

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.  
UTU-0103144

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

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

8. Lease Name and Well No.  
STIRRUP UNIT 9W-6-8-22

9. API Well No.  
43-047-34452

10. Field and Pool, or Exploratory  
WONSITS VALLEY

11. Sec., T., R., M., or Blk. and Survey or Area  
Sec 6 T8S R22E Mer SLB

12. County or Parish  
UINTAH

13. State  
UT

17. Spacing Unit dedicated to this well  
40.00

20. BLM/BIA Bond No. on file  
U-0969

23. Estimated duration  
10 DAYS

1a. Type of Work:  DRILL  REENTER

CONFIDENTIAL

1b. Type of Well:  Oil Well  Gas Well  Other  Single Zone  Multiple Zone

2. Name of Operator  
SHENANDOAH ENERGY INC. Contact: JOHN BUSCH  
E-Mail: jbusch@shenandoahenergy.com

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

3b. Phone No. (include area code)  
Ph: 435.781.4341  
Fx: 435.781.4323

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface NESE 1937FSL 580FEL  
At proposed prod. zone

4445447 N  
629771 E

14. Distance in miles and direction from nearest town or post office\*  
9 +/- MILES FROM REDWASH, UTAH

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)  
580' +/-

16. No. of Acres in Lease  
316.90

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.  
50' +/-

19. Proposed Depth  
8350 MD  
8350 TVD

21. Elevations (Show whether DF, KB, RT, GL, etc.)  
5177 KB

22. Approximate date work will start

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature John Busch Name (Printed/Typed) JOHN BUSCH Date 01/15/2002

Title OPERATIONS

Approved by (Signature) Bradley G. Hill Name (Printed/Typed) BRADLEY G. HILL Date 02-05-02

Title RECLAMATION SPECIALIST III

Application approval does not warrant or certify 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, are attached.

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.

Additional Operator Remarks (see next page)

RECEIVED

JAN 22 2002

DIVISION OF  
OIL, GAS AND MINING

CONFIDENTIAL

CONFIDENTIAL

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

**31**

**SHENANDOAH ENERGY, INC.**

Well location, STIRRUP UNIT #9W-6-8-22, located as shown in the NE 1/4 SE 1/4 of Section 6, T8S, R22E, S.L.B.&M. Uintah County, Utah.

T7S (6.69)

EAST - 86.69 (G.L.O.)

T8S

78.20 (G.L.O.)

(8.49)

N00°53'W - 40.95 (G.L.O.)

Lot 4

Lot 3

Lot 2

Lot 1

Lot 5

Brass Cap

**6**

1938 Brass Cap, 0.8' High, Mound of Stones

N01°43'24"W  
411.63' (Meas.)

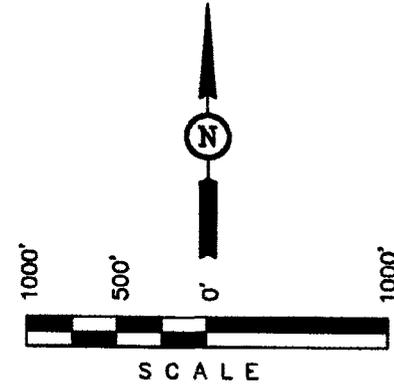
1938 Brass Cap 0.6' High, Pile of Stones

N00°55'54"W - 2674.41' (Meas.)

Lot 6

**STIRRUP UNIT #9W-6-8-22**  
Elev. Ungraded Ground = 5165'

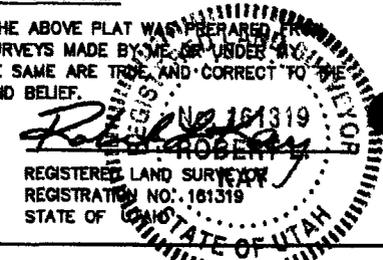
580'



SCALE

**CERTIFICATE**

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



REVISED: 1-14-02 C.G.

2119'

Lot 7

1937'

N02°00'59"W - 2264.15' (Meas.)

