

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

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)

FORM APPROVED
OSM NO. 1004-0136
Expires February 28, 1995

APPLICATION FOR PERMIT TO DRILL OR DEEPEN			5. LEASE DESIGNATION AND SERIAL NO. <p align="center">U-02025</p>		
1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME <p align="center">N/A</p>		
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			7. UNIT AGREEMENT NAME <p align="center">RED WASH</p>		
2. NAME OF OPERATOR Shenandoah Energy Inc.			8. FARM OR LEASE NAME, WELL NO. <p align="center">RW #11-29B</p>		
3. ADDRESS AND TELEPHONE NO. Phone: 435-781-4341 11002 East 17500 South Fax: 435-781-4329 Vernal, Utah 84078			9. API WELL NO.		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 786' FNL 819' FWL NENE- NWNW <i>4449457N</i> At proposed prod. zone Same <i>639904E</i>			10. FIELD AND POOL, OR WILDCAT <p align="center">RED WASH</p>		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 7 miles West of Redwash Utah			11. SEC., T., R., M., OR BLK AND SURVEY OR AREA <p align="center">Sec. 29, T7S, R23E, SLB&M</p>	12. COUNTY OR PARISH <p align="center">Utah</p>	13. STATE <p align="center">Utah</p>
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (also to nearest drig. Unit line if any) <p align="center">786'</p>		16. NO. OF ACRES IN LEASE <p align="center">1920</p>	17. NO. OF ACRES ASSIGNED TO THIS WELL <p align="center">40</p>		
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT. <p align="center">1320' ±</p>		19. PROPOSED DEPTH <p align="center">5847'</p>	20. ROTARY OR CABLE TOOLS <p align="center">Rotary</p>		
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5537.5 GR			22. APPROX. DATE WORK WILL START* <p align="center">A.S.A.P</p>		
23. PROPOSED CASING AND CEMENTING PROGRAM REFER TO S.O.P.					

Shenandoah Energy Inc. proposes to drill a well to 5847' to test the Green River. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

Operations will be according to the Standard Operating Procedures for the Red Wash Unit.

See Onshore Order No. 1 attached.

Please be advised that Shenandoah Energy Inc. is considered to be the operator of the above mentioned well. Shenandoah Energy Inc. agrees to be responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.

Bond coverage for this well is provided by Bond No. 0969. The principal is Shenandoah Energy Inc. via surety as consent as provided for in 43 CFR 3104.2.

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.

SIGNED John Busch John Busch TITLE Red Wash Operations Representative DATE June 8, 2000

(This space for Federal or State office use)
PERMIT NO. 43047-33590 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 Bradley G. Hill TITLE **BRADLEY G. HILL** DATE 6/2000
RECLAMATION SPECIALIST III

*See Instructions 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.

**Federal Approval of this
Action is Necessary**

RECEIVED

JUN 12 2000

DIVISION OF
OIL, GAS AND MINING

T7S, R23E, S.L.B.&M.

SHENANDOAH ENERGY, INC.

1937
Brass Cap

S89°58'W - 80.00 (G.L.O.)

S89°57'47"W - 2639.46' (Meas.)

S89°57'12"W - 2638.65' (Meas.)

1937
Brass Cap

1936
Brass Cap

785.8'

818.5'

**WELL LOCATION:
RED WASH #11-29B**

ELEV. UNGRADED GROUND = 5537.5'

29

1937
Brass Cap

N00°03'W (G.L.O.)

N00°04'W (G.L.O.)

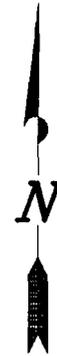
2640.34' (Measured)
N00°04'00"W (G.L.O.) Basis of Bearings

S89°59'W - 79.98 (G.L.O.)

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (RED WASH)

WELL LOCATION, RED WASH #11-29B,
LOCATED AS SHOWN IN THE NW 1/4 NW
1/4 OF SECTION 29, T7S, R23E,
S.L.B.&M. UTAH COUNTY, UTAH.

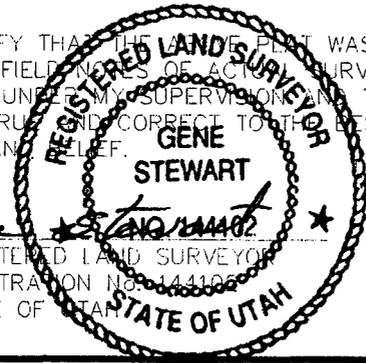


RECEIVED

JUN 12 2000

DIVISION OF
OIL, GAS AND MINING

THIS IS TO CERTIFY THAT THE LAND 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.



REGISTERED LAND SURVEYOR
REGISTRATION NO. 144106
STATE OF UTAH

TRI STATE LAND SURVEYING & CONSULTING

38 WEST 100 NORTH - VERNAL, UTAH 84078
(435) 781-2501

SCALE:	1" = 1000'	SURVEYED BY:	D.J.S.
DATE:	6/5/00	WEATHER:	FAIR
DRAWN BY:	B.J.S.	FILE #	

DRILLING PROGRAM

ONSHORE OIL & GAS ORDER NO. 1
Approval of Operations on Onshore
Federal Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

1. Formation Tops

The estimated tops of important geologic markers are as follows:

<u>Formation</u>	<u>Depth</u>	<u>Prod. Phase Anticipated</u>
Uinta	Surface	
Green River	3032'	
Mahogany Ledge	3904'	
Mesa	5672'	
TD (Green River)	5847'	Oil

2. Anticipated Depths of Oil Gas Water and Other Mineral Bearing Zones

The estimated depths at which the top and bottom of the anticipated water, oil, gas. Or other mineral bearing formations are expected to be encountered are as follows:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Oil/Gas	Green River	5847'

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

All water shows and water-bearing sands will be reported to the BLM in Vernal, Utah. Copies of State of Utah form OGC-8-X are acceptable. If no flows are detected, samples will be submitted to the BLM along with any water analyses conducted.

3. Anticipated Bottom Hole Pressures

Maximum anticipated bottom hole pressure equals approximately 2338.8 psi.

4. Surface Ownership

The well pad and access road are located on lands owned by the Federal Government.

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JUN 12 2000

DIVISION OF
OIL, GAS AND MINING

MULTI-POINT SURFACE USE & OPERATIONS PLAN

SHENANDOAH ENERGY INC.
RED WASH #11-29B
NW NW SEC. 29, T7S, R23E
UINTAH COUNTY, UTAH

See attached maps

Topo map A- Access routes

Topo map B- Proposed Access road

Topo map C- Location of wells within a one mile radius

Topo map D- Proposed pipeline

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JUN 12 2000

DIVISION OF
OIL, GAS AND MINING

Lessee's or Operator's Representative:

John Busch
Red Wash Operations Rep.
Shenandoah Energy Inc.
11002 East 17500 South
Vernal, Utah 84078
(435) 781-4341

Certification:

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil & Gas Orders, the approved plan of operations, and any applicable Notice to Lessees.

Shenandoah Energy Inc. will be fully responsible for the actions of their subcontractors.

A complete copy of the approved Application for Permit to Drill will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Shenandoah Energy Inc. its' contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

John Busch

John Busch
Red Wash Operations Representative

June 8, 2000

Date

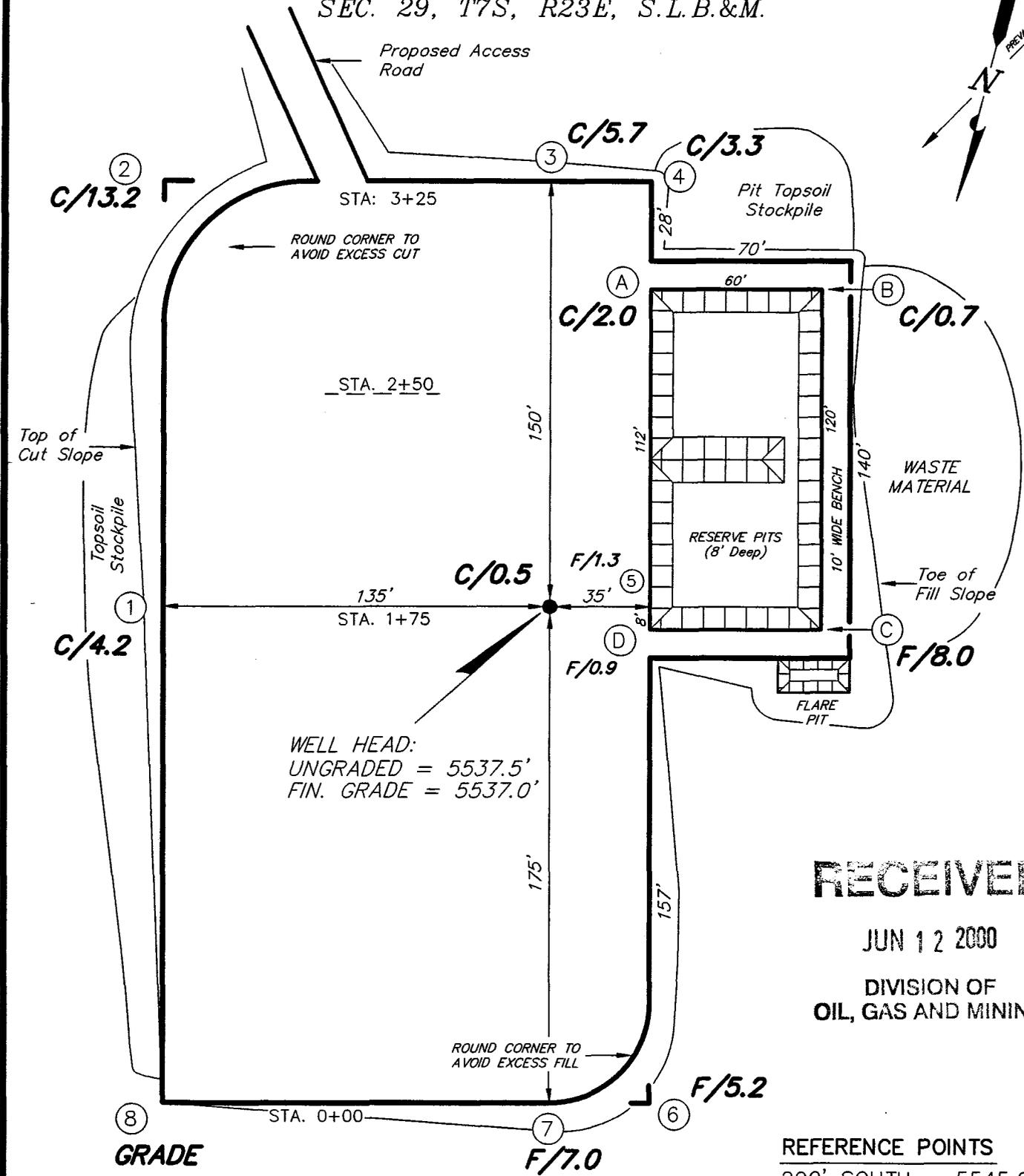
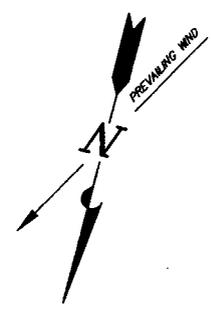
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JUN 12 2000

DIVISION OF
OIL, GAS AND MINING

SHENANDOAH ENERGY, INC.

RED WASH #11-29B
 SEC. 29, T7S, R23E, S.L.B.&M.



WELL HEAD:
 UNGRADED = 5537.5'
 FIN. GRADE = 5537.0'

RECEIVED
 JUN 12 2000
 DIVISION OF
 OIL, GAS AND MINING

REFERENCE POINTS
 200' SOUTH = 5545.0'
 245' SOUTH = 5548.2
 185' EAST = 5542.7'
 230' EAST = 5543.2'

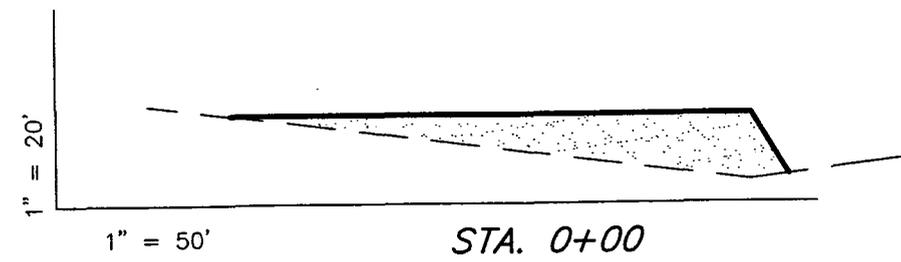
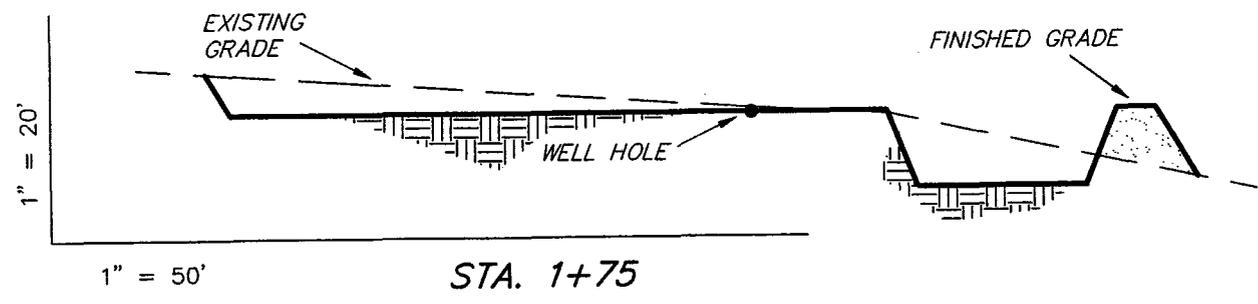
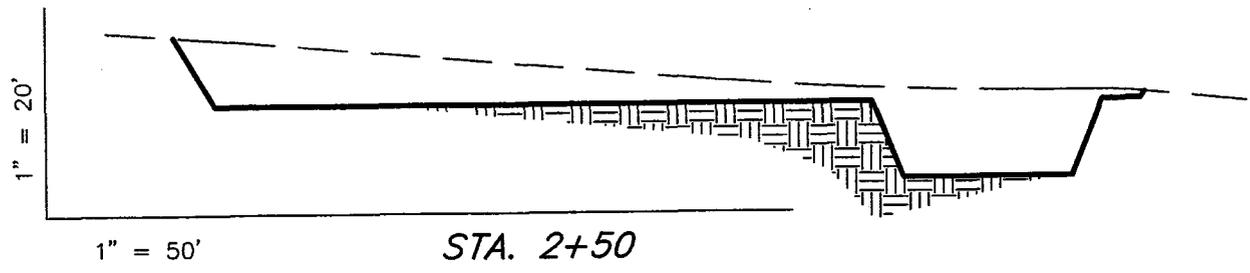
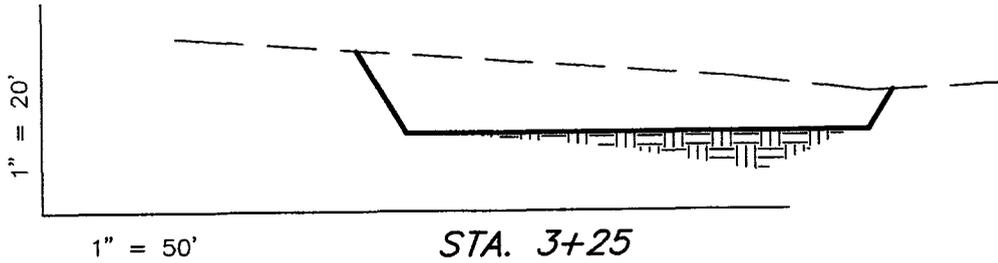
SURVEYED BY: D.J.S.	SCALE: 1" = 50'
DRAWN BY: B.J.S.	DATE: 6/5/00

Tri State
 Land Surveying, Inc.
 38 WEST 100 NORTH VERNAL, UTAH 84078
 (435) 781-2501

SHENANDOAH ENERGY, INC.

CROSS SECTIONS

RED WASH #11-29B



APPROXIMATE YARDAGES

- CUT = 4,200 Cu. Yds.
- FILL = 2,730 Cu. Yds.
- PIT = 1,630 Cu. Yds.
- 6" TOPSOIL = 1,200 Cu. Yds.

RECEIVED

JUN 12 2000

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OIL, GAS AND MINING

SURVEYED BY: D.J.S.

SCALE: 1" = 50'

DRAWN BY: B.J.S.

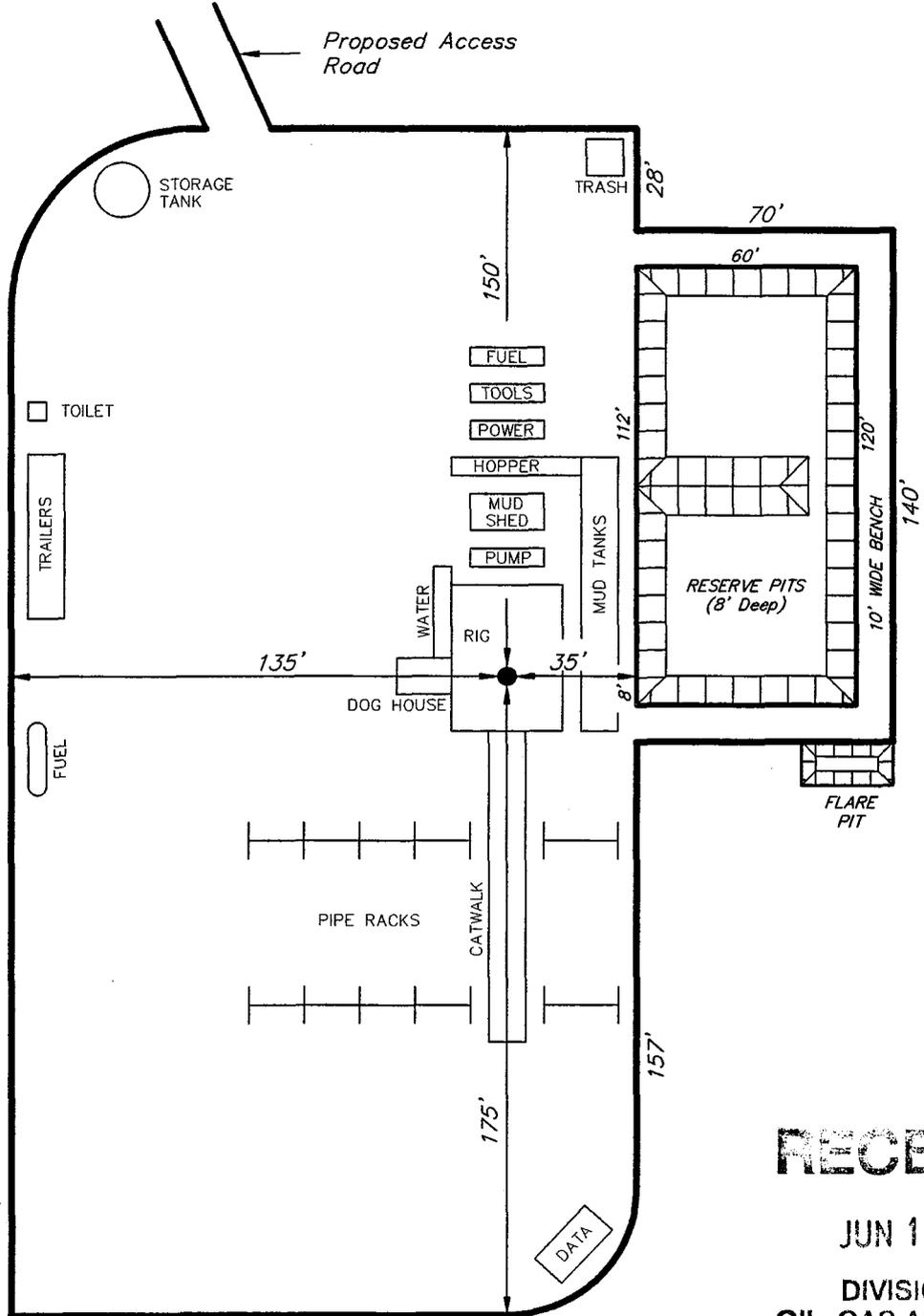
DATE: 6/5/00

Tri State
Land Surveying, Inc.
38 WEST 100 NORTH VERNAL, UTAH 84078
(435) 781-2501

SHENANDOAH ENERGY, INC.

TYPICAL RIG LAYOUT

RED WASH #11-29B

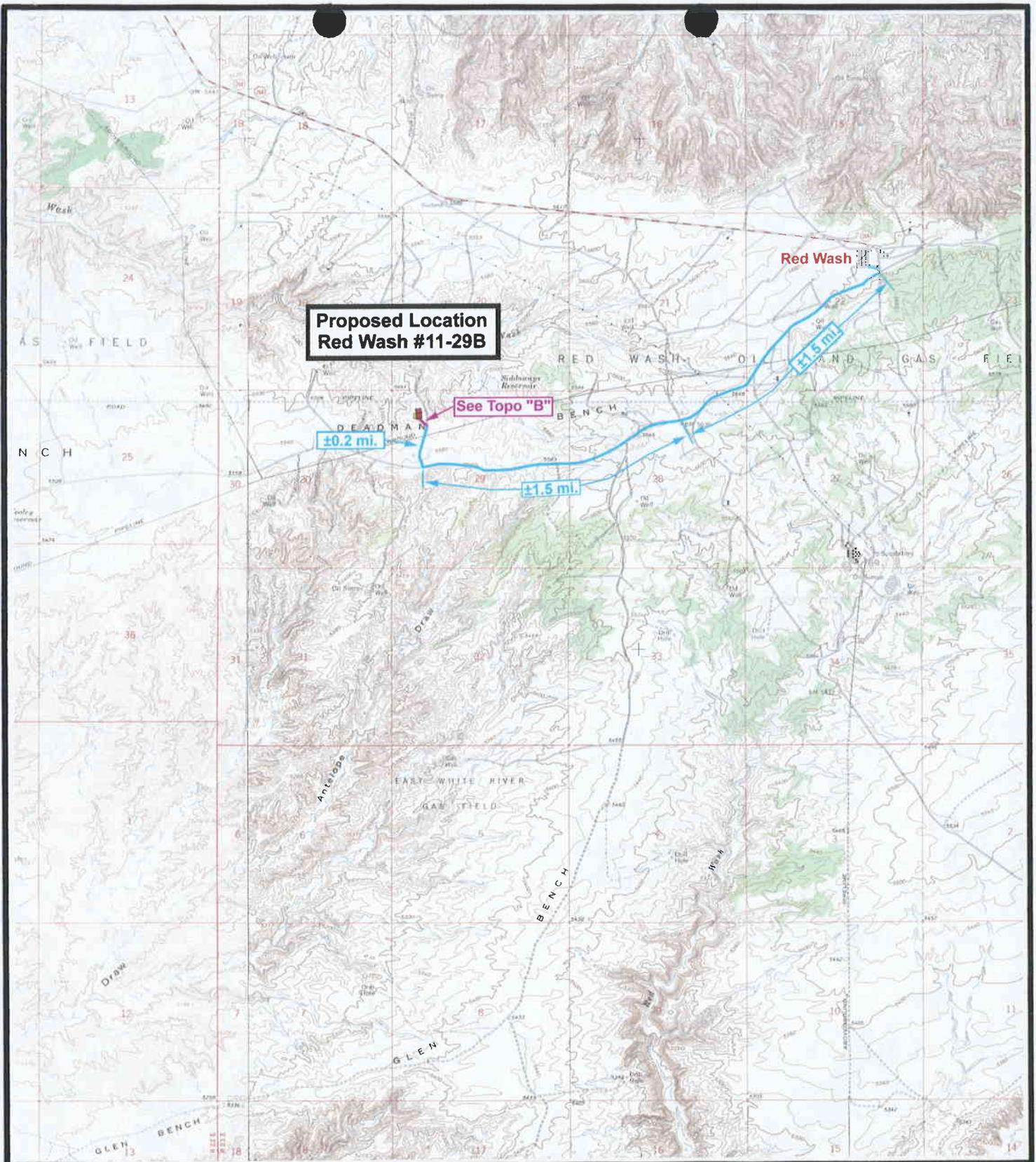


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JUN 12 2000

DIVISION OF OIL, GAS AND MINING

Tri State
Land Surveying, Inc.
(435) 781-2501
38 WEST 100 NORTH, VERNAL, UTAH 84078



SHENANDOAH ENERGY INC.
RED WASH #11-29B
SEC. 29, T7S, R23E, S.L.B.&M.
TOPOGRAPHIC MAP "A"



Drawn By: SS

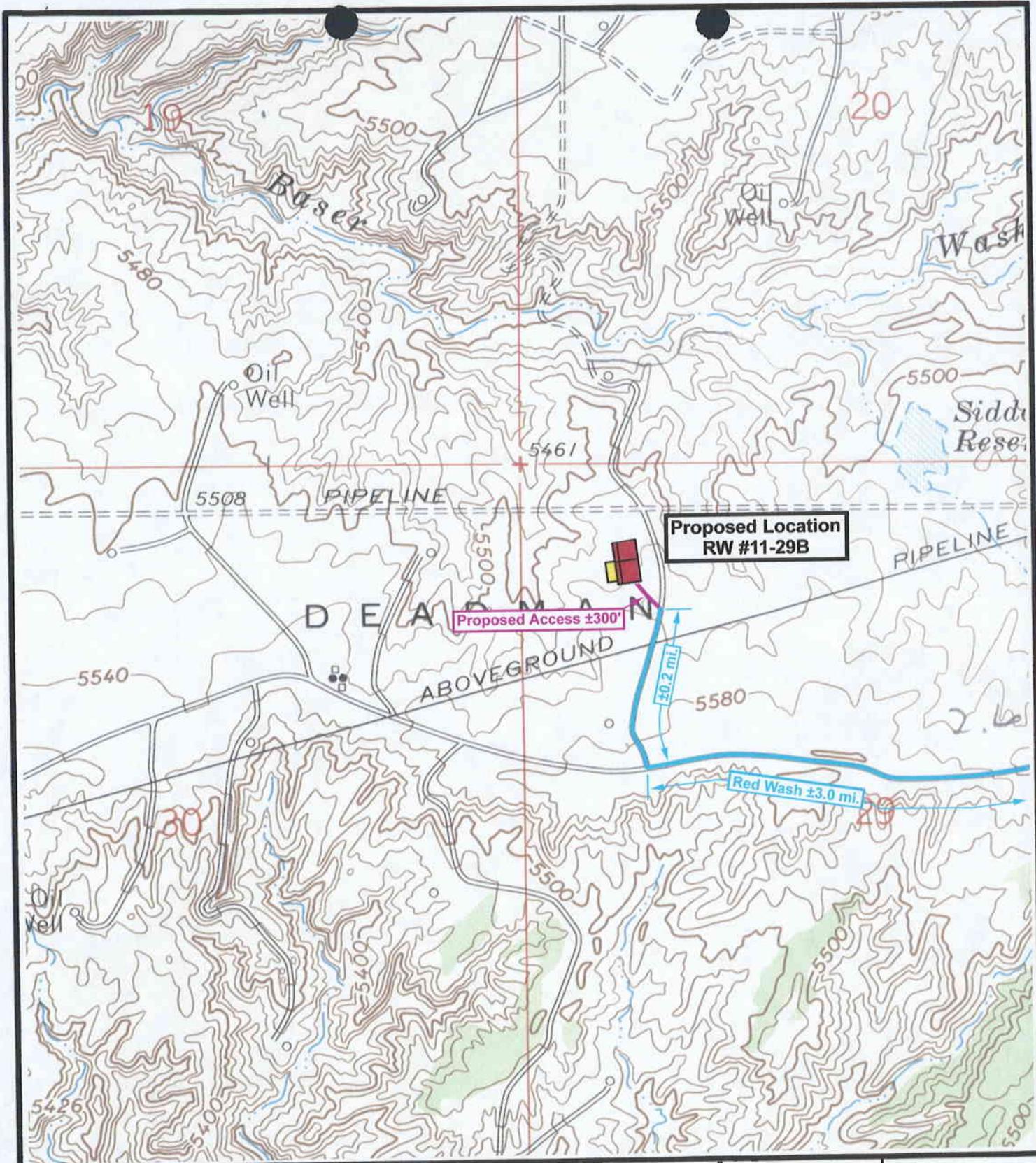
Revision:

Scale: 1" = 4000'

File:

