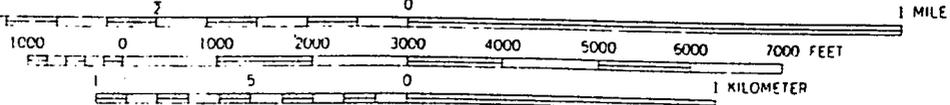


710 AND 1968 MAGNETIC NORTH INCLINATION AT CENTER OF SHEET

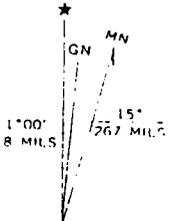
1/2 mi. AOR Surface Ownership



SCALE 1:24 000

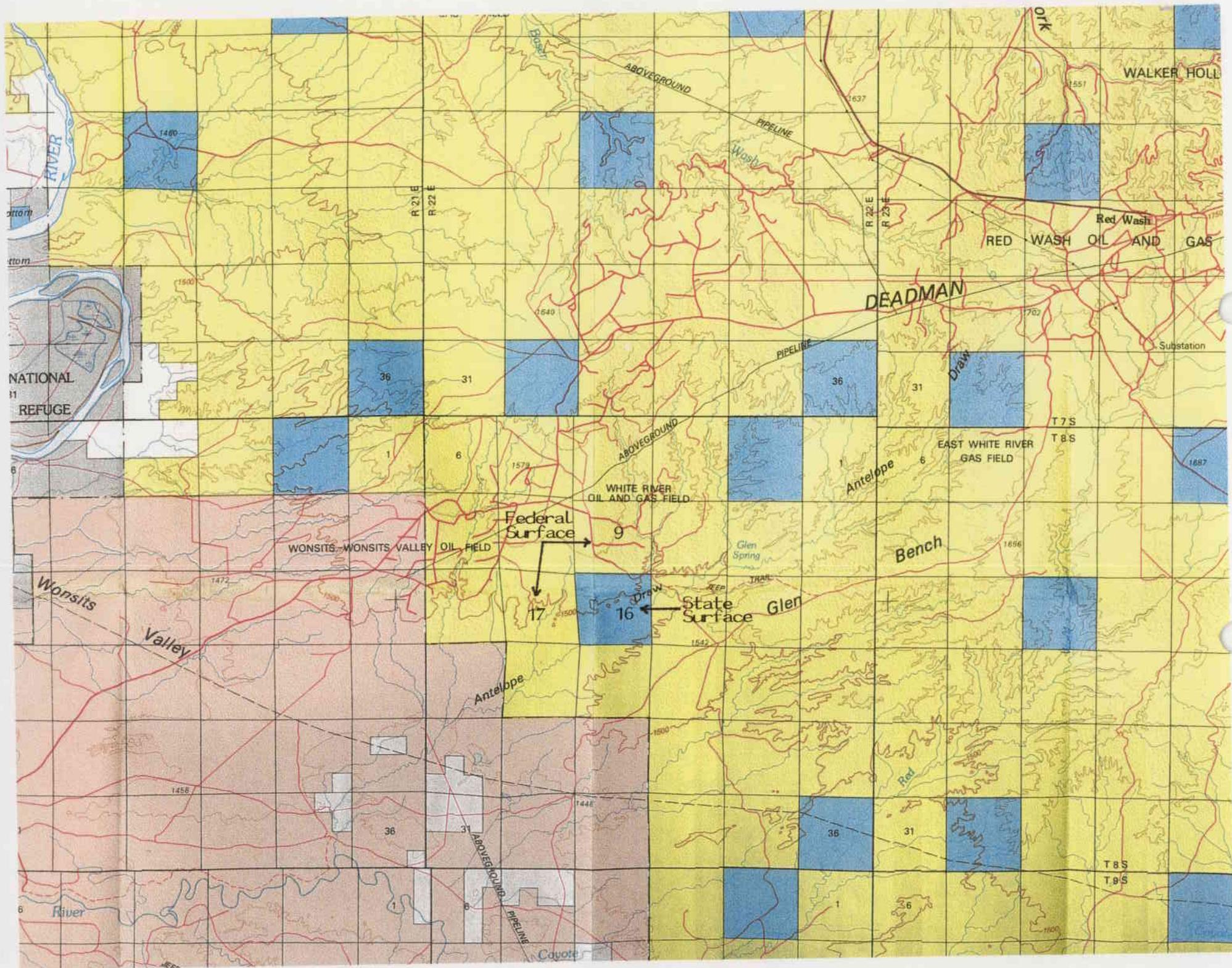


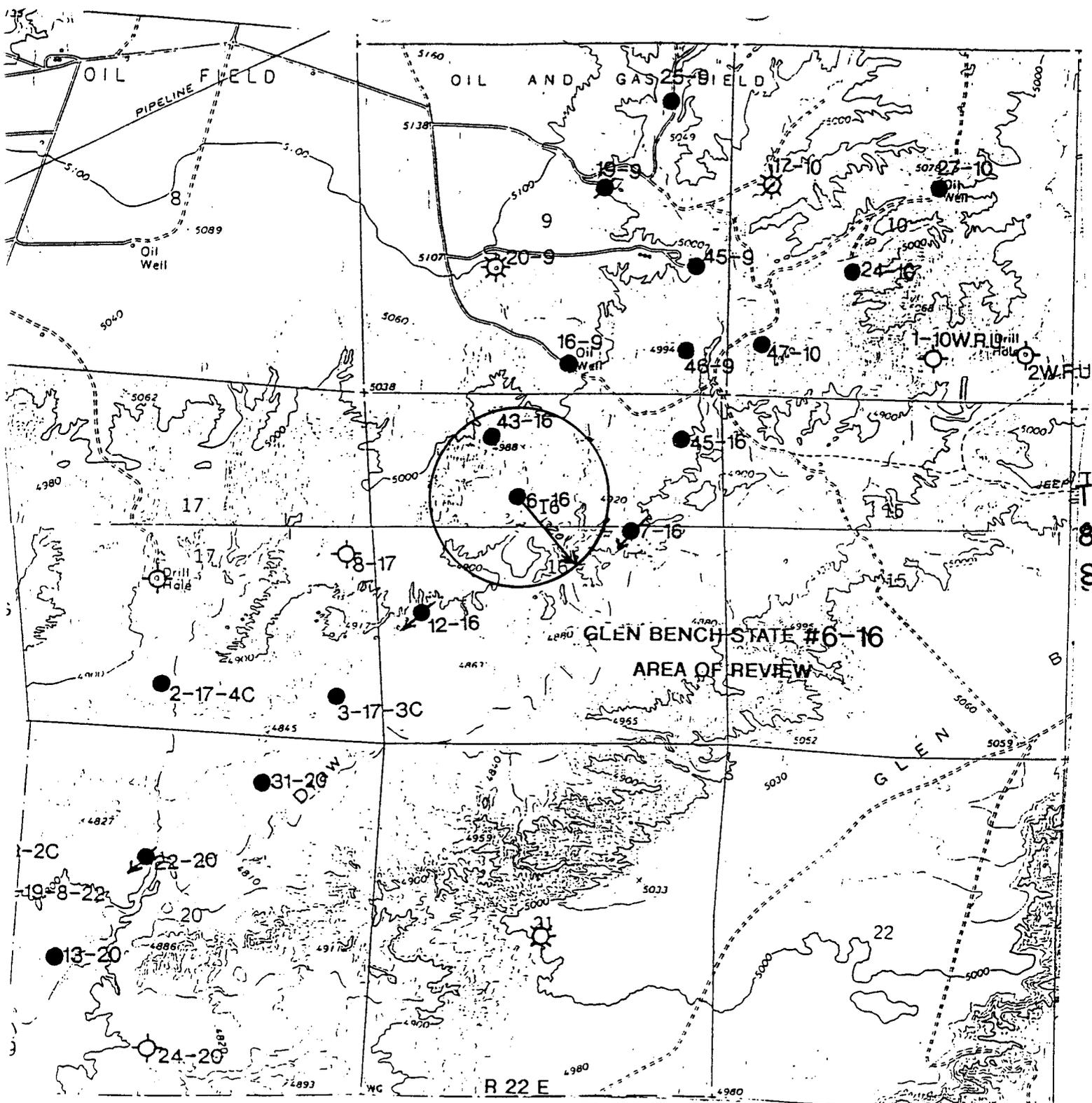
CONTOUR INTERVAL 20 FEET
 DOTTED LINES REPRESENT 10-FOOT CONTOURS
 DATUM IS MEAN SEA LEVEL



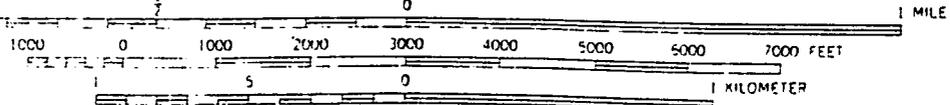
710 AND 1968 MAGNETIC NORTH
 INCLINATION AT CENTER OF SHEET

*1/2 mi. AOR
 Surface
 Ownership*

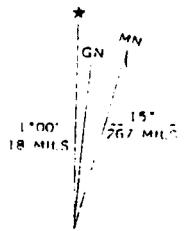




SCALE 1:24000



CONTOUR INTERVAL 20 FEET
 DOTTED LINES REPRESENT 10-FOOT CONTOURS
 DATUM IS MEAN SEA LEVEL



GRID AND 1968 MAGNETIC NORTH
 DECLINATION AT CENTER OF SHEET

Amador

DRILLING & COMPLETION REP.

April 3, 1995

CHANDLER & ASSOCIATES - OPERATED

Well:	Glen Bench 6-16	Prospect:	Glen Bench
Legal:	SE NW Sec 16-8S-22E	Well #:	8695-22-44
	Uintah County, Ut	Prospect #:	8695

03/01	P 24hrs	50 BO	0 BLW	No gas sales	99 BLWTR (33%)
03/02	P 24hrs	50 BO	0 BLW	No gas sales	99 BLWTR (33%)
03/03	P 24hrs	40 BO	0 BLW	No gas sales	99 BLWTR (33%)
03/04	P 24hrs	43 BO	5 BLW	No gas sales	94 BLWTR (31%)
03/05	P 24hrs	42 BO	0 BLW	No gas sales	94 BLWTR (31%)
03/06	P 24hrs	40 BO	0 BLW	No gas sales	94 BLWTR (31%)
03/07	P 24hrs	50 BO	0 BLW	No gas sales	94 BLWTR (31%)
03/08	P 24hrs	50 BO	0 BLW	No gas sales	94 BLWTR (31%)
03/09	P 24hrs	44 BO	0 BLW	No gas sales	94 BLWTR (31%)
03/10	P 24hrs	44 BO	0 BLW	No gas sales	94 BLWTR (31%)
03/11	P 24hrs	52 BO	0 BLW	No gas sales	94 BLWTR (31%)
03/12	P 24hrs	45 BO	0 BLW	No gas sales	94 BLWTR (31%)
03/13	P 24hrs	40 BO	0 BLW	No gas sales	94 BLWTR (31%)
03/14	P 24hrs	48 BO	0 BLW	No gas sales	94 BLWTR (31%)
03/15	P 24hrs	45 BO	0 BLW	No gas sales	94 BLWTR (31%)
03/16	P 24hrs	46 BO	0 BLW	No gas sales	94 BLWTR (31%)
03/17	P 24hrs	46 BO	0 BLW	No gas sales	94 BLWTR (31%)
03/18	P 8hrs	4 BO	0 BLW	No gas sales	94 BLWTR (31%)
	Down 16hrs - engine problem.				
03/19	P 24hrs	66 BO	0 BLW	No gas sales	94 BLWTR (31%)
03/20	P 24hrs	34 BO	0 BLW	No gas sales	94 BLWTR (31%)
03/21	P 24hrs	48 BO	0 BLW	No gas sales	94 BLWTR (31%)
03/22	P 24hrs	51 BO	0 BLW	No gas sales	94 BLWTR (31%)
03/23	P 24hrs	41 BO	0 BLW	No gas sales	94 BLWTR (31%)
	P 50bbls condensate (hot) followed by 90 bbls oil (hot)				
					140 BLOTTR (Total)

Drilling
Completion
Report

02/25	P 24hrs	40 BO	0 BLW	No gas sales	99 BLWTR (33%)
02/26	P 24hrs	40 BO	0 BLW	No gas sales	99 BLWTR (33%)
02/27	P 24hrs	40 BO	0 BLW	No gas sales	99 BLWTR (33%)
02/28	P 24hrs	50 BO	0 BLW	No gas sales	99 BLWTR (33%)
03/01	P 24hrs	50 BO	0 BLW	No gas sales	99 BLWTR (33%)

1187

Well: Glen Bench 6-16
Legal: SE NW Sec 16-8S-22E
Uintah County, Ut

Prospect: Glen Bench
Well #: 8695-22-44
Prospect #: 8695

02/01/95	P 24hrs	40 BO	0 BLW	No gas sales	99 BLWTR (33%)
02/02	P 24hrs	46 BO	0 BLW	No gas sales Shot fluid level: 3988' w/50 psi CP. Sped up SPM on pumping unit.	99 BLWTR (33%)
02/03	P 24hrs	40 BO	0 BLW	No gas sales	99 BLWTR (33%)
02/04	P 24hrs	40 BO	0 BLW	No gas sales	99 BLWTR (33%)
02/05	P 24hrs	40 BO	0 BLW	No gas sales	99 BLWTR (33%)
02/06	P 24hrs	40 BO	0 BLW	No gas sales	99 BLWTR (33%)
02/07	P 24hrs	40 BO	0 BLW	No gas sales	99 BLWTR (33%)
02/08	P 24hrs	45 BO	0 BLW	No gas sales	99 BLWTR (33%)
02/09	P 24hrs	45 BO	0 BLW	No gas sales	99 BLWTR (33%)
02/10	P 24hrs	40 BO	0 BLW	No gas sales	99 BLWTR (33%)
02/11	P 24hrs	40 BO	0 BLW	No gas sales	99 BLWTR (33%)
02/12	P 24hrs	40 BO	0 BLW	No gas sales	99 BLWTR (33%)
02/13	P 24hrs	45 BO	0 BLW	No gas sales	99 BLWTR (33%)
02/14	P 24hrs	40 BO	0 BLW	No gas sales	99 BLWTR (33%)
02/15	P 24hrs	40 BO	0 BLW	No gas sales	99 BLWTR (33%)
02/16	P 24hrs	40 BO	0 BLW	No gas sales	99 BLWTR (33%)
02/17	P 24hrs	35 BO	0 BLW	No gas sales	99 BLWTR (33%)
02/18	P 8hrs D 16hrs	13 BO	0 BLW	No gas sales engine problem	99 BLWTR (33%)
02/19	P 24hrs	60 BO	0 BLW	No gas sales	99 BLWTR (33%)
02/20	P 24hrs	45 BO	0 BLW	No gas sales	99 BLWTR (33%)
02/21	P 24hrs	45 BO	0 BLW	No gas sales	99 BLWTR (33%)
02/22	P 24hrs	48 BO	0 BLW	No gas sales	99 BLWTR (33%)
02/23	P 24hrs	45 BO	0 BLW	No gas sales	99 BLWTR (33%)
02/24	P 24hrs	55 BO	0 BLW	No gas sales	99 BLWTR (33%)

01/18	P 24hrs	55 BO	0 BLW	No gas sales	99 BLWTR (33%)
01/19	P 24hrs	50 BO	0 BLW	No gas sales	99 BLWTR (33%)
01/20	P 24hrs	47 BO	0 BLW	No gas sales	99 BLWTR (33%)
01/21	P 24hrs	47 BO	0 BLW	No gas sales	99 BLWTR (33%)
01/22	P 24hrs	45 BO	0 BLW	No gas sales	99 BLWTR (33%)
01/23	P 24hrs	45 BO	0 BLW	No gas sales	99 BLWTR (33%)
01/24	P 11hrs Down 13hrs,	22 BO	0 BLW	No gas sales gasline freeze to engine.	99 BLWTR (33%)
01/25	P 24hrs	51 BO	0 BLW	No gas sales	99 BLWTR (33%)
01/26	P 24hrs	42 BO	0 BLW	No gas sales	99 BLWTR (33%)
01/27	P 24hrs	40 BO	0 BLW	No gas sales	99 BLWTR (33%)
01/28	P 24hrs	40 BO	0 BLW	No gas sales	99 BLWTR (33%)
01/29	P 24hrs	40 BO	0 BLW	No gas sales	99 BLWTR (33%)
01/30	P 16hrs Down 8hr.	30 BO	0 BLW	No gas sales Gasline freeze to engine.	99 BLWTR (33%)
01/31	P 24hrs	40 BO	0 BLW	No gas sales	99 BLWTR (33%)

Well: Glen Bench 6-16
Legal: Sec 16-8S-22E
Uintah County, Ut

Prospect: Glen Bench
Well #: 8695-22-44
Prospect #: 8695

01/01/95 Set Ajax gas engine. Put well on pump 5pm, 12/31/94.
DEC: \$ 3,200
CTD: \$284,609

01/02 Well was down this am. Belts are burned off pumping unit. Flowline is paraffined off. Extremely cold weather to pump to frac tank. Will attempt to get battery construction completed by Thursday so to get well thru a tracer system. SI. 136 BLWTR (45%)
CTD: \$284,609

01/03 Start battery construction.
CTD: \$284,609

01/04 Building tank battery, flowline & tracer system
DEC: \$ 4,588
CTD: \$289,197

01/05 Building tank battery, flowline & tracer system
DEC: \$ 6,189 (Includes cost of tracer system & one tank)
CTD: \$295,386

01/06 Finished building tank battery, flowline and trace system.
DEC: \$ 7,650 (Fittings)
CTD: \$303,036

01/07 260# SICP. Fluid level @ 2830' from surface. Prep to start unit in am.
CTD: \$303,036

01/08 Start pumping unit this am. Turn thru battery. 6SPM @ 76" stroke.
CTD: \$303,036

01/09	P 16hrs	20 BO	20 BLW	No gas sales	116 BLWTR (39%)
01/10	P 24hrs	30 BO	12 BLW	No gas sales	104 BLWTR (35%)
01/11	P 24hrs	30 BO	5 BLW	No gas sales Shot fluid level @ 3328' and 30# on csg.	99 BLWTR (33%)
01/12	P 24hrs	33 BO	0 BLW	No gas sales	99 BLWTR (33%)
01/13	P 24hrs	25 BO	0 BLW	No gas sales	99 BLWTR (33%)
01/14	P 24hrs	32 BO	0 BLW	No gas sales	99 BLWTR (33%)
01/15	P 24hrs	43 BO	0 BLW	No gas sales	99 BLWTR (33%)
01/16	P 24hrs	42 BO	0 BLW	No gas sales	99 BLWTR (33%)
01/17	P 24hrs	40 BO	0 BLW	No gas sales	99 BLWTR (33%)

Glen Bench 6-16 cont'd:

12/30 Moved & set pumping unit off #47-10. Bled off tbg & csg. T.O. tbg. T.I. tbg w/anchor land tbg @ 5140' (162jtc) (tbg - 29' below perfs). SN @ 5108'. Anchor @ 5073' w/14pts. ND BOP's. SION.
142 BLWTR (47%)
DEC: \$ 13,815
CTD: \$271,529
This am: Prep to swab test & run rods.

12/31 0# SITP. 25# SICP. IFL 3000'. Swab 2 hrs. Rec 6 BLW & 40 BO. FFL 4100'. PU & TI 1½" pump; 154 - ¾" plain & 49 - 7/8" plain (used) rods. Replace polish rod liner. RDSU. 136 BLWTR (45%)
DEC: \$ 9,880
CTD: \$281,409

01/01/95 Set Ajax gas engine. Put well on pump 5pm, 12/31/94.
DEC: \$ 3,200
CTD: \$284,609

01/02 Well was down this am. Belts are burned off pumping unit. Flowline is paraffined off. Extremely cold weather to pump to frac tank. Will attempt to get battery construction completed by Thursday so to get well thru a tracer system. SI. 136 BLWTR (45%)
CTD: \$284,609

01/03 Start battery construction.
CTD: \$284,609

01/04 Building tank battery, flowline & tracer system
DEC: \$ 4,588
CTD: \$289,197

01/05 Building tank battery, flowline & tracer system
DEC: \$ 6,189 (Includes cost of tracer system & one tank)
CTD: \$295,386

01/06 Finished building tank battery, flowline and trace system.
DEC: \$ 7,650 (Fittings)
CTD: \$303,036

01/07 260# SICP. Fluid level @ 2830' from surface. Prep to start unit in am.
CTD: \$303,036

01/08 Start pumping unit this am. Turn thru battery. 6SPM @ 76" stroke.
CTD: \$303,036

01/09 P 16hrs 20 BO 20 BLW No gas sales 116 BLWTR (39%)

01/10 P 24hrs 30 BO 12 BLW No gas sales 104 BLWTR (35%)

01/11 P 24hrs 30 BO 5 BLW No gas sales 99 BLWTR (33%)
Shot fluid level @ 3328' and 30# on csg.

Glen Bench 6-16 cont'd:

- 12/22 Swab 2hrs. Rec 3BLW & 2BO. FFL 5037'. Final tbq trace of gas. FCP
0#. Run bottom hole pressure bombs. Set @ 5000'. SI.
11 BLWTR (24%)
DEC: \$ 995
CTD: \$228,639
- 12/23 SI for bottom hole pressure buildup.
CTD: \$228,639
- 12/24 SI for bottom hole pressure survey.
CTD: \$228,639
- 12/25 SI for bottom hole pressure survey.
CTD: \$228,639
- 12/26 SI for bottom hole pressure survey.
CTD: \$228,639
- 12/27 After 118hrs SI, tbq was 55#. Pull bottom hole pressure bombs.
Bottom hole pressure is 605#. IFL 3900'. Swab 1½hrs. Rec 6 BO & 0
BLW. FFL 5037'. Release packer. Could not get past 1000'. Flush tbq
using 20bbls hot KCL water. IFL 1100'. Swab 4hrs. Rec 31 BLW, 44
BW. FFL 4600'. T.O. tbq & packer. R.U. Western Company. Frac via
csg using 35# 2% KCL gelled water system (Viking I). Pump 7560 gals
Viking I; 13,040# 20/40 & 14,480# 16/30 sand. Max pressure 2740#;
Average 25 BPM @ 2000#. ISIP 1950# 15 min. SIP 1150#. Flushed
w/120bbls of 2% KCL. All fluids were heated to 90°. SION. RD
Western Company. 300 BLWTR (100%)
DEC: \$ 25,005
CTD: \$253,644
This am: Prep to swab test.
- 12/28 SI 14hrs csg on a strong vacuum. TI tbq. Tag @ 5386'KB (275'
rathole). Land @ 4914'KB (192' above top perms.) IFL 2000'. Swab
7hrs. Rec 96 BLW & 5 BO. Final run was 19% oil cut. FFL 4400'.
Slightly gas cut fluid. Lower tbq & tag @ 5353' - 31' of additional
sand fill. Re-land tbq @ 4914'. SION. 204 BLWTR (68%)
DEC: \$ 2,115
CTD: \$255,759
This am: 55# SITP. 0# SICP.
- 12/29 IFL 3100'. Swab 9½hrs. Rec 62 BLW & 23 BO. FFL 4500'. Lite gas
while swabbing. Lower tbq. Tag @ 5353' no additional fill. Re-land
tbq @ 4914'. SION. 142 BLWTR (47%)
DEC: \$ 1,955
CTD: \$257,714
This am: 170# SITP. 110# SICP.

Well: Glen Bench 6-16
Legal: Sec 16-8S-22E
Uintah County, Ut

Prospect: Glen Bench
Well #: 8695-22-44
Prospect #: 8695

12/13/94 Waiting on completion
CTD: \$212,549

12/14 Waiting on completion
CTD: \$212,549

12/15 Install bellnipple, rig anchors and fence 4th side of reserve.
DEC: \$ 1,210
CTD: \$213,759

12/16 MIRUSU
DEC: \$ 1,400
CTD: \$215,159

This am: Prep to run scraper.

12/17 P.U. & T.I. tubing w/bit & scraper. Tag PBTD @ 5440'KB (new PBTD).
T.O. tbg & scraper. SI.
DEC: \$ 2,800
CTD: \$217,959

12/18 Shut down for Saturday
CTD: \$217,959

12/19 Shut down for Sunday
This am: Prep to perforate
CTD: \$217,959

12/20 Ran cement bond log. Top cement @ 2150'. Excellent bond. Pressure
test csg to 2000#. Held OK. T.I. tbg land @ 5350'KB. IFL surface
swab 4hrs. Rec 106 BLW. FFL 4470'. T.O. tbg. R.U. Schlumberger.
Perforate interval: 5106'-5111' w/4JSPF (20 holes) per CBL dated
12/18/94. Fluid level before & after perforating was 4470'. R.D.
Schlumberger. SION.
DEC: \$ 7,020
CTD: \$224,979
This am: Prep to T.I. tbg to swab test.

12/21 0# SICP. T.I. tbg w/packer land btm tbg @ 5037'KB. IFL 4400'. Swab
3hrs. Rec 3.5 BLW w/trace of oil & gas. Brkdwn formation usint 120
degree 2% KCL. Load hole w/29bbbls. P 16bbbls @ 4.3 BPM @ 1750#. ISIP
1000#. 5 min. SIP 0#. IFL 200'. Swab 3hrs. Rec 31 BLW. FFL 5037'.
Final tbg 0. FCP 0#. SION. 45 BLWTR (Total)
14 BLWTR (31%)
DEC: \$ 2,665
CTD: \$227,644
This am: 25# SITP. 0# SICP. IFL 4200' w/300' oil on top

12/09 Circulating to log @ 5500'
Mud: Wt - 9.1 Vis - 45 WL - 9.8 FC - 2/32
pH - 9.5 Solids 2.8% (1/4% sandstone)
Bit #6 - In @ 5150'
Survey: None
DEC: \$ 7,902
CTD: \$142,688

12/10 LDDP @ 5500'
Mud: Wt - 9.0 Vis - 43 WL - 9.2 FC - 2/32
pH - 9.5 Solids 5% (1/4% sandstone)
Survey: 2° @ 5460'
DEC: \$ 15,904
CTD: \$158,592

12/11 LTD 5460' DTD 5500'
Ran 10jts 5½" 17# & 116jts 5½" 15.5 csg set @ 5487'KB w/FCC
5448'KB. Pump 350sx Super 'G' plus 20# Poz, 17# CF2, 3% salt, 2%
gel, 2#/sx hy-seal followed by 350sx Glass 'G' w/2# hy-seal.
Displaced w/130bbls 2% KCL. Plug down @ 5:47pm, 12-10-94 w/900#.
Lost circulation last 3 mins of displacement. Rig released @
9:30pm, 12-10-94.
DEC: \$ 53,957
CTD: \$212,549

12/12 Waiting on completion
CTD: \$212,549

12/01 Drilling @ 2280'
Wt - 8.3 Vis - 26
Survey: 3/4° @ 1363' 1-1/4° @ 1739'
DEC: \$15,441
CTD: \$63,072

12/02 Drilling @ 2940'
Survey: 2-1/4° @ 2240' 2-1/4° @ 2634'
DEC: \$11,378
CTD: \$74,450

12/03 Drilling @ 3526'
Survey: 2° @ 3060'
DEC: \$10,668
CTD: \$85,118

12/04 Drilling @ 4240'
Survey: 2 1/2° @ 3584'
DEC: \$13,298
CTD: \$98,416

12/05 Drilling @ 4730'
Survey: 2° @ 4325'
DEC: \$10,188
CTD: \$108,604

12/06 Drilling @ 5070'
Mud: Wt - 8.7 Vis - 32 WL - 9.6 FC - 2/32
pH - 10.0 Solids 2.8% (trace sandstone)
Survey: None
DEC: \$ 8,409
CTD: \$117,013

12/07 Coring @ 5130'
Mud: Wt - 8.8 Vis - 38 WL - 9.6 FC - 2/32
pH - 9.5 Solids 2.8%
Survey: 3° @ 5100'
DEC: \$ 7,943
CTD: \$124,956

12/08 Reaming @ 5150'
Mud: Wt - 8.7 Vis - 34 WL - 9.8 FC - 2/32
pH - 9.5 Solids 2.8% (1/4% sandstone)
Survey: None
DEC: \$ 9,830
CTD: \$134,786

Core from 5100 - 5150'. Cut and recovered 50'. Interval 5113'-5119'. Good fluorescence, solid oil stain, find to medium grain sand.

Well: Glen Bench 6-16
Legal: Sec 16-8S-22E
Uintah County, Ut

Prospect: Glen Bench
Well #: 8695-22-44
Prospect #: 8695

11/15/94 Start building road and location

11/16 Building road and location

11/17 Finished building road and location. Bid cost is \$4,000.