Brass Cap

Brass Cap

Brass Cap

N89°47'21"W - 2606.40' (Meas.)

N89°49'05"W - 2642.14' (Meas.)

R  
21  
E

R  
22  
E

LATITUDE = 40°09'05"  
LONGITUDE = 109°28'35"

**LEGEND:**

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

BASIS OF BEARINGS IS THE EAST LINE OF THE NE 1/4 SECTION 13, T8S, R21E, S.L.B.&M. WHICH IS ASSUMED FROM G.L.O. INFORMATION TO BEAR N0°49'W.

<b>UINTAH ENGINEERING &amp; LAND SURVEYING</b> 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 10-29-01	DATE DRAWN: 10-31-01
PARTY D.A. J.A. D.COX	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE SHENANDOAH ENERGY, INC.	

**Additional Operator Remarks:**

Shenandoah Energy Inc. proposes to drill a well to 8350' to test the Wasatch. 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.

Please see Shenandoah Energy Inc. Standard Practices for Wasatch Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 and 24 East.

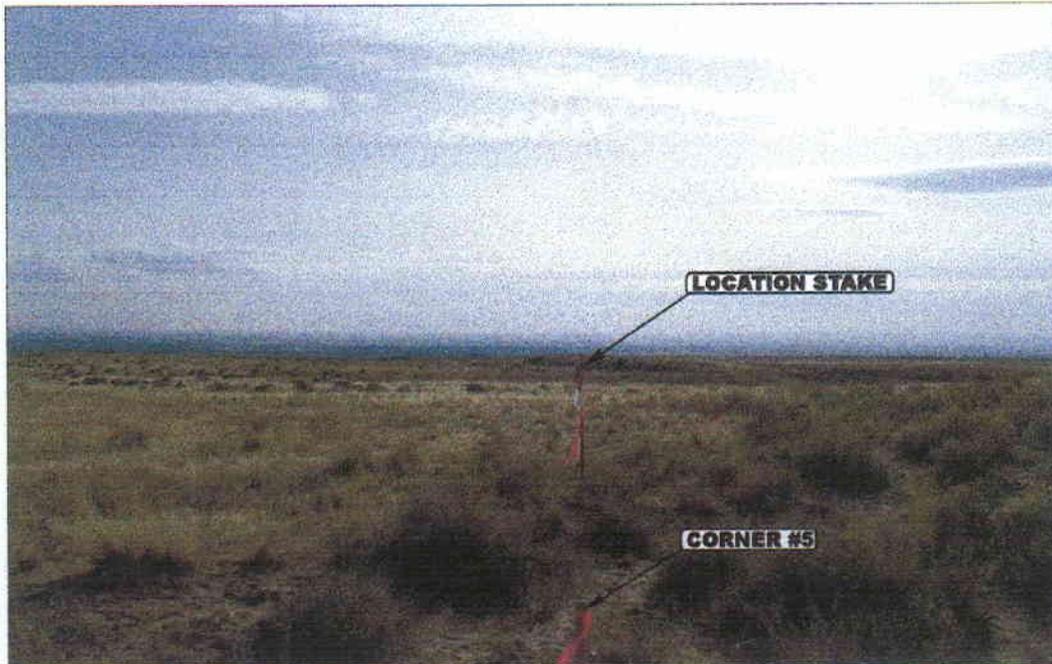
See Onshore Order No. 1 attached

Please be advised that 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. U-0969. The principal is Shenandoah Energy Inc. via surety as consent as provided for the 43 CFR 3104.2.