Date: 6-6-00

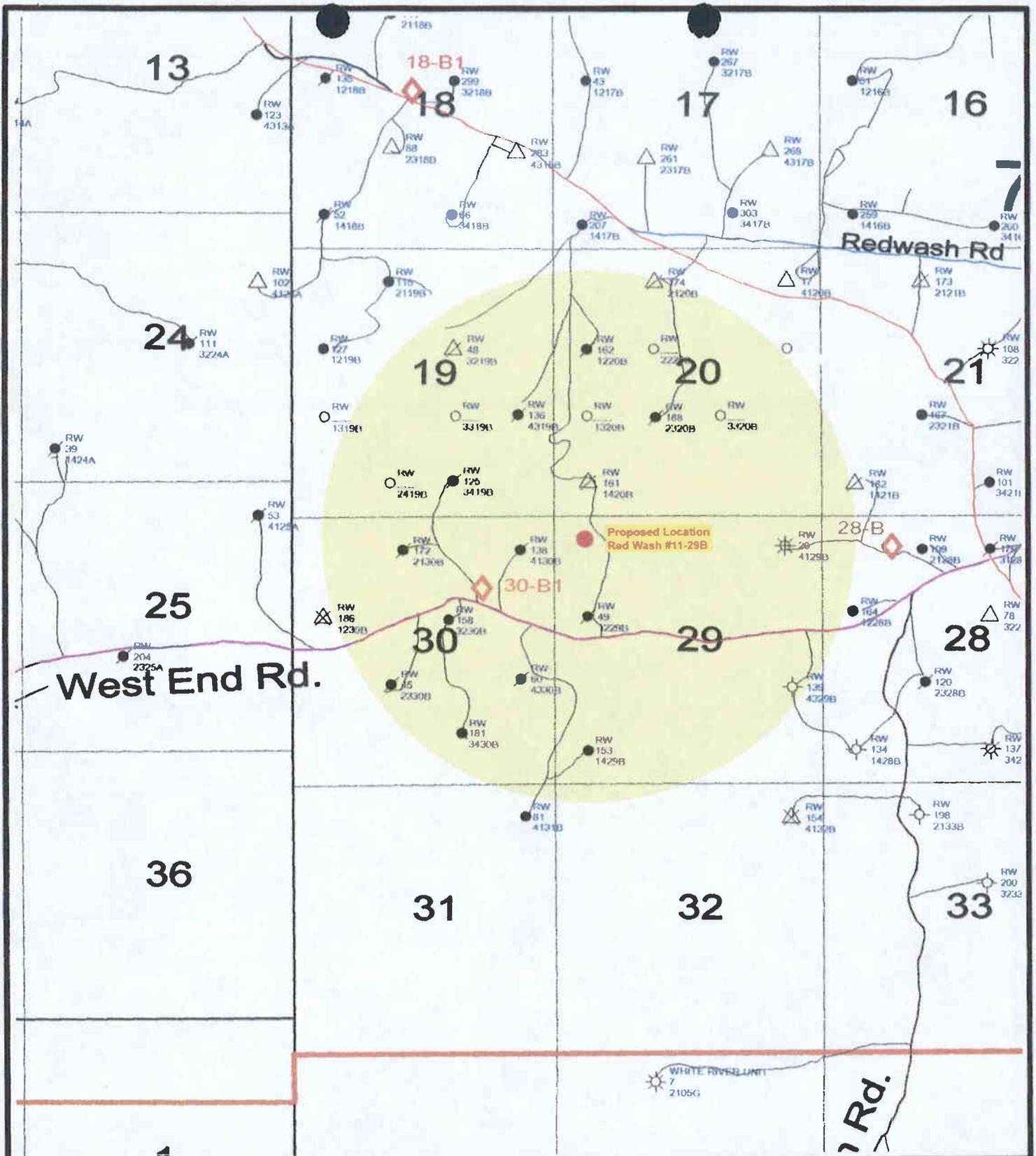
Tri-State Land Surveying Inc.
P.O. Box 533, Vernal, UT 84078
435-781-2501 Fax 435-781-2518



SHENANDOAH ENERGY INC.
RED WASH #11-29B
SEC. 29, T7S, R23E, S.L.B.&M.
TOPOGRAPHIC MAP "B"



Drawn By: SS	Revision:
Scale: 1" = 1000'	File:
Date: 5-26-00	
Tri-State Land Surveying Inc. P.O. Box 533, Vernal, UT 84078 435-781-2501 Fax 435-781-2518	



SHENANDOAH ENERGY INC.
RED WASH #11-29B
SEC. 29, T7S, R23E, S.L.B.&M.
TOPOGRAPHIC MAP "C"



Drawn By: SS

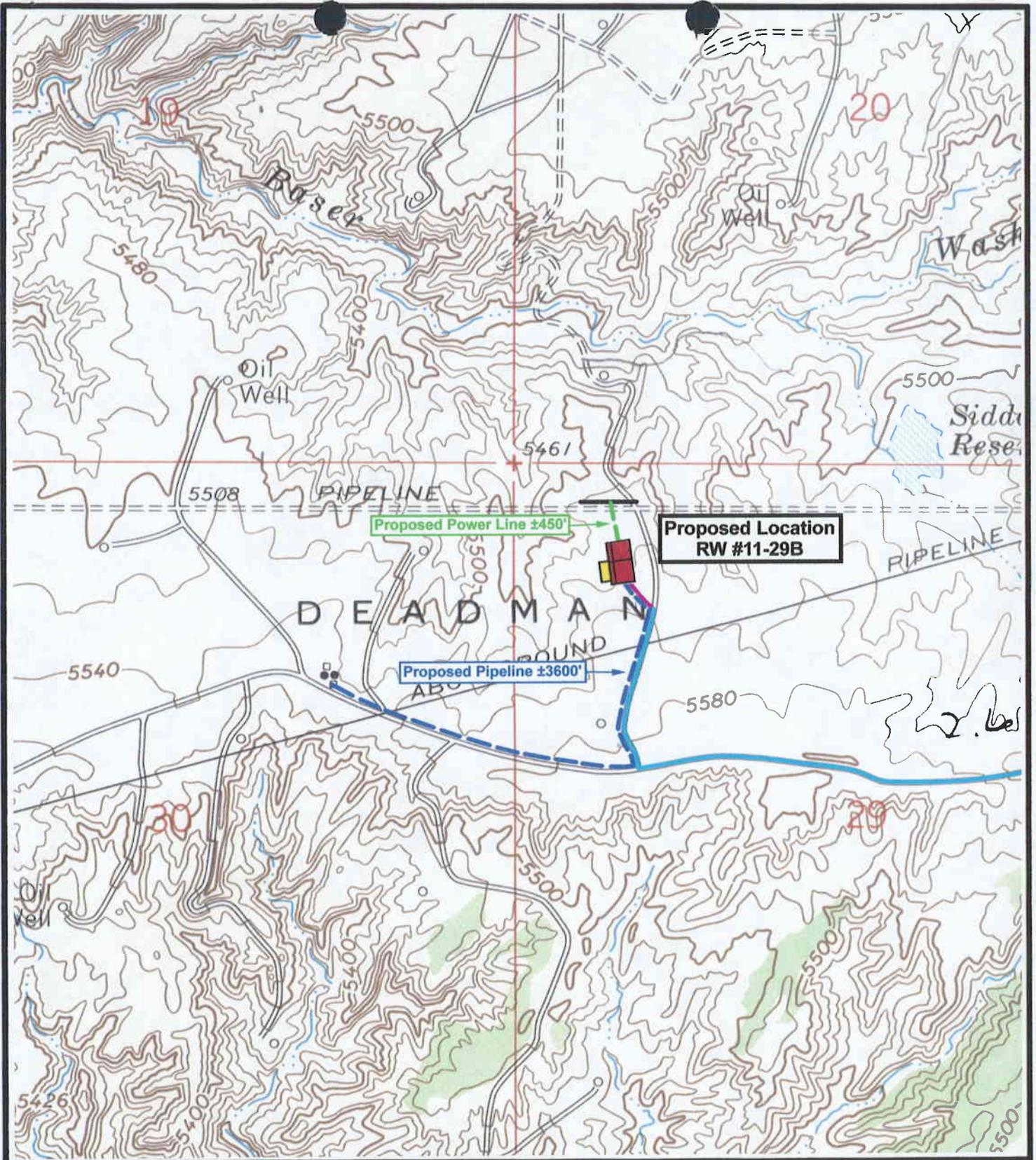
Revision:

Scale: 1" = 2640'

File:

Date: 6-6-00

Tri-State Land Surveying Inc.
 P.O. Box 533, Vernal, UT 84078
 435-781-2501 Fax 435-781-2518



SHENANDOAH ENERGY INC.

RED WASH #11-29B

SEC. 29, T7S, R23E, S.L.B.&M.

TOPOGRAPHIC MAP "D"



Drawn By: SS

Revision:

Scale: 1" = 1000'

File:

Date: 5-26-00

Tri-State Land Surveying Inc.
P.O. Box 533, Vernal, UT 84078
435-781-2501 Fax 435-781-2518

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 06/12/2000

API NO. ASSIGNED: 43-047-33590

WELL NAME: RWU 11-29B
 OPERATOR: SHENANDOAH ENERGY INC (N4235)
 CONTACT: JOHN BUSCH

PHONE NUMBER: 435-781-4341

PROPOSED LOCATION:

NWNW 29 070S 230E
 SURFACE: 0786 FNL 0819 FWL
 BOTTOM: 0786 FNL 0819 FWL
 UINTAH
 RED WASH (665)

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1-Federal
 LEASE NUMBER: U-02025
 SURFACE OWNER: 1-Federal

PROPOSED FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

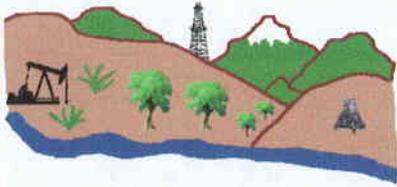
- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]
(No. UT-0969)
- N Potash (Y/N)
- N Oil Shale (Y/N) *190 - 5 (B)
- Water Permit
(No. 43-8496)
- N RDCC Review (Y/N)
(Date: _____)
- N/A Fee Surf Agreement (Y/N)

LOCATION AND SITING:

- R649-2-3. Unit Red Wash
- R649-3-2. General
Siting: _____
- R649-3-3. Exception
- Drilling Unit
Board Cause No: _____
Eff Date: _____
Siting: _____
- R649-3-11. Directional Drill

COMMENTS: * RWU "Standard Operating Procedure", Separate file.

STIPULATIONS: ① FEDERAL APPROVAL



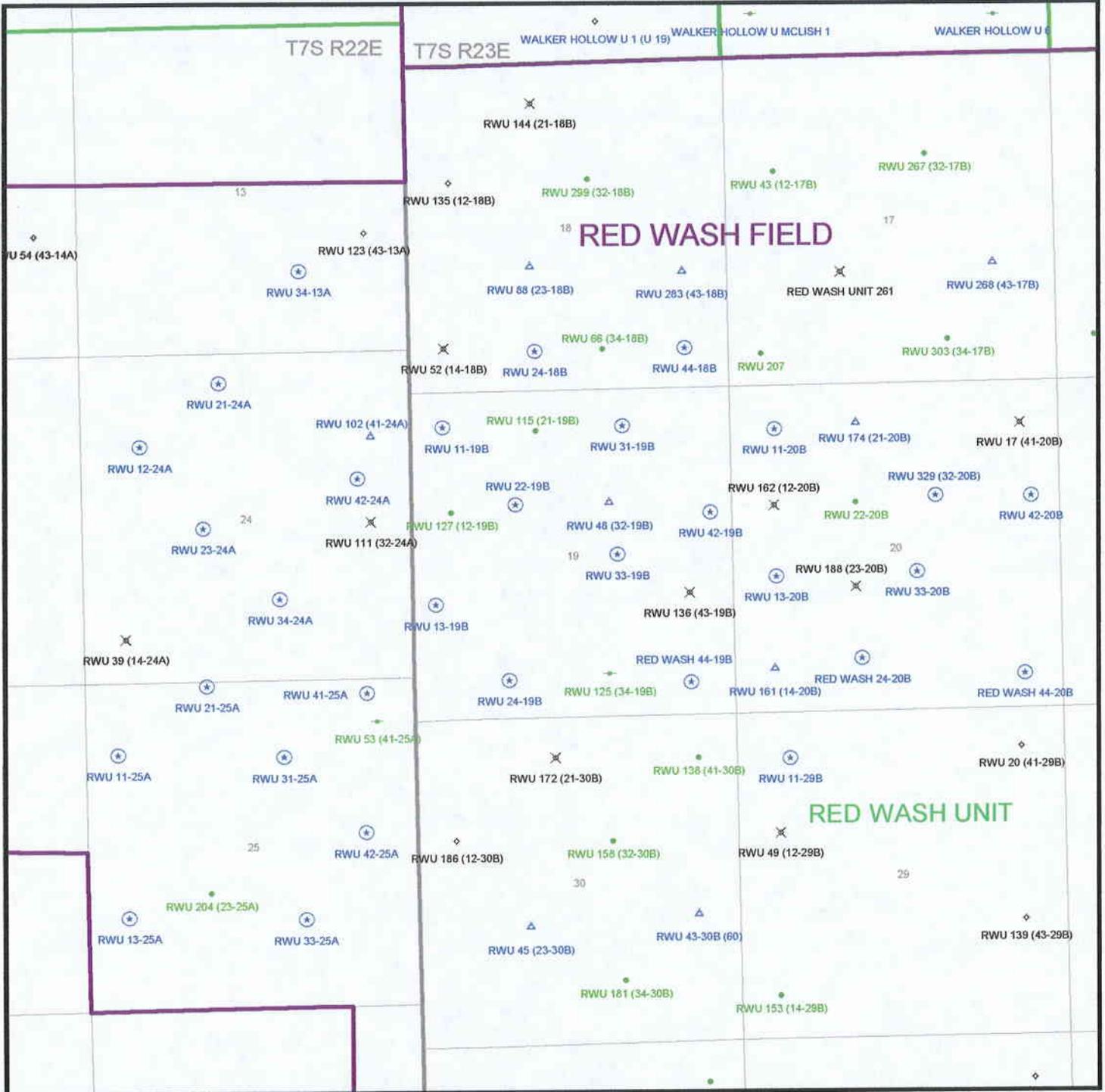
Utah Oil Gas and Mining

OPERATOR: SHENANDOAH ENERGY (N4235)

FIELD: RED WASH (665)

SEC. 13 & 24, T7S, R22E, SEC. 18 & 29, T7S, R23E

COUNTY: UINTAH UNIT: RED WASH



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

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

IN REPLY REFER TO:
3160
(UT-922)

June 19, 2000

Memorandum

To: Assistant District Manager Minerals, Vernal District
From: Michael Coulthard, Petroleum Engineer
Subject: 2000 Plan of Development Red Wash Unit,
Uintah County, Utah.

Pursuant to email between Lisha Cordova, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management. The following wells are planned for completion in the Green River Formation for calendar year 2000 within the Red Wash Unit, Uintah County, Utah.

Api Number	Well	Location
43-047-33590	RWU 11-29B	0786 FNL 0819 FWL Sec. 29, T7S, R23E
43-047-33591	RWU 12-24A	1528 FNL 0930 FWL Sec. 24, T7S, R22E
43-047-33592	RWU 21-24A	0499 FNL 2195 FWL Sec. 24, T7S, R22E
43-047-33593	RWU 34-13A	1302 FSL 1725 FEL Sec. 13, T7S, R22E
43-047-33594	RWU 44-18B	0660 FSL 0660 FEL Sec. 18, T7S, R23E

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Red Wash Unit
Division of Oil Gas and Mining
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:6-19-0



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)

June 20, 2000

Shenandoah Energy Inc
11002 East 17500 South
Vernal, UT 84078

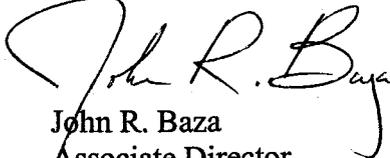
Re: Red Wash Unit 11-29B Well, 786' FNL, 819' FWL, NW NW, Sec. 29, T. 7 South,
R. 23 East, Uintah County, Utah

Gentlemen:

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-33590.

Sincerely,


John R. Baza
Associate Director

er
Enclosures

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

Operator: Shenandoah Energy Inc
Well Name & Number Red Wash Unit 11-29B
API Number: 43-047-33590
Lease: U-02025

Location: NW NW Sec. 29 T. 7 South R. 23 East

Conditions of Approval

1. General

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

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338
- Contact Robert Krueger at (801) 538-5274.

3. Reporting Requirements

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

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

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

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

FORM APPROVED
OBM NO. 1004-0136
EXPIRES FEBRUARY 28, 1993

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2. NAME OF OPERATOR Shenandoah Energy Inc.			8. FARM OR LEASE NAME, WELL NO. <p align="center">RW #11-29B</p>	
3. ADDRESS AND TELEPHONE NO. Phone: 435-781-4341 11002 East 17500 South Fax: 435-781-4329 Vernal, Utah 84078			9. API WELL NO.	
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21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5537.5 GR			22. APPROX. DATE WORK WILL START* <p align="center">A.S.A.P</p>	
23. PROPOSED CASING AND CEMENTING PROGRAM REFER TO S.O.P.				

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Bond coverage for this well is provided by Bond No. 0969. The principal is Shenandoah Energy Inc. via surety as consent as provided for in 43 CFR 3104.2.

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.

SIGNED John Busch John Busch TITLE Red Wash Operations Representative DATE June 8, 2000

RECEIVED
JUN 09 2000

NOTICE OF APPROVAL CONDITIONS OF APPROVAL ATTACHED

Application approval does not warrant or certify that the applicant holds legal or equitable title to these rights in the subject lease which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY Thomas B. Clauger Assistant Field Manager TITLE Mineral Resources DATE 8/30/00

*See Instructions 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.

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DIVISION OF
OIL, GAS AND MINING

DOG M

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Shenandoah Energy Inc.

Well Name & Number: RW 11-29B

API Number: 43-047-33590

Lease Number: U - 02025

Location: NWNW Sec. 29 T. 7S R. 23E

Agreement: RED WASH GR UNIT

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

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CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

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

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

A. DRILLING PROGRAM

1. Casing Program and Auxiliary Equipment

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the shallowest potential productive zone.

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**SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

-Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, (1989).

The road shall be constructed/upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Construction/upgrading shall include ditching, draining, and crowning (2 to 3%). Graveling or capping the roadbed will be required as necessary to provide a well constructed safe road. Prior to construction/upgrading, the proposed road surface or existing road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot right-of-way will not be allowed. Should mud holes develop, they shall be filled in to prevent detours. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainage be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. When snow is removed from the road during the winter months, the snow shall be pushed outside of the burrow ditches and the turnouts shall be kept clear so that when the snow melts the water will be channeled away from the road.

Blading is only authorized for the construction of new access roads and maintenance of existing roads. If any additional blading is needed then Shenandoah is required to consult with BLM for authorization and receive permission before blading.

Shenandoah Energy will control noxious weeds along the right-of-way for roads, pipelines, well sites or other applicable facilities. If noxious weeds spread from disturbed areas onto adjoining lands, Shenandoah shall be responsible for control of the infestation. A list of noxious weeds may be obtained from the BLM, or the appropriate County Extension Office. On BLM administered land it is required that a Pesticide Use Proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.

Shenandoah Energy shall proceed with the project but implement the following mitigating measures:

-4 to 6 inches of topsoil shall be stripped from the location and piled as shown on the cut sheet. This topsoil shall be seeded as described in the standard operating plan with the recommended seed mix shown below.

-The following seed mix shall be used to seed the topsoil pile, reserve pit and for final abandonment:

Fourwing saltbush	Atriplex canescens	4 lbs./acre
Needle and threadgrass	Stipa comata	4 lbs./acre
Western wheatgrass	Agropyron smithii	4 lbs/acre

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OIL, GAS AND MINING

All poundages are in pure live seed.

The seeding of the reserve pit shall be done in the same manner as the seeding of the topsoil pile. However, seeding of the location after final abandonment can be completed by drilling the seed, broadcasting the seed and dragging the location to cover the seed, or by broadcasting the seed then walking it in with a dozer.

All seeding shall be done immediately after the dirt work has been completed.

The reserve will be lined because it is near a large drainage. The reserve pit shall be lined with a plastic nylon reinforced liner. It will be a minimum of 12-mil thickness with sufficient bedding (either straw or dirt) to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that can puncture the liner will be disposed of in the pit.

Unless otherwise agreed to by the authorized officer in writing, powerlines shall be constructed in accordance with standards outlined in "Suggested Practices for Raptor Protection on Powerlines", (Raptor Research Foundation, Incorporated, 1981). Shenandoah shall construct the powerline in accordance with those standards or Shenandoah shall assume the burden and expense of proving pole designs not shown in the above publication are "eagle safe". Such proof shall be provided by a raptor expert approved by the authorized officer. The BLM reserves the right to require modifications or additions to all powerline structures placed on this route authorization, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by Shenandoah without liability or expense to the United States Department of the Interior. (BLM and/or BIA)

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DIVISION OF
OIL, GAS AND MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to deepen or reentry to a different reservoir
Use "APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
Oil Gas
 Well Well Other

2. Name of Operator
SHENANDOAH ENERGY, INC

3. Address and Telephone No
11002 E. 17500 S. VERNAL, UT 84078-8526 (801) 781-4300

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
786' FNL, 819' FWL, NW NW, SECTION 29, T7S, R23E, SLBM

5. Lease Designation and Serial No.
U-02025

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation
**RED WASH UNIT
8920007610**

8. Well Name and No.
Red Wash Unit 11-29B

9. API Well No.
43-047-33590

10. Field and Pool, or Exploratory Area
RED WASH - 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>SPUD DATE</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 WAS SPUD SEPTEMBER 16, 2000. DRILL 12 1/4" HOLE TO 458'. RAN 10 JOINTS OF 36# 9 5/8" CASING.

[Faint stamps and illegible text]

14. I hereby certify that the foregoing is true and correct.
Signed D. C. BEAMAN *Doris C. Beaman* Title OFFICE MANAGER Date 09/21/00

(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.

OPERATOR: **Shenandoah Energy, Inc.**
ADDRESS: **11002 East 17500 South
Vernal, Utah 84078-8526**

OPERATOR ACCT. No. 4235

(801)781-4300

ENTITY ACTION FORM - FORM 6

Action Code	Current Entity No.	New Entity No.	API Number	Well Name	QQ	SC	TP	RG	County	Spud Date	Effective Date
B	99999	05670	43-047-33590	Red Wash Unit 11-29B	NW NW	29	7S	23E	Uintah	9/16/00	9-16-00

WELL 1 COMMENTS:
New well drilled in the Red Wash Unit. 9-22-00

--	--	--	--	--	--	--	--	--	--	--	--

WELL 2 COMMENTS:

--	--	--	--	--	--	--	--	--	--	--	--

WELL 3 COMMENTS:

--	--	--	--	--	--	--	--	--	--	--	--

WELL 4 COMMENTS:

--	--	--	--	--	--	--	--	--	--	--	--

WELL 5 COMMENTS:

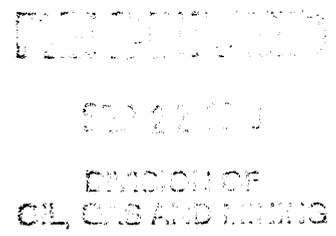
- ACTION CODES (See instructions on back of form)
- A - Establish new entity for new well (single well only)
 - B - Add new well to existing entity (group or unit well)
 - C - Re-assign well from one existing entity to another existing entity
 - D - Re-assign well from one existing entity to a new entity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

David C. Branan
Signature

Office Manager. 09/21/00
Title Date

Phone No. (801) 781-4306

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



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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Use "APPLICATION FOR PERMIT--" for such proposals

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6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation

8. Well Name and No.

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State
UINTAH, UTAH

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Gas

Well Well Other

2. Name of Operator
SHENANDOAH ENERGY INC.

3. Address and Telephone No.
11002 E. 17500 S. VERNAL, UT 84078-8526 (801) 781-4300

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

12. CHECK APPROPRIATE BOX(S) 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"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Confidential</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)

Shenandoah Energy Inc. would like to have the attached wells be kept confidential.

RECEIVED
OCT 11 2000
DIVISION OF
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct.
Signed JOHN BUSCH *John Busch* Title Operations Supervisor Date 10/9/00

(This space for Federal or State office use)

Approved by: _____ Title _____ Date _____

Conditions of approval, if any _____

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WELL NAME WELL LOCATION 1/4 1/4 SEC. SECTION TOWNSHIP RANGE API#

Red Wash	2220B**	SE NW	20	7S	23E	43-047-33491
Red Wash	4220B*	SE NE	20	7S	23E	43-047-33490
Red Wash	1320B*	NW SW	20	7S	23E	43-047-33498
Red Wash	3320B++	NW SE	20	7S	23E	43-047-33500
Red Wash	2221B	SE NW	21	7S	23E	43-047-33522
Red Wash	2419B	SE SW	19	7S	23E	43-047-33492
Red Wash	4419B	SE SE	19	7S	23E	43-047-33524
Wonsits Valley	6W-16-8-21	SE NW	16	8S	21E	43-047-33527
Gypsum Hills	10W-19-8-21	NW SE	19	8S	21E	43-047-33528
Wonsits Valley	16W-9-8-21	SE SE	9	8S	21E	43-047-33529
Wonsits Valley	6G-16-8-21	SE NW	16	8S	21E	43-047-33564
Gypsum Hills	10G-19-8-21	NW SE	19	8S	21E	43-047-33566
Wonsits Valley	16G-9-8-21	SE SE	9	8S	21E	43-047-33565
Red Wash	2420B	SE SW	20	7S	23E	43-047-33523
Red Wash	1319B	NW SW	19	7S	23E	43-047-33497
Red Wash	3319B	NW SE	19	7S	23E	43-047-33499
Red Wash	4420B	SE SE	20	7S	23E	43-047-33525
Red Wash	4219B	SE NE	19	7S	23E	43-047-33556
Red Wash	2219B	SE NW	19	7S	23E	43-047-33559
Red Wash	4224A	NE SE	24	7S	22E	43-047-33569
Red Wash	3424A	SW SE	24	7S	22E	43-047-33567
Red Wash	2324A	NE SW	24	7S	22E	43-047-33568
Red Wash	2125A	NE NW	25	7S	22E	43-047-33576
Red Wash	4125A	NE NE	25	7S	22E	43-047-33579
Red Wash	1119B	NW NW	19	7S	23E	43-047-33552
Red Wash	3119B	NW NE	19	7S	23E	43-047-33555
Red Wash	1120B	NW NW	20	7S	23E	43-047-33553
Red Wash	2418B	SE SW	18	7S	23E	43-047-33554
Red Wash	3413A	SW SE	13	7S	22E	43-047-33593
Red Wash	2124A	NE NW	24	7S	22E	43-047-33592
Red Wash	1224A	SW NW	24	7S	22E	43-047-33591
Red Wash	1125A	NW NW	25	7S	22E	43-047-33574
Red Wash	1325A	NW SW	25	7S	22E	43-047-33575
Red Wash	3125A	NW NE	25	7S	22E	43-047-33577
Red Wash	3325A	NW SE	25	7S	22E	43-047-33578
Red Wash	4225A	SE NE	25	7S	22E	43-047-33580
Red Wash	4418B	SE SE	18	7S	23E	43-047-33594
Red Wash	1129B	NW NW	29	7S	23E	43-047-33590
Wonsits Valley	9G-2-8-21	NE SE	2	8S	21E	43-047-33647
Wonsits Valley	9W-2-8-21	NE SE	2	8S	21E	43-047-33648
Wonsits Valley	16G-2-8-21	SE SE	2	8S	21E	43-047-33646
Wonsits Valley	16W-2-8-21	SE SE	2	8S	21E	43-047-33645
Wonsits Valley	15W-9-8-21	SW SE	9	8S	21E	43-047-33661
Wonsits Valley	15G-9-8-21	SW SE	9	8S	21E	43-047-33662
Wonsits Valley	2W-10-8-21	NW NE	10	8S	21E	43-047-33655
Wonsits Valley	2G-10-8-21	NW NE	10	8S	21E	43-047-33656
Wonsits Valley	12W-10-8-21	NW SW	10	8S	21E	43-047-33659

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DIVISION OF
OIL, GAS AND MINING

Wonsits Valley	12G-10-8-21	NW SW	10	8S	21E	43-047-33660
Wonsits Valley	4W-11-8-21	NW NW	11	8S	21E	43-047-33657
Wonsits Valley	4G-11-8-21	NW NW	11	8S	21E	43-047-33658
Wonsits Valley	2W-16-8-21	NW NE	16	8S	21E	43-047-33246
Wonsits Valley	2G-16-8-21	NW NE	16	8S	21E	43-047-33247
Wonsits Valley	12W-16-8-21	NW SW	16	8S	21E	43-047-33649
Wonsit Valley	12G-16-8-21	NW SW	16	8S	21E	43-047-33650
Red Wash	33U-19B	NW SE	19	7S	23E	43-047-33654
Red Wash	14-27A	SWSW	27	7S	22E	43-047-33150
Wonsits Valley	WV 1W-18-8-22	NE NE	18	8S	22E	43-047-33294
Wonsits Valley	WV 11W-8-8-22	NE SW	8	8S	22E	43-047-33295
Wonsits Valley	WV 5W-13-8-21	SW NW	13	8S	21E	43-047-33221
Wonsits Valley	WV 9W-13-8-21	NE SE	13	8S	22E	43-047-33223
Wonsits Valley	WV 7W-13-8-21	SW NE	13	8S	22E	43-047-33270
Wonsits Valley	WV 3W-8-8-22	NE NW	8	8S	22E	43-047-33493
Wonsits Valley	WV 5W-7-8-22	SW NW	7	8S	22E	43-047-33494
Wonsits Valley	WV 1W-14-8-21	NE NE	14	8S	21E	43-047-33220
Wonsits Valley	WV 11W-7-8-22	NE SW	7	8S	22E	43-047-33495
Wonsits Valley	WV 13W-7-8-22	SW SW	7	8S	22E	43-047-33496
Wonsits Valley	WV 7W-7-8-22	SW NE	7	8S	22E	43-047-33503
Wonsits Valley	WV 9W-12-8-21	NE SE	12	8S	21E	43-047-33534
Wonsits Valley	WV 3W-7-8-22	NE NW	7	8S	22E	43-047-33502
Wonsits Valley	WV 1W-13-8-21	NE NE	13	8S	21E	43-047-33532
Wonsits Valley	WV 11W-12-8-21	NE SW	12	8S	21E	43-047-33535
Wonsits Valley	WV 1W-7-8-22	NE NE	7	8S	22E	43-047-33501
Wonsits Valley	WV 1W-12-8-21	NE NE	12	8S	21E	43-047-33531
Wonsits Valley	Fed 9W-8-8-22	NE SE	8	8S	22E	43-047-33515
Wonsits Valley	WV 13W-12-8-21	SW SW	12	8S	21E	43-047-33537
Wonsits Valley	WV 3W-18-8-22	NE NW	18	8S	22E	43-047-33533
Wonsits Valley	WV 11W-13-8-21	NE SW	13	8S	21E	43-047-33536
Wonsits Valley	Fed 15W-8-8-22	SW SE	8	8S	22E	43-047-33517
Gypsum Hills	GH 1W-32-8-21	NE NE	32	8S	21E	43-047-33570
Gypsum Hills	GH 7W-32-8-21	SW NE	32	8S	21E	43-047-33573
Wonsits Valley	WV 3W-24-8-21	NE NW	24	8S	21E	43-047-33605
Gypsum Hills	GH 5W-32-8-21	SW NW	32	8S	21E	43-047-33572
Gypsum Hills	GH 3W-32-8-21	NE NW	32	8S	21E	43-047-33571
Wonsits Valley	WV 13W-18-8-22	SW SW	18	8S	22E	43-047-33538
Wonsits Valley	WV 15W-13-8-21	SW SE	13	8S	21E	43-047-33608
Wonsits Valley	WV 3W-13-8-21	NE NW	13	8S	21E	43-047-33603
Wonsits Valley	WV 13W-13-8-21	SW SW	13	8S	21E	43-047-33606
Wonsits Valley	WV 1W-21-8-21	NE NE	21	8S	21E	43-047-33602
Wonsits Valley	WV 9W-14-8-21	NE SE	14	8S	21E	43-047-33269
Glen Bench	GB 5W-17-8-22	SW NW	17	8S	22E	43-047-33514
Wonsits Valley	WV 1W-24-8-21	NE NE	24	8S	21E	43-047-33613
Wonsits Valley	WV 3W-22-8-21	NE NW	22	8S	21E	43-047-33604
Glen Bench	GB 9W-18-8-22	NE SE	18	8S	22E	43-047-33516
Wonsits Valley	WV 13W-14-8-21	SW SW	14	8S	21E	43-047-33607
Glen Bench	GB 3W-17-8-22	NE NW	17	8S	22E	43-047-33513
Wonsits Valley	WV 11W-18-8-22	NE SW	18	8S	22E	43-047-33626

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DIVISION OF
OIL, GAS AND MINING

Glen Bench	GB 3W-22-8-22	NE NW	22	8S	22E	43-047-33652
Glen Bench	GB 12W-30-8-22	NW SW	30	8S	22E	43-047-33670
White River	WR 13W-3-8-22	SW SW	3	8S	22E	43-047-33651

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OCT 11 2000

DIVISION OF
OIL, GAS AND MINING

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

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SUBMIT IN TRIPLICATE

1. Type of Well
Oil Gas
 Well Well Other

2. Name of Operator
SHENANDOAH ENERGY, INC

3. Address and Telephone No
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4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
786' FNL, 819' FWL, NW NW, SECTION 29, T7S, R23E, SLBM

5. Lease Designation and Serial No.
U-02025

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation
**RED WASH UNIT
8920007610**

8. Well Name and No.
Red Wash Unit 11-29B

9. API Well No.
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10. Field and Pool, or Exploratory Area
RED WASH - 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 PRODUCTION</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
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(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 PRODUCTION DECEMBER 16, 2000.