11/21 Install pit liner & fence.
DEC: \$ 3,800
CTD: \$ 3,800

11/22 Gravel parts of lease road. MI rotary tools. Prep to spud 11-25-94.
DEC: \$ 7,800
CTD: \$11,600

11/23 Shut down for drawworks repair

11/24 Shut down for drawworks repair
DEC: \$ 1,301
CTD: \$12,901

11/25 Shut down for drawworks repair

11/26 Complete drawworks repair
DEC: \$ 450
CTD: \$13,351

11/27 Drilling surface hole @ 57'
DEC: \$ 4,024
CTD: \$17,375
Spudded @ 5am, 11/27/94

11/28 Cement casing @ 390'
Wt - 9.0 Vis - 40
Survey: 1-1/4° @ 92' 1-1/2° @ 390' 1° @ 181'
DEC: \$ 4,612
CTD: \$21,987

11/29 Run survey @ 641'
Wt - 8.3 Vis - 26 pH - 8.5
Survey: 1-3/4° @ 509'
DEC: \$ 4,956
CTD: \$26,943

11/30 Drilling @ 1288'
Wt - 8.3 Vis - 26
Bit #3 - S11J - In @ 390'
Bit #4 - HP53A - In @ 1288'
Survey: 1-1/4° @ 907' 1° @ 1069' 1-1/4° @ 1288'
DEC: \$20,688
CTD: \$47,631

P&A PROCEDURE
GLEN BENCH UNIT STATE #6-16-8-22

Purpose : Plug and abandon well.

PERTINENT INFORMATION

Well Location : 1559' FNL, 2191' FWL (SE NW)
Section 16, T8S, R22E
Uintah Co., Utah

Spud Date:	11/27/94	Completion Date:	12/31/94
Elevations:	4936' GL, 4948' KB	TD:	5500' KB (Wasatch)
PBTD:	5353' KB	Formation:	Green River
Casing:	8-5/8", 24# @ 388' KB w/ 285 sx "G"		
	5-1/2", 11.6# @ 5487' KB w/ 700 sx "G"		
Perforations:	5106' – 5111' w/20 shots, .38 dia.		
Top of Cement:	2150' (estimate from cement bond log)		

PROCEDURE

1. Drop std valve and test 2-7/8" tbg to 2000#
2. MIRUSU. ND wellhead. Release pkr @ 4700'. POOH w/tbg.. LD BHA.
3. TIH w/mill and 5-1/2" casing scraper, clean out to PBTD @ approximately 5353'. CO to PBTD using hot H₂O and diesel as necessary to clean out paraffin. POOH.
4. PU 5-1/2", 15.5# CIBP. Set CIBP @ approx 5050'.
5. Spot 200' cement plug (approx 30 sx) on top of CIBP. Leave drilling fluid of sufficient volume and density as required by the BLM.
6. Mahogany Bench estimated at 3510'. Set balanced plug as required by the BLM and spot 30 sacks of cement. Leave drilling fluid of sufficient volume and density as required by the BLM. Pull up hole and circulate tbg to ensure tbg is clear.
7. Set 100' balance plug inside 5-1/2" casing between 2800' and 2900' (top Green River / base USDW). Leave drilling fluid of sufficient volume and density as required by the BLM.
8. Pressure test csg to 500 psi.
9. Perf below casing shoe @ 388', circulate cement to surface. POOH leaving 100' cement plug inside 5 1-2" production casing.
10. Cut off csg 4' below ground level. Cap casing, set dry hole marker, remove surface equipment, and reclaim location.

PLUGGING AND ABANDONMENT PLAN

Well Name : Glen Bench State #6-16

Location : 1559' FNL & 2191' FWL (SE NW) Sec. 16, T8S R22E

Field : Glen Bench

Spud: 11/27/94

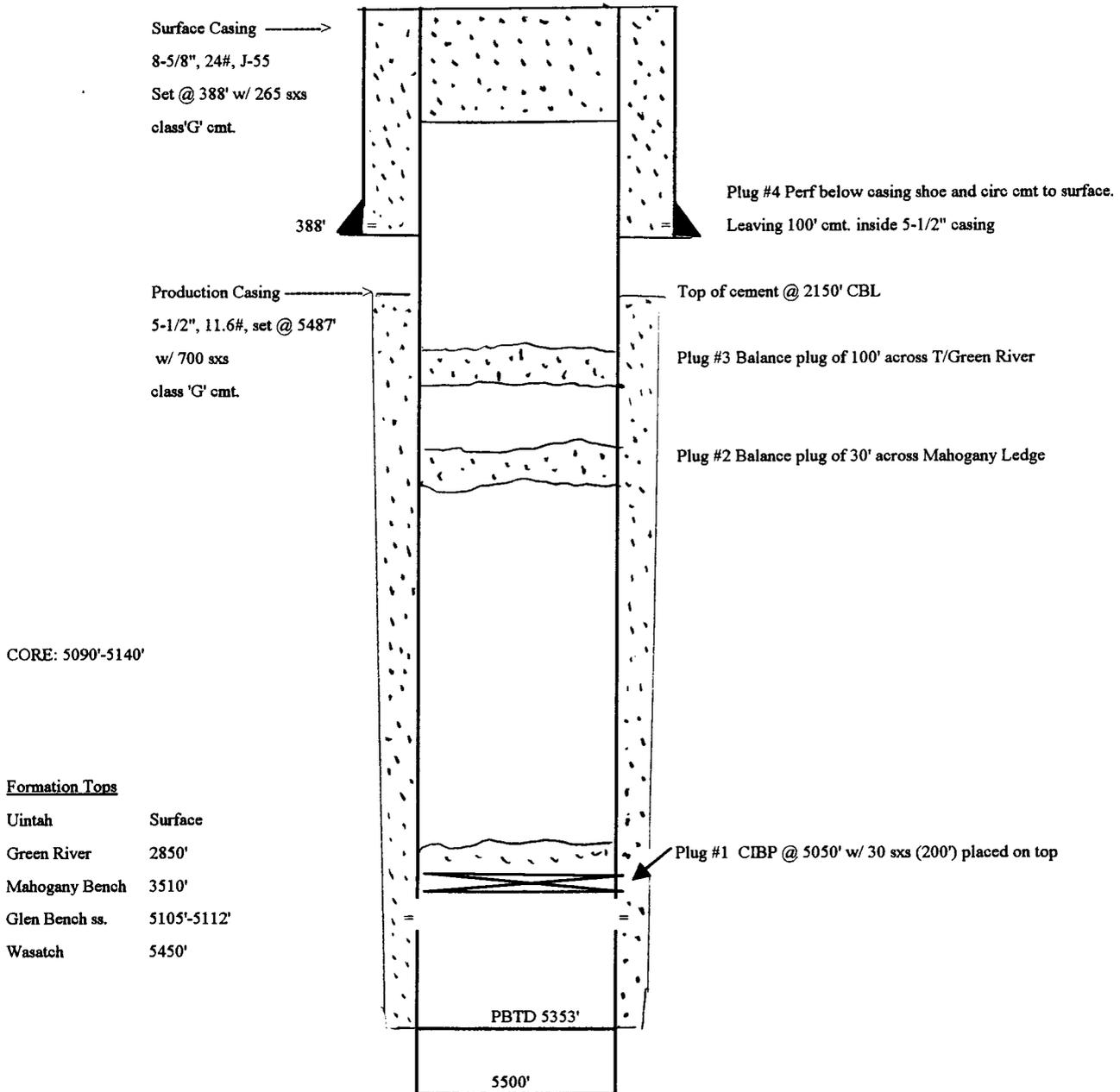
Comp: 12/31/1994

County : Uintah

State : Utah

KB : 4948'

GL : 4936'



STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

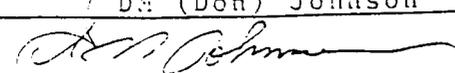
1. Well name and number: Glen Bench State #6-16
API number: 43-047-32549
2. Well Location: QQ SENW Section 16 Township 8S Range 22E County Uintah
3. Well operator: Chandler & Associates, Inc.
Address: 475 17th St, Suite 1000
Denver, Co 80202 Phone: (303) 295-0400
4. Drilling contractor: Chandler Drilling Company
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

6. Formation tops: Surface Uintah
2850' Green River
5450' (Est) Wasatch (drilled, not logged)

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: 12/23/94

Name & Signature: DM (Don) Johnson Title: Mgr-Prod/Oper


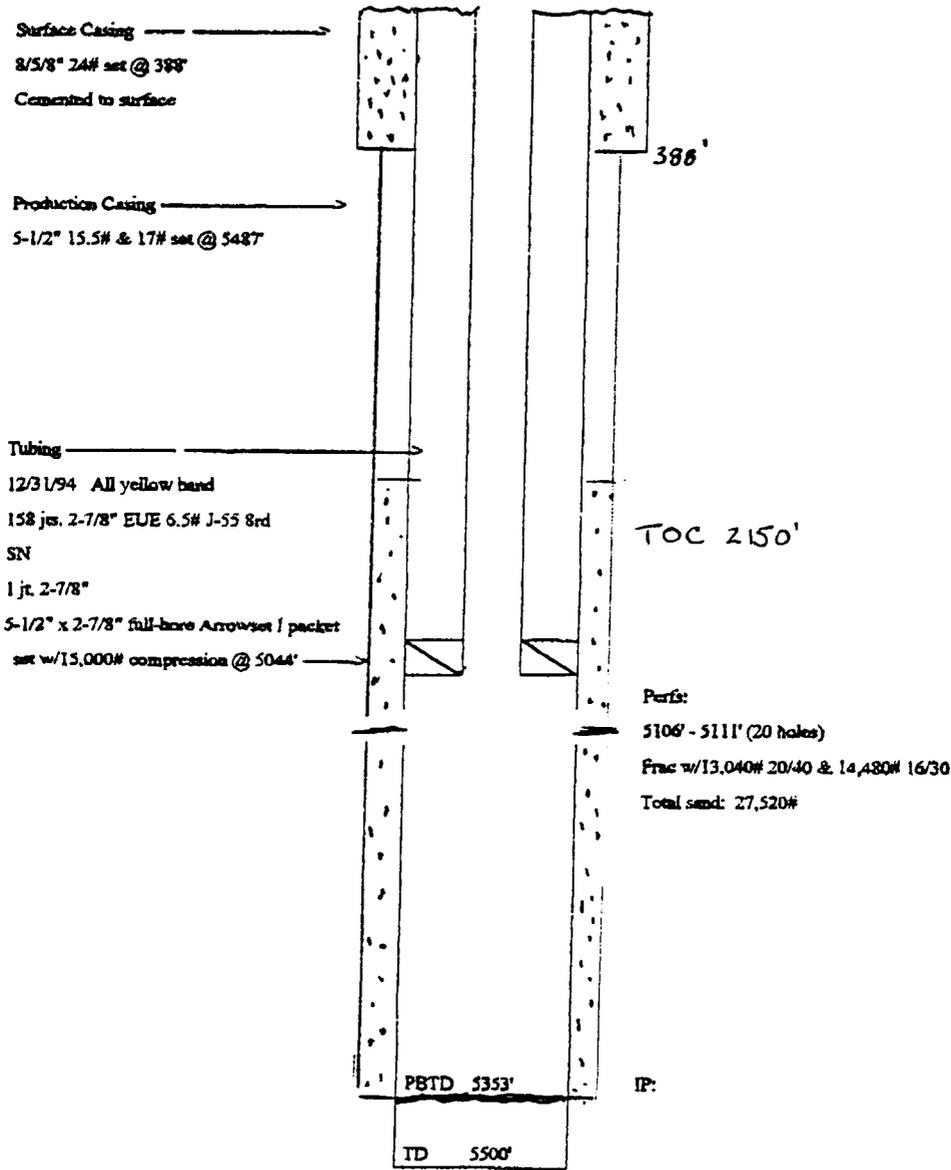
Ground Water Info

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

Division of the System	System	Series	Formation or rock unit	Maximum known thickness (feet)	Description	Hydrologic significance		
CENOZOIC	TERTIARY	Miocene	Browns Park Formation	1,200	Extremely variable deposits of sandstone, tuffaceous rock, and conglomerate.	Very low to moderate permeability. Yields small quantities of fresh water to springs and wells in the Brush Creek and Durango Mountain areas north and northeast of Vernal. Probable source of some springs on the slopes of the central Uinta Mountains.		
			Bishop Conglomerate	300	Conglomerate of sandstone, quartzite, metamorphic, and volcanic rock fragments. Considered by some geologists to be the basal part of the overlying Browns Park Formation.			
			Extensive igneous rock	100(?)	Mostly andesitic pyroclastics; may be the Keetley Volcanics or equivalent. Present as erosional remnants on the highest hills near Wolf Creek Pass.	Yields water to some small springs; most of these springs are along fractures or formation contacts.		
		Oligocene	Duchesne River Formation	3,800	A mostly fluvial facies. Shale, mostly red, siltstone, marlstone, sandstone, and conglomerate, unconformably underlying younger rocks from near the Colorado State line to near Strawberry Reservoir. Coarsest grain sizes are near the basin margins where the formation interfingers with other formations. In the central part of the basin it is gradational with the underlying Uinta Formation and consists of interbedded sandstone and shale. Sandstone is most abundant in the lower part and, with conglomerate, is found in the upper part. The sandstone is of two types: a light-colored (commonly yellow) channel deposit, and a darker, more compact, better cemented interchannel (?) lenticular deposit. In most of its extent the formation is slightly to strongly fractured. Fractures are locally re-cemented with calcium sulfate.	Very low to very high permeability. The horizontal intergranular permeability of 19 sandstone samples ranged from 0.000033 to 3.28 mD (feet per day). Porosity ranged from 7 to 32 percent. Aquifer permeability is enhanced by fracturing. Yields of wells and springs range from less than 1 to more than 100 gpm (gallons per minute), usually with large drawdowns in wells. The most permeable rocks seem to be near edges of outcrops west of Roosevelt in the central basin; the least permeable rocks seem to be in areas north and east of Fort Duchesne. Water movement may be impeded locally by gilsonite dikes. Near recharge areas, or where the formation is fractured or is moderately permeable, the water usually is fresh. At greater depths where the formation is or very low permeability, the water is slightly saline to briny. Confined conditions are common. In the lower parts of the basin, such as near Roosevelt, artesian heads may be more than 100 feet above land surface, but in higher parts of the basin water levels are below land surface.		
			Uinta Formation	4,000	Calcareous shale, some limestone, claystone, siltstone, and sandstone. It is a fluvial facies in the eastern and western ends of the basin that interfingers with rocks similar in appearance to the overlying Duchesne River Formation. Grapes laterally into thinner bedded calcareous lake deposits in the center of the basin.	Very low to very high permeability. Largest primary intergranular permeability of the sandstone seems to be about the same as that of the matrix for sandstone in the Duchesne River Formation. Most of the formation is finer grained, and, therefore, of lower primary permeability than the Duchesne River Formation. Permeability is greatly increased where the Uinta Formation is fractured. In most of the area, the formation yields only a few gallons per minute of saline water to wells and springs. In some areas the water has high fluoride and bromine concentrations. Locally, flowing wells yield fresh to slightly saline water. In the fluvial facies, particularly where the rocks are fractured, yields are larger.		
			Green River Formation	7,000	Mostly lacustrine shale that contains some limestone, marlstone, and calcilite. The formation includes beds of oil shale and of carbonate evaporite. The Green River interfingers with both the overlying Uinta and underlying Wasatch Formations, as well as laterally with other formations near the edges of the basin.	Very low to low permeability, except where fractured. Sandstones near oil shale beds have values of transmissivity from 0.9 to 2.4 mD (feet squared per day). In most of the basin the formation yields only saline or brine water, though in and near the area of outcrop in the southern part of the basin the water is fresh to slightly saline, and in the area of outcrop near Strawberry Reservoir the water is fresh where the formation is fractured.		
		Paleocene and Eocene	Wasatch Formation	5,000	In most of the basin is mainly lacustrine shale, sandstone, and conglomerate. Interfingers with the overlying and underlying formations and laterally with the North Fork, Curram Creek, and Green River Formations. Crops out only in the eastern end of the northern Uinta Basin and in the margins of well-drained areas in the southern Uinta Basin.	Very low to low permeability, except where fractured. In the Greater Alamosa-Bluff outcrop the Wasatch sands reportedly have only 4 to 5 percent porosity, but are permeable because of fracturing. Much of the water produced with petroleum is moderately saline to very saline; generally, however, the water is less mineralized than is water from the Green River Formation.		
			Green River Formation	4,000	Continental River Formation - fluvial deposits of very coarse conglomerate and impure sandstone. Interfingers with the overlying and underlying formations and laterally with the North Fork, Curram Creek, and Green River Formations. Crops out only in the eastern end of the northern Uinta Basin and in the margins of well-drained areas in the southern Uinta Basin.	Low to very low permeability. Primary permeability of a certain from the outcrop in the southern river valley was 1.44 mD and porosity was 10 percent; these probably are maximum primary values for the formation. Fractured rock has a permeability of more than 100 mD and may yield fresh water. Fractured rock is reported to yield fresh water in the formation in Utah.		
		MESOZOIC AND PALAEZOIC	CANTONIAN AND PALAEZOIC	Upper Carboniferous and Paleozoic	Continental River Formation	4,000	Continental River Formation - fluvial deposits of very coarse conglomerate and impure sandstone. Interfingers with the overlying and underlying formations and laterally with the North Fork, Curram Creek, and Green River Formations. Crops out only in the eastern end of the northern Uinta Basin and in the margins of well-drained areas in the southern Uinta Basin.	Low to very low permeability. Primary permeability of a certain from the outcrop in the southern river valley was 1.44 mD and porosity was 10 percent; these probably are maximum primary values for the formation. Fractured rock has a permeability of more than 100 mD and may yield fresh water. Fractured rock is reported to yield fresh water in the formation in Utah.
					Continental River Formation	4,000	Continental River Formation - fluvial deposits of very coarse conglomerate and impure sandstone. Interfingers with the overlying and underlying formations and laterally with the North Fork, Curram Creek, and Green River Formations. Crops out only in the eastern end of the northern Uinta Basin and in the margins of well-drained areas in the southern Uinta Basin.	Low to very low permeability. Primary permeability of a certain from the outcrop in the southern river valley was 1.44 mD and porosity was 10 percent; these probably are maximum primary values for the formation. Fractured rock has a permeability of more than 100 mD and may yield fresh water. Fractured rock is reported to yield fresh water in the formation in Utah.
Continental River Formation	4,000				Continental River Formation - fluvial deposits of very coarse conglomerate and impure sandstone. Interfingers with the overlying and underlying formations and laterally with the North Fork, Curram Creek, and Green River Formations. Crops out only in the eastern end of the northern Uinta Basin and in the margins of well-drained areas in the southern Uinta Basin.	Low to very low permeability. Primary permeability of a certain from the outcrop in the southern river valley was 1.44 mD and porosity was 10 percent; these probably are maximum primary values for the formation. Fractured rock has a permeability of more than 100 mD and may yield fresh water. Fractured rock is reported to yield fresh water in the formation in Utah.		

Well Name: Glen Bench 6-16
 Location: SENW Sec. 16, T8S, R22E
 Field: Glen Bench
 Spud Date:
 Completed: 12/31/94

Date of last work: 12-17-99
 County: Uintah
 State: Utah
 KB: 4948' (12')
 GL: 4936'



Current condition for injection

G16 Info
 Csg. Dia.

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

(See other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

ML-22049

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT AGREEMENT NAME

NA

8. FARM OR LEASE NAME

Glen Bench State

9. WELL NO.

6-16

10. FIELD AND POOL OR WILDCAT

Glen Bench

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

Sec 15-T8S-R22E

SLB & M

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

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

2. NAME OF OPERATOR
Chandler & Associates, Inc.

3. ADDRESS OF OPERATOR
475 17th St, Ste 1000 Denver, Co 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1559' FNL & 2191' FWL (SE NW)

At top prod. interval reported below same

At total depth same

14. PERMIT NO. 43-047-32549 DATE ISSUED 10-4-94

15. DATE SPUNDED 11-27-94 16. DATE T.D. REACHED 12-9-94 17. DATE COMPL. (Ready to prod.) 12-19-94 18. ELEVATIONS (DF. RKB, BT, CR, ETC.)* 4936' GR 4948' KB 19. ELEV. CASINGHEAD - - -

20. TOTAL DEPTH, MD & TVD 5500 21. PLUG SACK T.D., MD & TVD 5448 22. IF MULTIPLE COMPL. HOW MANY* - - - 23. INTERVALS DRILLED BY - - - ROTARY TOOLS 0-TD CABLE TOOLS - - -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 5106' - 5111' Glen Bench 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN DI-FL/GR; CNL-CDL/GR 27. WAS WELL CORED Yes

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	388	12-1/4	285sx Glass 'G'	- - -
5-1/2	11.6	5487	7-7/8	700sx Class 'G'	- - -

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8	5140	

31. PERFORATION RECORD (Interval, size and number)

5106' - 5111'
20 shots
.38"

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5106' - 5111'	Brkdwn using 500gals 2% KCL. Frac using 7560gals Viking I; 13,040# 20/40 & 14,480# 16/30 sand

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
1-10-95	Pump (2 1/2 x 1 1/2 x 16')	Producing					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
1-13-95	24	NA	→	32	0	0	- - -
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
NA	NA	→	- - -	- - -	- - -	38.7	

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

35. LIST OF ATTACHMENTS
Copy of core data, CBL SPEU hole LOGS ATTACHED

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

SIGNED [Signature] TITLE Mgr, Prod/Operations DATE 1/19/95

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

INSTRUCTIONS

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

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

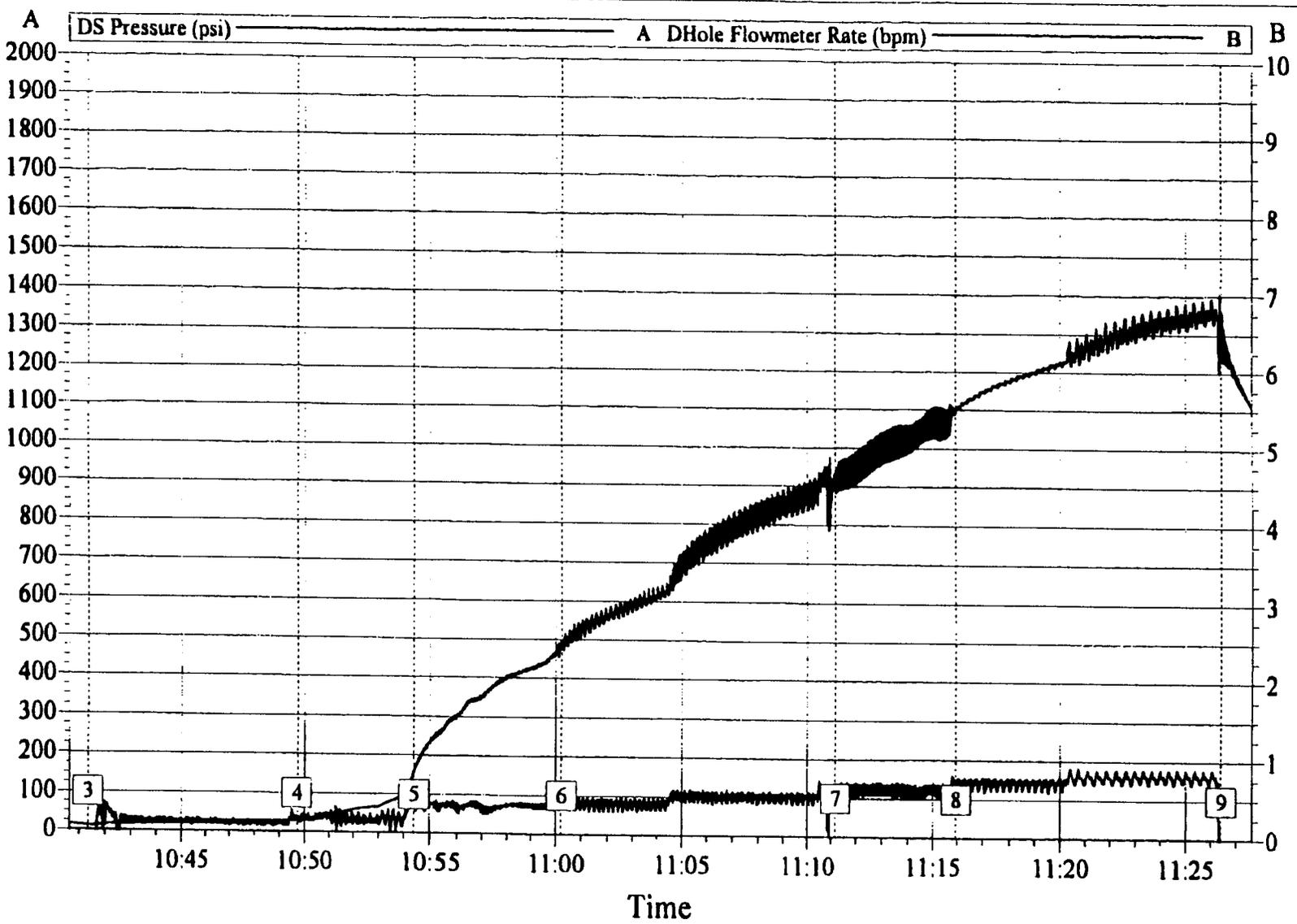
Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

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

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

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL PHILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CURRISON USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERING		38. GEOLOGIC MARKERS		
FORMATION	TOP	DESCRIPTION, CONTENTS, ETC.	BOTTOM	
Uintah	Surface	Sandstone, Siltstone, Shale Oil shale, Limestone, shale sandstone, siltstone Red shale & mudstone Oil bearing sand 5104-5111'	2850'	
Green River	2850'		5450'	
Wasatch	5450'		5500'	
Core:	5090'		5140'	
MEAS. DEPTH				
NAME				
TOP				
TRNS VERT. DEPTH				
		Green River X	4414	+534
		Green River Y	4963	- 15
		Glen Bench SS	5104	-156
		White River S	5364	-416



Customer: CHANDLER
Well Desc: 6-16

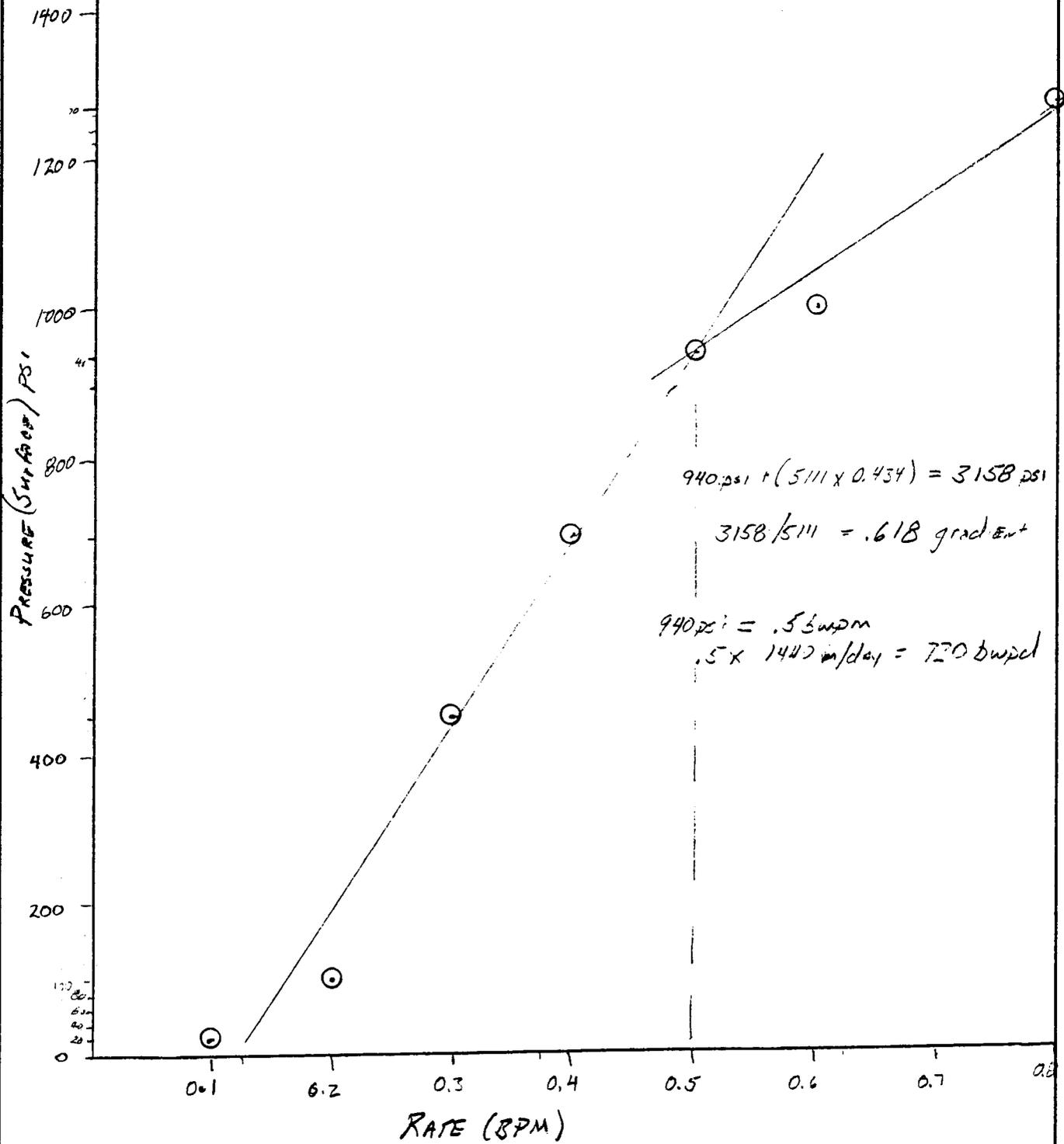
Job Date: 12/23/99
Job Type: STEP RATE TEST

Ticket #: 355392

H HALLIBURTON
CemWin v1.2.0
23-Dec-99 11:57

GLEN BENCH #6-16 STEP RATE TEST

DATE OF TEST
12/23/99



CHANDLER & ASSOCIATES, INC.