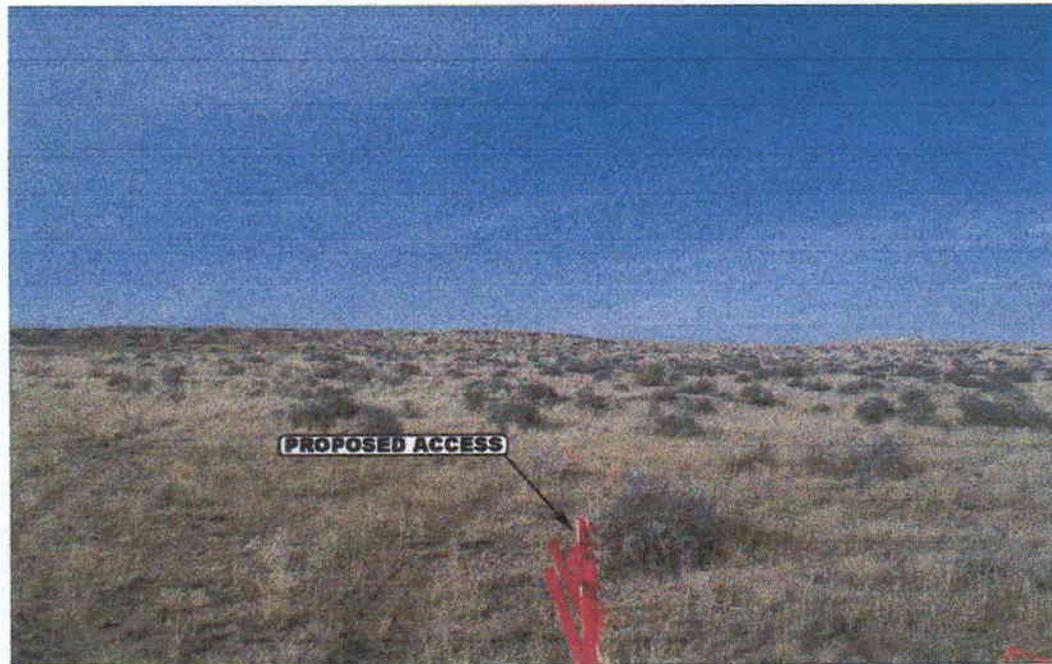
**CONFIDENTIAL**

**SHENANDOAH ENERGY, INC.**  
**STIRRUP UNIT #9W-6-8-22**  
 LOCATED IN UINTAH COUNTY, UTAH  
 SECTION 6, T8S, R22E, S.L.B.&M.



**PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE**

**CAMERA ANGLE: SOUTHWESTERLY**



**PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS**

**CAMERA ANGLE: NORTHERLY**



**U E L S** Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 435-789-1017 uels@uelsinc.com

<b>LOCATION PHOTOS</b>			<b>10</b>	<b>31</b>	<b>01</b>	<b>PHOTO</b>
			MONTH	DAY	YEAR	
TAKEN BY: D.A.	DRAWN BY: K.G.	REV: 1-14-02 P.M.				

**CONFIDENTIAL**

SHENANDOAH ENERGY INC.  
SU 9W-6-8-22

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:

<i>Formation</i>	<i>Depth</i>
Uinta	Surface
Green River	3159
Mahogany Ledge	3994
Mesa	6629
TD (Wasatch)	8350

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:

<i>Substance</i>	<i>Formation</i>	<i>Depth</i>
Oil/Gas	Wasatch	8350

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 3340.0 psi.

CONFIDENTIAL

SHENANDOAH ENERGY INC.  
STIRRUP UNIT 9W-6-8-22  
1937' FSL, 580' FEL  
NESE, Section 6, T8S, R22E  
UINTAH COUNTY, UTAH  
LEASE # UTU-0103144

ONSHORE ORDER NO. 1

MULTI – POINT SURFACE USE & OPERATIONS PLAN

An onsite inspection was conducted for the SU 9W-6-8-22 on January 3, 2002 at approximately 1:40 PM. Weather conditions were partly cloudy with a temperature of 30 degrees at the time of the onsite. In attendance at the inspection were the following individuals:

Byron Tolman	Bureau of Land Management
Dixie Sadlier	Bureau of Land Management
Paul Bueller	Bureau of Land Management
Miles Henberg	State of Utah
Raleen Searle	Shenandoah Energy Inc.

1. **Existing Roads:**

The proposed well site is approximately 9 miles southwest of Red Wash, Utah.