14. I hereby certify that the foregoing is true and correct.
Signed **D. C. BEAMAN** *Doris C Beaman* Title **OFFICE MANAGER** Date **01/10/01**

(This space for Federal or State office use)

Approved by: _____ Title _____ Date _____
Conditions of approval, if any _____

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Form 3160-4
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED
OMB No. 1004-0137
Expires November 30, 2000

5. Lease Serial No.
U-02025

1a. Type of Well: Oil Well Gas Well Dry Other
b. Type of Completion: New Well Workover Deepen Plug Back Diff. Resvr.
Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
8920007610

2. Name of Operator
SHENANDOAH ENERGY INC CONTACT: **J.T. CONLEY**
EMAIL: **jconley@shenandoahenergy.com**

8. Lease Name and Well No.
RWU #11-29B

3. Address **11002 EAST 17500 SOUTH** 3a. Phone No. (include area code)
VERNAL, UT 84078 TEL: **435.781.4300 EXT: 301**

9. API Well No.
4304733590

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At Surface **NWNW 786FNL 819FWL**

10. Field and Pool, or Exploratory
RED WASH

At top prod. interval reported below **NWNW 786FNL 819FWL**

11. Sec., T., R., M., on Block and Survey or Area **Sec 29 T7S R23E SLB**

At total depth **NWNW 786FNL 819FWL**

CONFIDENTIAL

12. County or Parish
UINTAH 13. State
UT

14. Date Spudded **9/16/00** 15. Date T.D. Reached **10/21/00** 16. Date Completed **12/13/00**
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
5538 GL

18. Total Depth: MD **5883** 19. Plug Back T.D.: MD **5866** 20. Depth Bridge Plug Set: MD
TVD TVD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
SPECTRAL DENSITY NEUTRON LOGS INDUCTION (CBL-VDI) - Rn 5-1-01
10-31-00 **10-31-00**

22. Was well cored? No Yes (Submit analysis)
Was DST run? No Yes (Submit report)
Directional Survey? No Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt.(#/ft.)	Top (MD)	Bottom (MD)	Stage Cemen- ter Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.25	9.625 K-55	36	0	450		175		0	
7.875	5.5 J-55	15.5	0	5879		785		2570	

24. Tubing Record

Size	Depth Set(MD)	Packer Depth(MD)	Size	Depth Set(MD)	Packer Depth(MD)	Size	Depth Set(MD)	Packer Depth(MD)
2.875	5715							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER	5506	5665	5506 To 5665			OPEN
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
5506 To 5513	SAND FRAC WITH 8,000 LBS IN 10,200 GALS
5613 To 5617	NONE
5622 To 5628	NONE(2)
5645 To 5647	NONE(3)
5663 To 5665	NONE(4)

CONFIDENTIAL
PERIOD
EXPIRED
ON 1-13-02

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
12/16/00	12/29/00	24	→	113	17	5			GAS PUMPING UNIT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	35	35	→					PRODUCING OIL WELL	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

RECEIVED

(See instructions and spaces for additional data on reverse side)
ELECTRONIC SUBMISSION #3342 VERIFIED BY THE BLM WELL INFORMATION SYSTEM FOR SHENANDOAH ENERGY INC SENT TO THE VERNAL FIELD OFFICE

APR 24 2001

DIVISION OF
OIL, GAS AND MINING

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

SOLD

30. Summary of Porous Zones (Include Aquifers):

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.

31. Formation (Log) Markers

Formation	Top	Bottom	Description, Contents, etc.	Name	Top
					Meas. Depth
GREEN RIVER	5506	5513	GX3	GREEN RIVER MAHOGANY	3032
GREEN RIVER(2)	5613	5617	LW4		3904
GREEN RIVER(3)	5622	5628	LW4		
GREEN RIVER(4)	5645	5647	LY2		
GREEN RIVER(5)	5663	5665	MESA		

32. Additional remarks (include plugging procedure):

**CONFIDENTIAL - TITE HOLE
DO NOT RELEASE WELL INFORMATION WITHOUT PERMISSION FROM SHENANDOAH ENERGY INC.**

CONFIDENTIAL

33. Circle enclosed attachments:

- 1. Electrical/Mechanical Logs (1 full set req'd.)
- 2. Geologic Report
- 3. DST Report
- 4. Directional Survey
- 5. Sundry Notice for plugging and cement verification
- 6. Core Analysis
- 7. Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Name (please print) JT Conley Title District Manager

Signature *JT Conley* Date 02-01-01

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and wilfully to make to any department or agency of the United States and false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

ELECTRONIC SUBMISSION #3342 VERIFIED BY THE BLM WELL INFORMATION SYSTEM FOR SHENANDOAH ENERGY INC SENT TO THE VERNAL FIELD OFFICE

RECEIVED

APR 04 2001

DIVISION OF
OIL, GAS AND MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

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.

5. Lease Serial No.
U-02025

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA/Agreement, Name and/or No.
RED WASH UNIT

8. Well Name and No.
RWU 11-29B

9. API Well No.
43-047-33590

10. Field and Pool, or Exploratory
RED WASH

11. County or Parish, and State
UINTAH COUNTY, UT

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
SHENANDOAH ENERGY
Contact: DAHN CALDWELL
E-Mail: dcaldwel@shenandoahenergy.com

3a. Address
11002 E. 17500 S.
VERNAL, UT 84078

3b. Phone No. (include area code)
Ph: 435.781.4342
Fx: 435.828.5044

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 29 T7S R23E NWNW 786FNL 819FWL

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"/> Other
	<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	

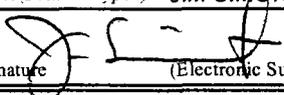
13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a 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.)

Proposal for conversion to Injection Well (See Attachment).

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

14. I hereby certify that the foregoing is true and correct.
**Electronic Submission #10920 verified by the BLM Well Information System
For SHENANDOAH ENERGY, sent to the Vernal**

Name (Printed/Typed) JIM SIMONTON Title COMPLETION MANAGER

Signature  (Electronic Submission) Date 03/26/2002

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ Title _____ Date 3/26/2002

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 DIVISION OF OIL GAS AND MINING

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.

**** ORIGINAL ** ORIGINAL ****

CONFIDENTIAL

RWU #11-29B
Red Wash Field
NWNW S29-T7S-R23E
Uintah County, Utah
API # 43-047-33590
AFE#

Narrative:

This well was drilled in October 2000 and completed in December of 2000 with an initial production via rod pump of 113 BOD; 5 BWD and 17 MCFD. The wellbore consists of perfs. in the Gx3; Lw4 (2 sets); Ly2 and Mesa zones. The proposal to convert this well into an injection well will be performed by injecting into the existing zones in the wellbore. A bottom hole pressure (BHP) survey will be conducted prior to injection along with an MIT test.

TD @ 5883'
Casing Shoe @ 5879'
Float Collar @ 5865'

Conversion Procedure

1. MIRU completion rig. POOH with rods and pump and lay down the same. NU BOP's. POOH with 2-7/8" tubing. RIH with 4-3/4" bit and 5-1/2" csg. scraper and tbg. to PBTD of ~5866'. Circulate the hole with hot 2% KCL water and POOH with bit and scraper.
2. Set Arrowset pkr. at ~5450' after circulating packer fluid.
3. Perform MIT test of casing to >1000# and run a BHP survey with bombs hanging at ~5500'.
4. Turn well over to production department to start well injection.

INJECTION WELL DATA RWU				
WELL: <u>11-29B</u> Date: <u>02/22/02</u>				
OPEN PERFS CURRENT	ZONE	FINAL INJECTION ZONES	ACTION	COMMENTS
5506-13'	Eu6 Ev5 Gt7 Gu6 Gu6b Gv5 Gw4 Gx3 Gy2	5506-13' 5530-35'	perf this zone	
5613-17, 5622-28	Lt7 Lu6 Lv5 Lv5b Lw4 Lx3	5570-76'	perf this zone Squeeze	
5645-47'	Ly2	5645-47'		
5663-65'	Mesa Mesa	5663-65'		

ACTION

1. Squeeze Lw4 intervals 5613-17 & 5622-28'
2. Perforate Lv5 interval 5570-76'
3. Perforate Gy2 interval 5530-35'
4. Breakdown new perfs
5. Equip well, hook-up, MIT, and commence injection

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well
Oil Gas
 Well Well Other

2. Name of Operator
SHENANDOAH ENERGY INC.

3. Address and Telephone No. Contact: **dcaldwell@shenandoahenergy.com**
11002 E. 17500 S. VERMIL, UT 84078-8526 **435-781-4342 Fax 435-828-5044**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 29 T7S R23E NWNW 786' FNL, 819' FWL

5. Lease Designation and Serial No.
U-02025

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation
RED WASH UNIT

8. Well Name and No.
RWU 11-29B

9. API Well No.
43-047-33590

10. Field and Pool, or Exploratory Area
RED WASH

11. County or Parish, State
UINTAH COUNTY, UTAH

12. CHECK APPROPRIATE BOX(S) 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"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input 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 checked="" 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)

REVISION OF SUNDRY SENT ON 3/26/02 AND APPROVED ON 3/27/02.
Proposal for conversion to Injection Well. (See Attachment.)

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

RECEIVED

APR 11 2002

DIVISION OF
OIL, GAS AND MINING

3 - BLM, 2- Utah OG&M, 1 - Denver, 1 - file Word file-server

14. I hereby certify that the foregoing is true and correct.
Signed **Jim Simonton** Title **Completion Manager** Date **4/10/02**

(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.

CONFIDENTIAL

RWU #11-29B
Red Wash Field
NWNW S29-T7S-R23E
Uintah County, Utah
API # 43-047-33590
AFE#

Narrative:

This well was drilled in October 2000 and completed in December 2000 with an IP production via rod pump of 113 BOD; 5 BWD and 17MCFD. The wellbore consists of perfs.in the Gx3; Lw4(2 sets); Ly2 and Mesa zones. The proposal to convert this well into an injection well will be performed by squeezing the Lw4 zones and perforating the Gy2 (5530-35') and the Lv5 (5570-76') and running a packer and tbg.and initiate injection into the Gx3; Gy2; Lv5; Ly2 and Mesa zones. A bottom hole pressure (BHP) survey will be conducted prior to injection along with an MIT test.

TD @ 5883'
Casing Shoe @ 5879'
PBSD @ 5865'(FC)

Conversion Procedure

1. MIRU completion rig. POOH with rods and pump and lay down. NU BOP's. POOH with 2-7/8" tbg.string and RIH with 4-3/4" bit and 5-1/2" csg.scrapers and tbg. to PBSD of ~5865'. Circulate the hole with hot 2% KCL water and POOH with bit and scraper.
2. RIH with ret.pkr.and ret.BP and set RBP at ~5640' and pkr.at ~5580' and squeeze Lw4 zones 5613-17' and 5622-28'. Drill out and test to 1200#.
3. RIH with injection tubulars as follows:
Arrowset ret.pkr.; 1 jt; SN; rest of 2-7/8" tbg.to surface.
4. Set pkr.at ~5450' after circulating packer fluid.
5. Perform MIT test of casing to >1000# and run a BHP survey with bombs hanging at ~5630'.
6. Turn well over to production department to start well injection.

INJECTION WELL DATA RWU				
WELL: <u>11-29B</u>		Date: <u>02/22/02</u>		
OPEN PERFS CURRENT	ZONE	FINAL INJECTION ZONES	ACTION	COMMENTS
5506-13'	Eu6 Ev5 Gt7 Gu6 Gu6b Gv5 Gw4 Gx3 Gy2	5506-13' 5530-35'	perf this zone	
5613-17, 5622-28	Lt7 Lu6 Lv5 Lv5b Lw4 Lx3	5570-76'	perf this zone Squeeze	
5645-47'	Ly2	5645-47'		
5663-65'	Mesa Mesa	5663-65'		

ACTION

1. Squeeze Lw4 intervals 5613-17 & 5622-28'
2. Perforate Lv5 interval 5570-76'
3. Perforate Gy2 interval 5530-35'
4. Breakdown new perfs
5. Equip well, hook-up, MIT, and commence injection



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18TH STREET - SUITE 300
DENVER, CO 80202-2466
<http://www.epa.gov/region08>

MAY 15 2002

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

Mr. Scott M. Webb
Regulatory Coordinator
Shenandoah Energy Company
475 Seventeenth Street, Suite #1000
Denver, CO 80202

RE: UNDERGROUND INJECTION CONTROL (UIC)
Final Permit
Red Wash Unit No. 11-29B
EPA Permit No. **UT20915-04629**
Uintah County, Utah

Dear Mr. Webb:

Enclosed is a Final Underground Injection Control Permit for the Shenandoah Energy, Inc. (Shenandoah) proposed Class II enhanced recovery injection well, the Red Wash Unit (RWU) No. 11-29B, Uintah County, Utah. A Statement of Basis is also enclosed which discusses the development of the Permit.

The public comment period ended on April 17, 2002. There were no comments from either the general public or the land owners who may be affected by the proposed action.

Following conversion, but prior to injection, Shenandoah must meet the requirements outlined in the Permit under Part II, Section C. 1., Prior to Commencing Injection, i.e., EPA Form No. 7520-12 (Well Rework Record), fluid pore pressure, and a Part I (Internal) Mechanical Integrity Test (MIT). The operator shall submit these requirements to the Director for EPA review and approval. The permittee may commence injection following receipt of written authorization from the Director.

Please give Mr. Jackson a minimum two (2) week notice so that the EPA can schedule a representative to witness all required MITs.

It is Shenandoah's responsibility to be familiar with, and to comply with, all conditions contained in this Permit.

Please note that the EPA has modified this Permit Authorization Identification (ID), it no longer is UT2915. **This Permit Authorization ID is now UT20915.** The Well Id remains UT04629. In all future correspondence to the EPA, relative to



the Red Wash Unit No. 11-29B, please use the new identification of UT20915-04629.

PLEASE NOTE THE FOLLOWING CLARIFICATIONS TO FINAL PERMIT UT20915-04629:

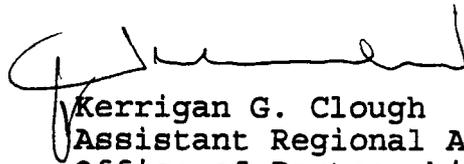
Part III, Section E: GENERAL DUTIES AND REQUIREMENTS, Condition No. 11 (Twenty-Four Hour Noncompliance Reporting). Noncompliance notification shall be made either orally or by leaving a message by telephoning 1.800.227.8917 and asking for the EPA Region VIII Program Compliance and Enforcement Director, or if outside EPA Region VIII call 303.293.1788 and ask for the Region VIII Emergency Operations Center.

Part III, Section E: Condition 12, Oil Spill and Chemical Release Reporting. The operator shall report oil spills, chemical releases, or other potential impacts to human health or the environment to the National Response Center (NRC) at 1.800.424.8802, or 202.267.2675, or through the NRC website at <http://www.nrc.uscg.mil/index.htm>.

Part III, Section E: Condition 13: Other Noncompliance, and Condition 14: Other Information will be addressed by the operator according to instructions in Conditions No. 11 and No. 12, above.

If you have any questions on this action please contact Dan Jackson at (800) 227-8917 (Ext. 6155). Please submit all Prior to Commencing Injection Requirements to the **ATTENTION: DAN JACKSON** at the letterhead address, citing **MAIL CODE: 8P-W-GW** very prominently.

Sincerely,



Kerrigan G. Clough
Assistant Regional Administrator
Office of Partnerships and
Regulatory Assistance

Enclosures: Final Permit
Statement of Basis
EPA Ground Water Section Guidance No. 34
EPA ground Water Section Guidance No. 37
EPA Ground Water Section Guidance No. 39

cc w/ encl: Mr. D. Floyd Wopsock
Chairman
Uintah & Ouray Business Committee
Ute Indian Tribe

Ms. Elaine Willie
Environmental Director
Ute Indian Tribe

Superintendent
BIA - Uintah & Ouray Indian Agency

Mr. Jerry Kenczka
BLM - Vernal District Office

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

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

APR 19 1994

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 34
Cement bond logging techniques and interpretation

FROM: Tom Pike, Chief *[Signature]*
UIC Direct Implementation Section

TO: All Section Staff
Montana Operations Office

These procedures are to be followed when running and interpreting cement bond logs for injection and production (area of review) wells.

PART I - PREPARE THE WELL

Allow cement to cure for a sufficient time to develop full compressive strength. A safe bet is to let the cement cure for 72 hours. If you run the bond log before the cement achieves its maximum compressive strength, the log may show poor bonding. Check cement handbooks for curing times.

Circulate the hole with a fluid (either water or mud) of uniform consistency. Travel times are influenced by the type of fluid in the hole. If the fluid changes between two points, the travel times may "drift," causing difficulty in interpretation and quality control.

Be prepared to run the cement bond log under pressure to reduce the effects of micro-annulus. Micro-annulus may be caused by several reasons, but the existence of a micro-annulus does not necessarily destroy the cement's ability to form a hydraulic seal. If the log shows poor bonding, rerun the log with the slightly more pressure on the casing as was present when the cement cured. This will cause the casing to expand against the cement and close the micro-annulus.

PART II - PARAMETERS TO LOG

Amplitude (mV) - This curve shows how much acoustic signal reaches a receiver and is an important indicator of cement bond. Record the amplitude on the 3 foot spaced receiver.

Travel time (μ s) - This curve shows the amount of time it takes an acoustic signal to travel between the source and a receiver. For free pipe of a given size and weight, the travel time between points is very predictable, although variable among different company's tools. Service companies should be able to provide accurate estimates of travel times for free pipe of a given size and weight. Travel time is required as a quality control measurement. Record the travel time on the 3 foot spaced receiver.

Variable density (VDL) - Pipe signals, formation signals, and fluid signals are usually easy to recognize on the VDL. If these signals can be identified, a practical determination for the presence or absence of cement can be made. VDL is logged on the 5 foot spaced receiver.

Casing collar locator (CCL) - Used to correlate the bond log with cased hole logs and to match casing collars with the collars that show up on the VDL portion of the display.

Gamma ray - Used to correlate the bond log with other logs.

PART III - LOGGING TECHNIQUE

Calibrate the tool in free pipe at the shop, prior to, and following the log run. Include calibration data with log.

Run receivers spaced 3 feet and 5 feet from transmitter.

Run at least 3 bow-type or rigid aluminum centralizers in vertical holes, 6 centralizers in directional holes. A CCL is not an adequate centralizer.

Complete log header with casing/cement data, tool/panel data, gate settings and tool sketch showing centralizers.

Set the amplitude gate so that skipping does not occur at amplitudes greater than 5 mV.

Record amplitude with fixed gate and note position on log.

Record amplified amplitude on a 5X scale for low amplitudes.

Record amplitude and travel time on the 3 foot receiver.

Record travel time on a 100 μ s scale (150 - 250, 200 - 300).

Logging speed should be approximately 30 ft/min.

Log repeat sections.

PART IV - QUALITY CONTROL

Compare the tool calibration data to see if the tool "drifts" during logging. Differences in the calibration data may require you to re-log the well to obtain reliable data.

Compare repeat sections to see if logging results are repeatable.

Check the logged free pipe travel times with the service company charts for the specific tool and casing size used. Since the travel times depend on such factors as casing weight, type of fluid in the hole, etc., these charts should be used only as guidelines. When you are confident of the

free-pipe travel times as seen on the log, use them. When interpreting the log, a decrease in travel time (faster times) with simultaneous reduction of amplitude may show a de-centered tool. A 4 to 5 micro-second (μs) decrease in travel time corresponds to about a 35% loss of amplitude. A decrease in travel time more than 4 to 5 μs is unacceptable.

PART V - LOG INTERPRETATION

Do not rely on the service company charts for amplitudes corresponding to a good bond. These amplitudes depend on many factors: type of cement used, fluid in the hole, etc.

To estimate bond index, choose intervals on the log that correspond to 0% bond and 100% bond. Read the amplitude corresponding to 100% bond from the best-bonded interval on the log (NOTE: the accuracy of this amplitude reading is very critical to the bond index calculations). Next, find the amplitude corresponding to 0% bond. Some bond logs may not include a section with free pipe. In this instance, choose the appropriate free-pipe travel time from the service company charts for your specific tool, or from the generalized chart (TABLE 2) at the end of this guidance. To calculate a bond index of 80%, use the following equation:

$$A_{80} = 10^{[(0.2)\log(A_0) + (0.8)\log(A_{100})]}$$

where:

A_{80} = Amplitude at 80% bond (mV)
 A_0 = Amplitude at 0% bond (mV)
 A_{100} = Amplitude at 100% bond (mV)

EXAMPLE

As an example, consider a bond log showing the following conditions:

- Free pipe (0% bond) amplitude at 81 mV.
- 100 % bond amplitude at 1 mV.

Substituting the above values into the equation results in:

$$A_{80} = 10^{[(0.2)\log(81) + (0.8)\log(1)]}$$

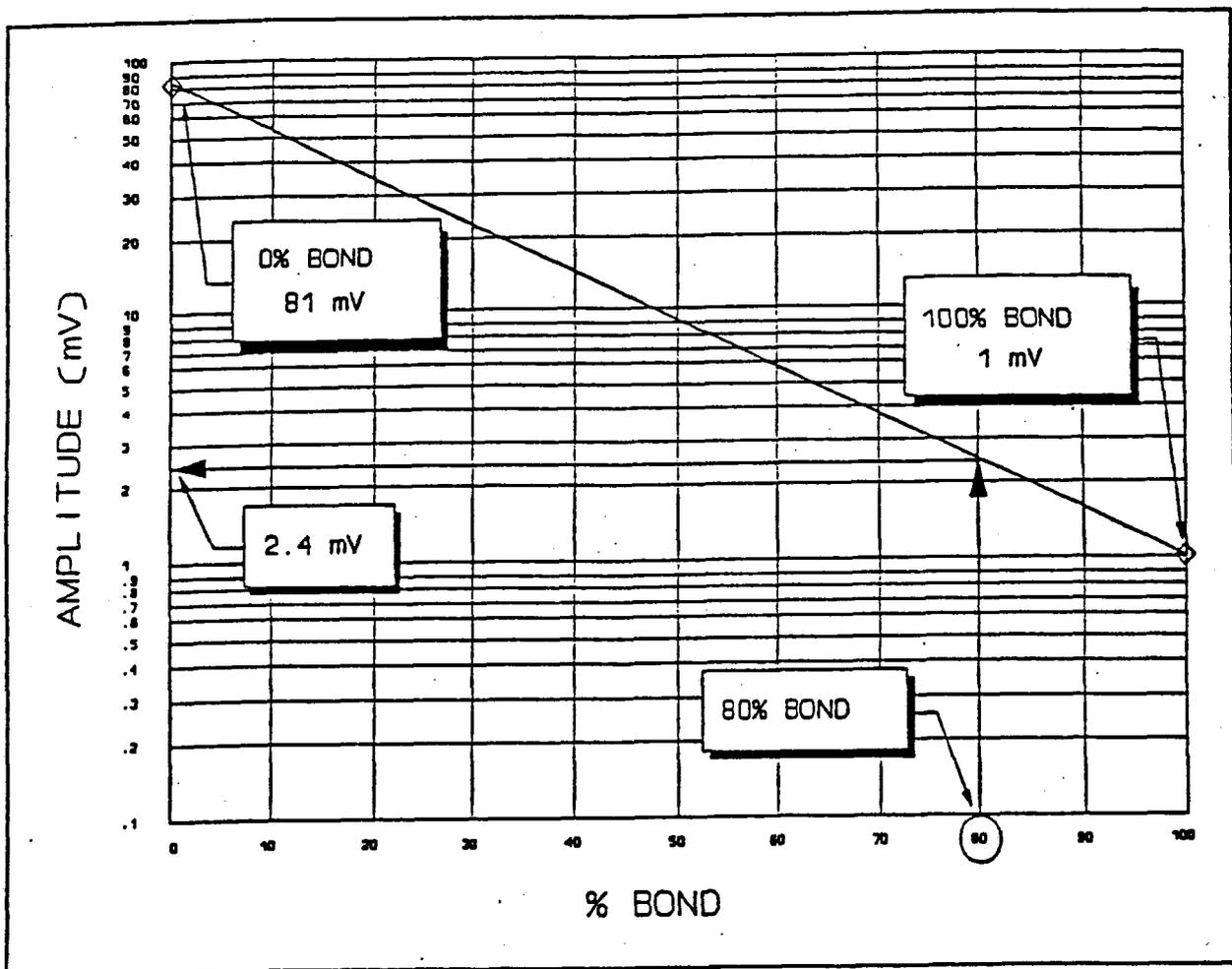
$$A_{80} = 2.41 mV$$

Another way to calculate the amplitude at 80% bond is by plotting these same log readings on a semi-log chart.

Plot the values for 0% Bond and 100% Bond vs. their respective Amplitudes on a semi-log chart - amplitudes on the log scale (y-axis), and bond indices on the linear scale (x-axis). Then, connect the points with a straight line.

To estimate the amplitude corresponding to an 80% Bond Index, enter the graph on the x-axis at 80% bond. Draw a straight line upward until you reach the diagonal line connecting the 0% and 100% points. Continue by drawing a horizontal line to the y-axis. This point on the y-axis is the amplitude corresponding to an 80% Bond Index.

Using the values from the example above, your chart will look like that shown below:



In this example, 80% bond shows an amplitude of 2.4 mV.

A convenient way to evaluate the log is to draw a line on the bond log's amplified amplitude (5X) track corresponding to the calculated 80% bond amplitude. Whenever the logged amplified amplitude (5X) curve drops below (to the left of) the drawn line, this indicates a bond of 80% or more.

PART IV - CONCLUSIONS - REMINDERS

Different pipe weights and cement types will affect the log readings, so be mindful of these factors in wells with varying pipe weights and staged cement or squeeze jobs.

Collars generally do not show up on the VDL track in well-bonded sections of casing.

Longer (slower) travel time due to cycle skipping or cycle stretch usually suggests good bonding.

Shorter (faster) travel times indicate a de-centered tool or a fast formation and will provide erroneous amplitude readings that make evaluation impossible through that section of the log. Fast formations do not assure that the cement contacts the formation all around the borehole.

Although the bond index is important, you should not base your assessment of the cement quality on that one factor alone. You should use the VDL to support any indication of bonding. Also, you must know how each portion of the CBL (VDL, travel time, amplitude, etc.) influences another.

Most 3'-5' CBL's cannot identify a 1/2" channel in cement. Therefore, you also need to consider the thickness of a cemented section needed to provide zone isolation. For adequate isolation in injection wells, the log should indicate a continuous 80% or greater bond through the following intervals as seen in TABLE 1, below:

TABLE 1 - INTERVALS FOR ADEQUATE BOND

PIPE DIAMETER (in)	CONTINUOUS INTERVAL WITH BOND \geq 80% (ft)
4-1/2	15
5	15
5-1/2	18
7	33
7-5/8	36
9-5/8	45
10-3/4	54

Adequately bonded cement by itself will not prevent fluid movement. If the bond log shows adequate bond through an interval where the geology allows fluid to move (permeable and/or fractured zones), fluids may move around perfectly bonded cement by travelling through the formation. Always cross-check your bond log with open hole logs to see that you have adequate bonding through the proper interval(s).