CALCULATION SHEET

MADE BY _____

JOB NAME _____

CHECKED BY _____

DATE _____

TITLE _____

FIELD _____

PAGE _____ OF _____

STATE _____

WATER ANALYSIS REPORT

Company CHANDLER AND ASSOCIATES Address _____ Date 05-08-99

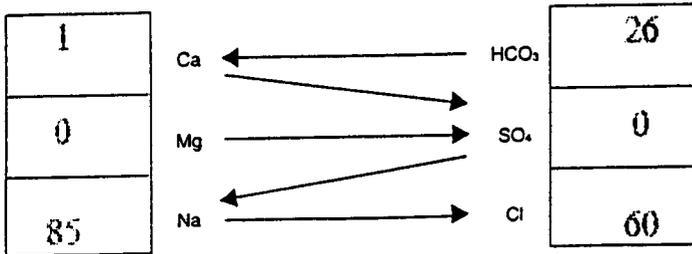
Source GLEN BENCH INJECTION Date Sampled 05-08-99 Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>9.0</u>		
2. H ₂ S (Qualitative)	<u>26</u>		
3. Specific Gravity	<u>1.005</u>		
4. Dissolved Solids		<u>5,689</u>	
5. Alkalinity (CaCO ₃)		<u>0</u>	÷ 30 <u>0</u> CO ₃
6. Bicarbonate (HCO ₃)		<u>1,600</u>	÷ 61 <u>26</u> HCO ₃
7. Hydroxyl (OH)		<u>0</u>	÷ 17 <u>0</u> OH
8. Chlorides (Cl)		<u>2,100</u>	÷ 35.5 <u>60</u> Cl
9. Sulfates (SO ₄)		<u>0</u>	÷ 48 <u>0</u> SO ₄
10. Calcium (Ca)		<u>10</u>	÷ 20 <u>1</u> Ca
11. Magnesium (Mg)		<u>1</u>	÷ 12.2 <u>0</u> Mg
12. Total Hardness (CaCO ₃)		<u>30</u>	
13. Total Iron (Fe)		<u>0.4</u>	
14. Manganese		<u>0</u>	
15. Phosphate Residuals		<u>24</u>	

*white knits
#31-4 water*

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04	<u>1</u>			<u>81</u>
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00	<u>25</u>			<u>2,100</u>
Na ₂ SO ₄	71.03				
NaCl	58.46	<u>60</u>			<u>3,508</u>

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

REMARKS _____

UNICHEM

A Division of BJ Services

P.O. Box 217
Roosevelt, Utah 84066

Office (435) 722-5066
Fax (435) 722-5727

WATER ANALYSIS REPORT

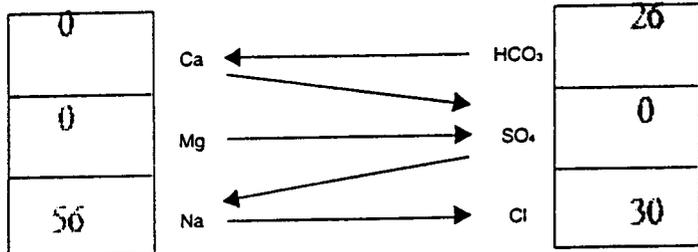
Company CHANDLER AND ASSOCIATES Address _____ Date 04-27-99
Source GLEN BENCH Date Sampled 04-27-99 Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>8.8</u>		
2. H ₂ S (Qualitative)	<u>30</u>		
3. Specific Gravity	<u>1.003</u>		
4. Dissolved Solids		<u>3,938</u>	
5. Alkalinity (CaCO ₃)		<u>0</u>	÷ 30 <u>0</u> CO ₃
6. Bicarbonate (HCO ₃)		<u>1,600</u>	÷ 61 <u>26</u> HCO ₃
7. Hydroxyl (OH)		<u>0</u>	÷ 17 <u>0</u> OH
8. Chlorides (Cl)		<u>1,100</u>	÷ 35.5 <u>30</u> Cl
9. Sulfates (SO ₄)		<u>0</u>	÷ 48 <u>0</u> SO ₄
10. Calcium (Ca)		<u>8</u>	÷ 20 <u>0</u> Ca
11. Magnesium (Mg)		<u>0</u>	÷ 12.2 <u>0</u> Mg
12. Total Hardness (CaCO ₃)		<u>20</u>	
13. Total Iron (Fe)		<u>0.4</u>	
14. Manganese		<u>0</u>	
15. Phosphate Residuals		<u>5</u>	

mineral water

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04				
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00		<u>26</u>		<u>2,184</u>
Na ₂ SO ₄	71.03				
NaCl	58.46		<u>30</u>		<u>1,754</u>

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

REMARKS _____

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Fax (435) 722-5727

WATER ANALYSIS REPORT

Company CHANDLER AND ASSOCIATES Address _____ Date 04-23-99
Source GLEN BENCH Date Sampled _____ Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>8.5</u>		
2. H ₂ S (Qualitative)	<u>34</u>		
3. Specific Gravity	<u>1.003</u>		
4. Dissolved Solids		<u>4,103</u>	
5. Alkalinity (CaCO ₃)		<u>0</u>	÷ 30 <u>0</u> CO ₃
6. Bicarbonate (HCO ₃)		<u>1,700</u>	÷ 61 <u>28</u> HCO ₃
7. Hydroxyl (OH)		<u>0</u>	÷ 17 <u>0</u> OH
8. Chlorides (Cl)		<u>1,050</u>	÷ 35.5 <u>30</u> Cl
9. Sulfates (SO ₄)		<u>0</u>	÷ 48 <u>0</u> SO ₄
10. Calcium (Ca)		<u>16</u>	÷ 20 <u>1</u> Ca
11. Magnesium (Mg)		<u>0</u>	÷ 12.2 <u>0</u> Mg
12. Total Hardness (CaCO ₃)		<u>40</u>	
13. Total Iron (Fe)		<u>0.3</u>	
14. Manganese		<u>0</u>	
15. Phosphate Residuals		<u>0</u>	

Injection H₂O

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04	<u>1</u>			<u>81</u>
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00	<u>27</u>			<u>2,268</u>
Na ₂ SO ₄	71.03				
NaCl	58.46	<u>30</u>			<u>1,754</u>

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

REMARKS _____

UNICHEM

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Roosevelt, Utah 84066

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WATER ANALYSIS REPORT

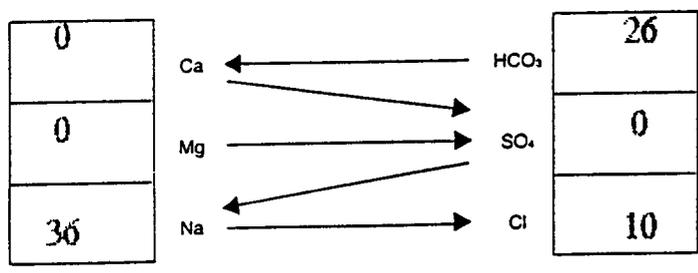
Company CHANDLER AND ASSOCIATES Address _____ Date 03-23-99
Source GLEN BENCH INLET Date Sampled 03-23-99 Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>8.0</u>		
2. H ₂ S (Qualitative)	<u>33</u>		
3. Specific Gravity	<u>1.002</u>		
4. Dissolved Solids		<u>2,769</u>	
5. Alkalinity (CaCO ₃)		<u>0</u>	÷ 30 <u>0</u> CO ₃
6. Bicarbonate (HCO ₃)		<u>1,600</u>	÷ 61 <u>26</u> HCO ₃
7. Hydroxyl (OH)		<u>0</u>	÷ 17 <u>0</u> OH
8. Chlorides (Cl)		<u>350</u>	÷ 35.5 <u>10</u> Cl
9. Sulfates (SO ₄)		<u>0</u>	÷ 48 <u>0</u> SO ₄
10. Calcium (Ca)		<u>8</u>	÷ 20 <u>0</u> Ca
11. Magnesium (Mg)		<u>0</u>	÷ 12.2 <u>0</u> Mg
12. Total Hardness (CaCO ₃)		<u>20</u>	
13. Total Iron (Fe)		<u>0.2</u>	
14. Manganese		<u>0</u>	
15. Phosphate Residuals		<u>48</u>	

injection H₂O

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04				
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00		<u>26</u>		<u>2,184</u>
Na ₂ SO ₄	71.03				
NaCl	58.46		<u>10</u>		<u>585</u>

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

REMARKS _____

UNICHEM

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Roosevelt, Utah 84066

Office (435) 722-5066
Fax (435) 722-5727

WATER ANALYSIS REPORT

Company CHANDLER AND ASSOCIATES Address _____ Date 01-27-99

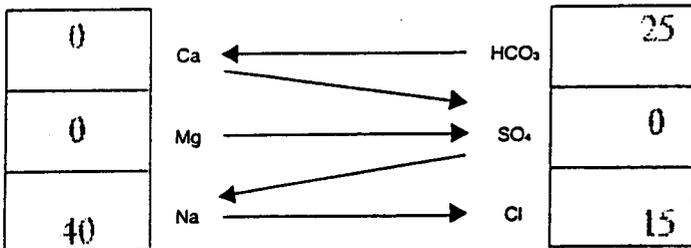
Source GOING INTO TANKS AT GBWE Date Sampled _____ Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>8.8</u>		
2. H ₂ S (Qualitative)	<u>24</u>		
3. Specific Gravity	<u>1.002</u>		
4. Dissolved Solids		<u>2,977</u>	
5. Alkalinity (CaCO ₃)	CO ₃	<u>0</u>	÷ 30 <u>0</u> CO ₃
6. Bicarbonate (HCO ₃)	HCO ₃	<u>1,500</u>	÷ 61 <u>25</u> HCO ₃
7. Hydroxyl (OH)	OH	<u>0</u>	÷ 17 <u>0</u> OH
8. Chlorides (Cl)	Cl	<u>530</u>	÷ 35.5 <u>15</u> Cl
9. Sulfates (SO ₄)	SO ₄	<u>15</u>	÷ 48 <u>0</u> SO ₄
10. Calcium (Ca)	Ca	<u>4</u>	÷ 20 <u>0</u> Ca
11. Magnesium (Mg)	Mg	<u>0</u>	÷ 12.2 <u>0</u> Mg
12. Total Hardness (CaCO ₃)		<u>15</u>	
13. Total Iron (Fe)		<u>0.4</u>	
14. Manganese		<u>0</u>	
15. Phosphate Residuals			

Injection H₂O

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04				
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00		<u>25</u>		<u>2,100</u>
Na ₂ SO ₄	71.03				
NaCl	58.46		<u>15</u>		<u>877</u>

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

REMARKS _____

UNICHEM

A Division of BJ Services

P.O. Box 217
Roosevelt, Utah 84066

Office (435) 722-5066
Fax (435) 722-5727

WATER ANALYSIS REPORT

Company CHANDLER AND ASSOCIATES Address _____ Date 01-27-99
Source GBWF Date Sampled _____ Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>8.8</u>		
2. H ₂ S (Qualitative)	<u>30</u>		
3. Specific Gravity	<u>1.002</u>		
4. Dissolved Solids		<u>2,349</u>	
5. Alkalinity (CaCO ₃)		<u>0</u>	÷ 30 <u>0</u> CO ₃
6. Bicarbonate (HCO ₃)		<u>1,300</u>	÷ 61 <u>21</u> HCO ₃
7. Hydroxyl (OH)		<u>0</u>	÷ 17 <u>0</u> OH
8. Chlorides (Cl)		<u>350</u>	÷ 35.5 <u>10</u> Cl
9. Sulfates (SO ₄)		<u>0</u>	÷ 48 <u>0</u> SO ₄
10. Calcium (Ca)		<u>4</u>	÷ 20 <u>0</u> Ca
11. Magnesium (Mg)		<u>2</u>	÷ 12.2 <u>0</u> Mg
12. Total Hardness (CaCO ₃)		<u>20</u>	
13. Total Iron (Fe)		<u>0.5</u>	
14. Manganese		<u>0</u>	
15. Phosphate Residuals			

injection H₂O

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04				
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00		<u>21</u>		<u>1,764</u>
Na ₂ SO ₄	71.03				
NaCl	58.46		<u>10</u>		<u>585</u>

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

REMARKS _____

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Roosevelt, Utah 84066

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WATER ANALYSIS REPORT

Company CHANDLER AND ASSOCIATES Address _____ Date 10-21-98

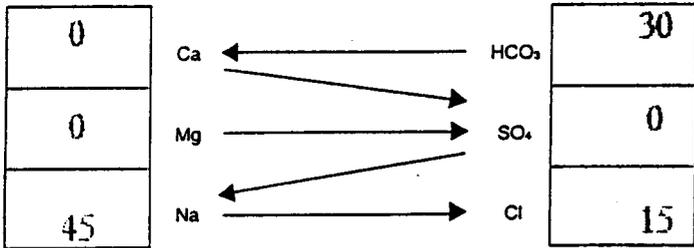
Source GBWF Date Sampled _____ Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>8.0</u>		
2. H ₂ S (Qualitative)	<u>20</u>		
3. Specific Gravity	<u>1.003</u>		
4. Dissolved Solids		<u>3,397</u>	
5. Alkalinity (CaCO ₃)	CO ₃	<u>0</u>	÷ 30 <u>0</u> CO ₃
6. Bicarbonate (HCO ₃)	HCO ₃	<u>1,800</u>	÷ 61 <u>30</u> HCO ₃
7. Hydroxyl (OH)	OH	<u>0</u>	÷ 17 <u>0</u> OH
8. Chlorides (Cl)	Cl	<u>530</u>	÷ 35.5 <u>15</u> Cl
9. Sulfates (SO ₄)	SO ₄	<u>0</u>	÷ 48 <u>0</u> SO ₄
10. Calcium (Ca)	Ca	<u>8</u>	÷ 20 <u>0</u> Ca
11. Magnesium (Mg)	Mg	<u>2</u>	÷ 12.2 <u>0</u> Mg
12. Total Hardness (CaCO ₃)		<u>30</u>	
13. Total Iron (Fe)		<u>0.6</u>	
14. Manganese		<u>0</u>	
15. Phosphate Residuals		<u>47</u>	

injection H₂O

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04				
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00		<u>30</u>		<u>2,520</u>
Na ₂ SO ₄	71.03				
NaCl	58.46		<u>15</u>		<u>877</u>

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

REMARKS _____

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WATER ANALYSIS REPORT

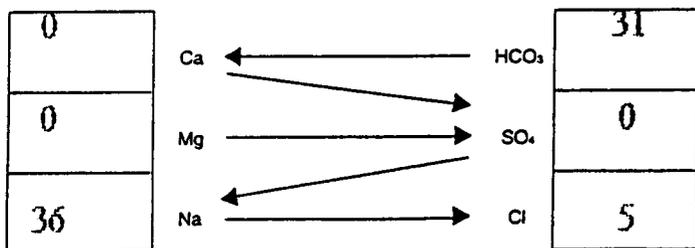
Company CHANDLER AND ASSOCIATES Address _____ Date 06-01-98
Source GBWF Date Sampled 05-29-98 Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	8.2		
2. H ₂ S (Qualitative)	26		
3. Specific Gravity	1.002		
4. Dissolved Solids		2,896	
5. Alkalinity (CaCO ₃)		240	÷ 30 = 8
6. Bicarbonate (HCO ₃)		1,400	÷ 61 = 23
7. Hydroxyl (OH)		0	÷ 17 = 0
8. Chlorides (Cl)		170	÷ 35.5 = 5
9. Sulfates (SO ₄)		0	÷ 48 = 0
10. Calcium (Ca)		8	÷ 20 = 0
11. Magnesium (Mg)		2	÷ 12.2 = 0
12. Total Hardness (CaCO ₃)		30	
13. Total Iron (Fe)		0.4	
14. Manganese			
15. Phosphate Residuals		11	

Injection H₂O

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04				
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00	31			2,604
Na ₂ SO ₄	71.03				
NaCl	58.46	5			292

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

REMARKS _____

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WATER ANALYSIS REPORT

Company CHANDLER AND ASSOCIATES Address _____ Date 07-09-97

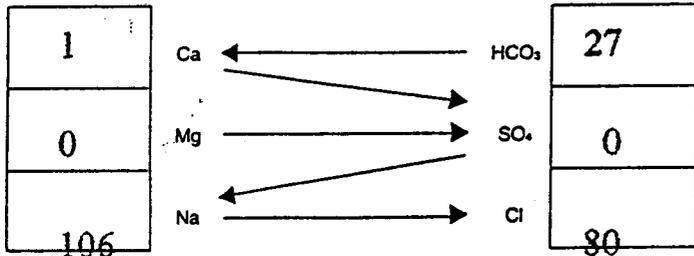
Source WR 6-16 Date Sampled 07-08-97 Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>8.7</u>		
2. H ₂ S (Qualitative)	<u>23.</u>		
3. Specific Gravity	<u>1.004</u>		
4. Dissolved Solids		<u>6,942</u>	
5. Alkalinity (CaCO ₃)		CO ₃ <u>60</u>	÷ 30 <u>2</u> CO ₃
6. Bicarbonate (HCO ₃)		HCO ₃ <u>1,500</u>	÷ 61 <u>25</u> HCO ₃
7. Hydroxyl (OH)		OH <u>0</u>	÷ 17 <u>0</u> OH
8. Chlorides (Cl)		Cl <u>2,800</u>	÷ 35.5 <u>80</u> Cl
9. Sulfates (SO ₄)		SO ₄ <u>0</u>	÷ 48 <u>0</u> SO ₄
10. Calcium (Ca)		Ca <u>16</u>	÷ 20 <u>1</u> Ca
11. Magnesium (Mg)		Mg <u>0</u>	÷ 12.2 <u>0</u> Mg
12. Total Hardness (CaCO ₃)		<u>40</u>	
13. Total Iron (Fe)		<u>1.0</u>	
14. Manganese			
15. Phosphate Residuals			

Injection H₂O

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04		<u>1</u>		<u>81</u>
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00		<u>26</u>		<u>2,184</u>
Na ₂ SO ₄	71.03				
NaCl	58.46		<u>80</u>		<u>4,677</u>

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

REMARKS _____

WATER ANALYSIS REPORT

Company CHANDLER AND ASSOCIATES Address _____ Date 02-27-97

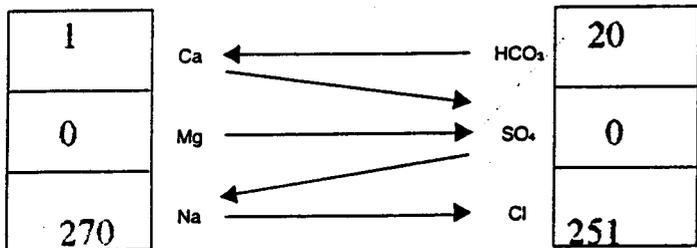
Source 6-16 Date Sampled 02-16-97 Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>9.2</u>		
2. H ₂ S (Qualitative)	<u>0.5</u>		
3. Specific Gravity	<u>1.008</u>		
4. Dissolved Solids		<u>16.351</u>	
5. Alkalinity (CaCO ₃)		<u>20</u>	
6. Bicarbonate (HCO ₃)		<u>1.200</u>	÷ 61 <u>20</u> HCO ₃
7. Chlorides (Cl)		<u>8,900</u>	÷ 35.5 <u>251</u> Cl
8. Sulfates (SO ₄)		<u>0</u>	÷ 48 <u>0</u> SO ₄
9. Calcium (Ca)		<u>16</u>	÷ 20 <u>1</u> Ca
10. Magnesium (Mg)		<u>0</u>	÷ 12.2 <u>0</u> Mg
11. Total Hardness (CaCO ₃)		<u>40</u>	
12. Total Iron (Fe)		<u>1.2</u>	
13. Manganese			
14. Barium (Qualitative)			
15. Phosphate Residuals			

Water analysis of proposed hydraulic zone shows subsequent reduction in TDS over time w/ subsequent reports

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equlv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04	<u>1</u>			<u>81</u>
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00		<u>19</u>		<u>1,596</u>
Na ₂ SO ₄	71.03				
NaCl	58.46		<u>251</u>		<u>14,674</u>

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

REMARKS _____

WATER ANALYSIS REPORT

Company CHANDLER AND ASSOCIATES Address _____ Date 02-27-97

Source G.B. 6-16 Date Sampled 02-26-97 Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>9.2</u>		
2. H ₂ S (Qualitative)	<u>7.0</u>		
3. Specific Gravity	<u>1.003</u>		
4. Dissolved Solids		<u>13,278</u>	
5. Alkalinity (CaCO ₃)		<u>100</u>	
6. Bicarbonate (HCO ₃)		<u>1,250</u>	÷ 61 <u>21</u> HCO ₃
7. Chlorides (Cl)		<u>7,000</u>	÷ 35.5 <u>197</u> Cl
8. Sulfates (SO ₄)		<u>0</u>	÷ 48 <u>0</u> SO ₄
9. Calcium (Ca)		<u>16</u>	÷ 20 <u>1</u> Ca
10. Magnesium (Mg)		<u>0</u>	÷ 12.2 <u>0</u> Mg
11. Total Hardness (CaCO ₃)		<u>40</u>	
12. Total Iron (Fe)		<u>0.6</u>	
13. Manganese			
14. Barium (Qualitative)			
15. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04	<u>1</u>			<u>81</u>
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00	<u>20</u>			<u>1,680</u>
Na ₂ SO ₄	71.03				
NaCl	58.46	<u>197</u>			<u>11,517</u>

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

REMARKS _____

UNICHEM

A Division of BJ Services

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Roosevelt, Utah 84066

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WATER ANALYSIS REPORT

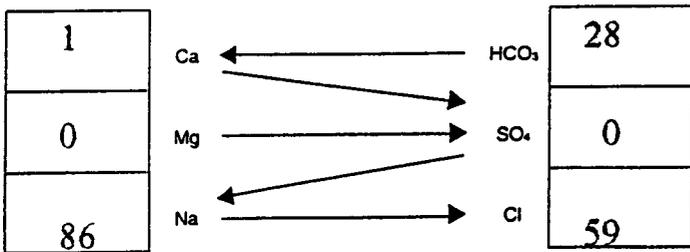
Company CHANDLER AND ASSOCIATES Address _____ Date 11-19-97

Source 6-16 Date Sampled 11-18-97 Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>8.7</u>		
2. H ₂ S (Qualitative)	<u>18</u>		
3. Specific Gravity	<u>1.006</u>		
4. Dissolved Solids		<u>5,798</u>	
5. Alkalinity (CaCO ₃)	CO ₃	<u>180</u>	÷ 30 <u>6</u> CO ₃
6. Bicarbonate (HCO ₃)	HCO ₃	<u>1,350</u>	÷ 61 <u>22</u> HCO ₃
7. Hydroxyl (OH)	OH	<u>0</u>	÷ 17 <u>0</u> OH
8. Chlorides (Cl)	Cl	<u>2,100</u>	÷ 35.5 <u>59</u> Cl
9. Sulfates (SO ₄)	SO ₄	<u>0</u>	÷ 48 <u>0</u> SO ₄
10. Calcium (Ca)	Ca	<u>12</u>	÷ 20 <u>1</u> Ca
11. Magnesium (Mg)	MG	<u>1</u>	÷ 12.2 <u>0</u> Mg
12. Total Hardness (CaCO ₃)		<u>35</u>	
13. Total Iron (Fe)		<u>0.7</u>	
14. Manganese			
15. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Eqiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04	<u>1</u>			<u>81</u>
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00		<u>27</u>		<u>2,268</u>
Na ₂ SO ₄	71.03				
NaCl	58.46		<u>59</u>		<u>3,449</u>

Saturation Values Distilled Water 20°C

CaCO ₃	13 Mg/l
CaSO ₄ · 2H ₂ O	2,090 Mg/l
MgCO ₃	103 Mg/l

REMARKS _____

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WATER ANALYSIS REPORT

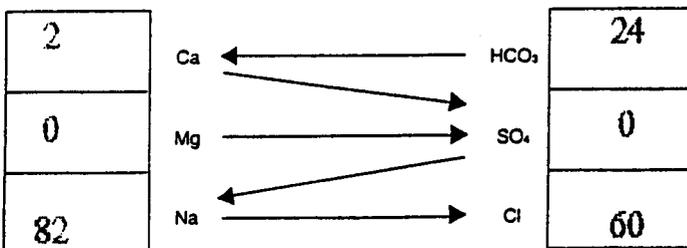
Company CHANDLER AND ASSOCIATES Address _____ Date 07-02-98

Source 6-16 Date Sampled _____ Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	9.2		
2. H ₂ S (Qualitative)	15		
3. Specific Gravity	1.004		
4. Dissolved Solids		5,518	
5. Alkalinity (CaCO ₃)		CO ₃ 120	÷ 30 4 CO ₃
6. Bicarbonate (HCO ₃)		HCO ₃ 1,200	÷ 61 20 HCO ₃
7. Hydroxyl (OH)		OH 0	÷ 17 0 OH
8. Chlorides (Cl)		Cl 2,100	÷ 35.5 60 Cl
9. Sulfates (SO ₄)		SO ₄ 0	÷ 48 0 SO ₄
10. Calcium (Ca)		Ca 40	÷ 20 2 Ca
11. Magnesium (Mg)		MG 0	÷ 12.2 0 Mg
12. Total Hardness (CaCO ₃)		100	
13. Total Iron (Fe)		60	
14. Manganese			
15. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equly. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04	2			162
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00	22			1,848
Na ₂ SO ₄	71.03				
NaCl	58.46	60			3,508

Saturation Values

CaCO₃

CaSO₄ · 2H₂O

MgCO₃

Distilled Water 20°C

13 Mg/l

2,090 Mg/l

103 Mg/l

REMARKS _____

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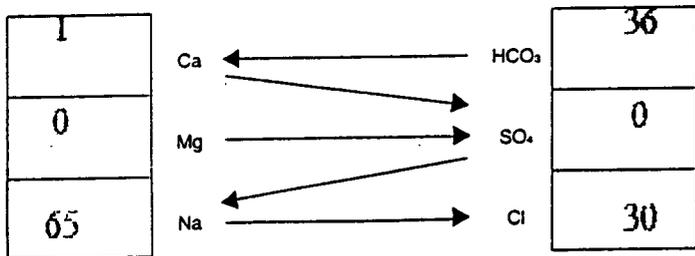
WATER ANALYSIS REPORT

Company CHANDLER AND ASSOCIATES Address _____ Date 04-05-99
Source 6-16 Glen Beach Date Sampled _____ Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>8.8</u>		
2. H ₂ S (Qualitative)	<u>43</u>		
3. Specific Gravity	<u>1.005</u>		
4. Dissolved Solids		<u>4,775</u>	
5. Alkalinity (CaCO ₃)	CO ₃	<u>0</u>	÷ 30 <u>0</u> CO ₃
6. Bicarbonate (HCO ₃)	HCO ₃	<u>2,200</u>	÷ 61 <u>36</u> HCO ₃
7. Hydroxyl (OH)	OH	<u>0</u>	÷ 17 <u>0</u> OH
8. Chlorides (Cl)	Cl	<u>1,050</u>	÷ 35.5 <u>30</u> Cl
9. Sulfates (SO ₄)	SO ₄	<u>0</u>	÷ 48 <u>0</u> SO ₄
10. Calcium (Ca)	Ca	<u>10</u>	÷ 20 <u>1</u> Ca
11. Magnesium (Mg)	MG	<u>3</u>	÷ 12.2 <u>0</u> Mg
12. Total Hardness (CaCO ₃)		<u>40</u>	
13. Total Iron (Fe)		<u>0.3</u>	
14. Manganese			
15. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04	<u>1</u>			<u>81</u>
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00	<u>35</u>			<u>2,940</u>
Na ₂ SO ₄	71.03				
NaCl	58.46	<u>30</u>			<u>1,754</u>

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

REMARKS _____

Chandler and Associates, Inc.