Refer to Topo Maps A and B for location of access roads within a 2 – mile radius.

There will be no improvements made to existing access roads.

2. **Planned Access Roads:**

Please see Shenandoah Energy Inc. Standard Practices for Wasatch Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

Refer to Topo Map B for the location of the proposed access road.

3. **Location of Existing Wells Within a 1 – Mile Radius:**

Please refer to Topo Map C.

4. **Location of Existing & Proposed Facilities:**

Please see Shenandoah Energy Inc. Standard Practices for Wasatch Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

Refer to Topo Map D for the location of the proposed pipeline.

5. **Location and Type of Water Supply:**

Please see Shenandoah Energy Inc. Standard Practices for Wasatch Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

CONFIDENTIAL

**6. Source of Construction Materials:**

Please see Shenandoah Energy Inc. Standard Practices for Wasatch Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

**7. Methods of Handling Waste Materials:**

Please see Shenandoah Energy Inc. Standard Practices for Wasatch Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

**8. Ancillary Facilities:**

Please see Shenandoah Energy Inc. Standard Practices for Wasatch Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

**9. Well Site Layout: (See Location Layout Diagram)**

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

A pit liner will be required.

**10. Plans for Reclamation of the Surface:**

Please see Shenandoah energy Inc. Standard Operating Practices for Wasatch Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Township 07 and 08 South, Ranges 21 to 24 East.

Seed mix #1

**11. Surface Ownership:**

The well pad and access road are located on lands owned by:

Bureau of Land Management  
170 South 500 East  
Vernal, Utah 84078  
(435) 781-4400

**12. Other Information**

A Class III archaeological survey was conducted by Montgomery Archaeology Consultants. A copy of this report was submitted directly to the appropriate agencies by Montgomery Archaeology Consultants. Cultural resource clearance was recommended for this location.