TABLE 2 - TRAVEL TIMES AND AMPLITUDES FOR FREE PIPE
(3 FT RECEIVER)

CASING SIZE (in)	CASING WEIGHT (lb/ft)	TRAVEL TIME (μ s)		AMPLITUDE (mV)
		1-11/16" TOOL	3-5/8" TOOL	
4-1/2	9.5	252	233	81
	11.6	250	232	81
	13.5	249	230	81
5	15.0	257	238	76
	18.0	255	236	76
	20.3	253	235	76
5-1/2	15.5	266	248	72
	17.0	265	247	72
	20.0	264	245	72
	23.0	262	243	72
7	23.0	291	271	62
	26.0	289	270	62
	29.0	288	268	62
	32.0	286	267	62
	35.0	284	265	62
	38.0	283	264	62
7-5/8	26.4	301	281	59
	29.7	299	280	59
	33.7	297	278	59
	39.0	295	276	59
9-5/8	40.0	333	313	51
	43.5	332	311	51
	47.0	330	310	51
	53.5	328	309	51
10-3/4	40.5	354	333	48
	45.5	352	332	48
	51.0	350	330	48
	55.5	349	328	48



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

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

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 37
Demonstrating Part II (external) Mechanical Integrity
for a Class II injection well permit.

FROM: Tom Pike, Chief
UIC Direct Implementation Section

TO: All Section Staff
Montana Operations Office

During the review for a Class II injection well permit, consideration must be given to the mechanical integrity (MI) of the well. MI demonstrates that the well is in sound condition and that the well is constructed in a manner that prevents injected fluids from entering any formation other than the authorized injection formation.

A demonstration of MI is a two part process:

PART I - **INTERNAL MECHANICAL INTEGRITY** is an assurance that there are no significant leaks in the casing/tubing/packer system.

PART II - **EXTERNAL MECHANICAL INTEGRITY** demonstrates that after fluid is injected into the formation, the injected fluids will not migrate out of the authorized injection interval through vertical channels adjacent to the wellbore.

A Class II injection well may demonstrate Part II MI by showing that injected fluids remain within the authorized injection interval. This may be accomplished as follows:

- 1) Cement bond log showing 80% bond through the an appropriate interval (Section Guidance 34),
- 2) Radioactive tracer survey conducted according to a EPA-approved procedure, or
- 3) Temperature survey conducted according to a EPA-approved procedure (Section Guidance 38).

For each test option above, the operator of the injection well should submit a plan for conducting the test. The plan will then be approved (or modified and approved) by EPA. EPA's pre-approval of the testing method will assure the operator that the



test is conducted consistent with current EPA guidance, and that the test will provide meaningful results.

Part II MI may be demonstrated either before or after issuing the Final Permit. However, if Part II is to be demonstrated after the Final Permit is issued, a provision in the permit will require the demonstration of Part II MI. The well will also be required to pass Part II MI prior to granting authorization to inject.

Radioactive tracer surveys and temperature surveys require that the well be allowed to inject fluids as part of the procedure. In these cases, a well that has shown no other demonstration of Part II MI will be allowed to inject only that volume of fluid that is necessary to conduct the appropriate test.

After the results of the test proves that the well has passed Part II MI, the well will be given authorization to begin full injection operations.

If any of the tests show a lack of Part II MI, the well will be repaired and retested, or plugged (See Headquarters Guidance #76).





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

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

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 39
Pressure testing injection wells for Part I (internal)
Mechanical Integrity

FROM: Tom Pike, Chief
UIC Direct Implementation Section

TO: All Section Staff
Montana Operations Office

Introduction

The Underground Injection Control (UIC) regulations require that an injection well have mechanical integrity at all times (40 CFR 144.28 (f)(2) and 40 CFR 144.51 (q)(1)). A well has mechanical integrity (40 CFR 146.8) if:

- (1) There is no significant leak in the tubing, casing or packer; and
- (2) There is no significant fluid movement into an underground source of drinking water (USDW) through vertical channels adjacent to the injection wellbore.

Definition: Mechanical Integrity Pressure Test for Part I. A pressure test used to determine the integrity of all the downhole components of an injection well, usually tubing, casing and packer. It is also used to test tubing cemented in the hole by using a tubing plug or retrievable packer. Pressure tests must be run at least once every five years. If for any reason the tubing/packer is pulled, the injection well is required to pass another mechanical integrity test of the tubing casing and packer prior to recommencing injection regardless of when the last test was conducted. Tests run by operators in the absence of an EPA inspector must be conducted according to these procedures and recorded on either the attached form or an equivalent form containing the necessary information. A pressure recording chart documenting the actual annulus test pressures must be attached to the form.

This guidance addresses making a determination of Part I of Mechanical Integrity (no leaks in the tubing, casing or packer). The Region's policy is: 1) to determine if there are significant leaks in the tubing, casing or packer; 2) to assure that the casing can withstand pressure similar to that which



would be applied if the tubing or packer fails; 3) to make the Region's test procedure consistent with the procedures utilized by other Region VIII Primacy programs; and 4) to provide a procedure which can be easily administered and is applicable to all class I and II wells. Although there are several methods allowed for determining mechanical integrity, the principal method involves running a pressure test of the tubing/casing annulus. Region VIII's procedure for running a pressure test is intended to aid UIC field inspectors who witness pressure tests for the purpose of demonstrating that a well has Part I of Mechanical Integrity. The guidance is also intended as a means of informing operators of the procedures required for conducting the test in the absence of an EPA inspector.

Pressure Test Description

Test Frequency

The mechanical integrity of an injection well must be maintained at all times. Mechanical integrity pressure tests are required at least every five (5) years. If for any reason the tubing/packer is pulled, however, the injection well is required to pass another mechanical integrity test prior to recommencing injection regardless of when the last test was conducted. The Regional UIC program must be notified of the workover and the proposed date of the pressure test. The well's test cycle would then start from the date of the new test if the well passes the test and documentation is adequate. Tests may be required on a more frequent basis depending on the nature of the injectate and the construction of the well (see Section guidance on MITs for wells with cemented tubing and regulations for Class I wells).

Region VIII's criteria for well testing frequency is as follows:

1. Class I hazardous waste injection wells; initially [40 CFR 146.68(d)(1)] and annually thereafter;
2. Class I non-hazardous waste injection wells; initially and every two (2) years thereafter, except for old permits (such as the disposal wells at carbon dioxide extraction plants which require a test at least every five years);
3. Class II wells with tubing, casing and packer; initially and at least every five (5) years thereafter;
4. Class II wells with tubing cemented in the hole; initially and every one (1) or two (2) years thereafter



depending on well specific conditions (See Region VIII UIC Section Guidance #36);

5. Class II wells which have been temporarily abandoned (TAd) must be pressure tested after being shut-in for two years; and
6. Class III uranium extraction wells; initially.

Test Pressure

To assure that the test pressure will detect significant leaks and that the casing is subjected to pressure similar to that which would be applied if the tubing or packer fails, the tubing/casing annulus should be tested at a pressure equal to the maximum allowed injection pressure or 1000 psig whichever is less. The annular test pressure must, however, have a difference of at least 200 psig either greater or less than the injection tubing pressure. Wells which inject at pressures of less than 300 psig must test at a minimum pressure of 300 psig, and the pressure difference between the annulus and the injection tubing must be at least 200 psi.

Test Criteria

1. The duration of the pressure test is 30 minutes.
2. Both the annulus and tubing pressures should be monitored and recorded every five (5) minutes.
3. If there is a pressure change of 10 percent or more from the initial test pressure during the 30 minute duration, the well has failed to demonstrate mechanical integrity and should be shut-in until it is repaired or plugged.
4. A pressure change of 10 percent or more is considered significant. If there is no significant pressure change in 30 minutes from the time that the pressure source is disconnected from the annulus, the test may be completed as passed.

Recordkeeping and Reporting

The test results must be recorded on the attached form. The annulus pressure should be recorded at five (5) minute intervals. Tests run by operators in the absence of an EPA inspector must be conducted according to these procedures and recorded on the attached form or an equivalent form and a pressure recording



chart documenting the actual annulus test pressures must be attached to the submittal. The tubing pressure at the beginning and end of each test must be recorded. The volume of the annulus fluid bled back at the surface after the test should be measured and recorded on the form. This can be done by bleeding the annulus pressure off and discharging the associated fluid into a five gallon container. The volume information can be used to verify the approximate location of the packer.

Procedures for Pressure Test

1. Scheduling the test should be done at least two (2) weeks in advance.
2. Information on the well completion (location of the packer, location of perforations, previous cement work on the casing, size of casing and tubing, etc.) and the results of the previous MIT test should be reviewed by the field inspector in advance of the test. Regional UIC Guidance #35 should also be reviewed. Information relating to the previous MIT and any well workovers should be reviewed and taken into the field for verification purposes.
3. All Class I wells and Class II SWD wells should be shut-in prior to the test. A 12 to 24-hour shut-in is preferable to assure that the temperature of the fluid in the wellbore is stable.
4. Class II enhanced recovery wells may be operating during the test, but it is recommended that the well be shut-in if possible.
5. The operator should fill the casing/tubing annulus with inhibited fluid at least 24 hours in advance, if possible. Filling the annulus should be undertaken through one valve with the second valve open to allow air to escape. After the operator has filled the annulus, a check should be made to assure that the annulus will remain full. If the annulus can not maintain a full column of fluid, the operator should notify the Director and begin a rework. The operator should measure and report the volume of fluid added to the annulus. If not already the case, the casing/tubing valves should be closed, at least, 24 hours prior to the pressure test.

Following steps are at the well:

6. Read tubing pressure and record on the form. If the



well is shut-in, the reported information on the actual maximum operating pressure should be used to determine test pressures.

7. Read pressure on the casing/tubing-annulus and record value on the form. If there is pressure on the annulus, it should be bled off prior to the test. If the pressure will not bleed-off, the guidance on well failures (Region VIII UIC Section Guidance #35) should be followed.
8. Ask the operator for the date of the last workover and the volume of fluid added to the annulus prior to this test and record information on the form.
9. Hook-up well to pressure source and apply pressure until test value is reached.
10. Immediately disconnect pressure source and start test time (If there has been a significant drop in pressure during the process of disconnection, the test may have to be restarted). The pressure gages used to monitor injection tubing pressure and annulus pressure should have a pressure range which will allow the test pressure to be near the mid-range of the gage. Additionally, the gage must be of sufficient accuracy and scale to allow an accurate reading of a 10 percent change to be read. For instance, a test pressure of 600 psi should be monitored with a 0 to 1000 psi gage. The scale should be incremented in 20 psi increments.
11. Record tubing and annulus pressure values every five (5) minutes.
12. At the end of the test, record the final tubing pressure.
13. If the test fails, check the valves, bull plugs and casing head close up for possible leaks. The well should be retested.
14. If the second test indicates a well failure, the Region should be informed of the failure within 24 hours by the operator, and the well should be shut-in within 48 hours per Headquarters guidance #76. A follow-up letter should be prepared by the operator which outlines the cause of the MIT failure and proposes a potential course of action. This report should be submitted to EPA within five days.



15. Bleed off well into a bucket, if possible, to obtain a volume estimate. This should be compared to the calculated value obtained using the casing/tubing annulus volume and fluid compressibility values.
16. Return to office and prepare follow-up.

Alternative Test Option

While it is expected that the test procedure outlined above will be applicable to most wells, the potential does exist that unique circumstances may exist for a given well that precludes or makes unsafe the application of this test procedure. In the event that these exceptional or extraordinary conditions are encountered, the operator has the option to propose an alternative test or monitoring procedures. The request must be submitted by the operator in writing and must be approved in writing by the UIC-Implementation Section Chief or equivalent level of management.

Attachment



STATEMENT OF BASIS

SHENANDOAH ENERGY INC.

RED WASH UNIT NO. 11-29B

CLASS II ENHANCED RECOVERY INJECTION WELL

UINTAH COUNTY, UTAH

EPA PERMIT NUMBER: UT20915-04629

CONTACT: Mr. Dan Jackson (8P-W-GW)
U. S. Environmental Protection Agency
999 18th Street, Suite 300
Denver, Colorado 80202-2466
Telephone: 1.880.227.8917 (Ext. 6155)

DESCRIPTION OF FACILITY AND BACKGROUND INFORMATION:

On April 9, 2001, Shenandoah Energy Inc. (SEI) made application to convert the Red Wash Unit (RWU) No. 11-29B Green River Formation oil well to a Class II enhanced recovery injection well. Injected fluid will be produced Green River Formation water from the Red Wash Unit. The **minimum calculated total dissolved solids (TDS)**, from a June 20, 2001, Halliburton Services water analysis of RWU 11-29B produced Green River Formation water is **16,000 mg/l**. **The gross Green River Formation has been exempted as an Underground Source of Drinking Water (USDW).**

The area covered by the application is in the Red Wash Field/Red Wash Unit which lies under federal jurisdiction for purposes of UIC program implementation for the following reclassified well:

Red Wash Unit No.11-29B
786' FNL & 819' FWL (NW NW)
Section 29 - Township 7 South - Range 23 East
Uintah County, Utah

The permittee has sent notices to all surface landowners and interested parties within one-quarter (1/4) mile of the proposed enhanced recovery injection well.

SEI has submitted all required information and data necessary for Permit issuance in accordance with 40 CFR §§ 144, 146 and 147, and a Permit has been prepared.

The Permit will be issued for the operating life of the well from the effective date of this Permit; therefore, no reapplication will be necessary unless the Permit is terminated for reasonable cause (40 CFR §§ 144.39, 144.40, and 144.41). However, the Permit will be reviewed every five (5) years.

This Statement of Basis (SOB) gives the derivation of the site specific Permit conditions and reasons for them, on the basis of the direct implementation regulations promulgated for the Uintah-Ouray Indian Tribal lands in the State of Utah, under the Underground Injection Control (UIC) program provisions for the Safe Drinking Water Act (SDWA). The referenced sections and conditions correspond to the sections and conditions in Permit No. UT20915-04629. The general Permit conditions for which the content is mandatory and not subject to site specific differences (based on 40 CFR §§ 144, 146 and 147), are not included in the discussion.

PART II: SPECIFIC PERMIT CONDITIONS

SECTION A: CURRENT WELL CONSTRUCTION

Casing and Cementing

(Condition 1)

The RWU No. 11-29B was drilled and completed for oil production on December 16, 2000. Casing and cementing details are submitted by the applicant.

- (1) **Surface casing** (9-5/8 inch) is set in a 12-1/4 inch hole to a depth of 450 feet. The casing is secured with 175 sacks of Premium Plus cement which was circulated to the surface, isolating the casing from the wellbore. The underground sources of drinking water (USDW) are from the Uinta Formation at the surface to an approximate maximum depth of 3050 feet, which depth approximates the top of the Green River Formation. The Plugging and Abandonment Plan requires a cement plug across this depth.
- (2) **Production casing** (5-1/2 inch) is set in a 7-7/8 inch hole to a depth of 5879 feet. Total depth is in the Green River Formation at 5883 feet. Plugged back total depth (PBSD) is 5866 feet. The production casing was set with "785 sacks of Hi-Fill and 50/50 Pozmix cement." Applicant cites the top of cement (TOC) as approximately 3630 feet by Cement Bond Log (CBL). The EPA's analysis of the CBL identifies the TOC (80% bond index cement bond) at 3688 feet to 3762 feet, an 74-foot interval of 80% bond index cement bond.

Gross current injection perforations are 5506 feet to 5665 feet.

The Cement Bond Log (CBL) identifies 80% bond index cement bond 3688 feet to 3762 feet, 3802 feet to 3964 feet, 4105 feet to 4141 feet, 4680 feet to 4735 feet, 4775 feet to 4845 feet, 4863 feet to 4938 feet, 4966 feet to 5192 feet, 5226 feet to 5252 feet, 5271 feet to 5328 feet, 5344 feet to 5373 feet, 5380 feet to 5570 feet, 5585 feet to 5605 feet, 5630 feet to 5655 feet, 5680 feet to 5743 feet, 5841 feet to log total depth at 5847 feet.

Cement interval 5344 feet to 5373 feet is located within the EPA and permittee designated confining zone 5328 feet to 5506.

The construction and proposed conversion of this well complies with the UIC requirements and is incorporated into the Permit.

UNDERGROUND SOURCES OF DRINKING WATER:

The State of Utah, Department of Natural Resources, Technical Publication No. 92, indicates that the base of moderately saline Uinta Formation ground water (3,000 mg/l to 10,000 mg/l) is from the surface to an approximate maximum depth of 3050 feet GL. The Uinta Formation extends from the surface to a depth of 3050 feet, i.e, the approximate top of the Green River Formation. The Uinta Formation consists of variegated sequences of mudstone, shales, siltstones, and sandstones. Uinta Formation sands are discontinuous, and are not subject to direct recharge (low yielding). Waters of less than 10,000 mg/l total dissolved solids (TDS) may be present in these sand lenses of the Uinta Formation in this area and may be considered USDWs.

SEI has submitted water a Halliburton Services water analysis that identifies the total dissolved solids composition of the proposed Green River Formation enhanced recovery injection intervals as a minimum 16,000 mg/l. The inject ranges from 5640 mg/l to 28,100 mg/l.

Aquifer Exemption: The gross Green River Formation within the Red Wash Unit was exempted as an Underground Source of Drinking Water (USDW) in 1982 as part of the delegation of Utah's Class II Underground Injection Control (UIC) program ((40 CFR § 147.2251 (c) (2), re : Aquifer Exemption Process, dated June 16, 1982)).

WATER WELLS AND SPRINGS:

[http://nrwrt1.nr.state.ut.us/\(Water Rights\) \(Queries\) \(POD\)](http://nrwrt1.nr.state.ut.us/(Water Rights) (Queries) (POD))

There are no water wells or springs within the RWU No. 11-29B one-quarter (1/4) mile Area-of Review (AOR).

CONFINING INTERVAL:

The confining zone in the RWU No. 11-29B is identified by the EPA and the applicant as 178 feet (5506 feet to 5328 feet) of dolomitic shale, tight mudstone, and carbonates capable of limiting fluid movement above the injection zone. Additionally, the EPA identifies a continuous 29-foot interval, from 5344 feet to 5373 feet, of 80%, or greater, effective bond on the backside of the 5-1/2 inch casing, and within the confining zone, demonstrating the presence of adequate cement to prevent significant fluid movement, pursuant to 40 CFR, § 146.8 (a) (2).

Tubing and Packer Specifications

(Condition 2)

The 2-7/8 inch injection tubing information submitted by the applicant is incorporated into the permit, but the permittee may select any diameter tubing that will most effectively facilitate the injection operation. The packer will be set at a depth no more than 100 feet above the top perforation of 5506 feet.

Monitoring Devices

(Condition 3)

For the purposes of taking tubing and tubing/long string casing annulus pressure measurements, the EPA is requiring that the permittee install one-half (1/2) inch fittings or equivalent quick disconnect fittings, with cut-off valves at the well head on the tubing, and on the tubing/casing annulus (for attachment of pressure gauges). EPA is further requiring the permittee to install a sampling tap on the line to the injection well and a flow meter that will be used to measure cumulative volumes of injected fluid. The permittee shall be required to maintain these devices in good operating condition.

Formation Testing

(Condition 4)

The permittee is required to determine the injection zone fluid pore pressure (static bottom-hole pressure) prior to commencing injection operations.

PART II, SECTION B: CORRECTIVE ACTION

The applicant submitted the required one-quarter (1/4) mile Area of Review (AOR) information with the Permit application. There are two (2) wells located within the AOR.

RWU NO. 41-30B (Formerly No. 138)

NE SE Sec. 30 - T7S - R23E

Green River Oil Well.

Confining Zone:..... 4766 feet to 4928 feet (162').

80% Bond Index Cement Bond:.....4415 feet to 4963 feet

Should fluid leakage be observed at the surface of the RWU No.41-30B the RWU No. 11-29B will suspend operations immediately, and will stay suspended until the non-

compliance has been resolved, and renewed injection has been approved in writing by the Director.

RWU NO. 14-20B (Formerly No. 161) SW SW Sec. 20 - T7S - R23E

Temporarily Abandoned Green River Oil Well.

Confining Zone:..... 4702 feet to 4860 feet (158').

80% Bond Index Cement Bond..... 3647 feet to 4868 feet.

Should fluid leakage be observed at the surface of the RWU No. 14-20B, the RWU No. 11-29B will suspend operations immediately, and will stay suspended until the non-compliance has been resolved, and renewed injection has been approved in writing by the Director.

PART II, SECTION C: WELL OPERATION

Prior To Commencing Injection

(Condition 1)

Injection into the RWU No. 11-29B will not commence until the permittee has successfully fulfilled the following applicable conditions of the Permit:

- (1) The permittee has determined the **injection zone fluid pore pressure**;
- (2) **mechanical integrity (MIT: Part I [Internal])** has been successfully demonstrated according to the Guidelines discussed in the Permit; and
- (3) a **Well Rework Record (EPA Form 7520-12)** following conversion.
- (4) **Written authorization to inject** will be given by the Director subsequent to the EPA review and approval of (1), (2), and (3) above.

Mechanical Integrity

(Condition 2)

A tubing/casing annulus pressure test (Part I MI) must be conducted, at least once every five (5) years (active injection wells) to demonstrate continued tubing, packer, and casing integrity by using an EPA approved methods.

Injection Interval

(Condition 3)

Injection will be limited to the gross Green River Formation "target" interval **5506 feet to 5866 feet**. The **current gross perforated interval is 5506 feet to 5665 feet**. The permittee may find it necessary to perforate additional intervals within the above gross "target" interval. These additional perforations may be added later and reported on EPA Form 7520-12.

Injection Pressure Limitation

(Condition 4)

The formation-face fracture gradient (FG) for the injection zone, as currently authorized, is 0.78 psi/ft. Using the 0.78 psi/ft FG value, a specific gravity of 1.005, and the uppermost injection perforation (5506 feet), a maximum allowable surface injection pressure (MAIP) for this well may be calculated as shown below:

$$\text{MAIP} = [\text{FG} - (0.433)(\text{Sg})] d$$

Where: MAIP = maximum pressure at wellhead in pounds per square inch

Sg = specific gravity of injected fluid 1.005

d = top injection perforation = 5506 feet

$$\text{or MAIP} = [0.78 - (0.433)(1.005)] 5506 = 1898 \text{ psig}$$

Until such time as the permittee demonstrates, through a step-rate injectivity test (SRT), or other approved method, that the fracture gradient is other than 0.78 psi/ft, the RWU No.11-29B shall be operated at a surface injection pressure no greater than **1898 psig**. Permit provisions have been made that allows the Director to **increase or decrease** the injection pressure based upon the test results and/or other parameters reflecting actual injection operations.

Injection Volume Limitation

(Condition 5)

There is no limitation on the number of barrels of water per day (BWPD.) that may be injected into the RWU No. 11-29B, provided that in no case shall injection pressure exceed that limit shown in Part II, Section C. 4., of this Permit. Injected fluids shall be limited to that which are identified in 40 CFR § 144.6 (b) (2) as fluids used for enhanced recovery of oil or natural gas. The permittee shall provide a listing of the sources of injected fluids on an annual basis as required by the Permit.

Injection Fluid Limitation

(Condition 6)

Injected fluids shall be limited to those which are brought to the surface in connection with natural gas storage operations, or conventional oil or gas production and may be commingled with waste waters from gas plants which are an integral part of production operations in the Red Wash Unit/Field, unless those waters are classified as hazardous waste at the time of injection.

Fluids shall be further limited to those generated by sources owned or operated by the Permittee. If the Permittee wishes to dispose of any other Class II fluids generated on site, approval must be obtained from the Director prior to injection. The injection of any hazardous material is prohibited.

Annulus Fluid

(Condition 7)

The annulus between the tubing and casing is required to be filled with fresh water treated with a corrosion inhibitor. A diesel freeze blanket, or other fluid as approved in writing by the Director, may be circulated from surface to below the frost level to prevent freezing and possible equipment failure during winter months.

PART II, SECTION D: MONITORING, RECORD KEEPING AND REPORTING OF RESULTS**Injection Well Monitoring Program**

(Condition 1)

The permittee is required to monitor water quality of the injected fluids at annual intervals for total dissolved solids, pH, specific conductivity, and specific gravity. Any time there is a change in the source of injection fluid, a new water quality analysis of the injection fluid is required. **Monthly observations** of flow rate, injection pressure, annulus pressure and cumulative volume will be made. Observation of each will be recorded on a monthly basis. The permittee shall maintain copies (or originals) of all pertinent records at the office of:

Shenandoah Energy Inc.
475 Seventeenth Street - Suite 1000
Denver, Colorado 80202.

PART III, SECTION E: GENERAL DUTIES AND REQUIREMENTS

Section 10. **Reporting of Noncompliance** has been modified in its entirety. Subsections (a), (b), (c), (d) and (e) have been reclassified as Sections 11, 12, 13, and 14. Reclassification is to identify new phone numbers and/or websites for reporting all types of noncompliance affecting the environment and human health, and for reporting/correcting operator submission of incorrect information .

Important phone numbers cited are:

- 1.800.227.8917: Twenty-four (24) hour for reporting noncompliance within Region VIII.
- 303.293.1788: For reporting noncompliance outside of the Region VIII.
- 202.267.2675, or 1.800.424.8802, or <http://www.nrc.uscg.mil/index.htm> for reporting oil spills and chemical release.

APPENDIX C: PLUGGING AND ABANDONMENT

The plugging and abandonment plan submitted by the applicant (Appendix C of the Permit) consists of five (5) cement plugs. The Plan is incorporated into the Permit under Appendix C. This Plan has been reviewed and approved by the EPA. The Plan is consistent with UIC requirements.

NOTE: CEMENT PLUGS ARE TO BE SEPARATED BY BENTONITE MUD OR A 9.6 P.G. PLUGGING GEL (BRINE WATER WITH A GELLING AGENT).

PLUG NO. 1: Set cast iron bridge plug (CIBP) approximately 5456 feet. Place 35 feet of Class G cement on CIBP.

PLUG NO. 2: Set Class G cement plug inside of the 5-1/2 inch casing from 3854 feet to 4016 feet.

PLUG NO. 3: Cut 5-1/2 inch casing at 3050 feet. Set cement plug from 3000 feet to 3100 feet in 7-7/8 inch hole and 5-1/2 inch casing.

PLUG NO. 4: Set Class G cement plug inside of the 5-1/2 inch casing and 7-7/8 inch hole from 400 feet to 500 feet.

PLUG NO. 5: Set cement plug inside of the 5-1/2 inch casing from the surface to a depth of fifty (50) feet.

PART II, Section F FINANCIAL RESPONSIBILITY**Demonstration of Financial Responsibility**

(Condition 1)

Shenandoah Energy Inc. has chosen to demonstrate financial responsibility (FRD) through a Surety Bond and Standby Trust Agreement, which documents are valued at \$2,016,000. The RWU No. 1-29B is included in the \$2,016,000. P&A costs per well are cited as \$18,000. The EPA has reviewed and approved the FRD documents.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
999 18TH STREET - SUITE 300
DENVER, CO 80202-2466

UNDERGROUND INJECTION CONTROL PROGRAM

FINAL PERMIT
for
CONVERSION TO A CLASS II
ENHANCED RECOVERY INJECTION WELL

Permit No. UT20915-04629

Well Name: Red Wash Unit No. 11-29B

Field Name: Red Wash Unit (RWU)

County & State: Uintah County, Utah

issued to:

Shenandoah Energy Inc.
475 Seventeenth Street, Suite 1000
Denver, CO 80202

Date Prepared: May 2002



Printed on Recycled Paper

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PART I. AUTHORIZATION TO OPERATE

Pursuant to the Underground Injection Control Regulations of the U. S. Environmental Protection Agency codified at Title 40 of the Code of Federal Regulations (CFR) §§ 124, 144, 146, and 147,

Shenandoah Energy Inc.
475 Seventeenth Street - Suite 1000
Denver, CO 80202

is hereby authorized to convert and operate the Green River Formation oil well as the

Red Wash Unit No. 11-29B
768' FNL and 819' FWL (NW NW)
Section 29, Township 7 South, Range 23 East
Uintah County, Utah

as a Class II Green River Formation enhanced recovery injection well.

Injection shall be for the purpose of increasing Green River Formation productivity so that Shenandoah Energy Inc. (SEI) may continue to economically produce oil from their Red Wash Field/Unit in accordance with conditions set forth herein.

All conditions set forth herein refer to Title 40 §§ 124, 144, 146, and 147 of the Code of Federal Regulations (40 CFR) and are regulations that are in effect on the date that this Permit becomes effective.

This Permit consists of a total of twenty-eight (28) pages and includes all items listed in the Table of Contents. Further, it is based upon representations made by the permittee and on other information contained in the administrative record.

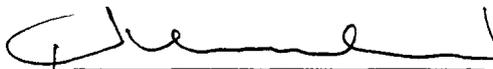
This Permit and the authorization to operate are issued for the operating life of the well, unless modified, reissued, or terminated (Part III, Section B 1. of this Permit).

The Permit will be reviewed by EPA at least once every five (5) years to determine whether action under 40 CFR § 144.36 (a) is warranted.

The Permit will expire upon delegation of primary enforcement responsibility for the UIC Program to the State of Utah, Division of Oil, Gas, and Mining, or the Uintah-Ouray Indian Tribal Government, unless either the State or the Indian Tribal Government has adequate authority, and choose, to adopt and enforce this Permit as a State Permit or Tribal Government Permit.

Issued MAY 15 2002.

This Permit shall become effective MAY 15 2002.



*
Kerrigan G. Clough
Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

* NOTE: The person holding this title is referred to as the "Director" throughout this Permit.

PART II. SPECIFIC PERMIT CONDITIONS

A. WELL CONVERSION REQUIREMENTS

1. **Casing and Cementing.** The conversion details submitted with the application are hereby incorporated into this Permit as **Appendix A**, and shall be binding on the permittee.
2. **Tubing and Packer Specifications.** A tubing of two and seven-eighths (2-7/8) inches diameter, or a similar appropriate diameter, shall be utilized. A packer shall be set at a distance of no more than 100 feet above the top perforation. Injection between the outer-most casing protecting underground sources of drinking water (USDWs) and the well bore is prohibited.
3. **Monitoring Devices.** The operator shall provide and maintain in good operating condition:
 - (a) a tap on the injection line, for the purpose of obtaining representative samples of the injection fluids;
 - (b) two (2), one-half (1/2) inch Female Iron Pipe (FIP) fittings, isolated by plug or globe valves, and located: 1) at the wellhead on the tubing; and 2) on the tubing/casing annulus (for attachment of pressure gauges). The gauges shall be designed to operate at a certified accuracy of at least ninety-five (95) percent, throughout the range of anticipated injection pressures; and
 - (c) a flow meter that will be used to measure cumulative volumes of injected fluid.
4. **Proposed Changes and Workovers.** The permittee shall give advance notice to the Director, as soon as possible, of any planned physical alterations or additions to the permitted well. Major alterations or workovers of the permitted well shall meet all conditions as set forth in this Permit. A major alteration/workover shall be considered any work performed, which affects casing, packer(s), or tubing.