**Glen Bench State #6-16
SE NW Sec. 16 T8S R22E
Uinta County, Utah**

Precision Core Analysis

The analyses, interpretations, and/or opinions expressed in this report represent the best judgment of Precision Core Analysis, Inc. Precision Core Analysis, Inc. assumes no responsibility and makes no expressed warranties of any kind regarding the productivity, proper operation, or profitability of any action taken upon which this information is used or relied upon.

Precision Core Analysis, Inc.

Chandler and Associates, Inc.
 Glen Bench State #6-16
 SE NW Sec. 16 T8S R22E
 Uinta County, Utah

Job: 9463
 Date: 09-Dec-94

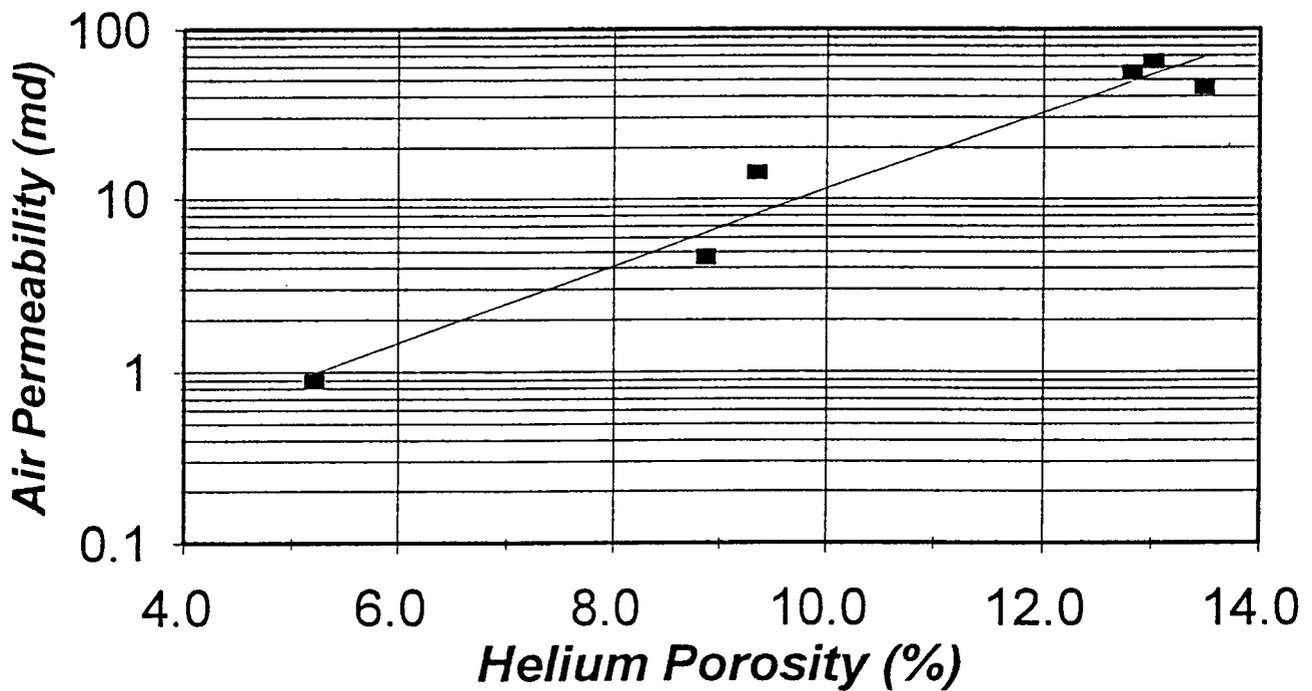
Reference Number	Depth (ft)	Perm Air (md)	Perm Klink (md)	Helium Porosity (%)	Saturations Water (%)	Saturations Oil (%)	Grain Density (g/cc)	Sample Description
<i>Core No. 1 Green River Fm. 5100.0'-5150.0' Rec. 50.0'/50.0'</i>								
1	5113.8	14.2	11.5	9.3	18.6	9.3	2.68	Sst lt gry vf gr calc
2	5114.7	55.2	46.9	12.8	25.3	12.7	2.68	Sst lt gry vf gr calc
3	5115.8	45.1	38.0	13.5	22.4	11.2	2.67	Sst lt gry vf gr calc
4	5116.3	63.8	54.7	13.0	23.5	11.7	2.68	Sst lt gry vf-f gr sl calc
5	5117.5	4.62	3.69	8.9	27.1	8.5	2.69	Sst lt gry f gr sl calc lam
6	5118.1	0.875	0.664	5.2	40.7	10.2	2.67	Sst lt gry f gr sl calc lam

Precision Core Analysis, Inc.

Chandler and Associates, Inc.
Glen Bench State #6-16
SE NW Sec. 16 T8S R22E
Uinta County, Utah

Job: 9463
Date: 09-Dec-94

Air Permeability vs Helium Porosity

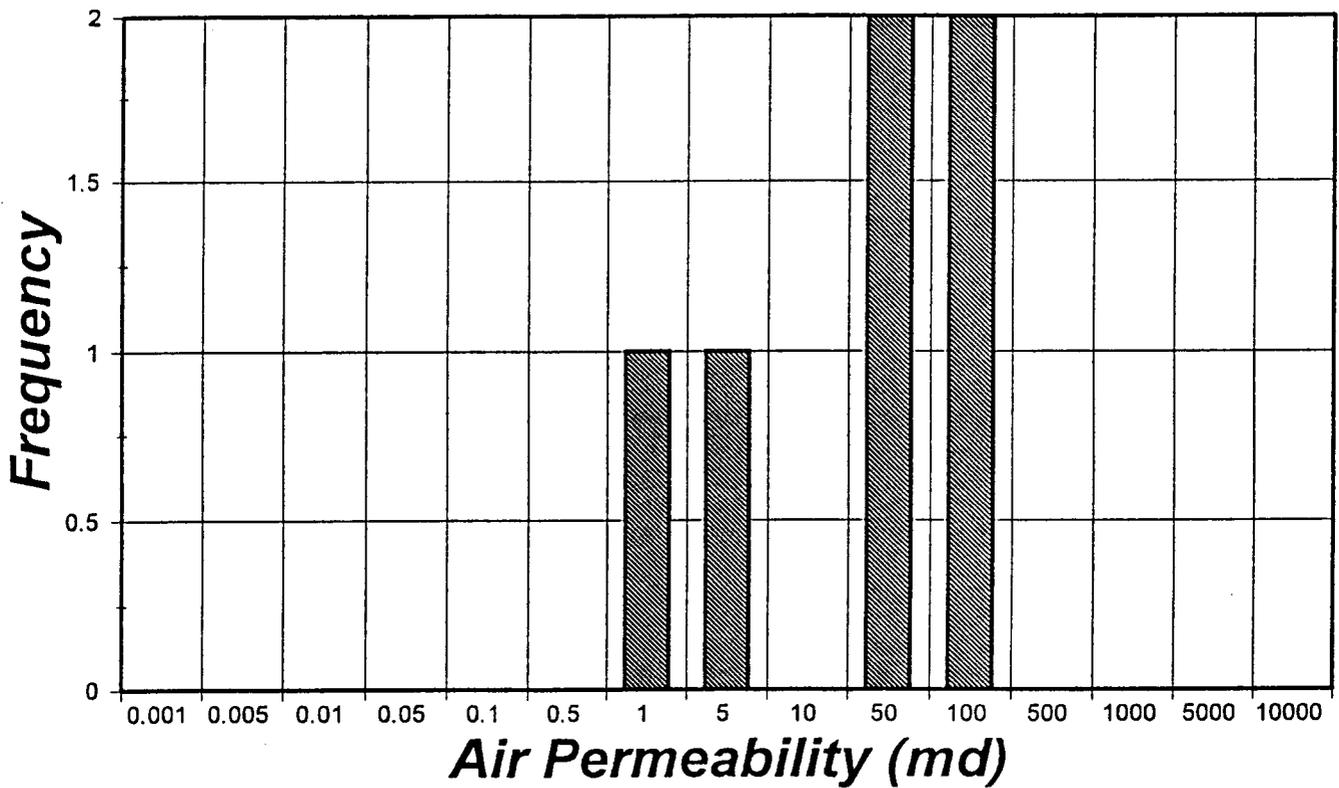


Precision Core Analysis, Inc.

Chandler and Associates, Inc.
Glen Bench State #6-16
SE NW Sec. 16 T8S R22E
Uinta County, Utah

Job: 9463
Date: 09-Dec-94

Air Permeability Frequency Distribution

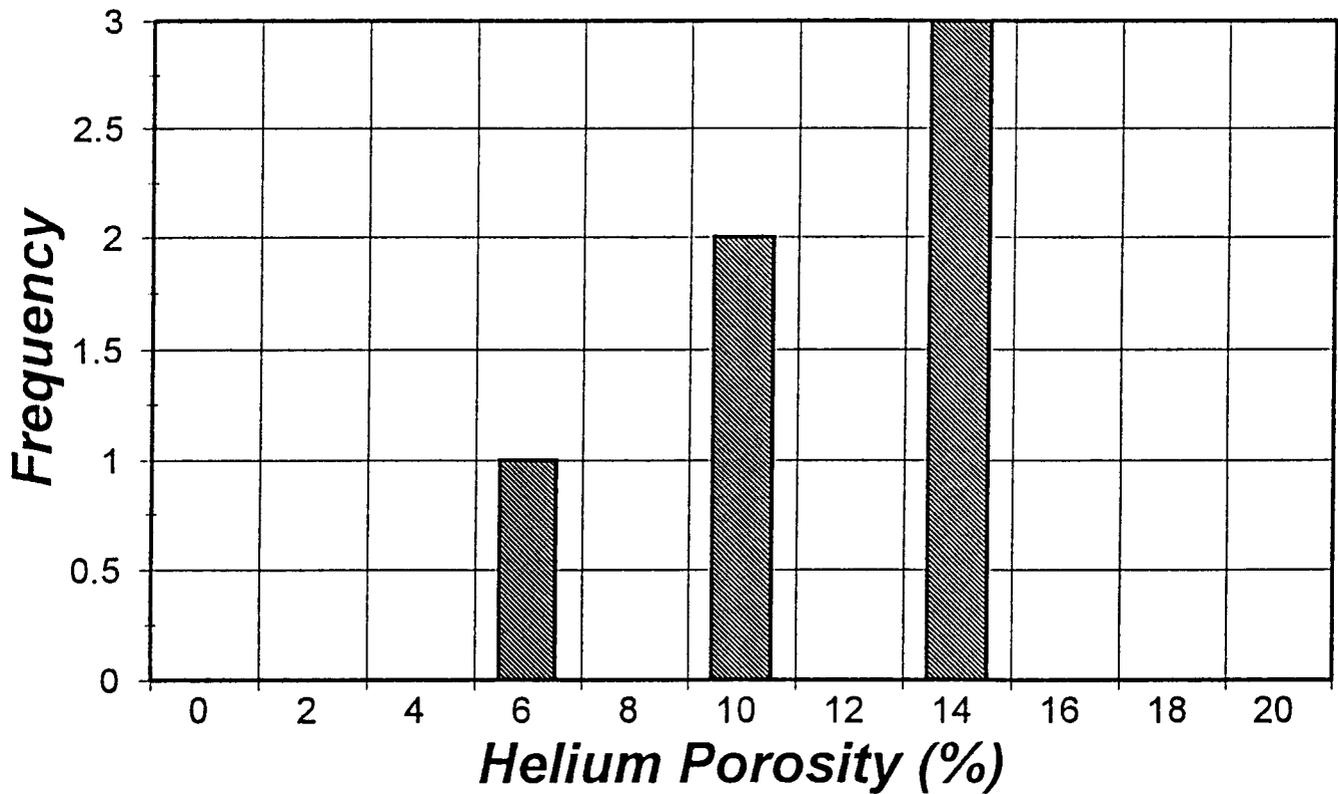


Precision Core Analysis, Inc.

Chandler and Associates, Inc.
Glen Bench State #6-16
SE NW Sec. 16 T8S R22E
Uinta County, Utah

Job: 9463
Date: 09-Dec-94

Helium Porosity Frequency Distribution



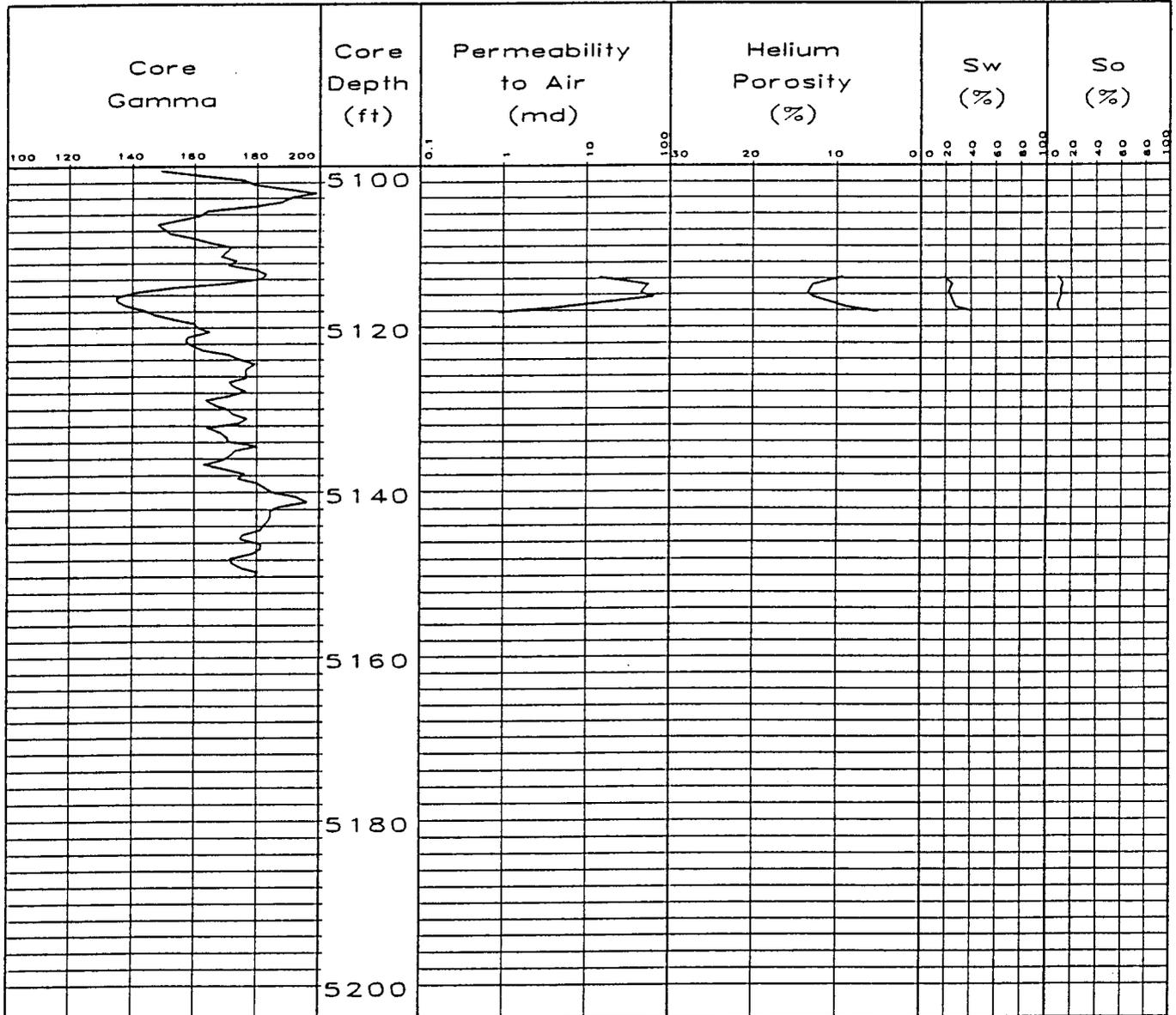
Precision Core Analysis, Inc.

Chandler and Associates, Inc.
 Glen Bench State #6-16
 SE NW Sec. 16 T8S R22E
 Uinta County, Utah

Job: 9463
 Date: 09-Dec-94

PETRO-LOG

Scale 1:240



Precision Core Analysis, Inc.

Chandler and Associates, Inc.
Glen Bench State #6-16
SE NW Sec. 16 T8S R22E
Uinta County, Utah

Job: 9463
Date: 09-Dec-94

Zone	Permeability (md)*			Porosity (%)**		
	Median	Arith. Mean	Geom. Mean	Median	Arith. Mean	Geom. Mean
Zone1	29.663	30.649	14.460	11.081	10.457	9.953

* Values above 0.00 md

** Values above 0.00 %

Precision Core Analysis, Inc.

Chandler and Associates, Inc.
Glen Bench State #6-16
SE NW Sec. 16 T8S R22E
Uinta County, Utah

Job: 9463
Date: 09-Dec-94

Zone1 Air Permeability Regression

Regression Output:

Constant	-1.169566
Std Err of Y Est	0.175112
R Squared	0.955054
No. of Observations	6.000000
Degrees of Freedom	4.000000
X Coefficient(s)	0.222783
Std Err of Coef.	0.024165

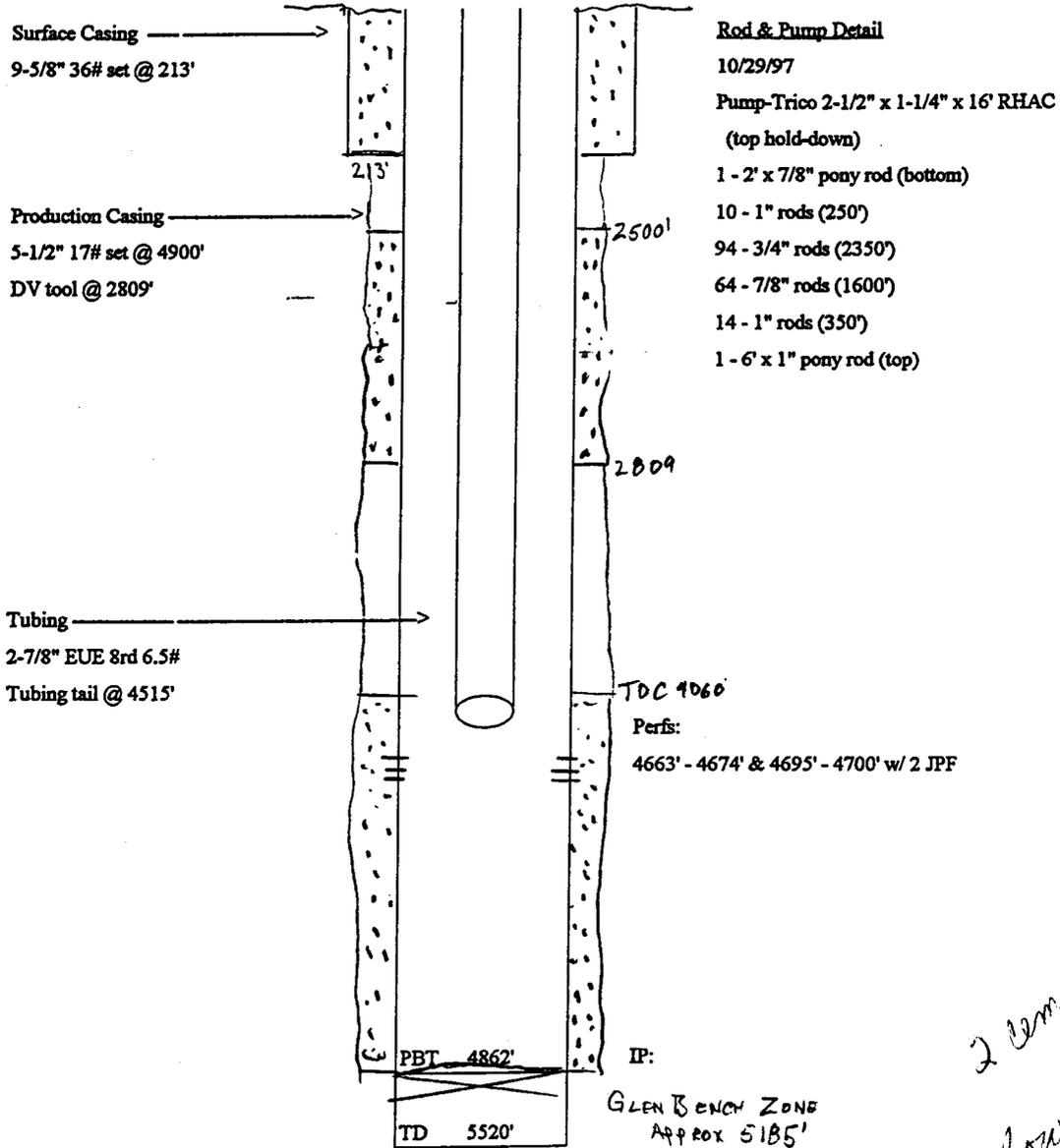
Zone1 Klinkenberg Permeability Regression

Regression Output:

Constant	-1.320647
Std Err of Y Est	0.177417
R Squared	0.956243
No. of Observations	6.000000
Degrees of Freedom	4.000000
X Coefficient(s)	0.228904
Std Err of Coef.	0.024483

Well Name: White River Unit 43-16
 Location: NENW Sec. 16, T8S, R22E
 Field: White River Unit
 Spud Date:
 Completed:

Date: 10/24/97 Pump Change
 County: Uintah
 State: Utah
 KB: 4987
 GL: 4972'



*2 cemented intervals
 lower cement is ok
 -Fiche
 PK*

DSTs:



---ooOoo---

IN THE MATTER OF THE APPLICATION
OF Shenandoah Energy, Inc.

(Operator)

FOR ADMINISTRATIVE APPROVAL OF
THE Glen Bench State #6-16

WELL(s)

LOCATED IN SECTION 16,

TOWNSHIP 8 S or N,

RANGE 22 E or W,

S.L.M. or _____,

Uintah COUNTY, UTAH, AS

A CLASS II INJECTION WELL

NOTICE OF AGENCY
ACTION

CAUSE NO. UIC-252.1

*Notice this permit
AFTER affidavit
rec'd. to effect that they
certify that they are
only operators of surface
in AOR*

---ooOoo---

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

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Shenandoah Energy, Inc. (Operator) for administrative approval of the Glen Bench State #6-16 well, located in Section 16, Township 8 S or N), Range 22 E or W), S.L.M. or _____, Uintah County, Utah, for conversion to a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R.649-10, Administrative Procedures.

The interval from 5106' feet to 5111' feet (Green River Formation) will be selectively perforated for water injection. The maximum requested injection pressure will be limited to 945 PSIG with a maximum rate of _____ BWPD.

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 _____th day of _____, ~~199~~ 2000.

Fax to:

(303) 295-0222

Shenandoah Energy, Inc.

ATTN: Thomas Taylor

From: Chris Kierst

Phone DOGM
(303) 538-5337

Inland Production Company

~~Castle Draw #16-2-9-17~~

Cause No. UIC-~~257~~ 252.1

Publication Notices were sent to the following:

~~Inland Production Company
410 Seventeenth Street, Suite 700
Denver CO 80202~~

*Shenandoah
Energy
@address*

*# 475 17th St #1000
Denver Co 80202-4014*

✓ Vernal Express
PO Box 1000
Vernal, UT 84078-1000
(VIA Fax 435-789-8690)

Salt Lake Tribune
143 South Main
Salt Lake City, UT 84111
(VIA Fax 801-237-2776)

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

~~Inland Production Company
Route 3, Box 3630
Myton, UT 84052~~

Dan Jackson
US EPA Region VIII, Suite 5000
999 18th Street
Denver, CO 80202-2466

Earlene Russell
Secretary
June 1, 2000

R649-5-2. Requirements For Class II Injection Wells Including Water Disposal Storage And Abandoned Recovery Wells.

COMMENTS

1. Injection wells shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.

2. The application for an injection well shall include a properly completed UIC Form 1 and the following:

2.1. A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed well, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.

2.2. Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper, and porosity.

2.3. A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.

2.4. Copies of logs already on file with the division should be referenced, but need not be refiled.

2.5. A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.

2.6. A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.

2.7. Standard laboratory analyses of (1) the fluid to be injected, (2) the fluid in the formation into which the fluid is being injected, and (3) the compatibility of the fluids.

2.8. The proposed average and maximum injection pressures.

2.9. Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.

2.10. Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent; also information relative to geologic structure near the proposed well which may effect the conveyance and/or storage of the injected fluids.

2.11. A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter improper intervals.

2.12. An affidavit certifying that a copy of the application has been provided to all operators, owners, and surface owners within a one-half mile radius of the proposed injection well.

2.13. Any other additional information that the board or division may determine is necessary to adequately review the application.

5106' - 5111' 720 bbl @ 945 psig

OK

Problem - OK 5/30/01 that will be corrected and re-sent. Provided but plotted radius too large and 2 wells are not plotted (of 200M & 15). 2 wells included in radius actually fall out of radius when corrected (if 5/30/01) 3 logs provided (CBL, DI-SFL, GRN)

OK

OK

OK

Problem - No included estimate UIC Form 1 says 720 bbl (per what)

Old test of fresh water is >10,000 Mg/l TDS. Recent tests are within "mod. salinity" (<10,000 TDS). G Injection H₂O is "mod. Saline" (<10,000).

? / 945 psig - what about average inj. pressure?

Step rate test provided & calculation of frac gradient & max. pressure made in Supplement.

Not provided

Need review of 4304730370 (Diagrams) and 4304732857 "E" only reviews casing string of 2 wells, not 5 or 6 or 7

No MIT test results or casing condition info.

No affidavit tendered. - Not needed - they are only operators in area.

ALSO: Are there various owners & surface owners in the BOR? They must be affianced

No WAP provided @ 2/11/01
all text is removed from 7/11/01 cert
of completion OK 2/11/01

average?

OK 2/11/01

Geology

Need strike & dip x-sections - structure contour on near marker to confining layer.

$$[618 - (.43 + (1.005))] 5111 = 929 \text{ psig}$$

16# over calculated maximum

operator requests 945 psig on UIC Form 1
Terry Cox
Supr.

SHENANDOAH ENERGY INC.

475 17TH STREET, SUITE 1000
DENVER, COLORADO 80202
(303) 295-0400
FAX (303) 295-0222
TOLL FREE (800) 234-8680

July 31, 2000

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

RE: Injection Conversion
Glen Bench State # 6-16
SENW Section 16-T8S-R22E
Uintah County, Utah

Dear Madam or Sir;

As per the requirements of the State of Utah, Division of Oil Gas and Mining (R649-5-2.12), enclosed is a complete copy of the application for injection conversion for the subject well. An application to the EPA, UIC Department submitted in February of 2000 pending for the well. The EPA sent a copy of a letter to your office dated May 12, 2000 notifying all interested parties that the application and permit is in the process of review.

If you have any questions or need additional information, I can be reached at the letterhead address or by telephone at (303) 308-3052. Thank you for your time in this matter.

Sincerely,



Scott M. Webb
Regulatory Coordinator

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

ML-22049

6. If Indian, Allottee or Tribe Name

N/A

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

7. If Unit or CA. Agreement Designation

N/A

1. Type of Well

<input checked="" type="checkbox"/> Well	<input type="checkbox"/> Oil Well	<input type="checkbox"/> Gas Well	<input type="checkbox"/> Other
------------------------------------------	-----------------------------------	-----------------------------------	--------------------------------

8. Well Name and No.

White River 45-16

9. API Well No.

43-047-31399

2. Name of Operator

Shenandoah Energy, Inc. (formerly Chandler & Associates, LLC)

3. Address and Telephone No.

475 17th St., Ste. 1000, Denver, CO 80202

Western District - 970-675-8451

10. Field and Pool, or Exploratory Area

11. County or Parish, State

Uintah County, Utah

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

509' FNL, 647' FSL, NENE Sec. 16, T8S, R22E

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

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

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

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

This well was recently recompleted per the attached report in order to test the Glen Bench sand. The previous completion in the White River sand was isolated by RBP. The Glen Bench sand is currently being tested and upon evaluation a request to co-mingle the two zones will be forthcoming if warranted by production results.