**CONFIDENTIAL**

**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

JAN 15-02  
Date

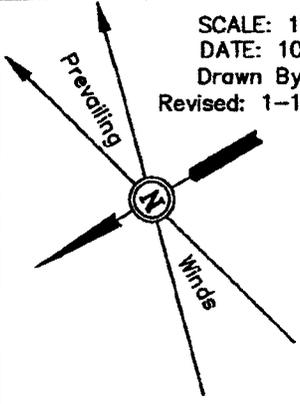
**CONFIDENTIAL**

**SHENANDOAH ENERGY, INC.**

**FIGURE #1**

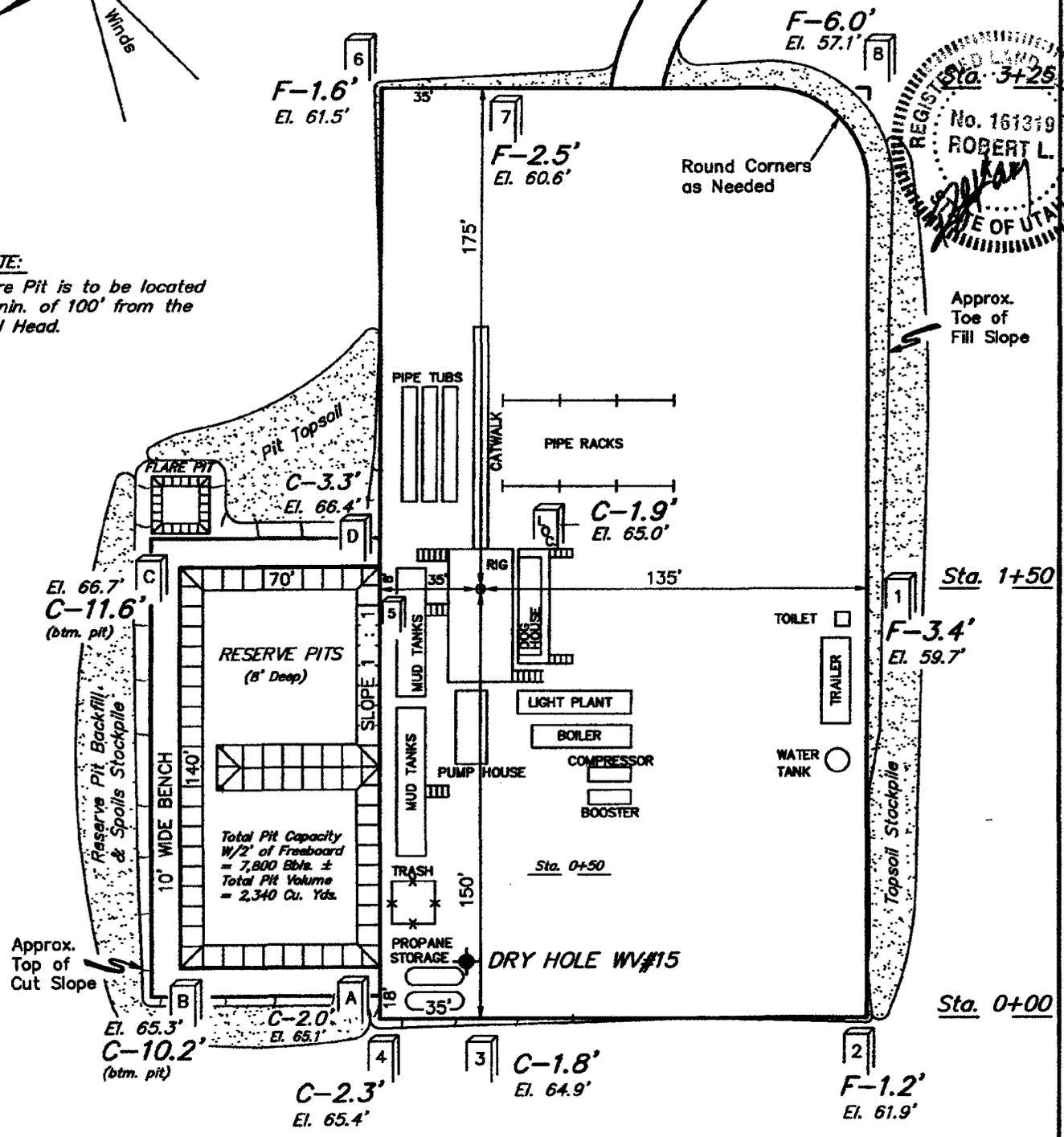
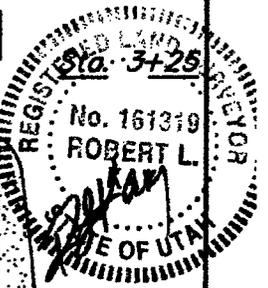
SCALE: 1" = 50'  
 DATE: 10-31-01  
 Drawn By: D.COX  
 Revised: 1-14-02 C.G.

LOCATION LAYOUT FOR  
 STIRRUP UNIT #9W-6-8-22  
 SECTION 6, T8S, R22E, S.L.B.&M.  
 1937' FSL 580' FEL



Proposed Access Road

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



**NOTES:**  
 Elev. Ungraded Ground At Loc. Stake = 5165.0'  
 FINISHED GRADE ELEV. AT LOC. STAKE = 5163.1'

UINTAH ENGINEERING & LAND SURVEYING  
 85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