Demonstration of mechanical integrity shall be performed within thirty (30) days of completion of workovers/alterations and prior to recommencing injection, in accordance with Part II, Section C. 2.

The permittee shall provide all records of well workovers, logging, and other test data to EPA within sixty (60) days of completion of the activity. **Appendix B** contains samples of the appropriate reporting forms.

5. **Formation Testing.** The permittee is required to determine the injection zone fluid pore pressure (static bottom hole pressure).
6. **Postponement of Conversion.** The permittee shall notify the Director if the well is not converted within one (1) year of the effective date of this Permit. Authorization to convert and operate shall expire if the well has not been converted within one (1) year of the effective date of this Permit, unless the permittee has notified the Director and requested an extension prior to expiration. Notification shall be in writing; shall state the reason(s) for the delay; provide an estimated conversion date; and describe the steps to be taken by the operate to assure protection of the USDWs until conversion is complete. Once the authorization has expired under this Part, the complete Permit process, including opportunity for public comment, may be required before authorization to convert and operate can be reissued.

B. CORRECTIVE ACTION

The applicant submitted the required one-quarter (1/4) mile Area of Review (AOR) information with the Permit application. There is one (1) active Green River Formation oil well, and one (1) temporarily abandoned (TA) oil well in the AOR. There are no proposed drilling locations, water wells, or springs in the AOR. No locations require corrective action.

The permittee is required to inspect the surface location of all wells in the one-quarter (1/4) mile Area-of-Review for fluid leaks, and record the results of these observations. If surface leakage is observed, the operator shall halt injection into the RWU No. 11-29B, notify the Director within twenty-four (24) hours and describe the measures to be undertaken for correction. The permittee shall provide a written report of the corrections taken and receive written authorization from the Director prior to resuming injection activities.

C. WELL OPERATION

1. **Prior to Commencing Injection.**
 - (a) Conversion is complete and the permittee has submitted a **Well Rework Record (Form 7520-12 in Appendix B)**;
 - (b) a **current wellbore diagram** has been submitted;
 - (c) the permittee has determined the **injection zone fluid pore pressure (static bottom-hole pressure)**; and
 - (d) the operator has demonstrated **Part I (Internal) Mechanical Integrity (MI)**, i.e., no significant leak in the casing, tubing, or packer. The demonstration shall be made by using a casing-tubing pressure test, or an approved alternate test method.

2. **Mechanical Integrity.** The operator shall ensure that the enhanced recovery injection well maintains mechanical integrity at all times. The Director, by written notice, may require the operator to comply with a schedule describing when mechanical integrity shall be made.
- (a) **Mechanical Integrity Test Methods.** Any of several EPA-approved methods may be used to demonstrate mechanical integrity (MI). Current copies of **GUIDANCE NO. 34: CEMENT BOND LOGGING TECHNIQUES AND INTERPRETATION**, dated April 19, 1995; **GUIDANCE NO. 37: DEMONSTRATING PART II (EXTERNAL) MECHANICAL INTEGRITY**, dated August 9, 1995; and **GUIDANCE NO. 39: PRESSURE TESTING INJECTION WELLS FOR PART I (INTERNAL) MECHANICAL INTEGRITY**, dated September 27, 1995, are provided at issuance of the Final Permit. Results of the test(s) shall be submitted on the appropriate EPA form to the Director as soon as possible, but no later than sixty (60) days after a test is completed.
- (b) **Frequency of Mechanical Integrity Testing.** The operator shall demonstrate Part I (Internal) mechanical integrity at least once every five (5) years during the life of the well. The permittee shall demonstrate Part I (Internal) mechanical integrity (no significant leak in the casing, tubing, or packer) after workovers affecting the tubing, casing, or packer. The operator shall arrange for and conduct all mechanical integrity tests.
- (c) **Prior Notification of Test.** The operator shall notify the Director at least two (2) weeks prior to any required integrity test. The Director may allow shorter notification period if it is sufficient to enable the EPA to witness the mechanical integrity test. Notification may be in the form of a yearly or quarterly schedule of planned mechanical integrity tests or it may be on an individual well basis.
- (d) **Loss of Mechanical Integrity.** If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity as defined by 40 CFR § 146.8 becomes evident during operation, the operator shall notify the Director in accordance with Part III. E. 10. of this Permit. Injection activities shall be terminated immediately, and operations shall not be resumed until the operator has taken necessary actions to restore integrity to the well and the Director has given approval to recommence injection.

3. **Injection Interval.** As identified in **Appendix A**, injection shall be limited to the gross Green River Formation interval 5506 feet to 5866 feet. Additional perforations, within the gross interval, may be added later and reported on EPA Form 7520-12. The **confining zone** overlying the injection interval consists of 178 feet (5506 feet to 5328 feet) of impervious dolomitic shale and mudstone.
4. **Injection Pressure Limitation.**
 - (a) Injection pressure, measured at the surface, shall not exceed an amount that the Director determines is appropriate to ensure that injection does not initiate new fractures or propagate existing fractures in the confining zone adjacent to USDWs.
 - (b) The exact pressure limit may be **increased or decreased** by the Director in order to ensure that the requirements in paragraph (a) are fulfilled. In order to determine an exact pressure limit, the permittee shall conduct a step rate injection test or other authorized well test(s) that will serve to determine the fracture pressure of the injection zone. Test procedures shall be pre-approved in writing by the Director. The Director will specify in writing, to the permittee, any increase or decrease to the injection pressure based upon the test results and/or other parameters reflecting actual injection operations. Until such time that this demonstration and approval is made **the maximum injection pressure, measured at the surface shall not exceed 1898 psig.**
5. **Injection Volume Limitation.** There is no limitation on the number of barrels of water per day (BWPD) that shall be injected into this well, provided further that in no case shall injection pressure exceed that limit shown in Part II, Section C. 3. (b) of this Permit. There is no limitation on the gross number of barrels that may be injected into this well.
6. **Injection Fluid Limitation.** The permittee shall not inject any hazardous substances, as defined by 40 CFR § 261, at any time during the operation of the facility; and further, no substances other than produced brines from oil and/or gas production. This well is not authorized for use as a Class II salt water disposal well.
7. **Annular Fluid.** The annulus between the tubing and the casing shall be filled with fresh water treated with a corrosion inhibitor to prevent corrosion. A diesel freeze blanket may be circulated from surface to below frost level at completion to prevent freezing and possible equipment failure during winter months, or other fluid as approved, in writing, by the Director.

D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS

1. **Injection Well Monitoring Program.** Samples and measurements shall be representative of the monitored activity. The permittee shall utilize the applicable analytical methods described in Table 1 of 40 CFR § 136.3, or in Appendix III of 40 CFR § 261, or in certain circumstances, by other methods that have been approved by the EPA Administrator. Monitoring shall consist of:
 - (a) **Analysis of the injection fluids, performed:**
 - (i) **Annually** for Total Dissolved Solids, pH, Specific Conductivity, and Specific Gravity.
 - (ii) Whenever there is a change in the source of injection fluids, a comprehensive water analysis(es) shall be submitted to the Director within thirty (30) days of any change in injection fluids.
 - (b) **Monthly observations of flow rate, injection pressure and annulus pressure, and cumulative volume.** Observation of each shall be recorded monthly.
2. **Monitoring Information.** Records of any monitoring activity required under this Permit shall include:
 - (a) The date, exact place, the time of sampling or field measurements;
 - (b) the name of the individual(s) who performed the sampling or measurements;
 - (c) the exact sampling method(s) used to take samples;
 - (d) the date(s) laboratory analyses were performed;
 - (e) the name of the individual(s) who performed the analyses;
 - (f) the analytical techniques or methods used by laboratory personnel; and
 - (g) the results of such analyses.
3. **Recordkeeping.**
 - (a) The permittee shall retain records concerning:
 - (i) the nature and composition of all injected fluids until three (3) years

after the completion of plugging and abandonment which has been carried out in accordance with the Plugging and Abandonment Plan shown in Appendix C, and is consistent with 40 CFR § 146.10.

- (ii) all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation and copies of all reports required by this Permit for a period of at least five (5) years from the date of the sample, measurement or report throughout the operating life of the well.
- (b) The permittee shall continue to retain such records after the retention period specified in paragraphs (a) (i) and (a) (ii) unless he delivers the records to the Director or obtains written approval from the Director to discard the records.
- (c) The permittee shall maintain copies (or originals) of all pertinent records at the office of

Shenandoah Energy Inc.
475 Seventeenth Street - Suite 1000
Denver, Colorado 80202.

4. **Annual Reporting.** The permittee shall submit to the Director an Annual Report that includes a summary of the results of the monitoring required by Part II. D. 1. a. and b. of this Permit, whether the well is injecting or not, and shall include the monthly records of **injection pressure, annulus pressure, injection flow rate, and cumulative volume.** EPA Form No. 7520-11 shall be submitted with the Annual Report. A blank EPA Form No. 7520-11 may be found in Appendix B.

The Annual Report shall be submitted by February 15 of the year following the data collection year. The first Annual Report shall cover the period from the effective date of the Permit through December 31. Subsequent Annual Reports shall cover the period from January 1 through December 31 of the data collection year.

E. PLUGGING AND ABANDONMENT

1. **Notice of Plugging and Abandonment.** The permittee shall notify the Director forty-five (45) days before conversion, or abandonment of the well.
2. **Plugging and Abandonment Plan.** The permittee shall plug and abandon the well as provided in the Plugging and Abandonment Plan, **Appendix C.** This plan incorporates information supplied by the permittee and may contain a clarification

by the EPA. The EPA reserves the right to change the manner in which the well will be plugged if the well is modified during its permitted life or if the well is not made consistent with EPA requirements for construction and mechanical integrity. The Director may require the permittee to update the estimated plugging cost periodically. Such estimates, two (2), shall be based on an independent service company's cost for current EPA approved P&A operations, not an "in-house" cost estimate.

3. **Cessation of Injection Activities**. After a cessation of operations of two (2) years [40 CFR § 145.52 (a) (6)], the permittee shall plug and abandon the well in accordance with the Plugging and Abandonment Plan, unless the permittee:
 - (a) has provided notice to the Director;
 - (b) has demonstrated that the well will be used in the future;
 - (c) has described actions or procedures, satisfactory to the Director, that will be taken to ensure that the well will not endanger underground sources of drinking water during the period of temporary abandonment.
4. **Plugging and Abandonment Report**. Within sixty (60) days after plugging the well, the permittee shall submit a report on Form 7520-13 to the Director. The report shall be certified as accurate by the person who performed the plugging operation and the report shall consist of either: (1) a statement that the well was plugged in accordance with the plan; or (2) where actual plugging differed from the plan, a statement that specifies the different procedures followed.

F. FINANCIAL RESPONSIBILITY

1. **Demonstration of Financial Responsibility**. The permittee is required to maintain continuous financial responsibility and resources to close, plug and abandon the injection well as provided in the plugging and abandonment plan.
 - (a) Shenandoah Energy Inc. has submitted an updated Surety Bond for \$2,016,000, and a Standby Trust Agreement, for all existing Class II enhanced recovery injection wells in the Red Wash Unit. These documents have been reviewed and approved by the EPA. The Red Wash Unit No. 11-29B is included in this financial responsibility demonstration.
 - (b) The permittee may upon his own initiative and upon written request to EPA, change the method of demonstrating financial responsibility. Any such change must be approved by the Director. A Minor Permit Modification will be made to reflect any changes in financial mechanisms, without further opportunity for public comment.

2. **Insolvency of Financial Institution**. In the event that an alternate demonstration of financial responsibility has been approved under (b), above, the permittee must submit an alternate demonstration of financial responsibility acceptable to the Director within sixty (60) days after either of the following events occur:

- (a) The institution issuing the trust or financial instrument files for bankruptcy; or
- (b) The authority of the trustee institution to act as trustee, or the authority of the institution issuing the financial instrument, is suspended or revoked.

3. **Cancellation of Demonstration by Financial Institution**.

The permittee must submit an alternative demonstration of financial responsibility acceptable to the Director, within sixty (60) days after the institution issuing the trust or financial instrument serves 120-day notice to the EPA of their intent to cancel the trust or financial statement.

PART III. GENERAL PERMIT CONDITIONS

A. EFFECT OF PERMIT

The permittee is allowed to engage in underground injection in accordance with the conditions of this Permit. The permittee, as authorized by this Permit, shall not construct, operate, maintain, convert, plug, abandon, or conduct any other injection activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR § 142 or otherwise adversely affect the health of persons. Any underground injection activity not authorized in this Permit or otherwise authorized by Permit or Rule is prohibited. Issuance of this Permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of State or local law or regulations. Compliance with the terms of this Permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment for any imminent and substantial endangerment to human health, or the environment, nor does it serve as a shield to the permittee's independent obligation to comply with all UIC regulations.

B. PERMIT ACTIONS

1. **Modification, Reissuance, or Termination**. The Director may, for cause or upon a request from the permittee, modify, revoke and reissue, or terminate this Permit in accordance with 40 CFR §§ 124.5, 144.12, 144.39, and 144.40. Also, the Permit is

subject to Minor Permit Modifications for cause as specified in 40 CFR § 144.41. The filing of a request for a Permit Modification, revocation and reissuance, or termination or the notification of planned changes or anticipated noncompliance on the part of the permittee does not stay the applicability or enforceability of any Permit condition.

2. **Conversions.** The Director may, for cause or upon a request from the permittee allow conversion of the well from a Class II salt water enhanced recovery injection well to a non-Class II well. Requests to convert the injection well from its Class II status to a non-Class II well, such as, a production well, must be made in writing to the Director. Conversion may not proceed until a Permit modification indicating the conditions of the proposed conversion is received by the permittee. Conditions of the modification may include such items as, but is not limited to, approval of the proposed well rework, follow up demonstration of mechanical integrity, and well specific monitoring and reporting following the conversion. This Permit remains in effect as issued or modified until all conversion requirements have been fulfilled, conversion is complete, and evidence has been submitted to the Director that the conversion has actually occurred and is complete.
3. **Transfers.** This Permit is not transferrable to any person except after notice is provided to the Director and the requirements of 40 CFR § 144.38 are complied with. The Director may require modification, or revocation and reissuance, of the Permit to change the name of the permittee and incorporate such other requirements as may be necessary under the SDWA.
4. **Operator Change of Address.** Upon the operator's change of address, notice must be given to the following EPA office:

**Director - Ground Water Program
U. S. Environmental Protection Agency
Region VIII, UIC Section (8P-W-GW)
999 - 18th Street, Suite 300
Denver, CO 80202-2466**

5. **Termination of Permit.** Pursuant to 40 CFR § 144.40, the Director may terminate this Permit during its term or deny a Permit renewal application for non-compliance with any condition of the Permit, or for failure to fully disclose all relevant facts during the Permit issuance process or misrepresentation of relevant facts at any time, or for a determination that the permitted activity endangers human health and the environment and can only be regulated to acceptable levels by Permit modification or termination.

C. SEVERABILITY

The provisions of this Permit are severable, and if any provision of this Permit or the application of any provision of this Permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Permit shall not be affected thereby.

D. CONFIDENTIALITY

In accordance with 40 CFR Part 2 and 40 CFR § 144.5, any information submitted to EPA pursuant to this Permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the permittee; and
- information which deals with the existence, absence, or level of contaminants in drinking water.

E. GENERAL DUTIES AND REQUIREMENTS

1. **Duty to Comply.** The permittee shall comply with all conditions of this Permit, except to the extent and for the duration such noncompliance is authorized by an emergency Permit. Any Permit noncompliance constitutes a violation of the SDWA and is grounds for enforcement action, Permit termination, revocation and reissuance, or modification. Such noncompliance may also be grounds for enforcement action under the Resource Conservation and Recovery Act (RCRA).
2. **Penalties for Violations of Permit Conditions.** Any person who violates a Permit requirement is subject to civil penalties, fines, and other enforcement action under the SDWA and may be subject to such actions pursuant to the RCRA. Any person who willfully violates Permit conditions may be subject to criminal prosecution.
3. **Need to Halt or Reduce Activity not a Defense.** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

4. **Duty to Mitigate.** The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Permit.
5. **Proper Operation and Maintenance.** The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up, or auxiliary facilities or similar systems, only when necessary, to achieve compliance with the conditions of this Permit.
6. **Duty to Provide Information.** The permittee shall furnish the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Permit, or to determine compliance with the Permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this Permit.
7. **Inspection and Entry.** The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:
 - (a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit;
 - (b) have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;
 - (c) inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and
 - (d) sample or monitor, at reasonable times, for the purpose of assuring Permit compliance or as otherwise authorized by the SDWA any substances or parameters at any location.
8. **Records of Permit Application.** The permittee shall maintain records of all data required to complete the Permit application and any supplemental information submitted for a period of five (5) years from the effective date of this Permit. This period may be extended by request of the Director at any time.

9. **Signatory Requirements.** All reports or other information requested by the Director shall be signed and certified according to 40 CFR § 144.32.
10. **Reporting of Noncompliance.**
- (a) **Anticipated Noncompliance.** The operator shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with Permit requirements.
 - (b) **Compliance Schedules.** Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted **no later than thirty (30) days** following each schedule date.
 - (c) **Written Notice** of any noncompliance which may endanger health or the environment **shall be provided to the Director within five (5) days** of the time the operator becomes aware of the noncompliance. The written notice shall contain a description of the noncompliance and its cause; the period of no compliance including dates and times; if the noncompliance has not been corrected the anticipated time it is expected to continue; and steps taken or planned to prevent or reduce recurrence of the noncompliance.
11. **Twenty-Four Hour of Noncompliance Reporting.** The operator shall report to the Director any noncompliance which may endanger health or environment. Information shall be provided, either orally or by leaving a message, within twenty-four (24) hours from the time the operator becomes aware of the circumstances by telephoning 1.800.227.8917 and asking for the EPA Region VIII UIC Program Compliance and Enforcement Director, or by contacting the Region VIII Emergency Operations Center at 303.293.1788 if calling from outside the EPA Region VIII. The following information shall be included in the verbal report:
- (a) Any monitoring or other information which indicates that any contaminant may cause an endangerment to a USDW.
 - (b) Any noncompliance with a Permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.
12. **Oil Spill and Chemical Release Reporting.** The operator shall comply with all reporting requirements related to oil spills and chemical releases or other potential impacts to human health or the environment by contacting the National Response Center (NRC) at 1.800.424.8802, or 202.267.2675, or through the NRC website at <http://www.nrc.uscg.mil/index.htm>.

13. **Other Noncompliance.** The operator shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted. The reports shall contain the information listed in Part III. E. 10. (c). of this Permit.

14. **Other Information.** Where the operator becomes aware that he failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application, or in any report to the Director, the operator shall submit such correct facts or information within two (2) weeks of such time such information became known to him.

APPENDIX A
(Conversion Details)

Surface casing

Size 9 5/8"
Weight 36#
Grade K-55
Cmtd w/ 175 sxs

Set @ 450'
Hole size 12 1/4"

Utaha Fm @ Surface

Base Utaha USDWs

3056 -

- 3050 Top Green River Fm.

Top 80% Bond Index Cement: 3688'-3762' -

- 3630 Top Cement by Applicant: R/E CBL

2-7/8" tubing

5-1/2" Casing in 7-7/8" hole
Packer set below 5406'

80% Bond Index Cement Bond 5344'-73'

Conf. Zone: 5328'-5506'

- 5506'-5513'
- 5613'-5617'
- 5622'-5628'
- 5645'-5647'
- 5663'-5665'

PBTD 5866'
TD 5883'

APPENDIX B

(Reporting Forms and Instructions)

1. EPA Form 7520- 7: APPLICATION TO TRANSFER PERMIT
2. EPA Form 7520-10: COMPLETION REPORT FOR BRINE DISPOSAL WELL
3. EPA Form 7520-11: ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT
4. EPA Form 7520-12: WELL REWORK RECORD
5. EPA Form 7520-13: PLUGGING RECORD

United States Environmental Protection Agency
 Washington, DC 20460



Application To Transfer Permit

Name and Address of Existing Permittee	Name and Address of Surface Owner
--	-----------------------------------

Locate Well and Outline Unit on Section Plat- 640 Acres 	State	County	Permit Number
	Surface Location Description ___ 1/4 of ___ 1/4 of ___ 1/4 of ___ 1/4 of Section ___ Township ___ Range ___		
	Locate well in two directions from nearest lines of quarter section and drilling unit		
	Surface Location ___ ft. from (N/S) ___ Line of quarter section and ___ ft. from (E/W) ___ Line of quarter section.		
Well Activity <input type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Brine Disposal <input type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Hydrocarbon Storage <input type="checkbox"/> Class III <input type="checkbox"/> Other		Well Status <input type="checkbox"/> Operating <input type="checkbox"/> Modification/Conversion <input type="checkbox"/> Proposed	Type of Permit <input type="checkbox"/> Individual <input type="checkbox"/> Area Number of Wells ___
Lease Number		Well Number	

Name(s) and Address(es) of New Owners(s)	Name and Address of New Operator
--	----------------------------------

Attach to this application a written agreement between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them.

The new permittee must show evidence of financial responsibility by the submission of a surety bond, or other adequate assurance, such as financial statements or other materials acceptable to the Director.

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)	Signature	Date Signed
--	-----------	-------------



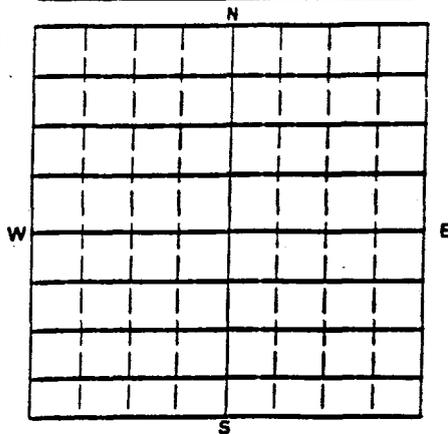
**COMPLETION REPORT FOR BRINE DISPOSAL,
HYDROCARBON STORAGE, OR ENHANCED RECOVERY WELL**

Approval Expires 6-30-98

NAME AND ADDRESS OF EXISTING PERMITTEE

NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON
SECTION PLAT — 640 ACRES



STATE _____ COUNTY _____ PERMIT NUMBER _____

SURFACE LOCATION DESCRIPTION
____ 1/4 of ____ 1/4 of ____ 1/4 of ____ 1/4 of Section ____ Township ____ Range ____

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

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

WELL ACTIVITY

TYPE OF PERMIT

- Brine Disposal
- Enhanced Recovery
- Hydrocarbon Storage

- Individual
- Area

Estimated Fracture Pressure
of Injection Zone _____

Number of Wells _____

Anticipated Daily Injection Volume (Bbls)		Injection Interval	
Average	Maximum	Feet	to Feet
Anticipated Daily Injection Pressure (PSI)		Depth to Bottom of Lowermost Freshwater Formation (Feet)	
Average	Maximum		

Type of Injection Fluid (Check the appropriate block(s))

- Salt Water
- Brackish Water
- Fresh Water
- Liquid Hydrocarbon
- Other

Lease Name _____ Well Number _____
Name of Injection Zone _____

Date Drilling Began _____ Date Well Completed _____ Permeability of Injection Zone _____

Date Drilling Completed _____ Porosity of Injection Zone _____

CASING AND TUBING			CEMENT		HOLE	
OD Size	Wt./Ft — Grade — New or Used	Depth	Sacks	Class	Depth	Bit Diameter

INJECTION ZONE STIMULATION		WIRE LINE LOGS. LIST EACH TYPE	
Interval Treated	Materials and Amount Used	Log Type	Logged Intervals

Complete Attachments A — E listed on the reverse.

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)

DATE SIGNED



PLUGGING RECORD

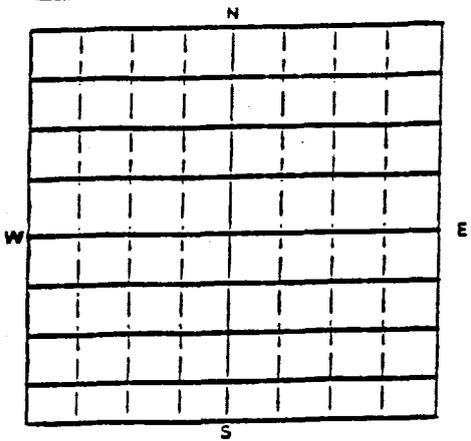
NAME AND ADDRESS OF PERMITTEE

NAME AND ADDRESS OF CEMENTING COMPANY

STATE _____ COUNTY _____

PERMIT NUMBER _____

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT - 640 ACRES



SURFACE LOCATION DESCRIPTION

1/4 OF _____ 1/4 OF _____ 1/4 SECTION _____ TOWNSHIP _____ RANGE _____

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

Surface Location _____ ft. from (N/S) _____ Line of quarter section

and _____ ft. from (E/W) _____ Line of quarter section

TYPE OF AUTHORIZATION

- Individual Permit
- Area Permit
- Rule

Number of Wells _____

(Describe in detail the manner in which the fluid was placed and the method used in increasing it into the hole)

Lease Name _____

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB./FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE

- WELL ACTIVITY
- CLASS I
 - CLASS II
 - Brine Disposal
 - Enhanced Recovery
 - Hydrocarbon Storage
 - CLASS III
- METHOD OF EMPLACEMENT OF CEMENT PLUGS
- The Balance Method
 - The Gumbo Sucker Method
 - The Two-Plug Method
 - Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)							
Depth to Bottom of Tubing or Drill Pipe (ft.)							
Sacks of Cement To Be Used (each plug)							
Slurry Volume To Be Pumped (cu. ft.)							
Calculated Top of Plug (ft.)							
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)							
Type Cement or Other Material (Class III)							

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

From	To	From	To

Signature of Cementer or Authorized Representative

Signature of EPA Representative

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (REF. 40 CFR 122.22)

NAME AND OFFICIAL TITLE (Please type or print)

SIGNATURE

DATE SIGNED

APPENDIX C

PLUGGING & ABANDONMENT PLAN

RED WASH UNIT NO. 11-29B

PLUGGING AND ABANDONMENT PLAN

The Plugging and Abandonment Plan submitted by the applicant consists of five (5) cement plugs. This Plan is incorporated into this Permit. The Plan has been reviewed and approved by the EPA. The Plan is consistent with UIC requirements.

NOTE: CEMENT PLUGS ARE TO SEPARATED BY BENTONITE MUD OR A 9.5 POUND PER GALLON PLUGGING GEL (BRINE WATER WITH A GELLING AGENT).

PLUG NO. 1: Set a cast iron bridge plug (CIBP) approximately 5456 feet. Place thirty-five (35) feet of Class G cement on CIBP.

PLUG NO. 2: Set Class G cement plug inside of the 5-1/2 inch casing from 3854 feet to 4016 feet.

PLUG NO. 3: At 3050 feet, cut and pull 5-1/2 inch casing. Set Class G cement plug on 5-1/2 inch casing stub from 3000 feet to 3100 feet.

PLUG NO. 4: Set Class G cement plug inside of the 5-1/2 inch casing and 7-7/8 inch hole from 400 feet to 500 feet.

PLUG NO. 5: Set Class G cement plug inside of the 5-1/2 inch casing from the surface to a depth of fifty (50) feet.

SHENANDOAH ENERGY INC.

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

RECEIVED
FEB 10 2003

DIV. OF OIL, GAS & MINING

February 6, 2003

Mr. Al Craver
UIC Program
United States Environmental Protection Agency
Region VIII
999 18th STREET - SUITE 300
DENVER, CO 80202-2466
SENF-T

RE: RWU #11-29B MIT Failure

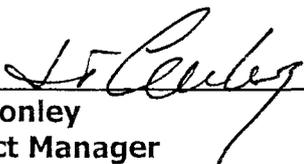
Dear Mr. Craver:

The subject well was discovered to have positive pressure on the tubing-casing annulus. The pressure bled off in less than one minute, but the pressure returned the following day. We suspect the tubing has a slight thread seep causing the pressure buildup because it bled off quickly and does not flow. The well has been shut-in and we intend to rework the well to repair the problem.