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

Signed

Jim Simonton

Title **Operations/Production Supervisor**

Date **01/12/2000**

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

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

***See Instructions on Reverse Side**

other in-
structions on
reverse side)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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

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, WELL NO.
White River 45-16

2. NAME OF OPERATOR
Shenandoah Energy, Inc. (formerly Chandler & Associates, LLC)

9. API WELL NO.
43-047-31399

3. ADDRESS AND TELEPHONE NO.
475 17th Street, Suite 1000, Denver, Colorado 80202 Western District - 970-675-8451

10. FIELD AND POOL OR WILDCAT
White River

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)*
 At Surface **509' FNL, 647' FSL, NENE**
 At top prod. Interval reported below **Same**
 At total depth **Same**

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 16, T8S, R22E

14. PERMIT NO. **43-047-31399** DATE ISSUED **10-20-83** 12. COUNTY OR PARISH **Uintah** 13. STATE **Utah**

15. DATE SP/IDDED **10-17-84** 16. DATE T.D. REACHED **11-4-84** 17. DATE COMPL. (Ready to prod.) **1-5-2000** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* **4908' GR, 4920' KB** 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD **5525'** MD **5463'** TVD 21. PLUG, BACK T.D., MD & TVD TD **5463'** MD TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY **ROTARY TOOLS** CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)*
Glen Bench - 5094' - 5100' 25. WAS DIRECTIONAL SURVEY MADE **No**

26. TYPE ELECTRIC AND OTHER LOGS RUN **None** 27. WAS WELL CORED **No**

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

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36#	195'	12-1/4"	200 sks Class G	None
5-1/2"	17#	5518'	7-7/8"	500 sks 50/50 Poz-mix	None

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
N/A					2-7/8"	5138'	

31. PERFORMANCE RECORD (Interval, size and number)

INTERVAL	SIZE	NUMBER
5094' - 5100'	23 gm	24

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5094' - 5100'	500 gals. 7-1/2% HCl & 2% xylene
5094' - 5100'	30,000# 20/40

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)	WELL STATUS (Producing or shut-in)
1-5-2000	Pumping	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PRODN. FOR TEST PERIOD	OIL--BBL.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO
1-10-2000	24			95	0	8	

FLOW TUBING PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL--BBL.	GAS--MCF.	WATER--BBL.	OIL GRAVITY-API (CORR.)
N/A	30#		95	0	8	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY **Jim Simonton**

35. LIST OF ATTACHMENTS
Wellbore Profile

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
 SIGNED Jim Simonton TITLE **Operations/Production Supervisor** DATE **1-9-2000**

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

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

3. LEASE DESIGNATION AND SERIAL NO.

MI 22049

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

5. FARM OR LEASE NAME

WHITE RIVER

9. WELL NO.

43-16

10. FIELD AND POOL, OR WILDCAT

WR - Green River Oil

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

SEC 16, T8S, R22E

12. COUNTY OR PARISH

UINTAH

13. STATE

UTAH

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

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

2. NAME OF OPERATOR
BELCO DEVELOPMENT CORPORATION

3. ADDRESS OF OPERATOR
P.O. BOX X, VERNAL, UTAH 84078

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 630' FNL & 1856' FWL NE/NW
At top prod. interval reported below Same
At total depth Same

14. PERMIT NO. 43-047-31354 DATE ISSUED 7-7-83

15. DATE SPUNDED 8-4-83 DRY 16. DATE T.D. REACHED 8-20-83 17. DATE COMPL. (Ready to prod.) 9-23-83 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 4972' NAT GL 19. ELEV. CASINGHEAD 4987' KB

20. TOTAL DEPTH, MD & TVD 5520' 21. PLUG, BACK T.D., MD & TVD 4862' 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY ALL 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4663-74' & 4695-4700', Green river H-zone 25. WAS DIRECTIONAL SURVEY MADE NO

26. TYPE ELECTRIC AND OTHER LOGS RUN DIFL (5500-222'); CNL-FDC(5500-4000'); MLL (5500-4000'), GR CCL CBL 27. WAS WELL CORED NO

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	36.0#	211.0'	12 1/4"	200 sx class "G"	None
5 1/2"	17.0#	4900.0' KB	8 3/4"	950 sk 50-50 poz-mix	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
N/A				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"	4515.00'	N/A

31. PERFORATION RECORD (Interval, size and number)

4663-4674'	
4695-4700'	2 JSPF

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4663-74' & 4695-4700'	Acidize w/1000 gals 15% HCL
Green River H	Frac: 27,890 gals fluid, 24,170 gals treated fluid & 64,000# 20/40 sand

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
9-26-83	PUMPING	PRODUCING

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9-30-83	24	N/A	→	80	0	15	

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
50	60	→	80	0		28.1 @ 60°

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY R. L. Schatz

35. LIST OF ATTACHMENTS
CBL LOG

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED Lathy Kautson TITLE ENGINEERING CLERK DATE 9-30-83

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

INSTRUCTIONS

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

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

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

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in Item 22, and in Item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in Item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for Items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38.

GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TOP
Uinta Green River	-Surface 2200'	

8407
(801) 7

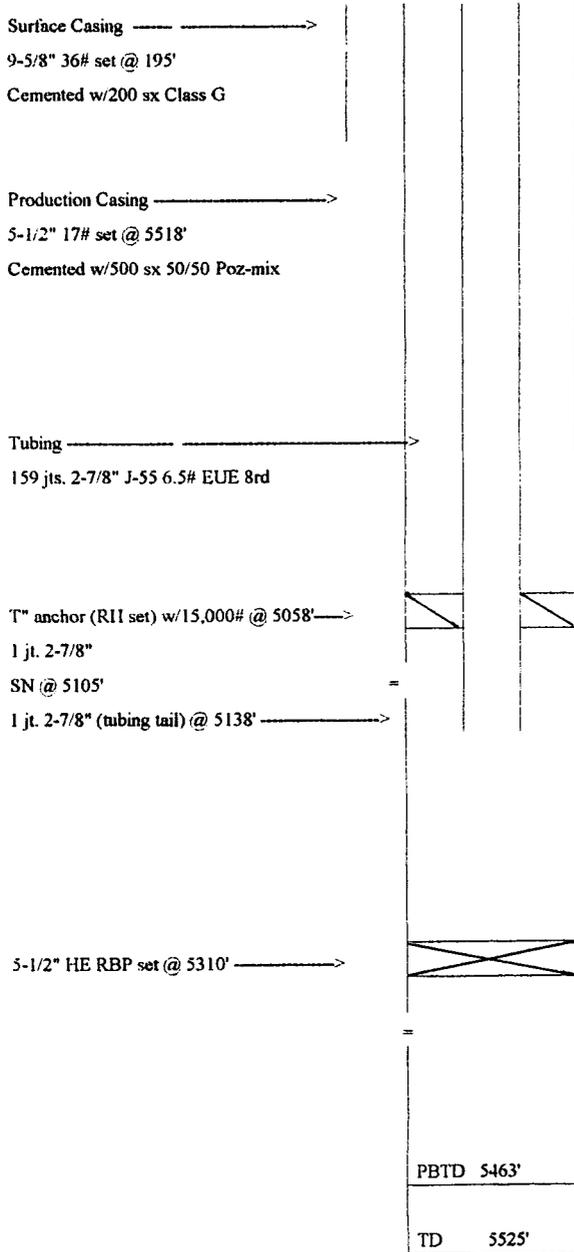
Selco Develop

Shenandoah Energy, Inc.
Western District - Rangely, Colorado

Attachment J

Well Name: **White River Unit 45-16**
 Location: **NENE Sec. 16, T8S, R22E**
 Field: **White River Unit**
 Spud Date: **10-17-84**
 Completed: **11-29-84**

Date: **1-5-2000**
 County: **Uintah**
 State: **Utah**
 Elev.-KB: **4920' (12')**
 Elev.-GR: **4908'**



Rod & Pump Detail: (top to bottom)

- 1-1/4" x 22' polish rod w/1-12" x 12' liner
- 1 ea. 4', 6' & 8' pony rod
- 36 - 1" rods
- 53 - 7/8" rods
- 103 - 3/4" rods
- 10 - 1" pony rods
- Pump: Rebuilt 2-1/2" x 1-3/4" x 16' RHAC

Perfs: **Glen Bench**
 5094' - 5100' w/4 jpf (24 holes)
 Acid: 500 gals. 7-1/2% HCl + 2% xylene
 Frac: 30,000# 20/40

Perfs: **Green River**
 5350' - 5365' w/2 JPF (30 holes)
 Treat w/ 19,800 gals. 15% CRA w/ inhibitor
 & 5000 gals x-linked gelled water

IP: 28 BOPD, 14 MCFD (12-84)

Green Cement in Prod. Log is OK - Fische

Note: On 2-20-98, changed pump & 4 jts of tubing (1 split). Well had quit pumping. NC packed w/scale. Changed anchor from B-2 to "T".

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. REVR. Other _____

2. NAME OF OPERATOR
Chandler & Associates, Inc.

3. ADDRESS OF OPERATOR
475 17th ST, ste. 1000 Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface **(2400' FNL & 400' FEL) SENE**
At top prod. interval reported below
Same
At total depth
Same

14. PERMIT NO. **43-047-32718** | DATE ISSUED **08-14-95**

5. LEASE DESIGNATION AND SERIAL NO.
Federal U-65267

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NA

7. UNIT AGREEMENT NAME
Glen Bench Unit

8. FARM OR LEASE NAME
Glen Bench Unit

9. WELL NO.
8-17

10. FIELD AND POOL, OR WILDCAT
Glen Bench

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Section 17-T85-R22E

12. COUNTY OR PARISH
Uintah | 13. STATE
Utah

15. DATE SPUDDED **08-31-95** | 16. DATE T.D. REACHED **09-08-95** | 17. DATE COMPL. (Ready to prod.) **NA** | 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* **4964' GL 4975' KB** | 19. ELEV. CASINGHEAD **-----**

20. TOTAL DEPTH, MD & TVD **5550'** | 21. PLUG, BACK T.D., MD & TVD **NA** | 22. IF MULTIPLE COMPL., HOW MANY* **NA** | 23. INTERVALS DRILLED BY **0-TD** | ROTARY TOOLS **0-TD** | CABLE TOOLS **-----**

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

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

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24	312	12 1/4	230 SX. Class 'G'	-----

29. LINER RECORD | 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number) | 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION

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

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

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) _____ | TEST WITNESSED BY _____

35. LIST OF ATTACHMENTS
Logs

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

SIGNED *D.M. Johnson* | TITLE **Vice Pres. of Operations** | DATE **09-12-95**
D.M. Johnson
*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 16 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Attachment J

McCabe
10/15/95



THE WESTERN COMPANY
CEMENT JOB DETAIL SHEET

CUSTOMER CHANDLER + ASSOC		DATE 9-1-95	F.R.# 363281	SER. SUP. SCOTT SLAUGH	TYPE JOB D4A								
LEASE & WELL NAME-OCSSG GLEN FLEMING UNIT #8-17		LOCATION SEC 17 T8S R22E		COUNTY-PARISH-BLOCK LINTAH									
DISTRICT VERNAL UT		DRILLING CONTRACTOR/RIG # CHANDLER #7		OPERATOR CHANDLER #7									
MATERIAL FURNISHED BY WPS	TYPE OF PLUGS		LIST-CSG-HARDWARE		SO MANI FOLD Y N	TOP OF EACH FLUID	PHYSICAL SLURRY PROPERTIES						
	TOP BTM						SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER	
	—		—				15.6	1.19	4.96	250	10.6	5.9	
50 SKS PREMIUM "1" CEMENT + 2% COLL ² + 1/2 ¹⁶ 15K CELLO SEAL													
63 SK AMMIA "6" CEMENT + 2% COLL ²							—	15.6	1.19	4.98	250	13.35	7.44
30 SKS PREMIUM "1" CEMENT + 2% COLL ² + 1/2 ¹⁶ 15K CELLO SEAL							—	15.6	1.19	4.96	250	6.4	3.5
25 SKS PREMIUM 6 CEMENT							54AF	15.6	1.19	4.96	250	5.3	2.95
Available Mix Water 350 Bbl.		Available Displ. Fluid 300 Bbl.		TOTAL		3545/1974							

HOLE			TBG-CSG-D.P.				TBG-CSG-D.P.				COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	SIZE	WGT.	TYPE	DEPTH	SHOE	FLOAT	STAGE
7 7/8	—	5581	4"	14	F.H.	5100	—	—	—	—	—	—	—
LAST CASING			PKR-CMT RET-BR PL-LINER			PERF. DEPTH		TOP CONN		WELL FLUID			
SIZE	WGT	TYPE	DEPTH	BRAND & TYPE		DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.	
8 5/8	24	K55	999	—		—	—	—	4"	F.H.	MUD	8.9	
CAL. DISPL. VOL.-Bbl.			CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		DISPL. FLUID		WATER SOURCE	
TBG	OCSSG	CSG	TOTAL	BUMP PLUG	TO REV	SO. PSI	RATED	OP.	RATED	OP.	TYPE	WGT.	SOURCE
53.3	23.8	2.6	—	—	—	—	10.830	8664	2750	2360	MUD	8.9	RIG

EXPLANATION: TROUBLE SETTING TOOL RUNNING CSG, ETC. PRIOR TO CEMENTING.

PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR: MIN.	PRESSURE-PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: WPS CREW <input type="checkbox"/> CO. REP <input type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES	PSI
11:30	—	—	—	—	H2O	START H2O	(PLUG #1)
11:33	—	—	3.3	10	H2O	END H2O	
11:34	100	—	—	—	CMT	START CMT	
11:39	100	—	2.2	10.6	—	END CMT	START H2O
11:39	0	—	2.2	2.3	H2O	END H2O	START MUD
11:50	0	—	4.5	20.1	MUD	SHUT DOWN BALANCED PLUG	
2:15	0	—	—	—	MUD	START MUD	(PLUG #2)
2:22	100	—	2.9	20	H2O	END MUD	START H2O
2:26	0	—	2.5	10.	—	END H2O	
2:30	0	—	—	—	CMT	START CMT	
2:33	0	—	4.4	13.35	CMT	END CMT	START H2O
2:33	0	—	4.4	1.7	H2O	END H2O	START MUD
2:37	0	—	3.7	22.1	MUD	SHUT DOWN BALANCED PLUG	
4:34	0	—	—	—	—	START H2O	(PLUG #3)
4:39	0	—	4	20	H2O	END H2O	
4:43	0	—	—	—	—	START CMT	
4:45	0	—	3.2	6.4	CMT	END CMT	START H2O
4:46	0	—	2.6	2.6	H2O	SHUT DOWN BALANCED PLUG	
6:14	0	—	—	—	—	START CMT	
6:19	0	—	1.3	5.3	CMT	SHUT DOWN	

THANKS SCOTT & CREW

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	TOTAL Bbl. PUMPED	Bbl. CMT RETURNS/ REVERSED	PSI LEFT ON CSG	SPOT TOP CEMENT	SER. SUP. SCOTT SLAUGH
Y-N	—	Y-N	174.45	—	—	54AF	CUSTOMER REP. DARRELL KUMP

FIELD OR DIST. Glen Beach	COUNTY Uinta	STATE Utah	WIRE LIP	RD	REEL NO.				
SIZE 8 7/8	MAKE	WT. & GR.	NO. JOINTS 7	FEET 300	RKB. TO CSG. NO. 12	SET AT 3R	SIZE 1 1/8	NO. LINES 8	FT. SLIPPED
LAST CASING TUBING OR LINER			FT. CUT OFF		PRESENT LENGTH		TON MI. OR TRIPS SINCE LAST CUT		
							CUMULATIVE TON MI. OR TRIPS		

FOOTAGE		DR. D RM-R CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO.		PUMP NO.		TOTAL GPM	METH. RUN
FROM	TO							LINER SIZE	S.P.M.	LINER SIZE	S.P.M.		SGL. PAR. EL.

DEVIATION RECORD	DEPTH	DEV.	DIR.	TVD	HORZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORZ. DISP.

TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
FROM 1100	TO 1200	1	21	Circle at 5100 & set Plug f/ 5100 to 4950
				w 50 sks "G" + 2% CaCl2 + 5° sk Nello Seal
1200	200	2	6	Lay Down 78 Joints + 12 in DK to 2380
200	300	1	21	Circle at 2380 & set Plug f/ 2380 - 2250
300				w 63 sks "G" + 2% CaCl2
	430	1 1/2	6	Lay Down 78 Joint Trip in 12 Joint slot
430	500	1/2	21	Plug at 350' to 250' w 30 sks "G" + 2% CaCl2
500	530	1/2		Lay Down Pipe

Diesel 33"
DRILLER **Russell**

FOOTAGE		DR. D RM-R CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO.		PUMP NO.		TOTAL GPM	METH. RUN
FROM	TO							LINER SIZE	S.P.M.	LINER SIZE	S.P.M.		SGL. PAR. EL.

DEVIATION RECORD	DEPTH	DEV.	DIR.	TVD	HORZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORZ. DISP.

TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
FROM 530	TO 630	1		Nipple Down Stack
630	700	1/2		Set Plug #4 60'
7:00	10:00	3		Clean mud pits
10:00	3:00	5		Rig Down for Stack out

Air Released 10 AM 9-10-95 DK

DRILLER **Zini**

FOOTAGE		DR. D RM-R CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO.		PUMP NO.		TOTAL GPM	METH. RUN
FROM	TO							LINER SIZE	S.P.M.	LINER SIZE	S.P.M.		SGL. PAR. EL.

DEVIATION RECORD	DEPTH	DEV.	DIR.	TVD	HORZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORZ. DISP.	DEPTH	DEV.	DIR.	TVD	HORZ. DISP.

TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
FROM 3:00	TO 11:00	8	1	Rig Down f/ Stack & Drain up Rig.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NO.
ML-22049

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NA

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

7. UNIT AGREEMENT NAME
NA

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESTV. Other _____

8. FARM OR LEASE NAME
Glen Bench State

2. NAME OF OPERATOR
Chandler & Associates, Inc.

9. WELL NO.
12-16

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

10. FIELD AND POOL OR WILDCAT
Glen Bench

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

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 SPUDDED 1/4/95 16. DATE T.D. REACHED 1/18/95 17. DATE COMPL. (Ready to prod.) 1/26/95 (Plug & Abd.) 18. ELEVATIONS (DF, BEP, 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 COMPLETIONS, HOW MANY NA 23. INTERVALS DRILLED BY ROTARY TOOLS 0-TD CABLE TOOLS - - -

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 LOG DI-FL/GR; CNL-CDL/GR 27. WAS WELL CORED YES NO (Indicate formation) DRILL STEM TEST YES NO (See separate record) 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)	BACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					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/50bbls 2% KCL.
	Frac w/14,060# 20/40;
	14,680# 16/30 sand &
	35# gelled water

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
2/11/95	Pumping (2-1/2"x1-1/2"x16')	Producing

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

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

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

SIGNED [Signature] TITLE Mgr. Operations/Prod DATE 2/22/95

INSTRUCTIONS

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

ITEM 10: 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				
Formation	Top	Bottom	Description, contents, etc.	Name	Meas. Depth	True Vert. Depth
Uintah Green River	Surface	2758'	Shale, siltstone, sandstone Oil shale, limestone/dolomite siltstone, sandstone Sandstone: oil bearing; No cores or tests	"43-16" Zone "Y" Marker Glen Bench Sls	4405'	4405'
	2758'	5318'			4813'	4813'
Wasatch	4958'	4966'	Shale, mudstone and sandstone		4948'	4948'
	5318'	5800'				

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG						5. LEASE DESIGNATION AND SERIAL NO. ML-22049		
1A. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other _____						6. IF INDIAN, ALLOTTEE OR TRIBE NAME NA		
1B. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESRV. <input type="checkbox"/> Other _____						7. UNIT AGREEMENT NAME NA		
2. NAME OF OPERATOR Chandler & Associates, Inc						5. FARM OR LEASE NAME Glen Bench State		
3. ADDRESS OF OPERATOR (303) 295-0400 475 17th St, Ste 1000 Denver, Co 80202						9. WELL NO. 7-16		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 1736'FNL & 1464'FEL (SW NE) At top prod. interval reported below Same At total depth Same						10. FIELD AND POOL OR WILDCAT Glen Bench		
14. API NO. 43-047-32582						11. SEC. T., R. M., OR BLOCK AND SURVEY OR AREA Sec 16-T8S-R22E S.L.B. & M.		
15. DATE SPUNDED 12-12-94				16. DATE T.D. REACHED 12-27-94		12. COUNTY Uintah	13. STATE Utah	
17. DATE COMPL. (Ready to prod.) 1-3-95 (Plug & Abd.)			18. ELEVATIONS (DF. BEB. RT. CR. ETC.) 4916'GL 4928'KB			19. ELEV. CASINGHEAD - - -		
20. TOTAL DEPTH, MD & TVD 5534		21. PLUG BACK T.D., MD & TVD 5496		22. IF MULTIPLE COMPL. HOW MANY - - -		23. INTERVALS DRILLED BY - - -	ROTARY TOOLS 0-TD	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD) 5423'-5431' Basal Sd						25. WAS DIRECTIONAL SURVEY MADE No		
26. TYPE ELECTRIC AND OTHER LOGS RUN DI-FL/GR; CNL-CDL/GR						27. WAS WELL CORED YES <input type="checkbox"/> NO <input type="checkbox"/> (Submit analysis) DRILL STEM TEST YES <input type="checkbox"/> NO <input type="checkbox"/> (See resources 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	365	12-1/4	265sx Class 'G'		- - -	
5-1/2		15.5	5539	7-7/8	750sx Class 'G'		NA	
29. LINER RECORD								
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	30. TUBING RECORD			
					SIZE 2-7/8	DEPTH SET (MD) 5435	PACKER SET (MD)	
31. PERFORATION RECORD (Interval, size and number) 5423'-5431' w/4JSPF (32 holes) .38" diameter				32. ACID, SHOT, FRACTURE CEMENT SQUEEZE ETC.				
DEPTH INTERVAL (MD)			AMOUNT AND KIND OF MATERIAL USED					
5423'-5431'			Frac'd using 35,200# 20/40; 37,500# 16/30 & 459bbls 2% KCL					
33. PRODUCTION								
DATE FIRST PRODUCTION 1/25/95		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping 2-1/2"x1-1/2"x16"				WELL STATUS (Producing or shut-in) Producing		
DATE OF TEST 02-19-95	HOURS TESTED 24	CHOKER SIZE NA	PROD'N. FOR TEST PERIOD →	OIL—BBL. 5	GAS—MCF. TSTM	WATER—BBL. 0	GAS-OIL RATIO - - -	
FLOW. TUBING PRIME NA	CASING PRESSURE NA	CALCULATED 24-HOUR RATE →	OIL—BBL. - - -	GAS—MCF. TSTM	WATER—BBL. - - -	OIL GRAVITY-API (CORR.) 38.7		
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Used for fuel						TEST WITNESSED BY Randy Smuin		
35. LIST OF ATTACHMENTS Bottom hole pressure survey, CBL								
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records								
SIGNED 			TITLE Mgr, Production/Oper			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, tops(s), bottom(s) and name(s) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

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

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

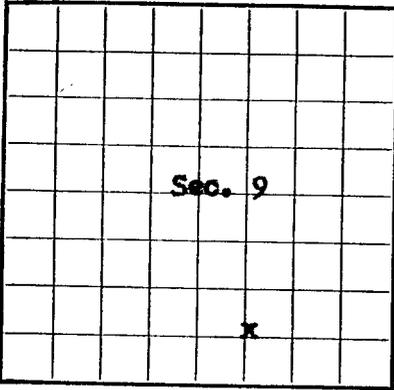
37. SUMMARY OF POROUS ZONES:

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

Formation	Top	Bottom	Description, contents, etc.	Name		Heas. Depth	Top	
							True Vert. Depth	
Uintah	Surface	2856	Sand, shale, siltstone	Glen Bench Ss	5068'		5068'	
Green River	2856'	5430	Sand, shale, oilshale, limestone, dolomite	White River Ss	5322'		5322'	
Glen Bench Ss	5068'	5076'	Assumed to be oil bearing; no cores or tests	Basal 'Stray'	5420'		5420'	
White River Ss	5322'	5338'	Low porosity, non commercial	Tgr Ss				
Basal 'Stray'	5420'	5430'	Oil bearing, production testing					
Wasatch	5430'	TD	Red shale & Ss					

38.

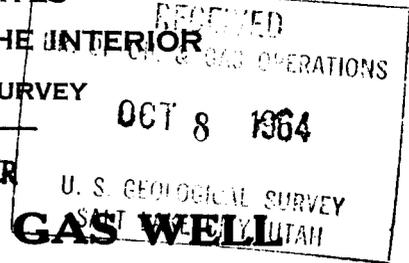
GEOLOGIC MARKERS



LOCATE WELL CORRECTLY

U. S. LAND OFFICE Utah
SERIAL NUMBER _____
LEASE OR PERMIT TO PROSPECT _____
White River

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



ORIGINAL FORWARDED TO CASPER

LOG OF OIL OR GAS WELL

Company Belco Petroleum Corp. Address 1803 N. 20th, Grand Jct., Colo.
Lessor or Tract White River Unit Field White River State Utah
Well No. 16-9 Sec. 9 T. 8S R. 22E Meridian SL&M County Uintah
Location 572 ft. ^[N] of S Line and 2020 ft. ^[E] of E Line of Sec. 9 Elevation 5014
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Date October 6, 1964 Signed A. Frisch Title Dist. Supt.

The summary on this page is for the condition of the well at above date.

Commenced drilling August 13, 1964 Finished drilling August 30, 1964

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5518 to 5535 No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from None to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Step	Weight	Threads per foot	Length	Perforated

Handwritten notes:
11/1/64
10/27/64
No. 1 B

Shenandoah Energy Inc.
(303) 295-0400
FAX (303) 295-0222

PAGES (2)

DATE: 12/21/00

~~TO~~ FROM: Vicky Dyson / Utah Oil, Gas & Mining
(801) 538-5279
FAX # (801) 359-3940

~~FROM~~ TO: Scott M. Webb / Regulatory Coordinator
Direct Line # (303) 308-3052
FAX # (303) 295-0222

MESSAGE:

Vicky,

Could you fax a copy of completion report for the listed well? All I could get was the API number and the well name.

Well Name: Uintah Test #1
API # 43-047-30370

Thanks for your help, it is greatly appreciated!