Red Wash Unit
Uintah County, Utah
RWU #11-29B EPA ID# UT20915-04629

If you have questions or need additional information, 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

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: _____ DATE: 2-25-03 TIME: 9:50 AM PM
TEST CONDUCTED BY: LYNN SMITH (ADVANTAGE OIL FIELD SERVO. INC)
OTHERS PRESENT: Dennis J Paulson

WELL NAME: <u>RW11 11-29 B</u>	TYPE: <input checked="" type="checkbox"/> ER	SWD: <input type="checkbox"/> SWD	STATUS: <input checked="" type="checkbox"/> AC	TA: <input type="checkbox"/> TA	UC: <input type="checkbox"/> UC
FIELD: <u>Red Wash</u>					
WELL LOCATION: <u>NWNW 529 T7</u>	<input type="checkbox"/> N	<input checked="" type="checkbox"/> S	<input checked="" type="checkbox"/> R23	<input type="checkbox"/> E	<input type="checkbox"/> W
COUNTY: UINTAH STATE: UTAH					
OPERATOR: SHENANDOAH ENERGY INC.					
LAST MIT: <u>12-13-02</u>		MAXIMUM ALLOWABLE PRESSURE: <u>1898</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: _____ BPD

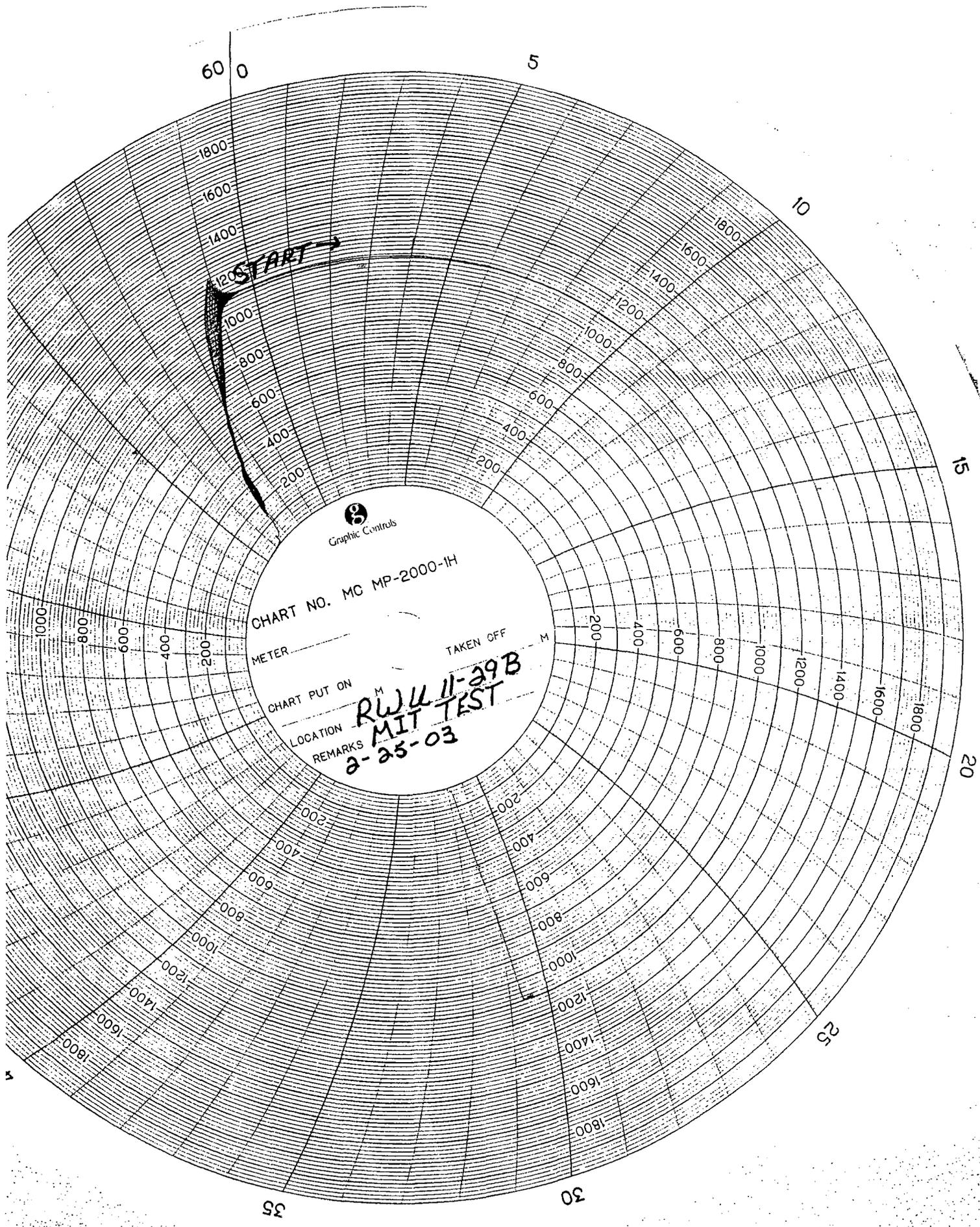
PRE-TEST CASING/TUBING ANNULUS PRESSURE: 0 :PSIG

MIT DATA TABLE	TEST #1	TEST #2	TEST #3
TUBING	PRESSURE		
INITIAL PRESSURE	<u>460</u> PSIG	PSIG	PSIG
END OF TEST PRESSURE	<u>460</u> PSIG	PSIG	PSIG
CASING/TUBING	ANNULUS PRESSURE		
0 MINUTES	<u>1115</u> PSIG	PSIG	PSIG
5 MINUTES	<u>1105</u> PSIG	PSIG	PSIG
10 MINUTES	<u>1105</u> PSIG	PSIG	PSIG
15 MINUTES	<u>1100</u> PSIG	PSIG	PSIG
20 MINUTES	<u>1100</u> PSIG	PSIG	PSIG
25 MINUTES	<u>1100</u> PSIG	PSIG	PSIG
30 MINUTES	<u>1100</u> PSIG	PSIG	PSIG
MINUTES	PSIG	PSIG	PSIG
MINUTES	PSIG	PSIG	PSIG
RESULT	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> PASS
	<input type="checkbox"/> FAIL	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL

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

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

43-047-33590



Graphic Controls

CHART NO. MC MP-2000-1H

METER _____ TAKEN OFF _____ M

CHART PUT ON _____

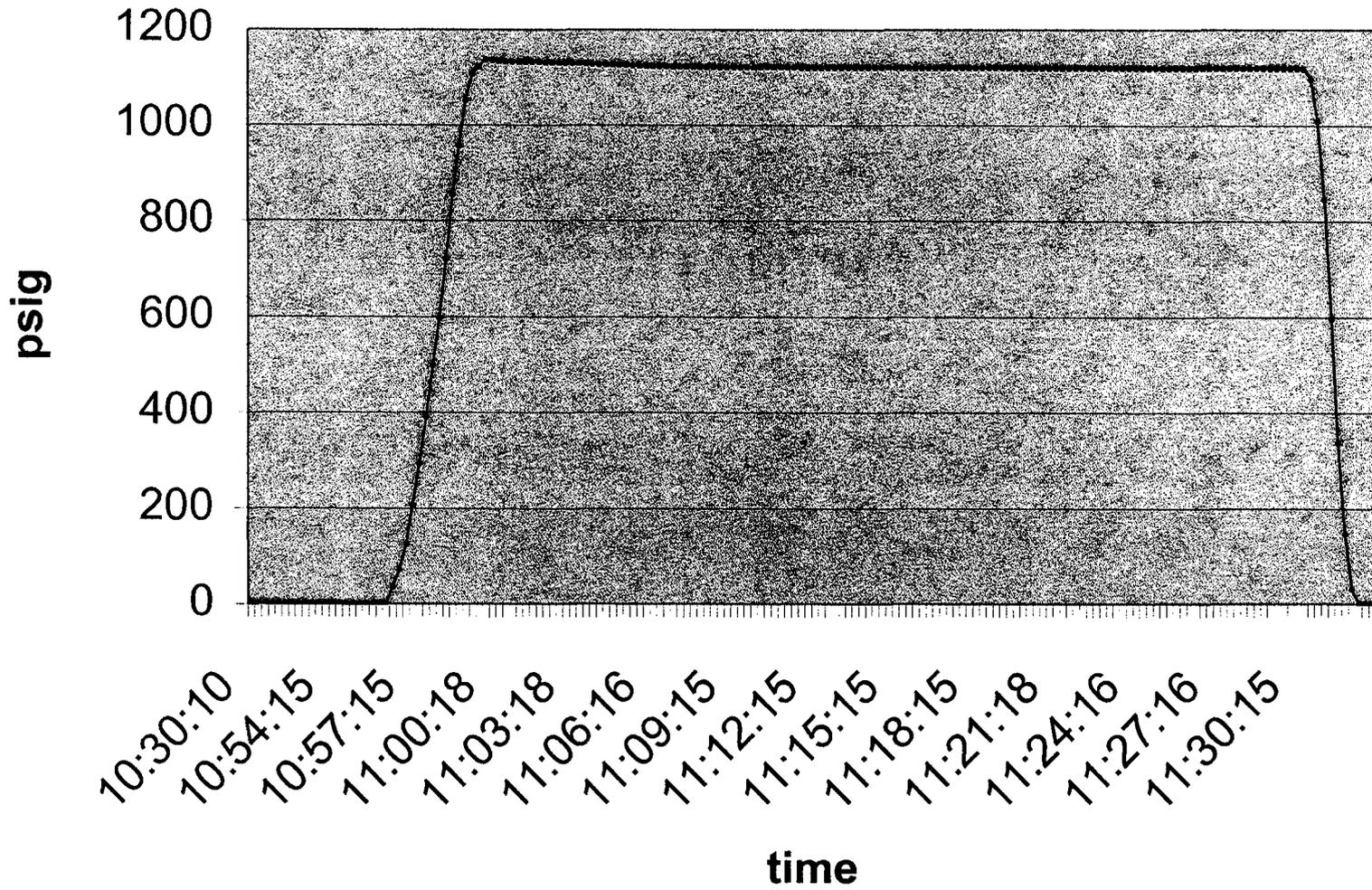
LOCATION **RWU 11-29B**

REMARKS **MIT TEST**

2-25-03

11-29B MIT

— PSIG



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

WELL REWORK RECORD

NAME AND ADDRESS OF PERMITTEE
Questar Exploration and Production (Shenandoah Energy)
1050 17th Street, Suite 500
Denver, Colorado 80265

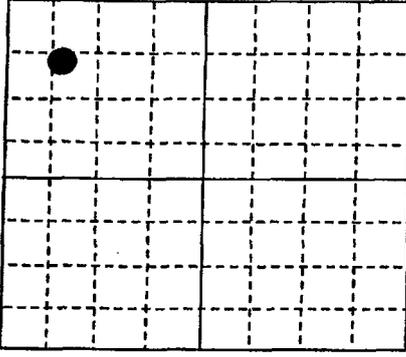
NAME AND ADDRESS OF CONTRACTOR
Advantage Oil Field Service, Inc.

Locate Well and Outline Unit on
Section Plat - 640 Acres

STATE
Utah

COUNTY
Uintah

PERMIT NUMBER
UT2915-04629



SURFACE LOCATION DESCRIPTION
1/4 of 1/4 of NW 1/4 of NW 1/4 of Section 29 Township 7S Range 23E

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

Surface Location 786 ft. From (N/S) North Line of Quarter Section
And 818 ft. From (E/W) West Line of Quarter Section

WELL ACTIVITY

Brine Disposal

Enhanced Recovery

Hydrocarbon Storage

Lease Name
Red Wash Unit

Total Depth Before Rework
5883'

Total Depth After Rework
5883'

Date Rework Commenced
2/13/03

Date Rework Completed
2/19/03

TYPE OF PERMIT

Individual

Area

Number of Wells _____
Well Number RWU 11-29B

WELL CASING RECORD - BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	
9-5/8"	450'	175	K-55			
5-1/2"	5879'	785	J-55	5506'	5665'	

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

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	
9-5/8"	450'	175	K-55			
5-1/2"	5879'	785	J-55	5506'	5665'	

DESCRIBE REWORK OPERATIONS IN DETAIL
USE ADDITIONAL SHEETS IF NECESSARY

WIRE LINE LOGS, LIST EACH TYPE

Remove and replace tubing string. Replace with J-55 EUE 8rd 6.5 # tubing.
Tubing set at 5445', packer set at 5445.

Log Types	Logged Intervals

CERTIFICATION

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

NAME AND OFFICIAL TITLE
Scott M. Webb/Regulatory Coordinator

SIGNATURE

DATE SIGNED
3/3/03

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

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.

5. Lease Serial No.
UTU-02025

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

8. Well Name and No.
RWU 11-29B

9. API Well No.
43-047-33590

10. Field and Pool, or Exploratory
RED WASH

11. County or Parish, and State
UINTAH COUNTY, UT

1. Type of Well
 Oil Well Gas Well Other *WI*

2. Name of Operator
SHENANDOAH ENERGY
Contact: DAHN F. CALDWELL
E-Mail: dahn.caldwell@questar.com

3a. Address
11002 E. 17500 S.
VERNAL, UT 84078
3b. Phone No. (include area code)
Ph: 435.781.4342
Fx: 435.781.4357

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 29 T7S R23E NWNW 786FNL 819FWL

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input 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 checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input checked="" 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"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input 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 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 BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a 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.)

WO to repair MIT leak and return well to injection.

- 1 - ND Inj Line, NU flow back link to tank.
- 2 - ND WH, NU BOP's - release 5-1/2" arrow set pkr, flush tbg w/ 40 bbls hot water.
- 3 - POOH & LD tbg, 2-7/8" to 2-3/8" x-over, 'F' nipple, 5-1/2" arrow set pkr.
- 4 - Remove thread protectors, tally in hole w/ redressed 5-1/2" arrow set pkr, 1.81" 'F' nipple, 2-3/8" x 2-7/8" x-over, 180 jts of new tbg. EOT @ 5445'.
- 5 - ND BOP's, NU WH & land tbg.
- 6 - NU Injection line - rack out pump and tank. RDMO on 2/19/03.
- 7 - Perfs 5506-13', 5530-35', 5570-76', 5645-47 & 5663-65'.

RECEIVED
MAR 24 2003
DIV. OF OIL, GAS & MINING

~~CONFIDENTIAL - TIGHT HOLE~~

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #19804 verified by the BLM Well Information System For SHENANDOAH ENERGY, sent to the Vernal

Name (Printed/Typed) **MARC SCHUTT** Title **PETROLEUM ENGINEER**

Signature *Marc Schutt (dfe)* (Electronic Submission) Date **03/20/2003**

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.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

~~CONFIDENTIAL~~

Additional data for EC transaction #19804 that would not fit on the form

32. Additional remarks, continued

Do not release well information without permission from Shenandoah Energy, Inc.

RECEIVED
MAR 24 2003
DIV. OF OIL, GAS & MINING

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: Red Wash 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 Red Wash 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 Red Wash Unit Agreement.

Your nationwide (Eastern States) oil and gas bond No. B000024 will be used to cover all operations within the Red Wash 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 – Red Wash Unit (w/enclosure)
Agr. Sec. Chron
Fluid Chron

UT922:TAThompson:tt:6/9/03

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number <u>See Attached List</u>		API Number
Location of Well		Field or Unit Name <u>Red Wash</u>
Footage :	County : <u>Wintah</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: Public Services Manager

Approval Date: 9-10-03

Comments: Case # 105-01
located in Indian Country, EPA
is primary use Agency.

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

well_name	Sec	T	R	api	Entity	Lease Type	type	stat	Field	Footages
RED WASH UNIT 261	17	070S	230E	4304732739	5670	Federal	WI	A	Red Wash	1785 FSL, 1843 FWL
RWU 100-A (43-21A)	21	070S	220E	4304715219	5670	Federal	WI	A	Red Wash	1787 FSL, 534 FEL
RWU 102 (41-24A)	24	070S	220E	4304715221	5670	Federal	WI	A	Red Wash	1360 FNL, 660 FEL
RWU 11	27	070S	230E	4304715142	5670	Federal	WI	A	Red Wash	660 FSL, 2030 FEL
RWU 11-19B	19	070S	230E	4304733552	5670	Federal	WI	A	Red Wash	618 FNL, 477 FWL
RWU 11-20B	20	070S	230E	4304733553	5670	Federal	WI	A	Red Wash	761 FNL, 677 FWL
RWU 11-25A	25	070S	220E	4304733574	5670	Federal	WI	A	Red Wash	1206 FNL, 491 FWL
RWU 11-29B	29	070S	230E	4304733590	5670	Federal	WI	A	Red Wash	786 FNL, 819 FWL
RWU 11-30B	30	070S	230E	4304733785	5670	Federal	WI	A	Red Wash	590 FNL, 787 FWL
RWU 12-24A	24	070S	220E	4304733591	5670	Federal	WI	A	Red Wash	1528 FNL, 930 FWL
RWU 13-19B	19	070S	230E	4304733497	5670	Federal	WI	A	Red Wash	1802 FSL, 374 FWL
RWU 13-20B	20	070S	230E	4304733498	5670	Federal	WI	A	Red Wash	2143' FSL, 704' FWL
RWU 13-25A	25	070S	220E	4304733575	5670	Federal	WI	A	Red Wash	1446 FSL, 664 FWL
RWU 14 (14-13B)	13	070S	230E	4304715144	5670	Federal	WI	A	Red Wash	660 FSL, 660 FWL
RWU 148 (13-22B)	22	070S	230E	4304715261	5670	Federal	WI	A	Red Wash	2073 FSL, 660 FWL
RWU 150 (31-22B)	22	070S	230E	4304715263	5670	Federal	WI	I	Red Wash	595 FNL, 1935 FEL
RWU 156 (23-15B)	15	070S	230E	4304715267	5670	Federal	WI	A	Red Wash	2115 FSL, 1982 FWL
RWU 16 (43-28B)	28	070S	230E	4304716475	5670	Federal	WI	I	Red Wash	1980 FSL, 660 FEL
RWU 161 (14-20B)	20	070S	230E	4304715271	5670	Federal	WI	I	Red Wash	660 FSL, 678 FWL
RWU 17 (41-20B)	20	070S	230E	4304715146	5670	Federal	WI	A	Red Wash	660 FNL, 660 FEL
RWU 170 (41-15B)	15	070S	230E	4304716495	5670	Federal	WI	I	Red Wash	660 FNL, 660 FEL
RWU 173 (21-21B)	21	070S	230E	4304716496	5670	Federal	WI	A	Red Wash	660 FNL, 1980 FWL
RWU 174 (21-20B)	20	070S	230E	4304715281	5670	Federal	WI	A	Red Wash	660 FNL, 1980 FWL
RWU 182 (14-21B)	21	070S	230E	4304716497	5670	Federal	WI	A	Red Wash	629 FSL, 652 FWL
RWU 183 (33-13B)	13	070S	230E	4304715289	5670	Federal	WI	A	Red Wash	1833 FSL, 2027 FEL
RWU 185 (41-1B)	14	070S	230E	4304716498	5670	Federal	WI	A	Red Wash	747 FNL, 660 FEL
RWU 199 (43-22A)	22	070S	220E	4304715301	5670	Federal	WI	A	Red Wash	1980 FSL, 658 FEL
RWU 2 (14-24B)	24	070S	230E	4304716472	5670	Federal	WI	A	Red Wash	735 FSL, 790 FWL
RWU 202 (21-34A)	34	070S	220E	4304715303	5670	Federal	WI	I	Red Wash	660 FNL, 1980 FWL
RWU 213 (41-33B)	33	070S	230E	4304720060	5670	Federal	WD	A	Red Wash	660 FNL, 580 FEL
RWU 215 (43-28A)	28	070S	220E	4304730058	5670	Federal	WI	A	Red Wash	1980' FSL, 661 FEL
RWU 216 (21-27A)	27	070S	220E	4304730103	5670	Federal	WI	A	Red Wash	660 FNL, 1976 FWL
RWU 23 (21-23B)	23	070S	230E	4304715151	5670	Federal	WI	A	Red Wash	695 FNL, 2015 FWL
RWU 23-18C (97)	18	070S	240E	4304715216	5670	Federal	WI	I	Red Wash	1956 FSL, 1699 FWL
RWU 25 (23-23B)	23	070S	230E	4304716476	5670	Federal	WI	A	Red Wash	1980 FSL, 1980 FWL
RWU 258 (34-22A)	22	070S	220E	4304730458	5670	Federal	WI	A	Red Wash	885 FSL, 2025 FEL

RWU 263 (24-26B)	26	070S	230E	4304730518	5670	Federal	WI	I	Red Wash	591 FSL, 2007 FWL
RWU 264 (31-35B)	35	070S	230E	4304730519	5670	Federal	WI	A	Red Wash	687 FNL, 2025 FEL
RWU 266 (33-26B)	26	070S	230E	4304730521	5670	Federal	WI	I	Red Wash	1980 FSL, 1980 FEL
RWU 268 (43-17B)	17	070S	230E	4304732980	5670	Federal	WI	A	Red Wash	1924 FSL, 981 FEL
RWU 269 (13-26B)	26	070S	230E	4304730522	5670	Federal	WI	I	Red Wash	2170' FSL, 670' FWL
RWU 271 (42-35B)	35	070S	230E	4304731081	5670	Federal	WI	I	Red Wash	1979 FNL, 660 FEL
RWU 274 (13-25B)	25	070S	230E	4304731083	5670	Federal	WI		Red Wash	2129 FSL, 659 FWL
RWU 275 (31-26B)	26	070S	230E	4304731077	5670	Federal	WI	A	Red Wash	675 FNL, 1869 FEL
RWU 279 (11-36B)	36	070S	230E	4304731052	5670	Federal	WI	A	Red Wash	659 FNL, 660 FWL
RWU 283 (43-18B)	18	070S	230E	4304732982	5670	Federal	WI	A	Red Wash	1899 FSL, 708 FEL
RWU 31-19B	19	070S	230E	4304733555	5670	Federal	WI	A	Red Wash	601 FNL, 1770 FEL
RWU 31-25A	25	070S	220E	4304733577	5670	Federal	WI	A	Red Wash	1248 FNL, 2159 FEL
RWU 31-30B	30	070S	230E	4304733788	5670	Federal	WI	A	Red Wash	950 FNL, 1943 FEL
RWU 33-19B	19	070S	230E	4304733499	5670	Federal	WI	A	Red Wash	2606 FSL, 1851 FEL
RWU 33-20B	20	070S	230E	4304733500	5670	Federal	WI	A	Red Wash	2210 FSL, 2295 FEL
RWU 33-25A	25	070S	220E	4304733578	5670	Federal	WI	A	Red Wash	1413 FSL, 1809 FEL
RWU 33-30B	30	070S	230E	4304733790	5670	Federal	WI	A	Red Wash	1775 FSL, 1937 FEL
RWU 34 (23-14B)	14	070S	230E	4304715161	5670	Federal	WI	A	Red Wash	1980 FSL, 1980 FWL
RWU 34-13A	13	070S	220E	4304733593	5670	Federal	WI	A	Red Wash	1302 FSL, 1725 FEL
RWU 34-24A	24	070S	220E	4304733568	5670	Federal	WI	A	Red Wash	1295 FSL, 2125 FEL
RWU 48 (32-19B)	19	070S	230E	4304715174	5670	Federal	WI	I	Red Wash	1830 FNL, 1980 FEL
RWU 56 (41-28B)	28	070S	230E	4304715182	5670	Federal	WI	A	Red Wash	660 FNL, 660 FEL
RWU 59 (12-24B)	24	070S	230E	4304716477	5670	Federal	WI	A	Red Wash	1980 FNL, 660 FWL
RWU 6 (41-21B)	21	070S	230E	4304716482	5670	Federal	WI	A	Red Wash	660' FNL, 660 FEL
RWU 61 (12-27A)	27	070S	220E	4304716478	5670	Federal	WI	I	Red Wash	2034 FNL, 689 FWL
RWU 68 (41-13B)	13	070S	230E	4304716485	5670	Federal	WI	I	Red Wash	660 FNL, 660 FEL
RWU 7 (41-27B)	27	070S	230E	4304716473	5670	Federal	WI	I	Red Wash	567 FNL, 621 FEL
RWU 88 (23-18B)	18	070S	230E	4304715210	5670	Federal	WI	A	Red Wash	1980 FSL, 1980 FWL
RWU 91 (33-22B)	22	070S	230E	4304716479	5670	Federal	WI	A	Red Wash	1980 FSL, 3300 FWL
RWU 93 (43-27B)	27	070S	230E	4304716480	5670	Federal	WI	I	Red Wash	660 FSL, 660 FEL
RWU 324 (23-16B)	16	070S	230E	4304733084	5670	State	WI	I	Red Wash	1274 FSL, 1838 FWL

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: RED WASH UNIT

WELL(S)									Confid
NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS	
RWU 100-A (43-21A)	21	070S	220E	4304715219	5670	Federal	WI	A	
RWU 102 (41-24A)	24	070S	220E	4304715221	5670	Federal	WI	A	
RWU 12-24A	24	070S	220E	4304733591	5670	Federal	WI	A	
RWU 11-25A	25	070S	220E	4304733574	5670	Federal	WI	A	
RWU 13-25A	25	070S	220E	4304733575	5670	Federal	WI	A	
RWU 14 (14-13B)	13	070S	230E	4304715144	5670	Federal	WI	A	
RWU 156 (23-15B)	15	070S	230E	4304715267	5670	Federal	WI	A	
RED WASH UNIT 261	17	070S	230E	4304732739	5670	Federal	WI	A	
RWU 11-19B	19	070S	230E	4304733552	5670	Federal	WI	A	
RWU 13-19B	19	070S	230E	4304733497	5670	Federal	WI	A	
RWU 11-20B	20	070S	230E	4304733553	5670	Federal	WI	A	
RWU 13-20B	20	070S	230E	4304733498	5670	Federal	WI	A	
RWU 161 (14-20B)	20	070S	230E	4304715271	5670	Federal	WI	I	
RWU 17 (41-20B)	20	070S	230E	4304715146	5670	Federal	WI	A	
RWU 148 (13-22B)	22	070S	230E	4304715261	5670	Federal	WI	A	
RWU 150 (31-22B)	22	070S	230E	4304715263	5670	Federal	WI	I	
RWU 11	27	070S	230E	4304715142	5670	Federal	WI	A	
RWU 16 (43-28B)	28	070S	230E	4304716475	5670	Federal	WI	I	
RWU 11-29B	29	070S	230E	4304733590	5670	Federal	WI	A	
RWU 11-30B	30	070S	230E	4304733785	5670	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
- If **NO**, the operator was contacted on: _____

6. (R649-9-2)Waste Management Plan has been received on: IN PLACE

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 7/21/2003

8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 7/21/2003

9. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 9/10/2003

DATA ENTRY:

- 1. Changes entered in the **Oil and Gas Database** on: 9/16/2003
- 2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 9/16/2003
- 3. Bond information entered in RBDMS on: n/a
- 4. Fee wells attached to bond in RBDMS on: n/a

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: 965-003-032

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: ESB000024

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 799446

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 965-003-033

2. The **FORMER** operator has requested a release of liability from their bond on: n/a
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

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

COMMENTS:

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
MFO

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
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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)
RED WASH 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
RWU 1 (41-26B)	RW 41-26B	NENE	26	070S	230E	4304715135	5670	Federal	OW	TA
RWU 3 (34-23B)	RW 34-23B	SWSE	23	070S	230E	4304715136	5670	Federal	OW	P
RWU 4 (41-22B)	RW 41-22B	NENE	22	070S	230E	4304715137	5670	Federal	OW	TA
RWU 5 (41-23B)	RW 41-23B	NENE	23	070S	230E	4304715138	5670	Federal	OW	P
RWU 8 (32-22B)	RW 32-22B	SWNE	22	070S	230E	4304715139	5670	Federal	OW	P
RWU 9 (43-23B)	RW 43-23B	NESE	23	070S	230E	4304715140	5670	Federal	OW	P
RWU 10 (12-23B)	RW 12-23B	SWNW	23	070S	230E	4304715141	5670	Federal	OW	TA
RWU 11	RW 34-27B	SWSE	27	070S	230E	4304715142	99996	Federal	WI	A
RWU 13 (14-22B)	RW 14-22B	SWSW	22	070S	230E	4304715143	5670	Federal	OW	TA
RW 14-13B	RW 14-13B	SWSW	13	070S	230E	4304715144	99996	Federal	WI	A
RWU 15 (32-17C)	RW 32-17C	SWNE	17	070S	240E	4304715145	5670	Federal	OW	P
RWU 17 (41-20B)	RW 41-20B	NENE	20	070S	230E	4304715146	5670	Federal	WI	A
RWU 19 (34-26B)	RW 34-26B	SWSE	26	070S	230E	4304715148	5670	Federal	GW	S
RWU 21 (32-14B)	RW 32-14B	SWNE	14	070S	230E	4304715150	5670	Federal	OW	P
RWU 23 (21-23B)	RW 21-23B	SENE	23	070S	230E	4304715151	99996	Federal	WI	A
RWU 24 (34-14B)	RW 34-14B	SWSE	14	070S	230E	4304715152	5670	Federal	OW	S
RWU 26 (23-22B)	RW 23-22B	NESW	22	070S	230E	4304715153	5670	Federal	OW	TA
RWU 27 (43-14B)	RW 43-14B	NESE	14	070S	230E	4304715154	5670	Federal	OW	TA
RWU 28 (43-22B)	RW 43-22B	NESE	22	070S	230E	4304715155	5670	Federal	OW	P
RWU 29 (32-23B)	RW 32-23B	SWNE	23	070S	230E	4304715156	5670	Federal	OW	P
RW 23-13B	RW 23-13B	NESW	13	070S	230E	4304715157	5670	Federal	GW	TA
RWU 31 (34-22B)	RW 34-22B	SWSE	22	070S	230E	4304715158	5670	Federal	OW	P
RWU 33 (14-14B)	RW 14-14B	SWSW	14	070S	230E	4304715160	5670	Federal	GW	TA
RWU 34 (23-14B)	RW 23-14B	NESW	14	070S	230E	4304715161	99996	Federal	WI	A
RW 43-13B	RW 43-13B	NESE	13	070S	230E	4304715162	5670	Federal	OW	TA
RWU 36 (32-13B)	RW 32-13B	SWNE	13	070S	230E	4304715163	5670	Federal	GW	P
RWU 38 (14-23B)	RW 14-23B	SWSW	23	070S	230E	4304715165	5670	Federal	OW	P
RWU 39 (14-24A)	RW 14-24A	SWSW	24	070S	220E	4304715166	5670	Federal	OW	TA
RWU 40 (21-24B)	RW 21-24B	NENW	24	070S	230E	4304715167	5670	Federal	OW	TA
RWU 41 (34-13B)	RW 34-13B	SWSE	13	070S	230E	4304715168	5670	Federal	OW	P
RWU 42 (21-29C)	RW 21-29C	NENW	29	070S	240E	4304715169	5670	Federal	GW	P
RWU 43 (12-17B)	RW 12-17B	SWNW	17	070S	230E	4304715170	5670	Federal	OW	P
RWU 44 (32-33C)	RW 32-33C	SWNE	33	070S	240E	4304715171	5670	Federal	GW	P
RWU 45 (23-30B)	RW 23-30B	NESW	30	070S	230E	4304715172	5670	Federal	OW	TA
RWU 46 (41-21C)	RW 41-21C	NENE	21	070S	240E	4304715173	5670	Federal	GW	TA
RWU 48 (32-19B)	RW 32-19B	SWNE	19	070S	230E	4304715174	99996	Federal	WI	I
RWU 49 (12-29B)	RW 12-29B	SWNW	29	070S	230E	4304715175	5670	Federal	OW	TA
RWU 50 (14-23A)	RW 14-23A	SWSW	23	070S	220E	4304715176	5670	Federal	OW	P
RWU 52 (14-18B)	RW 14-18B	SWSW	18	070S	230E	4304715178	5670	Federal	OW	TA
RWU 53 (41-25A)	RW 41-25A	NENE	25	070S	220E	4304715179	5670	Federal	OW	TA
RWU 56 (41-28B)	RW 41-28B	NENE	28	070S	230E	4304715182	99996	Federal	WI	A

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)
RED WASH 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
RWU 57 (12-18C)	RW 12-18C	SWNW	18	070S	240E	4304715183	5670	Federal	OW	P
RWU 63 (21-22B)	RW 21-22B	NENW	22	070S	230E	4304715186	5670	Federal	GW	TA
RWU 64 (32-27B)	RW 32-27B	SWNE	27	070S	230E	4304715187	5670	Federal	OW	TA
RWU 66 (34-18B)	RW 34-18B	SWSE	18	070S	230E	4304715189	5670	Federal	OW	P
RWU 67 (42-22B)	RW 42-22B	SENE	22	070S	230E	4304715190	5670	Federal	OW	TA
RWU 69 (21-27B)	RW 21-27B	NENW	27	070S	230E	4304715191	5670	Federal	OW	TA
RWU 70 (23-22A)	RW 23-22A	NESW	22	070S	220E	4304715192	5670	Federal	OW	P
RWU 71 (21-18C)	RW 21-18C	NENW	18	070S	240E	4304715193	5670	Federal	OW	P
RWU 72 (23-27B)	RW 23-27B	NESW	27	070S	230E	4304715194	5670	Federal	OW	TA
RWU 74 (12-13B)	RW 12-13B	SWNW	13	070S	230E	4304715196	5670	Federal	GW	S
RWU 75 (21-26B)	RW 21-26B	NENW	26	070S	230E	4304715197	5670	Federal	OW	TA
RWU 76 (32-18C)	RW 32-18C	SWNE	18	070S	240E	4304715198	5670	Federal	GW	P
RWU 77 (21-13B)	RWU 77 (21-13B)	NENW	13	070S	230E	4304715199	5670	Federal	OW	P
RWU 78 (32-28B)	RW 32-28B	SWNE	28	070S	230E	4304715200	5670	Federal	OW	P
RWU 79 (12-27B)	RW 12-27B	SWNW	27	070S	230E	4304715201	5670	Federal	OW	TA
RWU 80 (14-27B)	RW 14-27B	SWSW	27	070S	230E	4304715202	5670	Federal	OW	S
RWU 81 (41-31B)	RW 41-31B	NENE	31	070S	230E	4304715203	5670	Federal	OW	P
RWU 83 (41-27A)	RW 41-27A	NENE	27	070S	220E	4304715205	5670	Federal	OW	P
RWU 84 (44-14B)	RW 44-14B	SESE	14	070S	230E	4304715206	5670	Federal	GW	P
RWU 88 (23-18B)	RW 23-18B	NESW	18	070S	230E	4304715210	5670	Federal	WI	A
RWU 90 (43-21B)	RW 43-21B	NESE	21	070S	230E	4304715211	5670	Federal	OW	P
RWU 92 (11-23B)	RW 11-23B	NWNW	23	070S	230E	4304715212	5670	Federal	OW	TA
RWU 94 (12-22A)	RW 12-22A	SWNW	22	070S	220E	4304715213	5670	Federal	OW	P
RWU 23-18C (97)	RW 23-18C	NESW	18	070S	240E	4304715216	99996	Federal	WI	I
RWU 99 (12-22B)	RW 12-22B	SWNW	22	070S	230E	4304715218	5670	Federal	OW	P
RWU 100-A (43-21A)	RW 43-21A	NESE	21	070S	220E	4304715219	5670	Federal	WI	A
RWU 101 (34-21B)	RW 34-21B	SWSE	21	070S	230E	4304715220	5670	Federal	OW	P
RWU 102 (41-24A)	RW 41-24A	SENE	24	070S	220E	4304715221	5670	Federal	WI	A
RWU 103 (34-15B)	RW 34-15B	SWSE	15	070S	230E	4304715222	5670	Federal	OW	P
RWU 108 (32-21B)	RW 32-21B	SWNE	21	070S	230E	4304715226	5670	Federal	OW	P
RWU 109 (21-28B)	RW 21-28B	NENW	28	070S	230E	4304715227	5670	Federal	OW	P
RWU 110 (23-23A)	RW 23-23A	NESW	23	070S	220E	4304715228	5670	Federal	OW	P
RWU 111 (32-24A)	RW 32-24A	SWNE	24	070S	220E	4304715229	5670	Federal	OW	S
RWU 112 (32-28A)	RW 32-28A	SWNE	28	070S	220E	4304715230	5670	Federal	OW	S
RWU 115 (21-19B)	RW 21-19B	NENW	19	070S	230E	4304715233	5670	Federal	OW	P
RWU 119 (43-29A)	RW 43-29A	NESE	29	070S	220E	4304715236	5670	Federal	OW	P
RWU 120 (23-28B)	RW 23-28B	NESW	28	070S	230E	4304715237	5670	Federal	OW	TA
RW 13-13B	RW 13-13B	NWSW	13	070S	230E	4304715238	5670	Federal	GW	P
RWU 122 (24-14B)	RW 24-14B	SESW	14	070S	230E	4304715239	5670	Federal	OW	P
RWU 125 (34-19B)	RW 34-19B	SWSE	19	070S	230E	4304715242	5670	Federal	OW	TA
RWU 126 (41-29A)	RW 41-29A	NENE	29	070S	220E	4304715243	5670	Federal	OW	P

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)
RED WASH 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
RWU 127 (12-19B)	RW 12-19B	SWNW	19	070S	230E	4304715244	5670	Federal	OW	S
RWU 129 (14-15B)	RW 14-15B	SWSW	15	070S	230E	4304715246	5670	Federal	OW	P
RWU 133 (41-34B)	RW 41-34B	NENE	34	070S	230E	4304715250	5670	Federal	OW	P
RWU 136 (43-19B)	RW 43-19B	NESE	19	070S	230E	4304715252	5670	Federal	OW	TA
RWU 137 (34-28B)	RW 34-28B	SWSE	28	070S	230E	4304715253	5670	Federal	GW	TA
RWU 138 (41-30B)	RW 41-30B	NENE	30	070S	230E	4304715254	5670	Federal	OW	P
RWU 140 (24-22B)	RW 24-22B	SESW	22	070S	230E	4304715255	5670	Federal	OW	P
RWU 141 (11-27B)	RW 11-27B	NWNW	27	070S	230E	4304715256	5670	Federal	OW	TA
RWU 143 (33-14B)	RW 33-14B	NWSE	14	070S	230E	4304715257	5670	Federal	OW	P
RWU 144 (21-18B)	RW 21-18B	NENW	18	070S	230E	4304715258	5670	Federal	OW	TA
RW 24-13B	RW 24-13B	SESW	13	070S	230E	4304715259	5670	Federal	OW	TA
RWU 147 (22-22B)	RW 22-22B	SESW	22	070S	230E	4304715260	5670	Federal	OW	TA
RWU 148 (13-22B)	RW 13-22B	NWSW	22	070S	230E	4304715261	99996	Federal	WI	A
RWU 150 (31-22B)	RW 31-22B	NWNE	22	070S	230E	4304715263	99996	Federal	WI	I
RWU 151 (42-14B)	RW 42-14B	SENE	14	070S	230E	4304715264	5670	Federal	OW	P
RWU 153 (14-29B)	RW 14-29B	SWSW	29	070S	230E	4304715265	5670	Federal	OW	P
RWU 156 (23-15B)	RW 23-15B	NESW	15	070S	230E	4304715267	99990	Federal	WI	A
RWU 158 (32-30B)	RW 32-30B	SWNE	30	070S	230E	4304715268	5670	Federal	OW	P
RWU 160 (32-15B)	RW 32-15B	SWNE	15	070S	230E	4304715270	5670	Federal	OW	P
RWU 161 (14-20B)	RW 14-20B	SWSW	20	070S	230E	4304715271	99996	Federal	WI	I
RWU 162 (12-20B)	RW 12-20B	SWNW	20	070S	230E	4304715272	5670	Federal	OW	P
RWU 164 (12-28B)	RW 12-28B	SWNW	28	070S	230E	4304715274	5670	Federal	OW	P
RWU 165 (32-26B)	RW 32-26B	SWNE	26	070S	230E	4304715275	5670	Federal	GW	TA
RWU 167 (23-21B)	RW 23-21B	NESW	21	070S	230E	4304715277	5670	Federal	OW	S
RWU 168 (23-24B)	RW 23-24B	NESW	24	070S	230E	4304715278	5670	Federal	OW	TA
RWU 172 (21-30B)	RW 21-30B	NENW	30	070S	230E	4304715280	5670	Federal	OW	TA
RWU 174 (21-20B)	RW 21-20B	NENW	20	070S	230E	4304715281	5670	Federal	WI	A
RWU 176 (31-28B)	RW 31-28B	NWNE	28	070S	230E	4304715283	5670	Federal	OW	TA
RWU 177 (42-28B)	RW 42-28B	SENE	28	070S	230E	4304715284	5670	Federal	OW	TA
RW 22-13B	RW 22-13B	SESW	13	070S	230E	4304715285	5670	Federal	OW	TA
RWU 180 (31-23B)	RW 31-23B	NWNE	23	070S	230E	4304715287	5670	Federal	OW	TA
RWU 181 (34-30B)	RW 34-30B	SWSE	30	070S	230E	4304715288	5670	Federal	OW	P
RW 33-13B	RW 33-13B	NWSE	13	070S	230E	4304715289	5670	Federal	WI	A
RWU 184 (23-26B)	RW 23-26B	NESW	26	070S	230E	4304715290	5670	Federal	GW	S
RWU 188 (23-20B)	RW 23-20B	NESW	20	070S	230E	4304715291	5670	Federal	OW	TA
RWU 192 (41-33A)	RW 41-33A	NENE	33	070S	220E	4304715294	5670	Federal	OW	P
RWU 193 (43-24B)	RW 43-24B	NESE	24	070S	230E	4304715295	5670	Federal	GW	TA
RWU 194 (12-14B)	RW 12-14B	SWNW	14	070S	230E	4304715296	5670	Federal	OW	S
RWU 196 (23-17C)	RW 23-17C	NESW	17	070S	240E	4304715298	5670	Federal	GW	TA
RWU 199 (43-22A)	RW 43-22A	NESE	22	070S	220E	4304715301	99996	Federal	WI	A
RWU 201 (32-28C)	RW 32-28C	SWNE	28	070S	240E	4304715302	5670	Federal	GW	P

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)
RED WASH 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
RWU 202 (21-34A)	RW 21-34A	NENW	34	070S	220E	4304715303	99996	Federal	WI	I
RWU 204 (23-25A)	RW 23-25A	NESW	25	070S	220E	4304715305	5670	Federal	OW	P
RWU 205 (23-21C)	RW 23-21C	NESW	21	070S	240E	4304715306	5670	Federal	GW	TA
RWU 2 (14-24B)	RW 14-24B	SWSW	24	070S	230E	4304716472	99996	Federal	WI	A
RWU 7 (41-27B)	RW 41-27B	NENE	27	070S	230E	4304716473	99996	Federal	WI	I
RWU 16 (43-28B)	RW 43-28B	NESE	28	070S	230E	4304716475	99996	Federal	WI	I
RWU 25 (23-23B)	RW 23-23B	NESW	23	070S	230E	4304716476	99996	Federal	WI	A
RWU 59 (12-24B)	RW 12-24B	SWNW	24	070S	230E	4304716477	99996	Federal	WI	A
RWU 61 (12-27A)	RW 12-27A	SWNW	27	070S	220E	4304716478	99996	Federal	WI	I
RWU 91 (33-22B)	RW 33-22B	NWSE	22	070S	230E	4304716479	99996	Federal	WI	A
RWU 93 (43-27B)	RW 43-27B	NESE	27	070S	230E	4304716480	99996	Federal	WI	I
RWU 6 (41-21B)	RW 41-21B	NENE	21	070S	230E	4304716482	99996	Federal	WI	A
RWU 68 (41-13B)	RW 41-13B	NENE	13	070S	230E	4304716485	99996	Federal	WI	I
RWU 170 (41-15B)	RW 41-15B	NENE	15	070S	230E	4304716495	99996	Federal	WI	I
RWU 173 (21-21B)	RW 21-21B	NENW	21	070S	230E	4304716496	99996	Federal	WI	A
RWU 182 (14-21B)	RW 14-21B	SWSW	21	070S	230E	4304716497	99996	Federal	WI	A
RWU 185 (41-1B)	RW 41-14B	NENE	14	070S	230E	4304716498	99996	Federal	WI	A
RWU 212 (41-8F)	RW 41-8F	NENE	08	080S	240E	4304720014	5670	Federal	GW	P
RWU 213 (41-33B)	RW 41-33B	NENE	33	070S	230E	4304720060	99996	Federal	WD	A
RWU 215 (43-28A)	RW 43-28A	NESE	28	070S	220E	4304730058	99996	Federal	WD	A
RWU 216 (21-27A)	RW 21-27A	NENW	27	070S	220E	4304730103	99996	Federal	WI	A
RWU 219 (44-21C)	RW 44-21C	SESE	21	070S	240E	4304730149	5670	Federal	GW	S
RWU 220 (22-23B)	RW 22-23B	SENW	23	070S	230E	4304730192	5670	Federal	OW	TA
RWU 221 (13-27B)	RW 13-27B	NWSW	27	070S	230E	4304730199	5670	Federal	OW	TA
RWU 222 (31-27B)	RW 31-27B	NWNE	27	070S	230E	4304730200	5670	Federal	GW	TA
RWU 224 (44-22B)	RW 44-22B	SESE	22	070S	230E	4304730202	5670	Federal	GW	TA
RWU 225 (13-23B)	RW 13-23B	NWSW	23	070S	230E	4304730212	5670	Federal	GW	TA
RWU 226 (24-23B)	RW 24-23B	SESW	23	070S	230E	4304730249	5670	Federal	GW	S
RWU 227 (14-26B)	RW 14-26B	SWSW	26	070S	230E	4304730257	5670	Federal	OW	TA
RWU 228 (21-34B)	RW 21-34B	NENW	34	070S	230E	4304730258	5670	Federal	OW	P
RWU 229 (43-26B)	RW 43-26B	NESE	26	070S	230E	4304730259	5670	Federal	OW	TA
RWU 230 (14-18C)	RW 14-18C	SWSW	18	070S	240E	4304730309	5670	Federal	OW	P
RWU 231 (21-35B)	RW 21-35B	NENW	35	070S	230E	4304730310	5670	Federal	OW	TA
RWU 232 (12-26B)	RW 12-26B	SWNW	26	070S	230E	4304730311	5670	Federal	OW	TA
RWU 233 (12-25B)	RW 12-25B	SWNW	25	070S	230E	4304730312	5670	Federal	OW	TA
RWU 234 (32-24B)	RW 32-24B	SWNE	24	070S	230E	4304730313	5670	Federal	OW	P
RWU 235 (34-18C)	RW 34-18C	SWSE	18	070S	240E	4304730314	5670	Federal	OW	S
RWU 236 (21-19C)	RW 21-19C	NENW	19	070S	240E	4304730340	5670	Federal	GW	P
RWU 237 (14-25B)	RW 14-25B	SWSW	25	070S	230E	4304730341	5670	Federal	OW	P
RWU 238 (32-35B)	RW 32-35B	SWNE	35	070S	230E	4304730342	5670	Federal	OW	TA
RWU 239 (41-35B)	RW 41-35B	NENE	35	070S	230E	4304730343	5670	Federal	OW	TA

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)
RED WASH 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
RWU 240 (12-36B)	RW 12-36B	SWNW	36	070S	230E	4304730344	5670	Federal	OW	S
RWU 241 (22-14B)	RW 22-14B	SENW	14	070S	230E	4304730345	5670	Federal	OW	P
RW 42-13B	RW 42-13B	SENE	13	070S	230E	4304730346	5670	Federal	OW	P
RWU 243 (42-18C)	RW 42-18C	SENE	18	070S	240E	4304730347	5670	Federal	OW	TA
RWU 244 (23-19C)	RW 23-19C	NESW	19	070S	240E	4304730348	5670	Federal	GW	P
RWU 246 (22-18C)	RW 22-18C	SENW	18	070S	240E	4304730387	5670	Federal	OW	P
RWU 247 (22-17C)	RW 22-17C	SENW	17	070S	240E	4304730388	5670	Federal	GW	P
RWU 258 (34-22A)	RW 34-22A	SWSE	22	070S	220E	4304730458	5670	Federal	WI	A
RWU 262 (22-26B)	RW 22-26B	SENW	26	070S	230E	4304730517	5670	Federal	GW	TA
RWU 263 (24-26B)	RW 24-26B	SESW	26	070S	230E	4304730518	99996	Federal	WI	I
RWU 264 (31-35B)	RW 31-35B	NWNE	35	070S	230E	4304730519	99996	Federal	WI	A
RWU 265 (44-26B)	RW 44-26B	SESE	26	070S	230E	4304730520	5670	Federal	GW	P
RWU 266 (33-26B)	RW 33-26B	NWSE	26	070S	230E	4304730521	99996	Federal	WI	I
RWU 269 (13-26B)	RW 13-26B	NWSW	26	070S	230E	4304730522	99996	Federal	WI	A
RWU 273 (42-27B)	RW 42-27B	SENE	27	070S	230E	4304731051	5670	Federal	OW	TA
RWU 279 (11-36B)	RW 11-36B	NWNW	36	070S	230E	4304731052	99996	Federal	WI	A
RWU 276 (44-27B)	RW 44-27B	SESE	27	070S	230E	4304731053	5670	Federal	OW	TA
RWU 272 (44-23B)	RW 44-23B	SESE	23	070S	230E	4304731054	5670	Federal	GW	P
RWU 278 (11-26)	RW 11-26	NWNW	26	070S	230E	4304731076	5670	Federal	GW	TA
RWU 275 (31-26B)	RW 31-26B	NWNE	26	070S	230E	4304731077	99996	Federal	WI	A
RWU 280 (11-35B)	RW 11-35B	NWNW	35	070S	230E	4304731079	5670	Federal	OW	P
RWU 282 (42-26B)	RW 42-26B	SENE	26	070S	230E	4304731080	5670	Federal	GW	TA
RWU 271 (42-35B)	RW 42-35B	SENE	35	070S	230E	4304731081	5670	Federal	WI	I
RWU 270 (22-35B)	RW 22-35B	SENW	35	070S	230E	4304731082	5670	Federal	OW	P
RWU 284 (33-23B)	RW 33-23B	NWSE	23	070S	230E	4304731476	5670	Federal	GW	TA
RWU 285 (11-24B)	RW 11-24B	NWNW	24	070S	230E	4304731477	5670	Federal	OW	P
RWU 286 (42-21B)	RW 42-21B	SENE	21	070S	230E	4304731478	5670	Federal	OW	P
RW 44-13B	RW 44-13B	SESE	13	070S	230E	4304731512	5670	Federal	OW	TA
RWU 288 (24-27)	RW 24-27	SESW	27	070S	230E	4304731513	5670	Federal	OW	TA
RWU 289 (13-24B)	RW 13-24B	NWSW	24	070S	230E	4304731517	5670	Federal	OW	P
RWU 292 (42-23B)	RW 42-23B	SENE	23	070S	230E	4304731576	5670	Federal	GW	TA
RWU 295 (11-22B)	RW 11-22B	NWNW	22	070S	230E	4304731577	5670	Federal	GW	TA
RWU 296 (12-35B)	RW 12-35B	SWNW	35	070S	230E	4304731578	5670	Federal	OW	S
RWU 297 (24-15B)	RW 24-15B	SESW	15	070S	230E	4304731579	5670	Federal	OW	P
RWU 293 (22-22A)	RW 22-22A	SENW	22	070S	220E	4304731581	5670	Federal	OW	TA
RWU 294 (24-18C)	RW 24-18C	SESW	18	070S	240E	4304731582	5670	Federal	GW	P
RWU 298 (22-27B)	RW 22-27B	SENW	27	070S	230E	4304731679	5670	Federal	OW	TA
RWU 301 (43-15B)	RW 43-15B	NESE	15	070S	230E	4304731682	5670	Federal	GW	TA
RWU 302 (22-24B)	RW 22-24B	SENW	24	070S	230E	4304731683	5670	Federal	GW	TA
RWU 303 (34-17B)	RW 34-17B	SWSE	17	070S	230E	4304731819	5670	Federal	OW	P
RED WASH 305 (41-4F)	RW 41-4F	C-NE	04	080S	240E	4304732538	5670	Federal	GW	TA

RED WASH UNIT

Original Well Name	Well Name & No.	Q/Q	SEC	TWP	RNG	API	Entity	Lease	Well Type	Status
RED WASH 306	RW 23-23C	NESW	23	070S	240E	4304732629	5670	Federal	GW	P
RWU 207	RW 14-17B	SWSW	17	070S	230E	4304732738	5670	Federal	OW	P
RED WASH UNIT 261	RW 23-17B	NESW	17	070S	230E	4304732739	5670	Federal	WI	A
RWU 268 (43-17B)	RW 43-17B	NESE	17	070S	230E	4304732980	5670	Federal	WI	A
RWU 267 (32-17B)	RW 32-17B	SWNE	17	070S	230E	4304732981	5670	Federal	OW	P
RWU 283 (43-18B)	RW 43-18B	NESE	18	070S	230E	4304732982	5670	Federal	WI	A
RWU 299 (32-18B)	RW 32-18B	SWNE	18	070S	230E	4304733018	5670	Federal	OW	P
RWU 42-20B	RW 42-20B	SENE	20	070S	230E	4304733490	5670	Federal	OW	P
RWU 22-20B	RW 22-20B	SENE	20	070S	230E	4304733491	5670	Federal	OW	S
RWU 24-19B	RW 24-19B	SESW	19	070S	230E	4304733492	5670	Federal	OW	P
RWU 13-19B	RW 13-19B	NWSW	19	070S	230E	4304733497	5670	Federal	WI	A
RWU 13-20B	RW 13-20B	NWSW	20	070S	230E	4304733498	5670	Federal	WI	A
RWU 33-19B	RW 33-19B	NWSE	19	070S	230E	4304733499	5670	Federal	WI	A
RWU 33-20B	RW 33-20B	NWSE	20	070S	230E	4304733500	5670	Federal	WI	A
RED WASH 22-21B	RW 22-21B	SENE	21	070S	230E	4304733522	5670	Federal	OW	S
RED WASH 24-20B	RW 24-20B	SESW	20	070S	230E	4304733523	5670	Federal	OW	P
RED WASH 44-19B	RW 44-19B	SESE	19	070S	230E	4304733524	5670	Federal	OW	P
RED WASH 44-20B	RW 44-20B	SESE	20	070S	230E	4304733525	5670	Federal	OW	P
RWU 11-19B	RW 11-19B	NWNW	19	070S	230E	4304733552	5670	Federal	WI	A
RWU 11-20B	RW 11-20B	NWNW	20	070S	230E	4304733553	5670	Federal	WI	A
RWU 24-18B	RW 24-18B	SESW	18	070S	230E	4304733554	5670	Federal	OW	P
RWU 31-19B	RW 31-19B	NWNE	19	070S	230E	4304733555	5670	Federal	WI	A
RWU 42-19B	RW 42-19B	SENE	19	070S	230E	4304733556	5670	Federal	OW	P
RWU 22-19B	RW 22-19B	SENE	19	070S	230E	4304733559	5670	Federal	OW	P
RWU 23-24A	RW 23-24A	NESW	24	070S	220E	4304733567	5670	Federal	OW	P
RWU 34-24A	RW 34-24A	SWSE	24	070S	220E	4304733568	5670	Federal	WI	A
RWU 42-24A	RW 42-24A	SENE	24	070S	220E	4304733569	5670	Federal	OW	S
RWU 11-25A	RW 11-25A	NWNW	25	070S	220E	4304733574	5670	Federal	WI	A
RWU 13-25A	RW 13-25A	NWSW	25	070S	220E	4304733575	5670	Federal	WI	A
RWU 21-25A	RW 21-25A	NENW	25	070S	220E	4304733576	5670	Federal	OW	P
RWU 31-25A	RW 31-25A	NWNE	25	070S	220E	4304733577	5670	Federal	WI	A
RWU 33-25A	RW 33-25A	NWSE	25	070S	220E	4304733578	5670	Federal	WI	A
RW 41-25AX	RW 41-25A	NENE	25	070S	220E	4304733579	5670	Federal	OW	P
RWU 42-25A	RWU 42-25A	SENE	25	070S	220E	4304733580	5670	Federal	OW	TA
RWU 11-29B	RW 11-29B	NWNW	29	070S	230E	4304733590	5670	Federal	WI	A
RWU 12-24A	RW 12-24A	SWNW	24	070S	220E	4304733591	5670	Federal	WI	A
RWU 21-24A	RW 21-24A	NENW	24	070S	220E	4304733592	5670	Federal	OW	P
RWU 34-13A	RW 34-13A	SWSE	13	070S	220E	4304733593	5670	Federal	WI	A
RWU 44-18B	RW 44-18B	SESE	18	070S	230E	4304733594	5670	Federal	OW	P
RW 22-13A	RW 22-13A	SENE	13	070S	220E	4304733765	13296	Federal	OW	S
RWU 22-29B	RW 22-29B	SENE	29	070S	230E	4304733766	5670	Federal	OW	S

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)
RED WASH 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
RWU 41-24A	RW 41-24A	NENE	24	070S	220E	4304733769	5670	Federal	OW	P
RWU 42-30B	RW 42-30B	SENE	30	070S	230E	4304733771	5670	Federal	OW	P
RWU 44-30B	RWU 44-30B	SESE	30	070S	230E	4304733772	5670	Federal	OW	P
RWU 11-30B	RW 11-30B	NWNW	30	070S	230E	4304733785	5670	Federal	WI	A
RWU 22-25A	RW 22-25A	SENE	25	070S	220E	4304733786	5670	Federal	OW	P
RWU 31-30B	RW 31-30B	NWNE	30	070S	230E	4304733788	5670	Federal	WI	A
RWU 33-30B	RW 33-30B	NWSE	30	070S	230E	4304733790	5670	Federal	WI	A
RED WASH U 34-27C	RW 34-27C	SWSE	27	070S	240E	4304735045	5670	Federal	GW	P
RWU 34-22C	RW 34-22C	SWSE	22	070S	240E	4304735098	5670	Federal	GW	P
RW 12G-20C	RW 12G-20C	SWNW	20	070S	240E	4304735239	14011	Federal	GW	S
RW 43G-08F	RW 43G-08F	NESE	08	080S	240E	4304735655		Federal	GW	APD
RW 22G-09F	RW 22G-09F	SENE	09	080S	240E	4304735656	15636	Federal	GW	OPS
RWU 34-23AG	RW 34-23AG	SWSE	23	070S	220E	4304735668	5670	Federal	OW	P
RWU 34-27AG	RWU 34-27AD	SWSE	27	070S	220E	4304735669	5670	Federal	OW	DRL
RWU 32-27AG	RWU 32-27AG	SWNE	27	070S	220E	4304735670	5670	Federal	OW	S
RW 14-34AMU	RW 14-34AMU	SWSW	34	070S	220E	4304735671	14277	Federal	GW	P
RW 12-08FG	RW 12-08FG	SWNW	08	080S	240E	4304736348		Federal	GW	APD
RW 44-08FG	RW 44-08FG	SESE	08	080S	240E	4304736349	15261	Federal	GW	P
RW 12-17FG	RW 12-17FG	SWNW	17	080S	240E	4304736350		Federal	GW	APD
RW 34-34 AMU	RW 34-34 AD	SWSE	34	070S	220E	4304736351		Federal	GW	APD
RW 44-35 AMU	RW 44-35 AMU	SESE	35	070S	220E	4304736352		Federal	GW	APD
RW 14-35 AMU	RW 14-35 AMU	SWSW	35	070S	220E	4304736354		Federal	GW	APD
RW 33-31 BMU	RW 33-31 BD	NWSE	31	070S	230E	4304736357		Federal	GW	APD
RW 13-31 BMU	RW 13-31 BD	NWSW	31	070S	230E	4304736358		Federal	GW	APD
RW 32-15FG	RW 32-15FG	SWNE	15	080S	240E	4304736443		Federal	GW	APD
RW 21-26AG	RW 21-26AD	NENW	26	070S	220E	4304736768		Federal	OW	APD
RW 43-26AG	RW 43-26AG	NESE	26	070S	220E	4304736769		Federal	OW	APD
RW 43-23AG	RW 43-23AG	NESE	23	070S	220E	4304736770		Federal	OW	APD
RW 41-26AG	RW 41-26AG	NENE	26	070S	220E	4304736818		Federal	OW	APD
RW 04-25BG	RW 04-25B	NWSW	25	070S	230E	4304736982		Federal	OW	APD
RW 01-25BG	RW 01-25BG	NWNW	25	070S	230E	4304736983		Federal	OW	APD
RW 04-26BG	RW 04-26BG	SESW	26	070S	230E	4304736984		Federal	OW	APD
RW 01-26BG	RW 01-26BG	SWNW	26	070S	230E	4304736985		Federal	OW	APD
RW 01-35BG	RW 01-35BG	SWNW	35	070S	230E	4304736986		Federal	OW	APD

RED WASH UNIT

Original Well Name	Well Name & No.	Q/Q	SEC	TWP	RNG	API	Entity	Lease	Well Type	Status
RWU 51 (12-16B)	RW 12-16B	SWNW	16	070S	230E	4304715177	5670	State	OW	P
RWU ST 189 (41-16B)	RW 41-16B	NENE	16	070S	230E	4304715292	5670	State	OW	S
RED WASH UNIT 259	RW 14-16B	SWSW	16	070S	230E	4304732785	5670	State	OW	P
RED WASH UNIT 260	RW 34-16B	SWSE	16	070S	230E	4304732786	5670	State	OW	P
RWU 324 (23-16B)	RW 23-16B	SESW	16	070S	230E	4304733084	5670	State	WI	OPS
RWU 21W-36A	RWU 21W-36A	NENW	36	070S	220E	4304733730		State	GW	LA
RWU 21G-36A	RWU 21G-36A	NENW	36	070S	220E	4304733731		State	OW	LA
RWU 41-36A	RWU 41-36A	NENE	36	070S	220E	4304733732		State	OW	LA
RWU 43-16B	RWU 43-16B	NESE	16	070S	230E	4304733733		State	OW	LA
RWU 21-16B	RWU 21-16B	NENW	16	070S	230E	4304733734		State	OW	LA
RWU 11-36A	RWU 11-36A	NWNW	36	070S	220E	4304733736		State	OW	LA
RWU 13-36A	RWU 13-36A	NWSW	36	070S	220E	4304733737		State	OW	LA
RW 32G-16C	RW 32G-16C	SWNE	16	070S	240E	4304735238	5670	State	GW	P
RW 14-36AMU	RW 14-36AMU	SWSW	36	070S	220E	4304736721		State	GW	APD
RW 01-36BG	RW 01-36BG	NWNW	36	070S	230E	4304736887	5670	State	OW	S
RW 24-16BG	RW 24-16BG	SESW	16	070S	230E	4304737746	5670	State	OW	DRL
RW 12-32BG	RW 12-32BG	SWNW	32	070S	230E	4304737946	15841	State	GW	DRL

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 <small>CITY</small> 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/GTR, 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.