85 228 16

P & A

2

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other P & A

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other None

2. NAME OF OPERATOR
Gulf Oil Corporation

3. ADDRESS OF OPERATOR
P. O. Box 2619, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 790' FNS & 1419' FEL (NW NE)

At top prod. interval reported below Same

At total depth Same

5. LEASE DESIGNATION AND SERIAL NO.
2237

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Ute Tribe

7. UNIT AGREEMENT NAME
N.A.

8. FARM OR LEASE NAME
Wonsits Valley Federal Uinta

9. WELL NO.
#1

10. FIELD AND POOL, OR WILDCAT
Wonsits Valley Field

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 16-T8S-R21E

14. PERMIT NO. 43-011-30370 DATE ISSUED 3-7-78

15. DATE SPUNDED 4-1-78 16. DATE T.D. REACHED 4-11-78 17. DATE COMPL. (Ready to prod.) 8-21-80 18. ELEVATIONS (DF, REB, RT, QR, ETC.)* 4769' GR 19. ELEV. CASINGHEAD ---

20. TOTAL DEPTH, MD & TVD 1741' 21. PLUG, BACK T.D., MD & TVD Surface 22. IF MULTIPLE COMPL., HOW MANY* --- 23. INTERVALS DRILLED BY Rotary ROTARY TOOLS --- CABLE TOOLS ---

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
NONE 25. WAS DIRECTIONAL SURVEY MADE
NO

26. TYPE ELECTRIC AND OTHER LOGS RUN
DIL, CNL-FDC, EPT, SIDE WALL CORE, CBL, CCL 27. WAS WELL CORED
YES

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#	314.50'	---	175 SX.	---
5 1/2"	17#	1740.50'	---	515 SX.	---
	15.5#				

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
---	---	---	---	---	---	---	---

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
---	---	---

31. PERFORATION RECORD (Interval, size and number)
Perf: 1150 - 1166' w/4JSPF
1432 - 1462' w/4JSPF
1548 - 1586' w/4JSPF

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
	NONE

33.* PRODUCTION
DATE FIRST PRODUCTION --- PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) --- WELL STATUS (Producing or shut-in) P & A

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
---	---	---	---	0-	0-	0-	---
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
			0-	0-	0-		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) --- TEST WITNESSED BY ---

35. LIST OF ATTACHMENTS
None

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

SIGNED E. A. McInnis TITLE Area Engineer DATE 1-8-81

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

INSTRUCTIONS

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

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

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

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

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

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

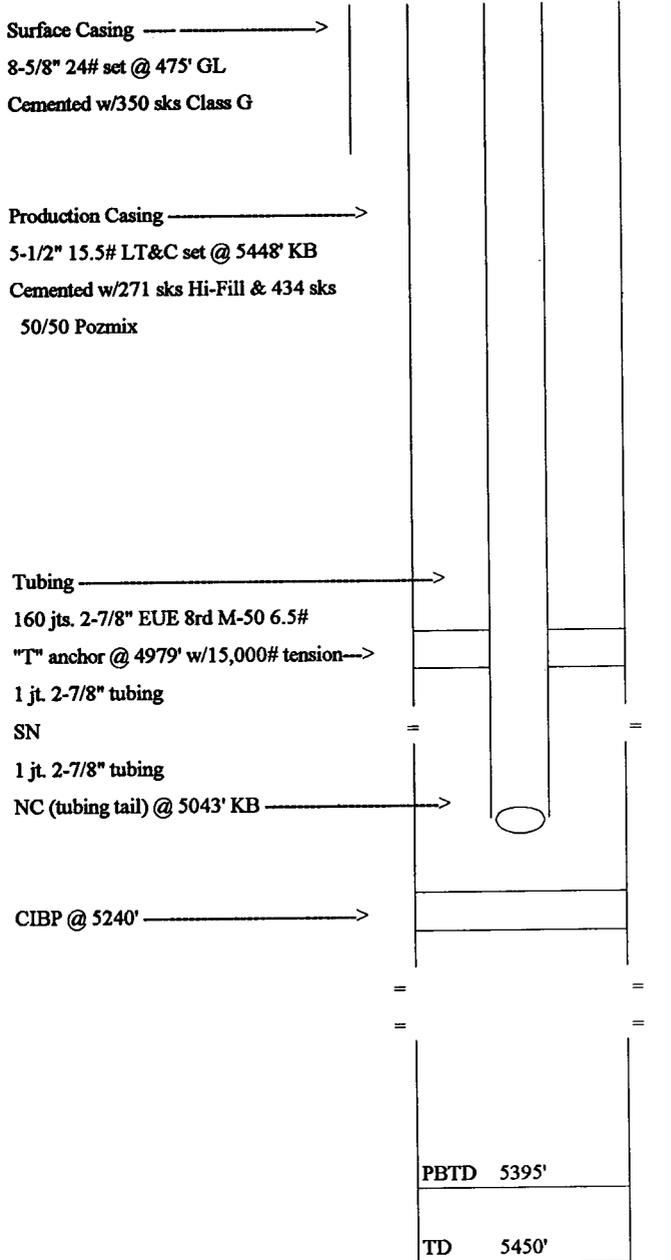
Utah Dept. of Natural Resources
Division of Oil, Gas & Mining
1588 West North Temple
Salt Lake City, UT 84116

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	GEOLOGIC MARKERS
			Plug #1 - 1000 - 2000' w/50 sx. cement #2 - 270 - 370' w/20 sx.cement #3 - 50' to surface w/10 sx. cement. Core: #1 - 960 - 1020' #2 - 1020 - 1080' #3 - 1080 - 1140' #4 - 1140 - 1200' #5 - 1200 - 1260' #6 - 1260 - 1320' #7 - 1320 - 1380' #8 - 1380 - 1434' #9 - 1434 - 1494' #10 - 1494 - 1554' #11 - 1554 - 1614' #12 - 1614 - 1650'	Uintah Form.	38.
					MEAS. DEPTH
					TOP
					TRUE VERT. DEPTH
				Surface	to T.D.

Well Name: **Glen Bench 11-16-8-22**
 Location: **NESW Sec. 16, T8S, R22E**
 Field: **Glen Bench**
 Spud Date: **6/5/97**
 Completed: **7/18/97**

Date: **7/20/97**
 County: **Uintah**
 State: **Utah**
 KB: **4903'**
 GL: **4891'**



Rod Detail:
 1-4' x 7/8" pony rod
 2-8' x 7/8" pony rods
 64 - 7/8" plain rods
 134 - 3/4" plain rods
 Pump-2-1/2" x 1-3/4" x 16' RHAC
 Trico

Perfs:
 Glen Bench Sand: 5024'-5031' w/4 jpf
 (28 holes)

5284'-5286' & 5291' - 5300' w/4 jpf
 Acidize w/1500 gals. 7-1/2% HCl
 (Slight show of oil)

IP: 115 BOD/0 BWD

*Comment Acceptable
 CBL Fiche
 [Signature]*

RECEIVED
SEP 12 1997

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
DIV. OF OIL, GAS & MINING

REGISTRATION AND SERIAL NO.

MI-22049

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Glen Bench Unit

8. FARM OR LEASE NAME

Glen Bench State

9. WELL NO.

11-16-8-22

10. FIELD AND POOL OR WILDCAT

Glen Bench

11. SEC. T. R. W. OR BLOCK AND SURVEY OR AREA

Sec. 16, T8S, R22E

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1. TYPE OF WELL: OIL WELL GAS WELL NAT Other _____

2. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP EN PLUG BACK DIFF. ACCT. Other _____

3. NAME OF OPERATOR
Chandler & Associates, Inc.

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

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface 2399' FSL, 2116' FWL (NESW), Sec. 26, T8S, R22E
At top prod. interval reported below Same as above
At total depth Same as above

14. API NO. 43-047-32857 DATE SHEDD 4/30/97 12. COUNTY Uintah 13. STATE Utah

15. DATE STUDED 6/10/97 16. DATE T.D. REACHED 6/20/97 17. DATE COMPL. (Ready to prod.) 7/16/97 (Plug & ABL) 18. ELEVATION (SP. RES. RT. CR. ETC.) 4903' KB 19. ELEV. CASINGHEAD 4891'

20. TOTAL DEPTH, MD & TVD 5450' 21. PLUS SAGG TD, MD & TVD 5395' 22. OF MULTIPLE COMPL. HOW MANY _____ 23. INTERVALS SKIPPED BY _____ 24. STARTY TOOLS X 25. CABLE TOOLS _____

26. PRODUCING INTERVAL(S) OF THIS COMPLETION—TOP, BOTTOM, DEPTH (MD AND TVD)
Top - 5024'
Bottom - 5031'

27. TYPE ELECTRIC AND OTHER LOGS RUN
Dual Induction, Density-CBL 7-1-97 28. GAS WELL CORDED YES NO (See instructions) 29. DRILL STEM TEST YES NO (See instructions)

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	MOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	475'	12-1/4"	350 sxs Class G	0
5-1/2"	15.5#	5448'	7-7/8"	271 sxs Hi-Fill & 434 sxsk 50/50 Pozmix	0

31. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	32. TUBING RECORD
					SIZE DEPTH SET (MD) PACKER SET (MD)
					2-7/8" 5043' ---

33. PREPARATION RECORD (Interval, size and number)

34. ACID, SHOT, FRACTURE, CEMENT SQUEEZE ETC.	
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5284'-5300'	1500 gals. 7 1/2% HCl

35. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
7/17/97	Rod Pump	Producing					
DATE OF TEST	BOUGS TESTED	CHOCOT SIZE	PROD. FOR TEST PERIOD	OIL—GAL.	Gas—MCF.	WATER—GAL.	GAS-OIL RATIO
7/22/97	24	None	103	103	15	0	145
FLOW TUBING POINT	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—GAL.	Gas—MCF.	WATER—GAL.	OIL GRAVITY-API (COR.)	
0	20#	103	103	15	0	37.7	

36. DISPOSITION OF GAS (sold, used for fuel, vented, etc.)
On lease usage
37. TEST WITNESSED BY
Jim Simonton

38. LIST OF ATTACHMENTS
Wellbore diagram
39. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED Jim Simonton TITLE Operations Supervisor DATE 9-5-97

WATER COMPATIBILITY CALCULATIONS

FIELD NAME:

WATER A :WRU 31-4
SAMPLE NO:40-95

WATER B :WELL GB-22-20
SAMPLE NO:41-95

ION(mg/L)	100%A	90%A	75%A	50%A	25%A	10%A	100%B
Na	749	1392	2357	3966	5574	6539	7182
Ca	5	61	144	284	423	506	562
Mg	0	6	14	29	43	51	57
Ba	0.0	12.1	30.3	60.5	90.8	108.9	121.0
Sr	0.0	11.4	28.5	57.0	85.5	102.6	114.0
Cl	35	1736	4288	8540	12793	15344	17045
SO4	134	121	101	69	36	16	3
CO3	102.0	91.8	76.5	51.0	25.5	10.2	0.0
HCO3	1251.0	1158.4	1019.5	788.0	556.5	417.6	325.0
TDS	2276	4589	8059	13843	19626	23096	25409
pH	8.20	8.10	8.00	7.80	7.70	7.70	7.60
SG	1.009	1.010	1.011	1.013	1.015	1.016	1.017
I(molar)	0.03	0.07	0.13	0.24	0.34	0.40	0.44

WATER INJECTION SYSTEM

CALCIUM CARBONATE SCALING CALCULATIONS

[-----Upstream of Pump-----] [-----Downstream of Pump-----]

%A	TF	Psia	XCO2	pHc	SI	PTB	Is	TF	Psia	pHd	SI _d	PTB	Is
100	145	2000	0	****	1.23	4.1	****	100	50	8.11	.66	3.4	*****
90	145	2000	0	****	2.03	52.4	****	100	50	7.99	1.39	50.7	*****
75	145	2000	0	****	2.05	124.5	****	100	50	7.86	1.36	119.1	*****
50	145	2000	0	****	1.87	240.8	****	100	50	7.7	1.13	214.1	*****
25	145	2000	0	****	1.66	296.8	****	100	50	7.59	.87	221.1	*****
10	145	2000	0	****	1.49	229	****	100	50	7.53	.68	163.4	*****
0	145	2000	0	****	1.36	173.8	****	100	50	7.5	.54	115.5	*****

SULFATE SCALE CALCULATIONS

%A	TF	Psia	[-----CaSO4-----]		[-----BaSO4-----]		[-----SrSO4-----]	
			SR	PTB	SR	PTB	SR	PTB
100	100	50	0	-617.2	*****	*****	0	-45.9
90	100	50	0	-715.1	*****	*****	.1	-56.6
75	100	50	0	-830.2	89.5	17.7	.1	-70.4
50	100	50	0	-991.5	76.6	34.8	.1	-93.1
25	100	50	0	-1096.7	46.6	29	.1	-112.8
10	100	50	0	-1149.5	22.2	12.9	0	-124.5
0	100	50	0	-1180.1	4.3	1.9	0	-132.3

NOTE: Values of SI & PTB for CaCO₃, and SR & PTB for CaSO₄ and BaSO₄ are calculated at 14.7 psia.

Chandler
Water Analysis

ION	Well #WRU 31-4	Well GB-22-20
	Source Water 40-95	41-95
Ion Concentration mg/l		
Calcium	5	562
Magnesium	<1	57
Barium	<5	121
Strontium	<5	114
Sodium	749	7,182
Potassium	<1	2,746
Iron	<1	<1
Chloride	35	17,045
Sulfate	134	3
Carbonate	102	0
Bicarbonate	1,251	325
Total Dissolved Solids	1,781	31,776
pH	8.241	7.628
Resistivity at 72°F ohm-m	4.41	0.265
Viscosity at 72°F cp	0.9402	0.9833
Density at 72°F g/ml	1.0009	1.0198

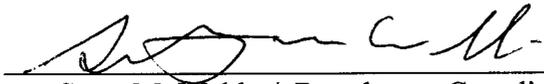
AFFIDAVIT OF MAILING

**Glen Bench State # 6-16
SE NW Section 16-T8S-R22E
Uintah County, Utah**

On July 31, 2000, a copy of the State of Utah application for conversion to injection for the subject well was mailed to the following surface owner:

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

Shenandoah Energy Inc., is the sole leaseholder for the mineral leases surrounding in the ½ mile Area of Review (AOR) for the Glen Bench State # 6-16.

Signature: 
Scott M. Webb / Regulatory Coordinator

Date: July 31, 2000

Get Affidavit
- It must be notarized
- Sitka must also
be sent a copy of
app. forms to idj. x
include affidavit

Is your RETURN ADDRESS completed on the reverse side?

SENDER:
 ■ Complete items 1 and/or 2 for additional services.
 ■ Complete items 3, 4a, and 4b.
 ■ Print your name and address on the reverse of this form so that we can return this card to you.
 ■ Attach this form to the front of the mailpiece, or on the back if space does not permit.
 ■ Write "Return Receipt Requested" on the mailpiece below the article number.
 ■ The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
 1. Addressee's Address
 2. Restricted Delivery
 Consult postmaster for fee.

3. Article Addressed to:
 BLM / Vernal District
 170 S 500 E
 Vernal, UT 84078

4a. Article Number
 2 / 88-019-082

4b. Service Type
 Registered Certified
 Express Mail Insured
 Return Receipt for Merchandise COD

7. Date of Delivery

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)
 X

8. Addressee's Address (Only if requested and fee is paid)

Thank you for using Return Receipt Service.

Z 188 019 082

US Postal Service
Receipt for Certified Mail

No Insurance Coverage Provided.
 Do not use for International Mail (See reverse)

PS Form 3800, April 1995

Sent to	BLM Vernal
Street & Number	170 S 500 E
Post Office, State, & ZIP Code	Vernal, UT 84078
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Fold at line over top of envelope to the right of the return address

CERTIFIED

Z 188 019 082

MAIL



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

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

N REPLY REFER TO
UT-931

August 24, 2000

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

Re: Glen Bench Unit
Uintah County, Utah

Gentlemen:

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

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

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

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

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks
Chief, Branch of Fluid Minerals

Enclosure

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

UT931:TAThompson:tt:8/24/00

Results of query for MMS Account Number UTU73974X

API Number	Operator	Well Name	Well Status	Lease or CA Number	Inspection Item	Township	Range	Section	Qu
4304731008	CHANDLER & ASSOCIATES LLC	31-30 GLEN BENCH	POW	UTU9617	UTU73974X	8S	22E	30	NW
4304731257	CHANDLER & ASSOCIATES LLC	44-19 GLENBENCH	ABD	UTU9617	UTU73974X	8S	22E	19	SE
4304731260	CHANDLER & ASSOCIATES LLC	22-30 BENCH GLEN	TA	UTU9617	UTU73974X	8S	22E	30	SE
4	CHANDLER & ASSOCIATES LLC	49-16	POW	STATE	UTU	8S	22E	30	NW
4304731355	CHANDLER & ASSOCIATES LLC	13-20 NGC	POW	UTU9617	UTU73974X	8S	22E	20	NW
4304731356	CHANDLER & ASSOCIATES LLC	22-20 NGC	WIW	UTU69001	UTU73974X	8S	22E	20	SE
4304731399	CHANDLER & ASSOCIATES LLC	45-16 WHITE RIVER	POW	STATE	UTU73974X	8S	22E	16	NE
4304731433	CHANDLER & ASSOCIATES LLC	31-20 FEDERAL	POW	UTU69001	UTU73974X	8S	22E	20	NW
4304731555	CHANDLER & ASSOCIATES LLC	2-17-4C ANTELOPE	POW	UTU65276	UTU73974X	8S	22E	17	SE
4304731556	CHANDLER & ASSOCIATES LLC	3-17-3C ANTELOPE	POW	UTU65276	UTU73974X	8S	22E	17	SE
	CHANDLER								

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

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

Scott Webb Shenandoah FAX
(303) 295-0400

Copy of attorney's general opinion on what is required for a legal affidavit (notary?)

7TH STREET, SUITE 1000
NVER, COLORADO 80202
(303) 295-0400
FAX (303) 295-0222
TOLL FREE (800) 234-8680

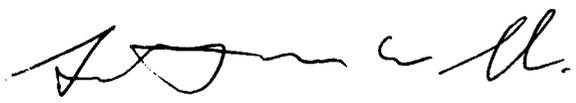
Injection Permit Application

Dear Mr. Hill;

Enclosed are Form 1 and the required attachment conversation this morning.

If you have any questions or need additional information telephone at (303) 308-3052. Thank you for your

Sincerely,



Scott M. Webb
Regulatory Coordinator

- ~~Permit requirements~~
- ① Review of mechanical condition of 4304730370 (Utah Test #1) and 4304732857 (GBU 11-16-8-22)
 - ② ^{tonelated} strike & dip x-sections ^{1.741 TD} for 2 miles ^{along on structural contours} on either side of subject well. ^{named formations}
 - ③ Structure contours for 3 sections around subject well on relevant marker (for injection interval) ^{logs are available}
 - ④ Evidence to support a finding that the proposed injection well will not initiate fractures through overlying strata or confining layers.
 - ⑤

AUG 13 2000

DIVISION OF
OIL, GAS AND MINING

SHENANDOAH ENERGY INC.

475 17TH STREET, SUITE 1000
DENVER, COLORADO 80202
(303) 295-0400
FAX (303) 295-0222
TOLL FREE (800) 234-8680

July 31, 2000

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

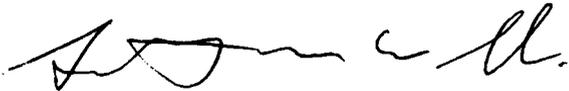
RE: Glen Bench State # 6-16
SENW Section 16-T8S-R22E
Uintah County, Utah
Injection Permit Application

Dear Mr. Hill;

Enclosed are Form 1 and the required attachments for the subject well application as per our telephone conversation this morning.

If you have any questions or need additional information, I can be reached at the letterhead address or by telephone at (303) 308-3052. Thank you for your time and help in this matter.

Sincerely,



Scott M. Webb
Regulatory Coordinator

RECEIVED

AUG 03 2000

DIVISION OF
OIL, GAS AND MINING

**Glen Bench #6-16
Uintah County, Utah**

List of Attachments

State of Utah, Division of Oil Gas & Mining UIC Form 1.

State of Utah, Division of Oil Gas & Mining Form 3 Completion Report.

Supplement to attachments.

- Attachment A:** 1/2 mile area of review map and surface ownership map.
- Attachment B:** 1/4 mile area of review.
- Attachment C:** #6-16 drilling and completion report.
- Attachment D:** Plugging and abandonment plan and P&A well bore diagram.
- Attachment E:** State report of water encountered & water quality data.
- Attachment F:** Current well bore diagram.
- Attachment G:** Step rate testing information.
- Attachment H:** Water analysis data.
- Attachment I:** #6-16 core sample.
- Attachment J:** Well bore data, off-setting wells in the AOR.

Affidavit of mailing.

43-16
45-16 (Don't Need)
8-17 (Don't Need)
12-16
7-14
16-9

Still need
Mechanical condition
for Uintah Test #1 (4304730370)
and GB4 11-16-8-22 (304732857)

**Glen Bench State #6-16
Uintah County, Utah**

Supplement to Attachments

Shenandoah Energy Inc., is applying to convert the Glen Bench State #6-16 into an underground injection control (UIC) well. The well is within the boundaries of an existing, approved Enhanced Recovery Unit (UTU 73974 A) and was originally drilled to produce from the Glen Bench Sandstone of the Green River Formation. All information regarding the Glen Bench Unit, such as engineering report, maps well tests and logs have been submitted to the State of Utah Division of Oil Gas and Mining, Bureau of Land Management, Bureau of Indian Affairs and the Environmental Protection Agency.

Map of wells and area of review - Attachment A:

Attachment A is a 7.5 minute topographic map indicating the Area of Review (AOR) as defined by an area with-in a ½ mile radius of the Glen Bench State # 6-16. There are no known active water wells with-in the AOR. There are two active injection wells with-in the AOR. (incl. GBS #6-16)

Surface ownership in the AOR is as follows:

Section 16-T8S-R22E; all:	State of Utah
Section 17-T8S-R22E; all:	Bureau of Land Management
Section 9- T8S-R22E; all:	Bureau of Land Management

} R649-5-2.12 OK

Logs:

Copies of the Cement Bond Log (CBL), Dual Induction log (DIL) and Compensated Neutron Density are included with this application. Logs for the other wells with-in the AOR are on file with the State of Utah, Division of Oil Gas and Mining.

Map of ¼ mile AOR - Attachment B

Drilling & Completion Daily Reports - Attachment C

Plugging and Abandonment Plan - Attachment D

Water Quality Data – Attachment E

Report of water encountered during the drilling of the Glen Bench State # 6-16 indicates there was no observed fresh water zones encountered while drilling the well. The base of moderately saline water (TDS 10,000 mg/l or less) is derived from USGS Open File Report 87-394/Utah Dept. of Natural Resources Technical Pub. No. 92: Base of Moderately Saline Ground Water in the Uintah Basin. 1987; Howell, L., Longson, M.S., and Hunt, G.L. From this publication and corresponding plates, it appears that the base of moderately saline water is between ¹⁰⁰⁰2,000' and ^{5000' above}3,000' below sea level, which corresponds approximately to the base of the Uinta/top Green River contact in the Glen Bench State # 6-16 at 2850' KB (+2098').
3948' KB (+1000)

Well Construction Details – Attachment F

The well bore profile for the Glen Bench State # 6-16 shows the current configuration of the well. The string of surface casing consists of 388' of 8-5/8", 24#, J-55 pipe, set with 285 sx of class "G" cement in a 12-1/4" hole. Cement was circulated to the surface. The production string consists of 5353' of 5-1/2", 11.6#, J-55 pipe set with 700 sx of class "G" cement in a 7-7/8" hole. The top of cement is estimated from the CBL to be at 2150'. The perforated interval (5106' – 5111') or injection zone appears to have bond in excess of 95%. The 2-7/8" tubing is to be secured with a full bore Arrowset packer, set at approximately 5044' with 15,000 # tension.

Procedures to convert the Glen Bench State # 6-16 to injection would be as follows:

- 1) MIRU, unseat pump. POOH with rods and pump.
- 2) RIH with bit and scraper to PBTD.
- 3) Set retrievable packer at 5044'.
- 4) Perform mechanical integrity test (MIT); if well passes test, surface equipment will be hooked up and the well will be placed on injection status and shut-in pending the approval of the permit to inject.

Step Rate testing information – Attachment G

Operating Data

A Zonal Isolation Step Rate test was performed on the Glen Bench State # 6-16 in December 1999 (see Attachment "G") by injecting 2% KCL in the proposed injection zone (5106' - 5111'). Pressures were measured when stabilized at five minute intervals. The face fracture gradient for the Glen Bench Zone of the Green River Formation is calculated to be 0.618 psi/ft, the gradient was determined using the breakpoint on the injectivity test.

- 1) The anticipated maximum daily injection volume would be approximately 720 bbls of fluid.
940 psi @ 0.5 BPM = 720 BWPD
- 2) The estimated injection pressure gradient is derived from the Step Rate test.
5111' x 0.434 psi/ft. = 2218 psi
Injection pressure = 940 psi + 2219 psi = 3158 psi
Injection pressure gradient = 3158 psi/5111' = 0.618 psi/ft
- 3) Theoretical maximum allowable surface injection pressure (Pm) is 945 psi.
Pm = maximum pressure at the wellhead
1.005 = specific gravity of the injection fluid
0.618 = face fracture gradient
5111' = depth to base sand
0.434 = normal pressure gradient
Pm = [0.618 - 0.434 (1.005)] 5111' = 945 psig
- 4) The nature of the annulus fluid is described as packer fluid: a mixture of fresh water with scale and corrosion inhibitors.

Water Analysis Data – Attachment H 2649-5-2-2.6

Earliest produced water analysis data from the Glen Bench State # 6-16 was performed in February 1997, the results are as follows:

Total Dissolved Solids (TDS) = 16,351 mg/l
pH = 9.2
Specific Gravity = 1.008

The primary water source for the injection make-up water would be produced water from the unit wells and additional water from the White River #31-4 well in section 4-T8S-R22E. This well has been approved as a water source well by the State of Utah water user claim Code #49, Serial #287. Shenandoah Energy Inc., is the operator of record for the White River #31-4. The supply well water analysis showed obtained at the injection plant inlet was as follows:

Total Dissolved Solids (TDS) = 5689 mg/l
pH = 9.0
Specific Gravity = 1.005

Core Sample Data for Glen Bench State # 6-16 – Attachment I

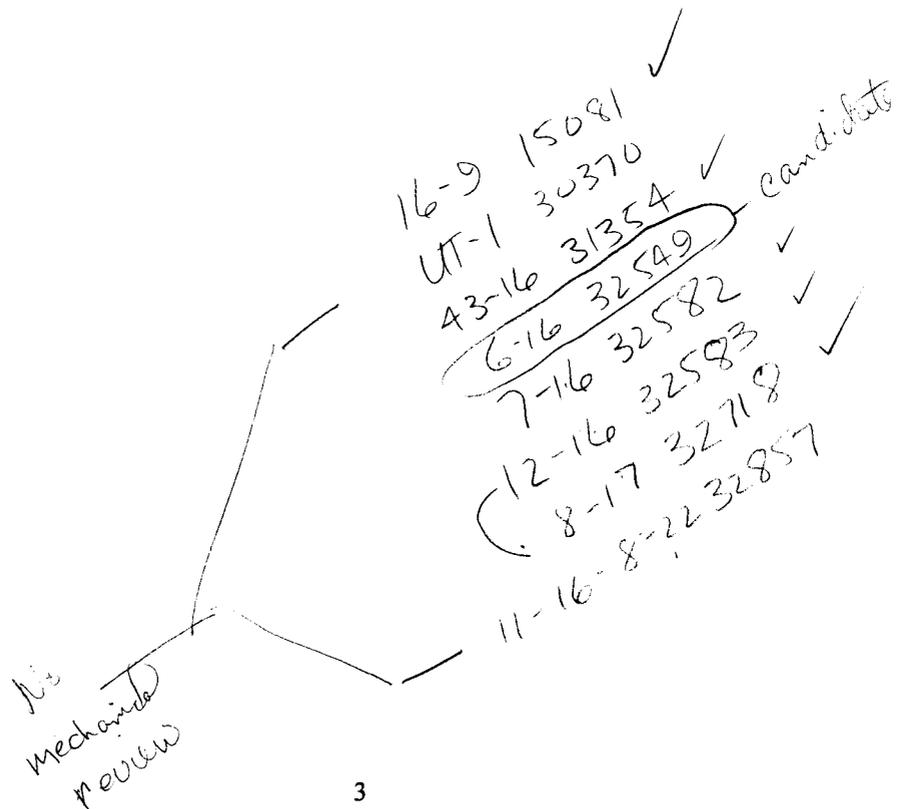
Geological Data on Injection and Confining Zones

The proposed injection interval in the Glen Bench State # 6-16 is from 5106' – 5111', in the Glen Bench pay zone of the Tertiary Green River Formation. The total section of the Green River Formation that overlies the proposed injection interval is approximately 2256' thick. The lithology of this section consists of shales, siltstones, limestones and thin sandstone lenses. The Glen Bench Zone for this well is an interval seven feet thick (5105' – 5112'), and is made up of mostly sandstone. It is described as white to light gray, very fine grained, angular to sub-angular, medium sorted, unconsolidated, slightly calcareous friable sandstone. The confining zone above the proposed injection zone consists of 285' of shale (4820'- 5105') that is calcareous in part with occasional thin siltstone and sandstone stringers.

A core was cut and recovered over the Glen Bench pay zone (see Attachment "I"), there were no drill stem tests taken. Core porosity ranges from 8.9% to 13.5%, which compares well with the measured log porosity. Average porosity for the Glen Bench interval is estimated at 11%. Measured permeability from the core ranged from a low of 11.5 md to a high of 63.8 md with an average permeability estimated at 30.65 md. See Attachment "E" for water quality data.

Mechanical Conditions of Wells in the AOR – Attachment J

The Glen Bench #12-16 and the Glen Bench #7-16 are the only injection wells with-in the recovery unit. Both are in good mechanical condition. The White River Unit #43-16 is a producing oil completed in the Green River Formation known as the White River Sand, at a stratigraphically higher zone and has been plugged back to 4862', effectively covering the Glen Bench zone at 5186'. The White River Unit #16-9 is a shut-in oil producer from stray Green River sand and is perforated from 5525' – 5527'. The Glen Bench Unit # 8-17 is plugged and abandoned. Well bore diagrams, completion and or plugging reports are included in Attachment "J".



Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUBMIT IN TRIPLICATE- Other Instructions on reverse side		5. Lease Serial No. ML-22049
		6. If Indian, Allottee or Tribe Name
		7. If Unit or CA Agreement, Name and No.
1. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Lease Name and Well No. GLEN BENCH STATE 6-16
2. Name of Operator SHENANDOAH ENERGY INC CONTACT: J.T. CONLEY DIVISION MANAGER EMAIL: jconley@shenandoahenergy.com		9. API Well No. 4304732549
3a. Address 11002 EAST 17500 SOUTH VERNAL, UT 84078	3b. Phone No. (include area code) TEL: 435.781.4300 EXT: 301 FAX: 435.781.4329	10. Field and Pool, or Exploratory GLEN BENCH
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 16 T8S R22E SENW 1559FNL 2191FWL		11. County or Parish, State UINTAH, UT

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

TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-off	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/>	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input checked="" type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give the subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of involved operations. If the operation results in multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

We intend to convert this inactive oil well to water injection. The well will inject down 2 7/8" tubing under a packer set at ~5050'. Injection into the Green River Formation zone thru perfs from 5106'-5111'. Injection water is sourced via the Glen Bench Unit Injection Station.

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

RECEIVED
NOV 11 2000
DIVISION OF
OIL, GAS AND MINING

Name (Printed/Typed) J.T. CONLEY	Title DISTRICT MANAGER
Signature <i>J.T. Conley</i>	Date 11-4-00

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

ELECTRONIC SUBMISSION #1874 VERIFIED BY THE BLM WELL INFORMATION SYSTEM FOR SHENANDOAH ENERGY INC SENT TO THE VERNAL FIELD OFFICE

SHENANDOAH ENERGY INC.

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

December 7, 2000

PERMIT DATA SUBMITTAL
Glen Bench State #6-16
Glen Bench Unit
Uintah County, Utah

Mr. Al Craver
Underground Injection Control Program
United States Environmental Protection Agency
Region VIII
999 18th Street – Suite 300
Denver, Colorado 80202-2466

Dear Mr. Craver,

Please find attached the Well Rework Record, pore pressure survey and the MIT as required by the Final Permit. The Glen Bench State #6-16 Class IIER is ready to commence injection upon receiving your authorization to inject.

<u>Wellname</u>	<u>EPA ID</u>
Glen Bench State #6-16	UT2878-04539

If you have any questions regarding the tests, 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

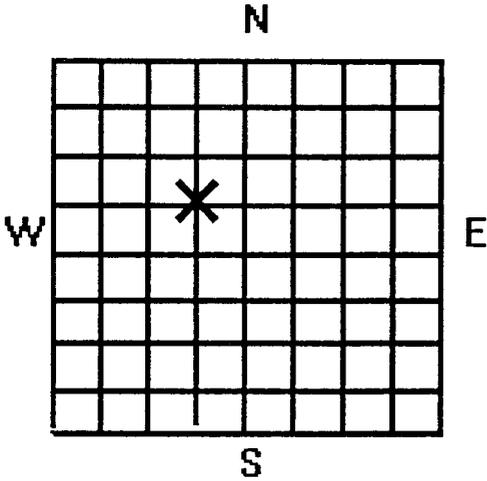


WELL REWORK RECORD

NAME AND ADDRESS OF PERMITTEE
Shenandoah Energy Inc.
11002 East 17500 South
Vernal, UT 84078-8526
(435) 781-4300

NAME AND ADDRESS OF CONTRACTOR
Pool Well Service
2240 West US Hiway 40
Roosevelt, UT 84066
(435) 722-3451

LOCATE WELL AND OUTLINE UNIT ON
SECTION PLAT -- 640 ACRES



STATE
UTAH

COUNTY
UINTAH

PERMIT NUMBER
UT2878-04539

SURFACE LOCATION DESCRIPTION

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

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

Surface

Location 1559' ft. from (N/S) N Line of quarter section

and 2191' ft. from (E/W) W Line of quarter section

- WELL ACTIVITY
- Brine Disposal
 - Enhanced Recovery
 - Hydrocarbon Storage

Total Depth Before Rework

5440'

Total Depth After Rework

5440'

TYPE OF PERMIT

- Individual
- Area

Number of Wells 1

Lease Name

Glen Bench Unit

Date Rework Commenced

12/15/1999

Well Number

#6-16

Date Rework Completed

12/17/1999

WELL CASING RECORD -- BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	
8-5/8	388'	285	G	n/a	n/a	
5 1/2"	5437'	700	G	5106'	5111'	

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

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	
8-5/8	388'	285	G	n/a	n/a	
5 1/2"	5437'	700	G	5106'	5111'	

**DESCRIBE REWORK OPERATIONS IN DETAIL
USE ADDITIONAL SHEETS IF NECESSARY**

Pull the rods, pump and tubing. Run injection packer on 2 7/8" tubing.
Set packer at 5044'. Test casing for MIT test to 1075 psig, held OK.
Run BHP survey, SIBHP = 1793 psig at 5108' midperfs.

WIRE LINE LOGS. LIST EACH TYPE

Log Types

Logged Intervals

No logging during this rework

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)

J. T. Conley
District Manager

SIGNATURE

DATE SIGNED

12-07-00



P.O. BOX 1043 / RANGELY, COLORADO 81648 / (801) 789-6940

STATIC PRESSURE SURVEY

COMPANY.....: Shenandoah Energy
FIELD.....: Glen Bench
WELL NO.....: Glen Bench State 6-16
DATE.....: 12/04/00
KB ELEVATION: 4948'
GL ELEVATION: 4936'
PERFS.....: 5106'-5111'
PLS JOB NO....: 24165
SURFACE PRESSURE...: 0 PSIG
RAN GAUGE TO.....: 5108.00 (MID PERF)
MEASURED PRESSURE: 1792.665 PSIG

**MECHANICAL INTEGRITY TEST
CASING OR ANNULUS PRESSURE TEST**

U.S. ENVIRONMENTAL PROTECTION AGENCY
UNDERGROUND INJECTION CONTROL PROGRAM, UIC IMPLEMENTATION SECTION (8ENF-T)
999 18TH STREET, SUITE 500, DENVER, CO. 80202-2466

EPA WITNESS: _____ DATE: Dec 4 TIME: 1:00P. ~~1:20P.~~ AM/PM

TEST CONDUCTED BY: MIKE JOHNSON

OTHERS PRESENT: Abraham SEI

WELL:	<u>Glen Bench #6-16</u>	WELL ID:	<u>EPA#UT2878-04539</u> <u>API#43-047-32550</u>
FIELD:	<u>Glen Bench Unit</u>	COMPANY:	<u>SHENANDOAH ENERGY INC.</u>
WELL LOCATION:	<u>SENW S16-T8S-R22E</u>	ADDRESS:	<u>11002 EAST 17500 SOUTH</u> <u>VERNAL, UTAH 84078</u>
WELL STATUS:	<u>Under Construction</u>		

TIME	TEST #1		TEST #2		TEST #3	
	CASING PRESSURE	TIME	CASING PRESSURE	TIME	CASING PRESSURE	TIME
<u>12:00P</u>	0 MIN	<u>1075</u>				
<u>12:05P</u>	5	<u>1075</u>				
<u>12:10P</u>	10	<u>1075</u>				
<u>12:15P</u>	15	<u>1075</u>				
<u>1:20P</u>	20	<u>1075</u>				
<u>1:25P</u>	25	<u>1075</u>				
<u>1:30P</u>	30 MIN	<u>1075</u>				
	35					
	40					
	45					
	50					
	55					
	60 MIN					

START TUBING PRESSURE, PSIG N/A / NO TUBING PRESSURE, NEW WELL.

END TUBING PRESSURE, PSIG _____

RESULTS (CIRCLE) PASS FAIL

SIGNATURE OF EPA WITNESS: _____

NOON

MADE IN U.S.A.

GRAPHIC CONTROLS CORPORATION
BUFFALO, N.Y. 14203

CHART NO. MC MP-1500

METER N/A

← ON? →

CHART PUT ON
NO

LOCATION
M

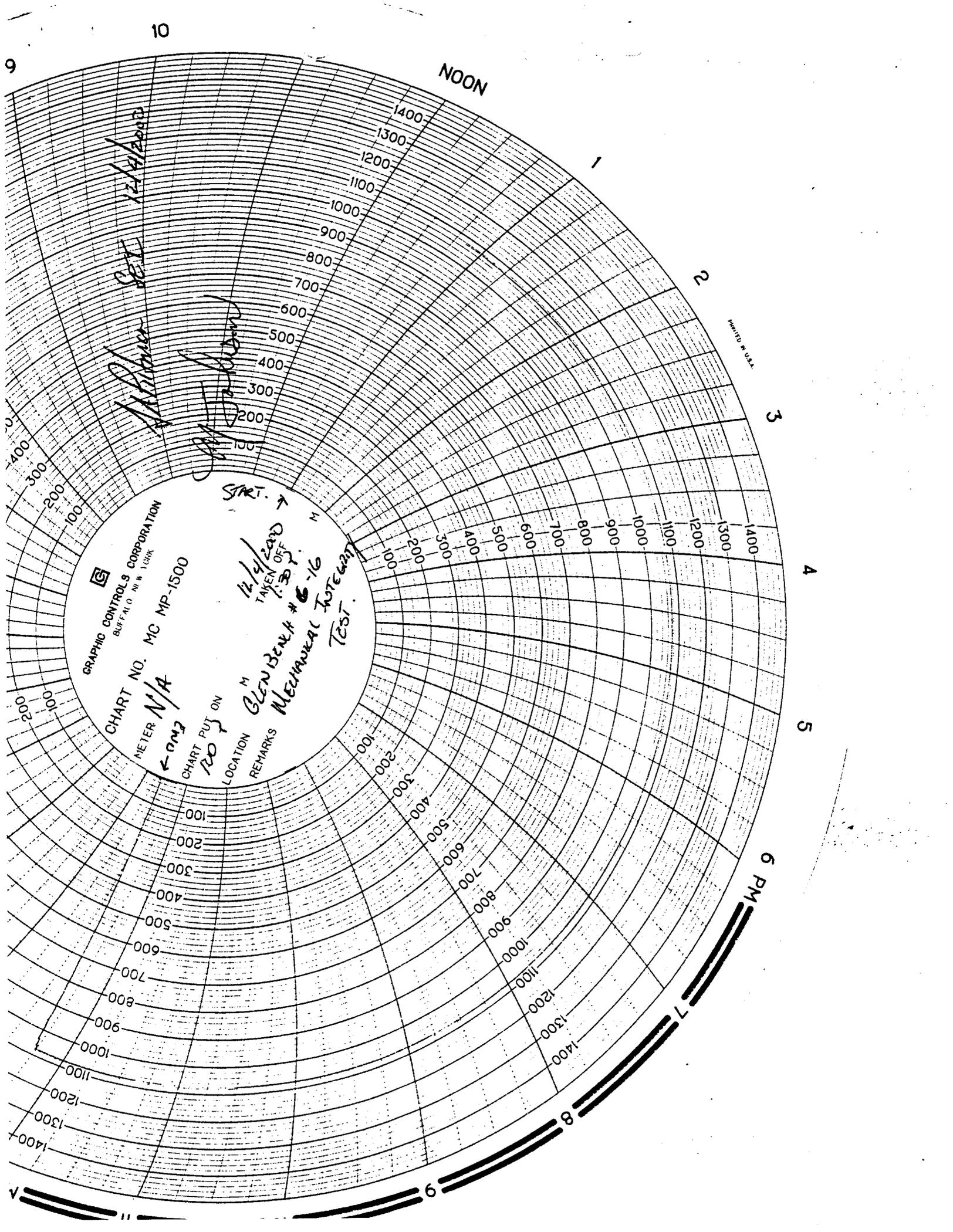
REMARKS
GLENBENA # 6-16
MECHANICAL INTEGRITY
TEST.

START →

12/1/2000
TAKEN OFF
1:30 P.M.

12/1/2000
12/1/2000

12/1/2000



SHENANDOAH ENERGY INC.

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

December 7, 2000

PERMIT DATA SUBMITTAL
Glen Bench State #6-16
Glen Bench Unit
Uintah County, Utah

Mr. Al Craver
Underground Injection Control Program
United States Environmental Protection Agency
Region VIII
999 18th Street – Suite 300
Denver, Colorado 80202-2466

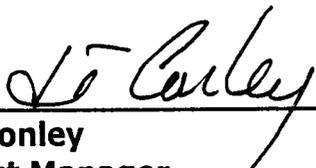
Dear Mr. Craver,

Please find attached the Well Rework Record, pore pressure survey and the MIT as required by the Final Permit. The Glen Bench State #6-16 Class IIER is ready to commence injection upon receiving your authorization to inject.

<u>Wellname</u>	<u>EPA ID</u>
Glen Bench State #6-16	UT2878-04539

If you have any questions regarding the tests, please contact me at (435) 781-4301.

Sincerely,



J. T. Conley
District Manager

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

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



WELL REWORK RECORD

NAME AND ADDRESS OF PERMITTEE Shenandoah Energy Inc. 11002 East 17500 South Vernal, UT 84078-8526 (435) 781-4300	NAME AND ADDRESS OF CONTRACTOR Pool Well Service 2240 West US Hiway 40 Roosevelt, UT 84066 (435) 722-3451									
LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT -- 640 ACRES <div style="text-align: center;"> </div>	STATE UTAH COUNTY UINTAH PERMIT NUMBER UT2878-04539 SURFACE LOCATION DESCRIPTION <u>SE</u> 1/4 OF <u>NW</u> 1/4 OF SECTION 16 TOWNSHIP 8S RANGE 22E LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT Surface Location <u>1559'</u> ft. from (N/S) <u>N</u> Line of quarter section and <u>2191'</u> ft. from (E/W) <u>W</u> Line of quarter section <div style="text-align: right; font-size: 1.2em; font-family: cursive;">43-047-32549</div> <table style="width:100%; border: none;"> <tr> <td style="width:33%; border: none;"> <input type="checkbox"/> Brine Disposal <input checked="" type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Hydrocarbon Storage </td> <td style="width:33%; border: none;"> Total Depth Before Rework <u>5440'</u> Total Depth After Rework <u>5440'</u> </td> <td style="width:33%; border: none;"> TYPE OF PERMIT <input checked="" type="checkbox"/> Individual <input type="checkbox"/> Area Number of Wells <u>1</u> </td> </tr> <tr> <td style="border: none;"> Lease Name Glen Bench Unit </td> <td style="border: none;"> Date Rework Commenced <u>12/15/1999</u> </td> <td style="border: none;"> Well Number #6-16 </td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;"> Date Rework Completed <u>12/17/1999</u> </td> <td style="border: none;"></td> </tr> </table>	<input type="checkbox"/> Brine Disposal <input checked="" type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Hydrocarbon Storage	Total Depth Before Rework <u>5440'</u> Total Depth After Rework <u>5440'</u>	TYPE OF PERMIT <input checked="" type="checkbox"/> Individual <input type="checkbox"/> Area Number of Wells <u>1</u>	Lease Name Glen Bench Unit	Date Rework Commenced <u>12/15/1999</u>	Well Number #6-16		Date Rework Completed <u>12/17/1999</u>	
<input type="checkbox"/> Brine Disposal <input checked="" type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Hydrocarbon Storage	Total Depth Before Rework <u>5440'</u> Total Depth After Rework <u>5440'</u>	TYPE OF PERMIT <input checked="" type="checkbox"/> Individual <input type="checkbox"/> Area Number of Wells <u>1</u>								
Lease Name Glen Bench Unit	Date Rework Commenced <u>12/15/1999</u>	Well Number #6-16								
	Date Rework Completed <u>12/17/1999</u>									

WELL CASING RECORD -- BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	
8-5/8	388'	285	G	n/a	n/a	
5 1/2"	5437'	700	G	5106'	5111'	

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

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	
8-5/8	388'	285	G	n/a	n/a	
5 1/2"	5437'	700	G	5106'	5111'	

DESCRIBE REWORK OPERATIONS IN DETAIL USE ADDITIONAL SHEETS IF NECESSARY	WIRE LINE LOGS. LIST EACH TYPE	
	Log Types	Logged Intervals
Pull the rods, pump and tubing. Run injection packer on 2 7/8" tubing.	No logging during this rework	
Set packer at 5044'. Test casing for MIT test to 1075 psig, held OK.		
Run BHP survey, SIBHP = 1793 psig at 5108' midperfs.		

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) J. T. Conley District Manager	SIGNATURE 	DATE SIGNED 12-07-00
-------------------------------------------------------------------------------------------	---------------	--------------------------------



P.O. BOX 1043 / RANGELY, COLORADO 81648 / (801) 789-6940

STATIC PRESSURE SURVEY

COMPANY.....: Shenandoah Energy
FIELD.....: Glen Bench
WELL NO.....: Glen Bench State 6-16
DATE.....: 12/04/00
KB ELEVATION: 4948'
GL ELEVATION: 4936'
PERFS.....: 5106'-5111'
PLS JOB NO.....: 24165

SURFACE PRESSURE...: 0 PSIG
RAN GAUGE TO.....: 5108.00 (MID PERF)
MEASURED PRESSURE: 1792.665 PSIG

PLS
12/04/00
24165
Glen Bench State 6-16

MECHANICAL INTEGRITY TEST
CASING OR ANNULUS PRESSURE TEST

U.S. ENVIRONMENTAL PROTECTION AGENCY
UNDERGROUND INJECTION CONTROL PROGRAM, UIC IMPLEMENTATION SECTION (8ENF-T)
999 18TH STREET, SUITE 500, DENVER, CO. 80202-2466

EPA WITNESS: _____ DATE: Dec 4 TIME: 1:00P ~~12:00~~ AM/PM

TEST CONDUCTED BY: MIKE JOHNSON

OTHERS PRESENT: Attorney SEI

WELL:	<u>Glen Bench #6-16</u>	WELL ID:	<u>EPA#UT2878-04539</u> <u>API#43-047-32558 32549</u>
FIELD:	<u>Glen Bench Unit</u>	COMPANY:	<u>SHENANDOAH ENERGY INC.</u>
WELL LOCATION:	<u>SENW S16-T8S-R22E</u>	ADDRESS:	<u>11002 EAST 17500 SOUTH</u> <u>VERNAL, UTAH 84078</u>
WELL STATUS:	<u>Under Construction</u>		

TIME	TEST #1		TEST #2		TEST #3	
		CASING PRESSURE	TIME	CASING PRESSURE	TIME	CASING PRESSURE
<u>12:00P</u>	0 MIN	<u>1075</u>				
<u>12:05P</u>	5	<u>1075</u>				
<u>12:10P</u>	10	<u>1075</u>				
<u>12:15P</u>	15	<u>1075</u>				
<u>1:20P</u>	20	<u>1075</u>				
<u>1:25P</u>	25	<u>1075</u>				
<u>1:30P</u>	30 MIN	<u>1075</u>				
	35					
	40					
	45					
	50					
	55					
	60 MIN					

START TUBING PRESSURE, PSIG N/A / NO TUBING PRESSURE, NEW WELL.

END TUBING PRESSURE, PSIG _____

RESULTS (CIRCLE) PASS FAIL

SIGNATURE OF EPA WITNESS: _____

NOON

9

Albany Set 12/4/2007

M. Jackson

GRAPHIC CONTROLS CORPORATION
BUFFALO, NY 14240

CHART NO. MC MP-1500

METER N/A
← ON2

CHART PUT ON
120

LOCATION

REMARKS

SRT. →

12/4/2007
TAKEN OFF
1:30 P.M.

GLENBENK # 6-16
MECHANICAL TOTECH
TEST

MADE IN U.S.A.

6 PM

7

8

9

10

MID.

4

5

3

2

1

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well Oil <input type="checkbox"/> Well Gas <input type="checkbox"/> Well <input checked="" type="checkbox"/> Other WATER INJECTION	5. Lease Designation and Serial No. ML-22049
2. Name of Operator SHENANDOAH ENERGY, INC.	6. If Indian, Allottee or Tribe Name N/A
3. Address and Telephone No 11002 E. 17500 S. VERNAL, UT 84078-8526 (801) 781-4300	7. If Unit or CA, Agreement Designation GLEN BENCH UNIT
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2191' FWL 1559' FNL, SE NW, SECTION 16, T8S, R22E, SLBM	8. Well Name and No. GLEN BENCH STATE 6-16
	9. API Well No. 43-047-32549
	10. Field and Pool, or Exploratory Area GLEN BENCH - GREEN RIVER
	11. County or Parish, State UINTAH, UTAH

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

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

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

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

THIS WELL COMMENCED INJECTION DECEMBER 28, 2000.

RECEIVED
DIVISION OF
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct.
Signed DORIS, C. BEAMAN *Doris C. Beaman* Title OFFICE MANAGER Date 01/03/01

(This space for Federal or State office use)

Approved by: _____ Title _____ Date _____

Conditions of approval, if any _____

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



Shenandoah Energy Inc.

February 15, 2001

Mr. Ed Bonner
State of Utah, School and Institutional
Trust Lands Administration
675 East, 500 South, Suite 500
Salt Lake City, Utah 84102-2818

RE: Glen Bench State 6-16-8-22
Lease # UT-ML 22049
Section 16-T8S-R22E
Uintah County, Utah

Dear Mr. Bonner;

As per the State of Utah regulations, enclosed is a copy of the application to convert the subject well to a Class II injection well. Shenandoah Energy Inc (SEI) has applied to the State of Utah, Division of Oil, Gas and Mining for the permit to inject. I have also enclosed a location map of the well for your records.

If you have any questions or need additional information, I can be reached at (303) 308-3052. Thank you for your time in this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott M. Webb", is located below the "Sincerely," text.

Scott M. Webb
Regulatory Coordinator

SENDER COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Ed Bonner
 State of Utah, School and Institutional
 Trust Lands Administration
 675 East, 500 South, Suite 500
 Salt Lake City, Utah 84102-2818

COMPLER COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly) _____ B. Date of Delivery _____

C. Signature _____ Agent
 Addressee

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number (Copy from service label)
7000-0520-0021-9927-2440

PLACE STICKER AT TOP OF ENVELOPE
 TO THE RIGHT OF RETURN ADDRESS.
 FOLD AT DOTTED LINE
CERTIFIED MAIL



7000 0520 0021 9927 2440
 7000 0520 0021 9927 2440

**U.S. Postal Service
 CERTIFIED MAIL RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)**

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

completed by mailer

Rec Mr. Ed Bonner
 State of Utah, School and Institutional
Stre Trust Lands Administration
 675 East, 500 South, Suite 500
City Salt Lake City, Utah 84102-2818

AFFIDAVIT OF MAILING

**GLEN BENCH STATE #6-16
SENW SECTION 16-T8S-R22E
UINTAH COUNTY, UTAH**

On July 31, 2000, a copy of the State of Utah, division of Oil, Gas and Mining Form 1 and location plats were mailed to the following surface owner:

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

Shenandoah Energy is the sole leaseholder for the mineral leases surrounding the ½ mile Area of Review (AOR) for the subject well.

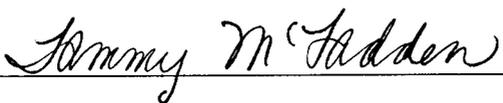
On February 15, 2001, a copy of the State of Utah, division of Oil, Gas and Mining Form 1 and location plats were mailed to the following surface owner:

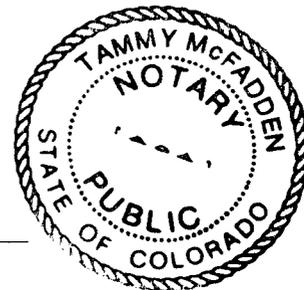
State of Utah, School and Institutional
Trust Lands Administration
675 east, 500 South, Suite 500
Salt Lake City, Utah 84102-2818

Signature: 
Scott M. Webb / Regulatory Coordinator

Date: February 15, 2001

State of Colorado)
) ss:
County of Denver)

Notary: 



My Commission Expires: September 22, 2001



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

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

February 16, 2001

Shenandoah Energy, Incorporated
475 17th Street, Suite 1000
Denver, CO 80202

Re: Glen Bench State #6-16Well, Section 16, Township 8 South, Range 22 East (SLBM),
Uintah County, Utah

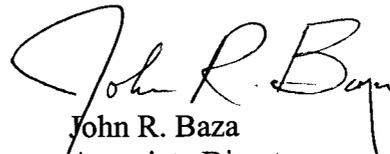
Gentlemen:

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

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

If you have any questions regarding this approval or the necessary requirements, please contact Christopher Kierst at (801) 538-5337 at this office.

Sincerely,


John R. Baza
Associate Director

er

cc: Dan Jackson, Environmental Protection Agency
Bureau of Land Management, Vernal

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

**PERMIT
STATEMENT OF BASIS**

Applicant: Shenandoah Energy, Incorporated **Well:** Glen Bench State #6-16

Location: SENW Sec. 16, T. 8 S., R. 22 E., Uintah County, Utah

API #: 43-047-32549

Ownership Issues:

The subject well is proposed for inclusion into the Glen Bench Unit water flood operation as an injection well. It is located in Section 16, Township 8 South, Range 22 East, Uintah County, Utah, on State land administered by the School and Institutional Trust Lands Administration (SITLA). The Federal government is the only other landowner within the ½ mile radius Area of Review (AoR) and those lands are administered by the Bureau of Land Management (BLM). Shenandoah Energy, Incorporated, is the operator of all leases within the AoR. An affidavit has been filed stating that all surface owners in the AoR have been notified.

Supplementary Historical Information about the Well:

Originally, this well was a Glen Bench Unit production well. It is currently injecting under an Environmental Protection Agency permit and requires a State Division of Oil, Gas and Mining Conversion Approval and Class II Injection Permit.

Well Integrity:

The well proposed the issuance of a Class II injection permit is the Glen Bench #6-16, API # 43-047-32549. It has 8 5/8", 24#, J-55 surface casing set at 388 feet and cemented to surface with 285 sacks Class G cement in a 12¼" hole. 5½", 11.6#, J-55 production casing was set at 5,487 feet and cemented with 700 sacks of Class G in a 7 7/8" hole. The current Plug Back Total Depth is 5353 feet according to the well bore schematic. The well has open perforations in the Glen Bench Sandstone of the Green River Formation from 5,106 feet to 5,111 feet TD. 2 7/8", J-55 injection tubing is secured with a full-bore Arrowset packer set at about 5,044 feet.

A Cement Bond Log (CBL) was run over the interval from 5,426 feet to 2,000 feet on December 19, 1994. The cement bond log reveals that the casing is more than 80% successfully bonded for about 1,000 feet of the well above the injection perforations. It does not appear that the CBL was run under pressure to preclude the formation of an annulus but no annulus appears in the 1,000 feet above the perforations. There are 6 other wells within the AoR. After reviewing the information for these wells available in the files, I judge all to be acceptable as regards their mechanical integrity. All but two of

the wells have acceptable CBL records available and, of the remaining two, one is plugged and abandoned in a workmanlike manner and the other is a shut in producer with an emplaced calculated cement volume sufficient to adequately protect the correlative injection zone if a good bond was obtained.

A step rate test was performed on December 23, 1999 to determine the fracture gradient of the formation in order to verify that the proposed maximum injection rate and pressure will not exceed the formation fracture pressure as per R649-5-2.9. The fracture pressure was determined to be about 940 psig with a fracture gradient of 0.618 psi per foot of depth at an injection rate of about 0.5 bwpm.

A successful casing integrity test was performed on the subject well on December 4, 2000 to demonstrate mechanical integrity. The well will be given a Mechanical Integrity test annually.

Water flood makeup water will be commingled with Unit produced water. Information presented in the water flood project file suggests that this may present a compatibility problem and require treatment.

Ground Water Protection:

No fresh water zones were documented during the drilling of this well. The base of 10,000 ppm moderately saline water is estimated to be above 4,000 feet TD in this well based on mapping through the AoR, which was presented in USGS Open File Report 87-394 / Utah Department of Natural Resources Technical Publication #92: Base of Moderately Saline Ground Water in the Uintah Basin, 1987: Howell, L., Longson, M.S., and Hunt, G.L. A review of produced water resistivities in the area of the subject well suggests that the interval between 4,000 feet and 4,500 feet TD presents interfingering lithofacies with interspersed Total Dissolved Solids (TDS) levels that may be greater or less than 10,000 ppm. Waters sampled from below 4,500 feet always exceed 10,000 ppm and those from below 5,000 feet generally exceed 30,000 ppm. The area around the subject well is generally arid and there is little surface foliage beyond grasses. The surficial geology involves strata assigned to the Uinta Formation. The nearest watercourse is the White River, which is nearly 5 miles to the southwest. A minor ground water resource may exist in the Uinta Formation, which is a useable aquifer in other areas. Glen Spring is about 1½ miles east and an underground water right for ranching/culinary purposes exists nearly three miles west. Both of these probably arise from the Uinta Formation. There are no water wells in the AoR although the operator has a water source well about 1½ miles north to supply Green River Formation water flood makeup water. The 5½" production casing is cemented from 5,487 feet TD to ~2,150 feet. The upper confining zone consists of about 285 feet of variously calcareous shale with occasional sandstone and siltstone stringers in the upper Green River Formation and the lower confining zone consists of the lower Green River Formation. Existing casing and cement construction will adequately protect any shallow fresh water zones.