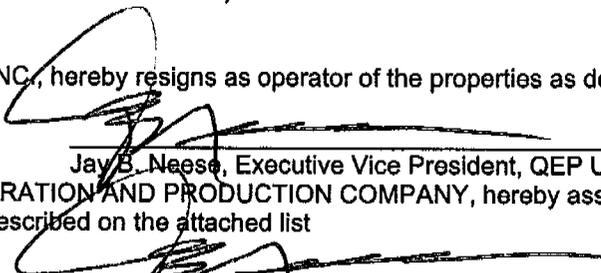
Effective January 1, 2007 operator of record, QEP Uinta Basin, Inc., will hereafter be known as QUESTAR EXPLORATION AND PRODUCTION COMPANY. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible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

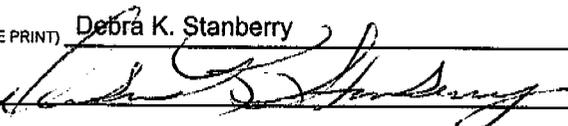
Fee Land Bond Number: 965003033

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

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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"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Well Name Changes</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	
	<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____		

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

PER THE ATTACHED LIST OF WELLS, QUESTAR EXPLORATION AND PRODUCTION COMPANY REQUESTS THAT THE INDIVIDUAL WELL NAMES BE UPDATED IN YOUR RECORDS.

NAME (PLEASE PRINT) <u>Debra K. Stanberry</u>	TITLE <u>Supervisor, Regulatory Affairs</u>
SIGNATURE	DATE <u>4/17/2007</u>

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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: Red Wash 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 Red Wash 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 Red Wash Unit Agreement.

Your nationwide oil and gas bond No. ESB000024 will be used to cover all federal operations within the Red Wash 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 - Red Wash Unit (w/enclosure)
Agr. Sec. Chron
Reading File
Central Files

UT922:TAThompson:tt:4/23/07

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A. M. Petrik
Phone: 303-308-3053
Email: ann.petrik@questar.com

Questar Exploration and Production Company

Independence Plaza
1050 17th Street, Suite 500
Denver, CO 80265
Tel 303 672 6900 • Fax 303 294 9632

Rocky Mountain Region

March 13, 2008

Mr. Nathan Wisner (8ENF-UFO)
U.S. Environmental Protection Agency, Region 8
1595 Wynkoop Street
Denver, Colorado 80202-1129

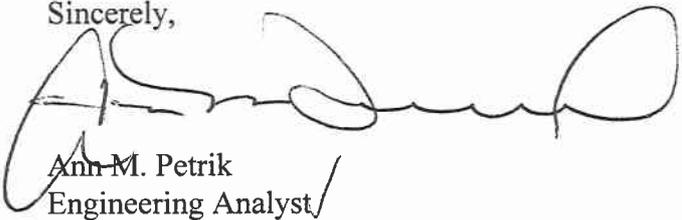
RE: Mechanical Integrity Test (MIT)
for
RW 11-29B
UIC #UT2915-04629
API #43-047-33590
Location: NWNW Section 29 T7S R23E

Dear Mr. Wisner:

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

If you have any questions or require additional information, I can be reached at 303-308-3053.

Sincerely,



Ann M. Petrik
Engineering Analyst

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

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MAR 17 2008

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

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

DIV. OF OIL, GAS & MINING

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: NO DATE: 2/21/2008 TIME: 2:45 AM PM

TEST CONDUCTED BY: Dennis J. Paulson (Questar)

OTHERS PRESENT: (ADVANTAGE OILFIELD SERVICE) KEVIN CARTER

API NUMBER: 43-047-33590 EPA ID NUMBER: UT2915-04629

WELL NAME: <u>RW 11-29B</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>RED WASH</u>			
WELL LOCATION: <u>NWNW S29-T7S-R23E</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>25-Feb-03</u>	MAXIMUM ALLOWABLE PRESSURE: <u>1898</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: 746 BPD

PRE-TEST CASING/TUBING ANNULUS PRESSURE: 0 PSIG

MIT DATA TABLE	TEST #1	TEST #2	TEST #3
TUBING	PRESSURE		
INITIAL PRESSURE	<u>1807.3</u> PSIG	PSIG	PSIG
END OF TEST PRESSURE	<u>1807.3</u> PSIG	PSIG	PSIG

CASING/TUBING	ANNULUS	TUBING	
0 MINUTES	<u>1121.4@ 15:00:17</u> PSIG	<u>1807.2</u> PSIG	PSIG
5 MINUTES	<u>1112.3@ 15:05:24</u> PSIG	<u>1807.5</u> PSIG	PSIG
10 MINUTES	<u>1111.7@ 15:10:32</u> PSIG	<u>1807.6</u> PSIG	PSIG
15 MINUTES	<u>1111.5@ 15:15:26</u> PSIG	<u>1807.5</u> PSIG	PSIG
20 MINUTES	<u>1111.6@ 15:20:34</u> PSIG	<u>1807.5</u> PSIG	PSIG
25 MINUTES	<u>1111.4@ 15:25:28</u> PSIG	<u>1807.5</u> PSIG	PSIG
30 MINUTES	<u>1111.6@ 15:30:36</u> PSIG	<u>1807.4</u> PSIG	PSIG
MINUTES	PSIG	PSIG	PSIG
MINUTES	PSIG	PSIG	PSIG
RESULT	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL

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

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DIV. OF OIL, GAS & MINING

QUESTAR EXPLORATION PRODUCTION COMPANY
RW 11-29B MIT

3000	PSIG	2404-1	12	FEB	2008			
DATE	MONTH	YEAR	TIME	FILE	SAMPLE	CASING PSIG	TUBING PSIG	AMBIENT TEMP
21	FEB	2008	14:56:18	5	1	0		48
21	FEB	2008	14:56:32	5	2	0		48
21	FEB	2008	14:56:46	5	3	0		48
21	FEB	2008	14:57:00	5	4	0		48
21	FEB	2008	14:57:14	5	5	0		48
21	FEB	2008	14:57:28	5	6	86.31		48
21	FEB	2008	14:57:42	5	7	159.06		50
21	FEB	2008	14:57:56	5	8	289.56		50
21	FEB	2008	14:58:10	5	9	383.3		50
21	FEB	2008	14:58:24	5	10	475.86		48
21	FEB	2008	14:58:38	5	11	565.9		48
21	FEB	2008	14:58:52	5	12	659.5		48
21	FEB	2008	14:59:06	5	13	750.3		48
21	FEB	2008	14:59:20	5	14	843.6		48
21	FEB	2008	14:59:34	5	15	936		48
21	FEB	2008	14:59:48	5	16	1013.2		48
21	FEB	2008	15:00:03	5	17	1064.3		48
21	FEB	2008	15:00:17	5	18	1121.5	1807.2	48
21	FEB	2008	15:00:30	5	19	1119.7		48
21	FEB	2008	15:00:44	5	20	1112.6		48
21	FEB	2008	15:00:58	5	21	1111.1		48
21	FEB	2008	15:01:12	5	22	1113.2		48
21	FEB	2008	15:01:26	5	23	1112.8		48
21	FEB	2008	15:01:40	5	24	1112.8		48
21	FEB	2008	15:01:54	5	25	1113		48
21	FEB	2008	15:02:08	5	26	1112.9		48
21	FEB	2008	15:02:22	5	27	1112.9		48
21	FEB	2008	15:02:36	5	28	1112.8		48
21	FEB	2008	15:02:50	5	29	1112.8		48
21	FEB	2008	15:03:04	5	30	1112.7		48
21	FEB	2008	15:03:18	5	31	1112.7		48
21	FEB	2008	15:03:32	5	32	1112.6		48
21	FEB	2008	15:03:46	5	33	1112.5		48
21	FEB	2008	15:04:00	5	34	1112.5		48
21	FEB	2008	15:04:15	5	35	1112.4		48
21	FEB	2008	15:04:29	5	36	1112.4		48
21	FEB	2008	15:04:42	5	37	1112.3		48
21	FEB	2008	15:04:56	5	38	1112.2		48
21	FEB	2008	15:05:10	5	39	1112.2		48
21	FEB	2008	15:05:24	5	40	1112.3	1807.5	46
21	FEB	2008	15:05:38	5	41	1112.3		46
21	FEB	2008	15:05:52	5	42	1112.2		46
21	FEB	2008	15:06:06	5	43	1112.2		46
21	FEB	2008	15:06:20	5	44	1112.2		46
21	FEB	2008	15:06:34	5	45	1112.1		46
21	FEB	2008	15:06:48	5	46	1112.1		46
21	FEB	2008	15:07:02	5	47	1112		46
21	FEB	2008	15:07:16	5	48	1112		46
21	FEB	2008	15:07:30	5	49	1112		46

QUESTAR EXPLORATION PRODUCTION COMPANY
RW 11-29B MIT

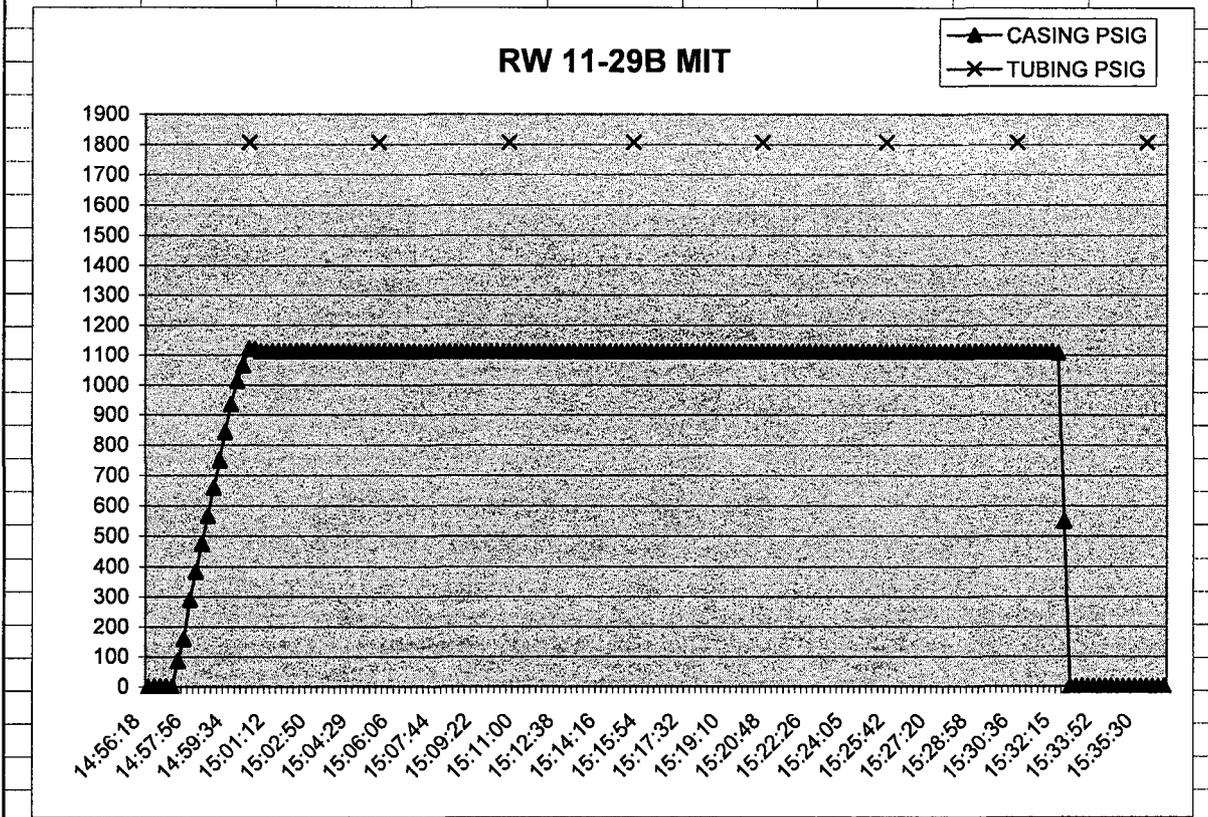
21	FEB	2008	15:07:44	5	50	1112		46
21	FEB	2008	15:07:58	5	51	1112		46
21	FEB	2008	15:08:13	5	52	1111.9		46
21	FEB	2008	15:08:27	5	53	1111.9		46
21	FEB	2008	15:08:40	5	54	1111.8		46
21	FEB	2008	15:08:54	5	55	1111.8		46
21	FEB	2008	15:09:08	5	56	1111.8		46
21	FEB	2008	15:09:22	5	57	1111.8		46
21	FEB	2008	15:09:36	5	58	1111.7		46
21	FEB	2008	15:09:50	5	59	1111.7		46
21	FEB	2008	15:10:04	5	60	1111.7		46
21	FEB	2008	15:10:18	5	61	1111.7		46
21	FEB	2008	15:10:32	5	62	1111.7	1807.6	46
21	FEB	2008	15:10:46	5	63	1111.6		46
21	FEB	2008	15:11:00	5	64	1111.6		46
21	FEB	2008	15:11:14	5	65	1111.6		46
21	FEB	2008	15:11:28	5	66	1111.6		46
21	FEB	2008	15:11:42	5	67	1111.6		46
21	FEB	2008	15:11:56	5	68	1111.7		45
21	FEB	2008	15:12:11	5	69	1111.7		45
21	FEB	2008	15:12:25	5	70	1111.7		45
21	FEB	2008	15:12:38	5	71	1111.7		45
21	FEB	2008	15:12:52	5	72	1111.7		45
21	FEB	2008	15:13:06	5	73	1111.6		45
21	FEB	2008	15:13:20	5	74	1111.6		45
21	FEB	2008	15:13:34	5	75	1111.7		45
21	FEB	2008	15:13:48	5	76	1111.6		45
21	FEB	2008	15:14:02	5	77	1111.6		45
21	FEB	2008	15:14:16	5	78	1111.6		45
21	FEB	2008	15:14:30	5	79	1111.6		45
21	FEB	2008	15:14:44	5	80	1111.6		45
21	FEB	2008	15:14:58	5	81	1111.6		45
21	FEB	2008	15:15:12	5	82	1111.6		45
21	FEB	2008	15:15:26	5	83	1111.5	1807.5	45
21	FEB	2008	15:15:40	5	84	1111.5		45
21	FEB	2008	15:15:54	5	85	1111.5		45
21	FEB	2008	15:16:09	5	86	1111.5		45
21	FEB	2008	15:16:23	5	87	1111.5		45
21	FEB	2008	15:16:36	5	88	1111.5		45
21	FEB	2008	15:16:50	5	89	1111.5		45
21	FEB	2008	15:17:04	5	90	1111.4		45
21	FEB	2008	15:17:18	5	91	1111.4		45
21	FEB	2008	15:17:32	5	92	1111.4		45
21	FEB	2008	15:17:46	5	93	1111.4		45
21	FEB	2008	15:18:00	5	94	1111.4		45
21	FEB	2008	15:18:14	5	95	1111.4		45
21	FEB	2008	15:18:28	5	96	1111.4		45
21	FEB	2008	15:18:42	5	97	1111.4		45
21	FEB	2008	15:18:56	5	98	1111.4		45
21	FEB	2008	15:19:10	5	99	1111.4		45
21	FEB	2008	15:19:24	5	100	1111.6		43
21	FEB	2008	15:19:38	5	101	1111.6		43

QUESTAR EXPLORATION PRODUCTION COMPANY
RW 11-29B MIT

21	FEB	2008	15:19:52	5	102	1111.6		43
21	FEB	2008	15:20:07	5	103	1111.6		43
21	FEB	2008	15:20:21	5	104	1111.5		43
21	FEB	2008	15:20:34	5	105	1111.6	1807.5	43
21	FEB	2008	15:20:48	5	106	1111.6		43
21	FEB	2008	15:21:02	5	107	1111.5		43
21	FEB	2008	15:21:16	5	108	1111.5		43
21	FEB	2008	15:21:30	5	109	1111.5		43
21	FEB	2008	15:21:44	5	110	1111.5		43
21	FEB	2008	15:21:58	5	111	1111.5		43
21	FEB	2008	15:22:12	5	112	1111.5		43
21	FEB	2008	15:22:26	5	113	1111.5		43
21	FEB	2008	15:22:40	5	114	1111.5		43
21	FEB	2008	15:22:54	5	115	1111.5		43
21	FEB	2008	15:23:08	5	116	1111.5		43
21	FEB	2008	15:23:22	5	117	1111.5		43
21	FEB	2008	15:23:36	5	118	1111.5		43
21	FEB	2008	15:23:50	5	119	1111.5		43
21	FEB	2008	15:24:05	5	120	1111.5		43
21	FEB	2008	15:24:19	5	121	1111.5		43
21	FEB	2008	15:24:32	5	122	1111.5		43
21	FEB	2008	15:24:46	5	123	1111.4		43
21	FEB	2008	15:25:00	5	124	1111.4		43
21	FEB	2008	15:25:14	5	125	1111.4		43
21	FEB	2008	15:25:28	5	126	1111.4	1807.5	43
21	FEB	2008	15:25:42	5	127	1111.4		43
21	FEB	2008	15:25:56	5	128	1111.4		43
21	FEB	2008	15:26:10	5	129	1111.4		43
21	FEB	2008	15:26:24	5	130	1111.4		43
21	FEB	2008	15:26:38	5	131	1111.4		43
21	FEB	2008	15:26:52	5	132	1111.5		43
21	FEB	2008	15:27:06	5	133	1111.4		43
21	FEB	2008	15:27:20	5	134	1111.4		43
21	FEB	2008	15:27:34	5	135	1111.4		43
21	FEB	2008	15:27:48	5	136	1111.4		43
21	FEB	2008	15:28:03	5	137	1111.4		43
21	FEB	2008	15:28:17	5	138	1111.4		43
21	FEB	2008	15:28:30	5	139	1111.5		43
21	FEB	2008	15:28:44	5	140	1111.4		43
21	FEB	2008	15:28:58	5	141	1111.6		41
21	FEB	2008	15:29:12	5	142	1111.7		41
21	FEB	2008	15:29:26	5	143	1111.6		41
21	FEB	2008	15:29:40	5	144	1111.6		41
21	FEB	2008	15:29:54	5	145	1111.6		41
21	FEB	2008	15:30:08	5	146	1111.6		41
21	FEB	2008	15:30:22	5	147	1111.6		41
21	FEB	2008	15:30:36	5	148	1111.6	1807.4	41
21	FEB	2008	15:30:50	5	149	1111.6		41
21	FEB	2008	15:31:04	5	150	1111.6		41
21	FEB	2008	15:31:18	5	151	1111.6		41
21	FEB	2008	15:31:32	5	152	1111.6		41
21	FEB	2008	15:31:46	5	153	1111.5		41

QUESTAR EXPLORATION PRODUCTION COMPANY
RW 11-29B MIT

21	FEB	2008	15:32:00	5	154	1111.6		41
21	FEB	2008	15:32:15	5	155	1107.9		41
21	FEB	2008	15:32:29	5	156	549.9		41
21	FEB	2008	15:32:42	5	157	0		41
21	FEB	2008	15:32:56	5	158	0		41
21	FEB	2008	15:33:10	5	159	0		41
21	FEB	2008	15:33:24	5	160	0		41
21	FEB	2008	15:33:38	5	161	0		41
21	FEB	2008	15:33:52	5	162	0		41
21	FEB	2008	15:34:06	5	163	0		41
21	FEB	2008	15:34:20	5	164	0		41
21	FEB	2008	15:34:34	5	165	0		41
21	FEB	2008	15:34:48	5	166	0		41
21	FEB	2008	15:35:02	5	167	0		41
21	FEB	2008	15:35:16	5	168	0		41
21	FEB	2008	15:35:30	5	169	0		41
21	FEB	2008	15:35:44	5	170	0	1807.3	41
21	FEB	2008	15:35:58	5	171	0		41
21	FEB	2008	15:36:13	5	172	0		41
21	FEB	2008	15:36:27	5	173	0		41



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: RED WASH

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED								

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/28/2010
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/28/2010
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/24/2010
- Is the new operator registered in the State of Utah: Business Number: 764611-0143
- (R649-9-2) Waste Management Plan has been received on: Requested
- Inspections of LA PA state/fee well sites complete on: n/a
- Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 8/16/2010 BIA not yet
- Federal and Indian Units:**
 The BLM or BIA has approved the successor of unit operator for wells listed on: 8/16/2010
- Federal and Indian Communization Agreements ("CA"):**
 The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to Inject, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/29/2010

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 6/30/2010
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/30/2010
- Bond information entered in RBDMS on: 6/30/2010
- Fee/State wells attached to bond in RBDMS on: 6/30/2010
- Injection Projects to new operator in RBDMS on: 6/30/2010
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: ESB000024
- Indian well(s) covered by Bond Number: 965010693
- (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 965010695
- The **FORMER** operator has requested a release of liability from their bond on: n/a

LEASE INTEREST OWNER NOTIFICATION:

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

COMMENTS:

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: See attached
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: See attached
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: See attached
2. NAME OF OPERATOR: Questar Exploration and Production Company <i>N5085</i>		8. WELL NAME and NUMBER: See attached
3. ADDRESS OF OPERATOR: 1050 17th Street, Suite 500 <small>CITY</small> Denver <small>STATE</small> CO <small>ZIP</small> 80265		9. API NUMBER: Attached
PHONE NUMBER: (303) 672-6900		10. FIELD AND POOL, OR WILDCAT: See attached
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"/> 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 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) <u>Morgan Anderson</u>	TITLE <u>Regulatory Affairs Analyst</u>
SIGNATURE <i>Morgan Anderson</i>	DATE <u>6/23/2010</u>

(This space for State use only)

RECEIVED
JUN 28 2010
DIV. OF OIL, GAS & MINING

(See Instructions on Reverse Side)

APPROVED *613012009*
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

Questar Exploration Production Company (N5085) to QEP Energy Company (N3700)
RED WASH
effective June 14, 2010

well_name	sec	twp	rng	api	entity	mineral lease	type	stat	C
RW 41-33B	33	070S	230E	4304720060	5670	Federal	WD	A	
RW 43-28A	28	070S	220E	4304730058	5670	Federal	WD	A	
RW 34-27B	27	070S	230E	4304715142	5670	Federal	WI	A	
RW 14-13B	13	070S	230E	4304715144	5670	Federal	WI	A	
RW 41-20B	20	070S	230E	4304715146	5670	Federal	WI	A	
RW 21-23B	23	070S	230E	4304715151	5670	Federal	WI	A	
RW 23-14B	14	070S	230E	4304715161	5670	Federal	WI	A	
RW 41-28B	28	070S	230E	4304715182	5670	Federal	WI	A	
RW 23-18B	18	070S	230E	4304715210	5670	Federal	WI	A	
RW 43-21A	21	070S	220E	4304715219	5670	Federal	WI	A	
RW 41-24A	24	070S	220E	4304715221	5670	Federal	WI	A	
RW 13-22B	22	070S	230E	4304715261	5670	Federal	WI	A	
RW 23-15B	15	070S	230E	4304715267	5670	Federal	WI	A	
RW 21-20B	20	070S	230E	4304715281	5670	Federal	WI	A	
RW 33-13B	13	070S	230E	4304715289	5670	Federal	WI	A	
RW 21-34A	34	070S	220E	4304715303	5670	Federal	WI	I	
RW 14-24B	24	070S	230E	4304716472	5670	Federal	WI	A	
RW 41-27B	27	070S	230E	4304716473	5670	Federal	WI	I	
RW 43-28B	28	070S	230E	4304716475	5670	Federal	WI	S	
RW 23-23B	23	070S	230E	4304716476	5670	Federal	WI	A	
RW 12-24B	24	070S	230E	4304716477	5670	Federal	WI	A	
RW 33-22B	22	070S	230E	4304716479	5670	Federal	WI	A	
RW 41-21B	21	070S	230E	4304716482	5670	Federal	WI	A	
RW 41-15B	15	070S	230E	4304716495	5670	Federal	WI	I	
RW 21-21B	21	070S	230E	4304716496	5670	Federal	WI	A	
RW 14-21B	21	070S	230E	4304716497	5670	Federal	WI	A	
RW 41-14B	14	070S	230E	4304716498	5670	Federal	WI	A	
RW 21-27A	27	070S	220E	4304730103	5670	Federal	WI	A	
RW 34-22A	22	070S	220E	4304730458	5670	Federal	WI	A	
RW 24-26B	26	070S	230E	4304730518	5670	Federal	WI	I	
RW 31-35B	35	070S	230E	4304730519	5670	Federal	WI	A	
RW 33-26B	26	070S	230E	4304730521	5670	Federal	WI	I	
RW 13-26B	26	070S	230E	4304730522	5670	Federal	WI	A	
RW 11-36B	36	070S	230E	4304731052	5670	Federal	WI	A	
RW 31-26B	26	070S	230E	4304731077	5670	Federal	WI	A	
RW 42-35B	35	070S	230E	4304731081	5670	Federal	WI	I	
RW 23-17B	17	070S	230E	4304732739	5670	Federal	WI	A	
RW 43-17B	17	070S	230E	4304732980	5670	Federal	WI	A	
RW 43-18B	18	070S	230E	4304732982	5670	Federal	WI	A	
RW 13-19B	19	070S	230E	4304733497	5670	Federal	WI	A	
RW 13-20B	20	070S	230E	4304733498	5670	Federal	WI	A	
RW 33-19B	19	070S	230E	4304733499	5670	Federal	WI	A	
RW 33-20B	20	070S	230E	4304733500	5670	Federal	WI	A	
RW 11-19B	19	070S	230E	4304733552	5670	Federal	WI	A	

Bonds: BLM = ESB000024
BIA = 956010693
State = 965010695

Questar Exploration Production Company (N5085) to QEP Energy Company (N3700)
RED WASH
effective June 14, 2010

well_name	sec	twp	rng	api	entity	mineral lease	type	stat	C
RW 11-20B	20	070S	230E	4304733553	5670	Federal	WI	A	
RW 31-19B	19	070S	230E	4304733555	5670	Federal	WI	A	
RW 34-24A	24	070S	220E	4304733568	5670	Federal	WI	A	
RW 11-25A	25	070S	220E	4304733574	5670	Federal	WI	A	
RW 13-25A	25	070S	220E	4304733575	5670	Federal	WI	A	
RW 31-25A	25	070S	220E	4304733577	5670	Federal	WI	A	
RW 33-25A	25	070S	220E	4304733578	5670	Federal	WI	TA	
RW 11-29B	29	070S	230E	4304733590	5670	Federal	WI	A	
RW 12-24A	24	070S	220E	4304733591	5670	Federal	WI	A	
RW 34-13A	13	070S	220E	4304733593	5670	Federal	WI	A	
RW 11-30B	30	070S	230E	4304733785	5670	Federal	WI	A	
RW 31-30B	30	070S	230E	4304733788	5670	Federal	WI	A	
RW 33-30B	30	070S	230E	4304733790	5670	Federal	WI	A	

Bonds: BLM = ESB000024
BIA = 956010693
State = 965010695



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

Ray L. Bankart

Subject: Name Change Recognized

Attached is a copy of the Certificate of Name Change issued by the Texas Secretary of State and a decision letter recognizing the name change from the Eastern States Office. We have updated our records to reflect the name change in the attached list of leases.

The name change from **Questar Exploration and Production Company** into **QEP Energy Company** is effective June 8, 2010.

cc: MMS
UDOGM

RECEIVED

AUG 16 2010

DIV. OF OIL, GAS & MINERALS

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

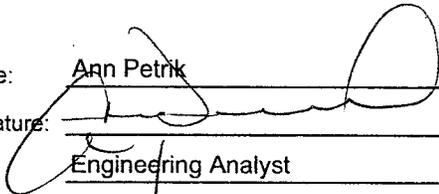
UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

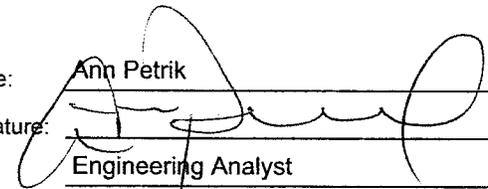
Well Name and Number See Attached List	API Number Attached
Location of Well Footage : Attached	Field or Unit Name Attached
County : _____	Lease Designation and Number Attached
QQ, Section, Township, Range: _____	State : UTAH

EFFECTIVE DATE OF TRANSFER: 6/14/2010

CURRENT OPERATOR

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

NEW OPERATOR

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

(This space for State use only)

Transfer approved by: _____

Approval Date: _____

Title: _____

Comments: _____

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

EPA approved well

Date: 6/29/10

By: D. Jones

RECEIVED

JUN 28 2010