Oil/Gas & Other Mineral Resources Protection:

Injection into this well should have no adverse affects on any offsetting production. This project is an injection well in a water flood operation and the injection zone is also the Unit producing formation. There are no Unit production wells within the AoR. There are two other active production wells in the AoR but they produce from other superjacent or subjacent Green River Formation sands.

Bonding:

Shenandoah Energy has established a Surety in the amount of \$80,000 dollars for plugging their wells.

Actions Taken and Further Approvals Needed:

A public notice for the injection well was published in both the Salt Lake Tribune and the Vernal Express newspapers. No objections to the application were received. The proposed maximum injection rate is 720 barrels per day and the proposed maximum injection pressure is 940 psig. The permittee will to hew to the conversion as proposed in the submitted application and will provide an annual Mechanical Integrity Test. **The permittee must provide the division with a legal affidavit attesting that they have sent a copy of the filed UIC Form 1 to each mineral and/or surface owner, including the State School and Institutional Trust Lands Administration (SITLA), within the AoR and inform them that a copy of the information submission is on file and available for public review at the offices of this division.**

Christopher J. Kierst
Reviewer

2/15/2001
Date



February 15, 2001

Mr. Chris Keirst
State of Utah
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84114-5801

RE: Glen Bench State #6-16-8-22
SENW Section 16-T8S-R22E
Uintah County, Utah
Surface Notice Affidavit

Mr. Keirst;

Enclosed is the notarized affidavit of mailing certifying that the surface owner's of the subject well location have been supplied with a copy of the application for injection. I have also included a copy of the letter submitted to the State of Utah School Lands Trust.

Included with these items is a copy of the bond log for the Glen Bench Unit 11-16 well and a copy of the MIT test results for the EPA permit.

If you have any questions, I can be reached at (303) 308-3052.

Sincerely,

Scott M. Webb
Regulatory Coordinator

FEB 21 2001

DIVISION OF
OIL, GAS AND MINING



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

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

UNDERGROUND INJECTION CONTROL PERMIT

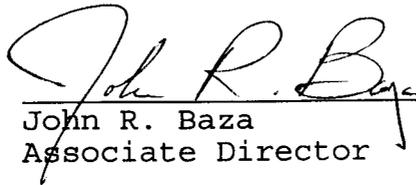
Cause No. UIC-252.1

Operator: Shenandoah Energy, Incorporated
Wells: Glen Bench State #6-16
Location: Section 16, Township 8 South, Range 22 East
(SLBM), Uintah County, Utah
API No.: 43-047-32549
Well Type: Water Flood Injection

Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on February 15, 2001
2. Maximum Allowable Injection Pressure: 940 psig
3. Maximum Allowable Injection Rate: 720 BWPD
4. Injection Interval: 5,106 feet to 5,111 feet (Green River Formation)

Approved by:


John R. Baza
Associate Director

2/21/01
Date



star Exploration and Production Company
Independence Plaza
1050 17th Street, Suite 500
Denver, CO 80265
Tel 303 672 6900 • Fax 303 294 9632

Denver Division

May 28, 2003

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

Attention: John Baza/Jim Thompson

Gentlemen:

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

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

Yours truly,

Frank Nielsen
Division Landman

Enclosure

RECEIVED

JUN 02 2003

DIV. OF OIL, GAS & MINING



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

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

IN REPLY REFER TO
UT-922

June 9, 2003

QEP Uinta Basin, Inc.
1050 17th Street, Suite 500
Denver, Colorado 80265

Re: Glen Bench Enhanced Recovery Unit
Uintah County, Utah

Gentlemen:

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

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

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

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

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks
Chief, Branch of Fluid Minerals

Enclosure

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

UT922:TAThompson:tt:6/9/03

JUL 07 2003

3104 (932.34)WF
Nationwide Bond ESB000024

NOTICE

QEP Uinta Basin, Inc.
1050 17th Street Suite 500
Denver, Colorado 80265

:
: Oil and Gas
: lease
:

Name Change Recognized

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

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

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

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

S/ Wilbert B. Forbes

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

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

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: Regional Services Manager

Approval Date: 9-10-03

Comments: CAUSE # 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:		2/1/2003
FROM: (Old Operator):	TO: (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:

WELL(S)									
NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS	Confid
BRENNAN BOTTOM UNIT									
BRENNAN FED 5	18	070S	210E	4304715420	5261	Federal	WI	A	
BRENNAN FED 11	18	070S	210E	4304732772	5261	Federal	WI	A	
GLEN BENCH UNIT									
GLEN BENCH ST 12-16	16	080S	220E	4304732583	13727	State	WI	A	
GLEN BENCH ST 6-16	16	080S	220E	4304732549	13727	State	WI	A	
GLEN BENCH ST 7-16	16	080S	220E	4304732582	13727	State	WI	A	
GLEN BENCH U 15-19-8-22	19	080S	220E	4304732756	13727	Federal	WI	A	
GLEN BENCH FED 22-20	20	080S	220E	4304731356	13727	Federal	WI	A	
GYPSUM HILLS UNIT									
GYPSUM HILLS 12	19	080S	210E	4304732458	5355	Federal	WI	A	
COSTAS FED 1-20-4B	20	080S	210E	4304731006	5355	Federal	WI	A	
COSTAS FED 2-20-3B	20	080S	210E	4304731066	5355	Federal	WI	A	
GYPSUM HILLS 15	20	080S	210E	4304732648	5355	Federal	WI	A	
GYPSUM HILLS 17	20	080S	210E	4304732649	5355	Federal	WI	A	
GYPSUM HILLS 3	20	080S	210E	4304720002	5355	Federal	WI	A	
GYPSUM HILLS 6	20	080S	210E	4304730099	5251	Federal	WI	A	
SRU 8-I	20	080S	210E	4304731932	5355	Federal	WI	A	
COSTAS FED 3-21-1D	21	080S	210E	4304731604	5355	Federal	WI	A	
GYPSUM HILLS 10	21	080S	210E	4304732306	5355	Federal	WI	A	

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

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

5. If NO, the operator was contacted ~~connected~~ 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:



S. L. Tomkinson
 Phone: 435-781-4308
 Fax: 435-781-4329
 Email: Stephanie.Tomkinson@questar.com



Questar Exploration and Production Company

11002 East 17500 South
 Vernal, UT 84078
 Tel 435 781 4300 • Fax 435 781 4329

November 30, 2005

Via Certified Mail: 7003 2260 0007 1318 6978

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

Return Receipt Requested

*RE: Mechanical Integrity Test (MIT)
 for
 GB 6-16
 EPA #UT2878-04539
 API #43-047-32549
 Location: SE,NW Section 16 T8S R22E*

Dear Mr. Wiser:

Enclosed for the subject well is a 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

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

RECEIVED

DEC 02 2005

DIV. OF OIL, GAS & MINING

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

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. Matt Baker

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 WITNESS: NONE DATE: 11/22/2005 TIME: 9:00 AM PM

TEST CONDUCTED BY: Dennis J. Paulson (Questar)

OTHERS PRESENT: Daie Urban (Advantage oilfiled services)

API NUMBER: 43-047-32549 EPA ID NUMBER: UT2878-04539

WELL NAME: <u>GLEN BENCH 6-16</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>SENW SECT. 16-T8S-R22E</u>		<input type="checkbox"/> N <input type="checkbox"/> S	<input 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>4-Dec-00</u>		MAXIMUM ALLOWABLE PRESSURE: <u>1385</u>		PSIG

IS THIS A REGULAR SCHEDULED TEST? YES NO

INITIAL TEST FOR PERMIT? YES NO

TEST AFTER WELL WORK? YES NO

WELL INJECTING DURING TEST? YES NO IF YES, RATE: 77 BPD

PRE-TEST CASING/TUBING ANNULUS PRESSURE: 0 PSIG

MIT DATA TABLE TUBING	TEST #1 PRESSURE	TEST #2	TEST #3
INITIAL PRESSURE	1246 PSIG	PSIG	PSIG
END OF TEST PRESSURE	1251.2 PSIG	PSIG	PSIG

CASING/TUBING	ANNULUS	TUBING
0 MINUTES	1048.5 @9:07:41 PSIG	1246.5 PSIG
5 MINUTES	1145.6 @9:12:49 PSIG	1240.9 PSIG
10 MINUTES	1145.7 @9:17:57 PSIG	1242.6 PSIG
15 MINUTES	1145.3 @9:22:51 PSIG	1243.6 PSIG
20 MINUTES	1145.5 @9:27:45 PSIG	1246.7 PSIG
25 MINUTES	1145.3 @9:32:53 PSIG	1242.4 PSIG
30 MINUTES	1145.3 @9:37:47 PSIG	1251.2 PSIG
MINUTES	PSIG	PSIG
MINUTES	PSIG	PSIG
RESULT	<input checked="" 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

5000 PSIG		24904-2		6 OCT		5		CASING	TUBING	AMBIENT
Time	MONTH	YEAR	TIME	FILE	SAMPLE	PSIG	PSIG	PSIG	PSIG	TEMP.
	22 NOV	2005	9:03:15	2	1		0			43
	22 NOV	2005	9:03:29	2	2		0			43
	22 NOV	2005	9:03:43	2	3		0			43
	22 NOV	2005	9:03:57	2	4		0			43
	22 NOV	2005	9:04:11	2	5		0			43
	22 NOV	2005	9:04:25	2	6		0			43
	22 NOV	2005	9:04:39	2	7		0			43
	22 NOV	2005	9:04:53	2	8		0			43
	22 NOV	2005	9:05:07	2	9		0			43
	22 NOV	2005	9:05:21	2	10		0			43
	22 NOV	2005	9:05:35	2	11		0			43
	22 NOV	2005	9:05:49	2	12		0			43
	22 NOV	2005	9:06:03	2	13		0			43
	22 NOV	2005	9:06:17	2	14		126.27			43
	22 NOV	2005	9:06:31	2	15		303.88			43
	22 NOV	2005	9:06:45	2	16		490.28			43
	22 NOV	2005	9:07:00	2	17		625.2			43
	22 NOV	2005	9:07:14	2	18		834.3			43
	22 NOV	2005	9:07:27	2	19		984.2			43
	22 NOV	2005	9:07:41	2	20		1048.5	1246.5		43
	22 NOV	2005	9:07:55	2	21		1139.8			43
	22 NOV	2005	9:08:09	2	22		1147.3			43
	22 NOV	2005	9:08:23	2	23		1148.7			43
	22 NOV	2005	9:08:37	2	24		1148.6			43
	22 NOV	2005	9:08:51	2	25		1148.2			43
	22 NOV	2005	9:09:05	2	26		1148			43
	22 NOV	2005	9:09:19	2	27		1147.6			43
	22 NOV	2005	9:09:33	2	28		1147.3			43
	22 NOV	2005	9:09:47	2	29		1147.1			43
	22 NOV	2005	9:10:01	2	30		1146.9			43
	22 NOV	2005	9:10:15	2	31		1146.7			43
	22 NOV	2005	9:10:29	2	32		1146.6			43
	22 NOV	2005	9:10:43	2	33		1146.4			43
	22 NOV	2005	9:10:57	2	34		1146.3			43
	22 NOV	2005	9:11:12	2	35		1146.1			43
	22 NOV	2005	9:11:26	2	36		1146			43
	22 NOV	2005	9:11:39	2	37		1145.9			43
	22 NOV	2005	9:11:53	2	38		1145.8			43
	22 NOV	2005	9:12:07	2	39		1145.8			43
	22 NOV	2005	9:12:21	2	40		1145.7			43
	22 NOV	2005	9:12:35	2	41		1145.6			43
	22 NOV	2005	9:12:49	2	42		1145.6	1240.9		43
	22 NOV	2005	9:13:03	2	43		1145.6			43
	22 NOV	2005	9:13:17	2	44		1145.6			43
	22 NOV	2005	9:13:31	2	45		1145.6			43
	22 NOV	2005	9:13:45	2	46		1145.6			43
	22 NOV	2005	9:13:59	2	47		1145.7			43
	22 NOV	2005	9:14:13	2	48		1145.7			43
	22 NOV	2005	9:14:27	2	49		1145.8			43

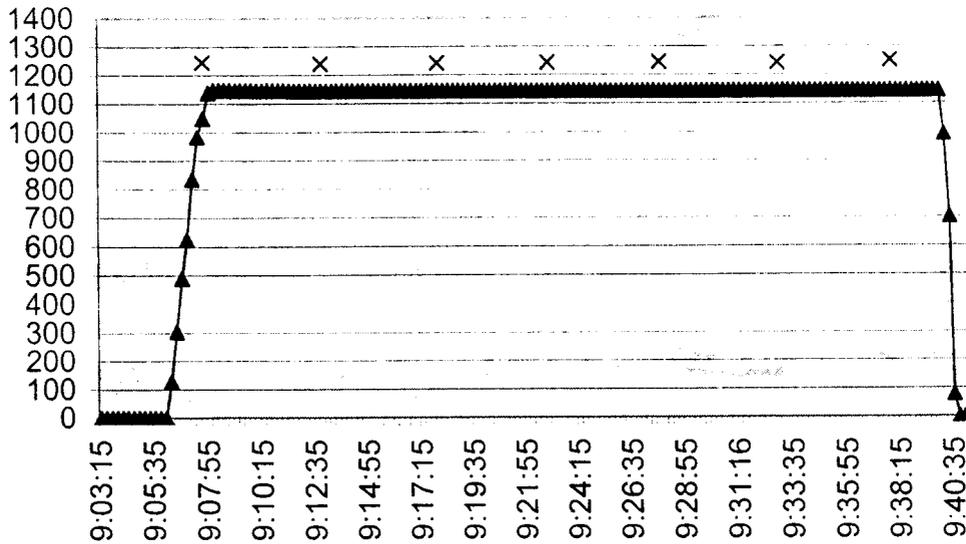
5000 PSIG		24904-2	6 OCT		5		CASING	TUBING	AMBIENT
Time	MONTH	YEAR	TIME	FILE	SAMPLE	PSIG	PSIG	TEMP.	
	22 NOV	2005	9:14:41		2	50	1145.8	43	
	22 NOV	2005	9:14:55		2	51	1145.8	43	
	22 NOV	2005	9:15:10		2	52	1145.8	43	
	22 NOV	2005	9:15:24		2	53	1145.7	43	
	22 NOV	2005	9:15:37		2	54	1145.7	43	
	22 NOV	2005	9:15:51		2	55	1145.7	43	
	22 NOV	2005	9:16:05		2	56	1145.7	43	
	22 NOV	2005	9:16:19		2	57	1145.7	43	
	22 NOV	2005	9:16:33		2	58	1145.8	43	
	22 NOV	2005	9:16:47		2	59	1145.7	43	
	22 NOV	2005	9:17:01		2	60	1145.7	43	
	22 NOV	2005	9:17:15		2	61	1145.8	43	
	22 NOV	2005	9:17:29		2	62	1145.7	43	
	22 NOV	2005	9:17:43		2	63	1145.7	43	
	22 NOV	2005	9:17:57		2	64	1145.7	1242.6	43
	22 NOV	2005	9:18:11		2	65	1145.7	43	
	22 NOV	2005	9:18:25		2	66	1145.6	43	
	22 NOV	2005	9:18:39		2	67	1145.6	43	
	22 NOV	2005	9:18:53		2	68	1145.5	43	
	22 NOV	2005	9:19:08		2	69	1145.5	43	
	22 NOV	2005	9:19:22		2	70	1145.4	43	
	22 NOV	2005	9:19:35		2	71	1145.5	43	
	22 NOV	2005	9:19:49		2	72	1145.4	43	
	22 NOV	2005	9:20:03		2	73	1145.4	43	
	22 NOV	2005	9:20:17		2	74	1145.4	43	
	22 NOV	2005	9:20:31		2	75	1145.4	43	
	22 NOV	2005	9:20:45		2	76	1145.4	43	
	22 NOV	2005	9:20:59		2	77	1145.4	43	
	22 NOV	2005	9:21:13		2	78	1145.4	43	
	22 NOV	2005	9:21:27		2	79	1145.4	43	
	22 NOV	2005	9:21:41		2	80	1145.3	43	
	22 NOV	2005	9:21:55		2	81	1145.3	43	
	22 NOV	2005	9:22:09		2	82	1145.3	43	
	22 NOV	2005	9:22:23		2	83	1145.4	43	
	22 NOV	2005	9:22:37		2	84	1145.3	43	
	22 NOV	2005	9:22:51		2	85	1145.3	1243.6	43
	22 NOV	2005	9:23:06		2	86	1145.3	43	
	22 NOV	2005	9:23:20		2	87	1145.3	43	
	22 NOV	2005	9:23:33		2	88	1145.3	43	
	22 NOV	2005	9:23:47		2	89	1145.3	43	
	22 NOV	2005	9:24:01		2	90	1145.3	43	
	22 NOV	2005	9:24:15		2	91	1145.4	43	
	22 NOV	2005	9:24:29		2	92	1145.3	43	
	22 NOV	2005	9:24:43		2	93	1145.4	43	
	22 NOV	2005	9:24:57		2	94	1145.4	43	
	22 NOV	2005	9:25:11		2	95	1145.5	43	
	22 NOV	2005	9:25:25		2	96	1145.4	43	
	22 NOV	2005	9:25:39		2	97	1145.5	43	
	22 NOV	2005	9:25:53		2	98	1145.5	43	

5000 PSIG		24904-2		6 OCT		5		CASING	TUBING	AMBIENT
Time	MONTH	YEAR	TIME	FILE	SAMPLE	PSIG	PSIG			TEMP.
	22 NOV	2005	9:26:07		2	99	1145.5			43
	22 NOV	2005	9:26:21		2	100	1145.5			43
	22 NOV	2005	9:26:35		2	101	1145.5			43
	22 NOV	2005	9:26:49		2	102	1145.5			43
	22 NOV	2005	9:27:04		2	103	1145.5			43
	22 NOV	2005	9:27:18		2	104	1145.5			43
	22 NOV	2005	9:27:31		2	105	1145.5			43
	22 NOV	2005	9:27:45		2	106	1145.5	1246.7		43
	22 NOV	2005	9:27:59		2	107	1145.5			43
	22 NOV	2005	9:28:13		2	108	1145.5			43
	22 NOV	2005	9:28:27		2	109	1145.6			43
	22 NOV	2005	9:28:41		2	110	1145.5			43
	22 NOV	2005	9:28:55		2	111	1145.5			43
	22 NOV	2005	9:29:09		2	112	1145.6			43
	22 NOV	2005	9:29:23		2	113	1145.6			43
	22 NOV	2005	9:29:37		2	114	1145.6			43
	22 NOV	2005	9:29:51		2	115	1145.6			43
	22 NOV	2005	9:30:05		2	116	1145.6			43
	22 NOV	2005	9:30:19		2	117	1145.5			43
	22 NOV	2005	9:30:33		2	118	1145.4			43
	22 NOV	2005	9:30:47		2	119	1145.4			43
	22 NOV	2005	9:31:02		2	120	1145.4			43
	22 NOV	2005	9:31:16		2	121	1145.4			43
	22 NOV	2005	9:31:29		2	122	1145.4			43
	22 NOV	2005	9:31:43		2	123	1145.4			43
	22 NOV	2005	9:31:57		2	124	1145.4			43
	22 NOV	2005	9:32:11		2	125	1145.4			43
	22 NOV	2005	9:32:25		2	126	1145.4			43
	22 NOV	2005	9:32:39		2	127	1145.3			43
	22 NOV	2005	9:32:53		2	128	1145.3	1242.4		43
	22 NOV	2005	9:33:07		2	129	1145.3			43
	22 NOV	2005	9:33:21		2	130	1145.3			43
	22 NOV	2005	9:33:35		2	131	1145.3			43
	22 NOV	2005	9:33:49		2	132	1145.3			43
	22 NOV	2005	9:34:03		2	133	1145.3			43
	22 NOV	2005	9:34:17		2	134	1145.3			43
	22 NOV	2005	9:34:31		2	135	1145.3			43
	22 NOV	2005	9:34:45		2	136	1145.3			43
	22 NOV	2005	9:35:00		2	137	1145.3			43
	22 NOV	2005	9:35:14		2	138	1145.2			43
	22 NOV	2005	9:35:27		2	139	1145.2			43
	22 NOV	2005	9:35:41		2	140	1145.2			43
	22 NOV	2005	9:35:55		2	141	1145.2			43
	22 NOV	2005	9:36:09		2	142	1145.2			43
	22 NOV	2005	9:36:23		2	143	1145.4			41
	22 NOV	2005	9:36:37		2	144	1145.4			41
	22 NOV	2005	9:36:51		2	145	1145.1			43
	22 NOV	2005	9:37:05		2	146	1145.3			41
	22 NOV	2005	9:37:19		2	147	1145.3			41

Time	MONTH	YEAR	TIME	FILE	SAMPLE	CASING PSIG	TUBING PSIG	AMBIENT TEMP.
22 NOV		2005	9:37:33		2	148	1145.3	41
22 NOV		2005	9:37:47		2	149	1145.3	41
22 NOV		2005	9:38:01		2	150	1145.2	41
22 NOV		2005	9:38:15		2	151	1145.2	41
22 NOV		2005	9:38:29		2	152	1145.4	41
22 NOV		2005	9:38:43		2	153	1145.5	41
22 NOV		2005	9:38:57		2	154	1145.4	41
22 NOV		2005	9:39:12		2	155	1145.5	41
22 NOV		2005	9:39:26		2	156	1145.4	41
22 NOV		2005	9:39:39		2	157	1145.4	41
22 NOV		2005	9:39:53		2	158	1145.4	41
22 NOV		2005	9:40:07		2	159	991.8	41
22 NOV		2005	9:40:21		2	160	700.6	41
22 NOV		2005	9:40:35		2	161	78.77	41
22 NOV		2005	9:40:49		2	162	0	41
22 NOV		2005	9:41:03		2	163	0	41

GLEN BENCH 6-16 MIT

▲ CASING PSIG
 × TUBING PSIG



Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

ROUTING

1. DJJ
2. CDW

Change of Operator (Well Sold)

X - Operator Name Change/Merger

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

1/1/2007

FROM: (Old Operator): N2460-QEP Uinta Basin, Inc. 1050 17th St, Suite 500 Denver, CO 80265 Phone: 1 (303) 672-6900	TO: (New Operator): N5085-Questar E&P Company 1050 17th St, Suite 500 Denver, CO 80265 Phone: 1 (303) 672-6900
-------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------

WELL NAME	CA No.	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED LISTS					*				

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/19/2007
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/16/2007
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 1/31/2005
- Is the new operator registered in the State of Utah: Business Number: 764611-0143
- (R649-9-2) Waste Management Plan has been received on: IN PLACE
- Inspections of LA PA state/fee well sites complete on: n/a
- Reports current for Production/Disposition & Sundries on: n/a
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 4/23/2007 BIA
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 4/23/2007
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: _____
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: _____

DATA ENTRY:

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

BOND VERIFICATION:

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

LEASE INTEREST OWNER NOTIFICATION:

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

COMMENTS: THIS IS A COMPANY NAME CHANGE.

SOME WELL NAMES HAVE BEEN CHANGED AS REQUESTED

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

4/30/2007 and 5/15/2007

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

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>1/1/2007</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Operator Name Change</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

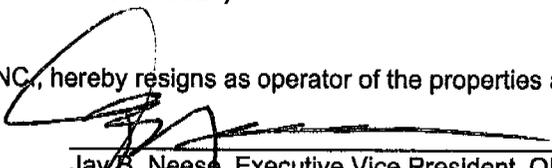
Effective January 1, 2007 operator of record, QEP Uinta Basin, Inc., will hereafter be known as QUESTAR EXPLORATION AND PRODUCTION COMPANY. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible for operations of the properties described on the attached list. All operations will continue to be covered by bond numbers:

Federal Bond Number: 965002976 (BLM Reference No. ESB000024)

Utah State Bond Number: 965003033

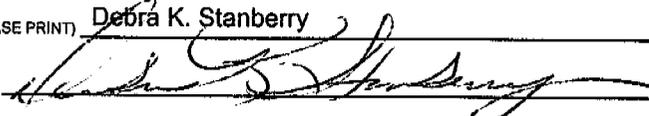
Fee Land Bond Number: 965003033

Current operator of record, QEP UINTA BASIN, INC., hereby resigns as operator of the properties as described on the attached list.


Jay B. Neese, Executive Vice President, QEP Uinta Basin, Inc.

Successor operator of record, QUESTAR EXPLORATION AND PRODUCTION COMPANY, hereby assumes all rights, duties and obligations as operator of the properties as described on the attached list


Jay B. Neese, Executive Vice President
Questar Exploration and Production Company

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

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APR 19 2007

DIV. OF OIL, GAS & MINING

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>1/1/2007</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
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	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Well Name Changes</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

PER THE ATTACHED LIST OF WELLS, QUESTAR EXPLORATION AND PRODUCTION COMPANY REQUESTS THAT THE INDIVIDUAL WELL NAMES BE UPDATED IN YOUR RECORDS.

NAME (PLEASE PRINT) <u>Debra K. Starberry</u>	TITLE	Supervisor, Regulatory Affairs
SIGNATURE	DATE	4/17/2007

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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

FROM: (Old Operator): N5085-Questar Exploration and Production Company 1050 17th St, Suite 500 Denver, CO 80265 Phone: 1 (303) 308-3048	TO: (New Operator): N3700-QEP Energy Company 1050 17th St, Suite 500 Denver, CO 80265 Phone: 1 (303) 308-3048
----------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------

CA No. Unit: GLEN BENCH ENH REC

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
GB 22-20	20	080S	220E	4304731356	13727	Federal	WI	A
GB 6-16	16	080S	220E	4304732549	13727	State	WI	A
GB 7-16	16	080S	220E	4304732582	13727	State	WI	A
GB 12-16	16	080S	220E	4304732583	13727	State	WI	A
GB 15-19-8-22	19	080S	220E	4304732756	13727	Federal	WI	A

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/28/2010
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/28/2010
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/24/2010
- Is the new operator registered in the State of Utah: Business Number: 764611-0143
- (R649-9-2) Waste Management Plan has been received on: Requested
- Inspections of LA PA state/fee well sites complete on: n/a
- Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 8/16/2010 BIA not yet
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 8/16/2010
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/29/2010

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 6/30/2010
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/30/2010
- Bond information entered in RBDMS on: 6/30/2010
- Fee/State wells attached to bond in RBDMS on: 6/30/2010
- Injection Projects to new operator in RBDMS on: 6/30/2010
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: ESB000024
- Indian well(s) covered by Bond Number: 965010693
- (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 965010695
- The **FORMER** operator has requested a release of liability from their bond on: n/a

LEASE INTEREST OWNER NOTIFICATION:

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

COMMENTS:

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

5. LEASE DESIGNATION AND SERIAL NUMBER:
See attached

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
See attached

7. UNIT or CA AGREEMENT NAME:
See attached

8. WELL NAME and NUMBER:
See attached

9. API NUMBER:
Attached

10. FIELD AND POOL, OR WILDCAT:
See attached

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

1. TYPE OF WELL OIL WELL GAS WELL OTHER _____

2. NAME OF OPERATOR:
Questar Exploration and Production Company *N5085*

3. ADDRESS OF OPERATOR:
1050 17th Street, Suite 500 CITY Denver STATE CO ZIP 80265 PHONE NUMBER: (303) 672-6900

4. LOCATION OF WELL
FOOTAGES AT SURFACE: See attached COUNTY: Attached
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH

11 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>6/14/2010</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
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	<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

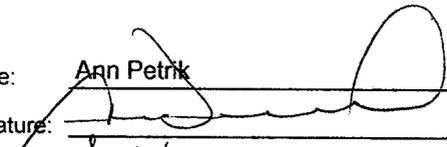
TRANSFER OF AUTHORITY TO INJECT

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

EFFECTIVE DATE OF TRANSFER: 6/14/2010

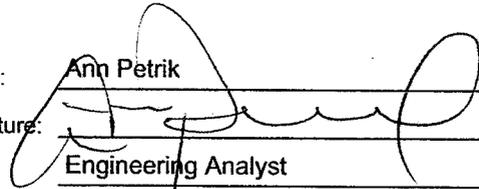
CURRENT OPERATOR

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

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

NEW OPERATOR

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

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

(This space for State use only)

Transfer approved by: _____
Title: _____

Approval Date: _____

Comments:

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

EPA approved well

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

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JUN 28 2010