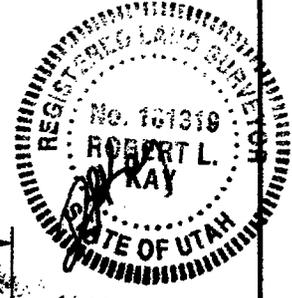
**CONFIDENTIAL**

**SHENANDOAH ENERGY, INC.**

**FIGURE #2**

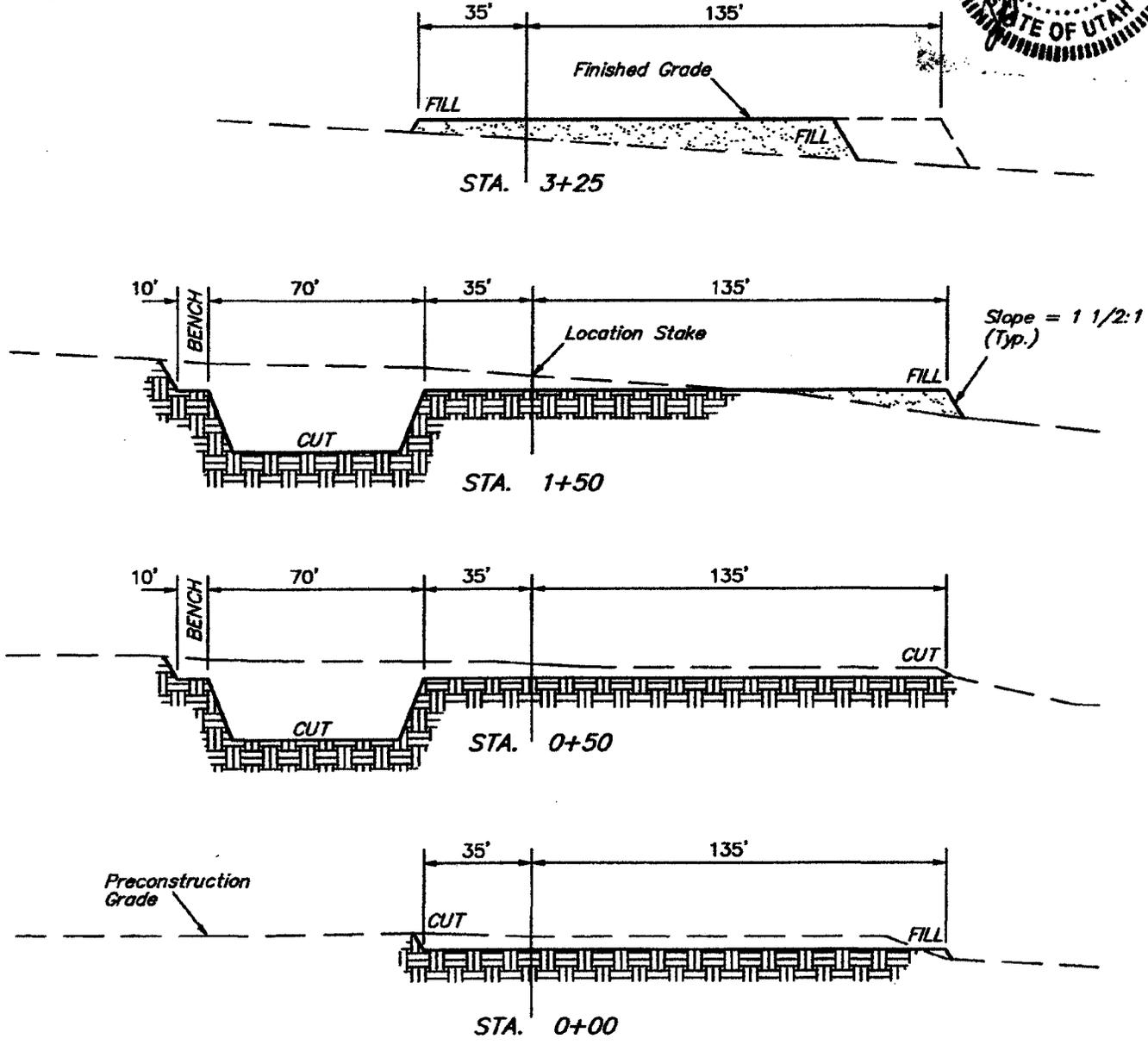
**TYPICAL CROSS SECTIONS FOR**

**STIRRUP UNIT #9W-6-8-22**  
**SECTION 6, T8S, R22E, S.L.B.&M.**  
**1937' FSL 580' FEL**



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

DATE: 10-31-01  
 Drawn By: D.COX  
 Revised: 1-14-02 C.G.



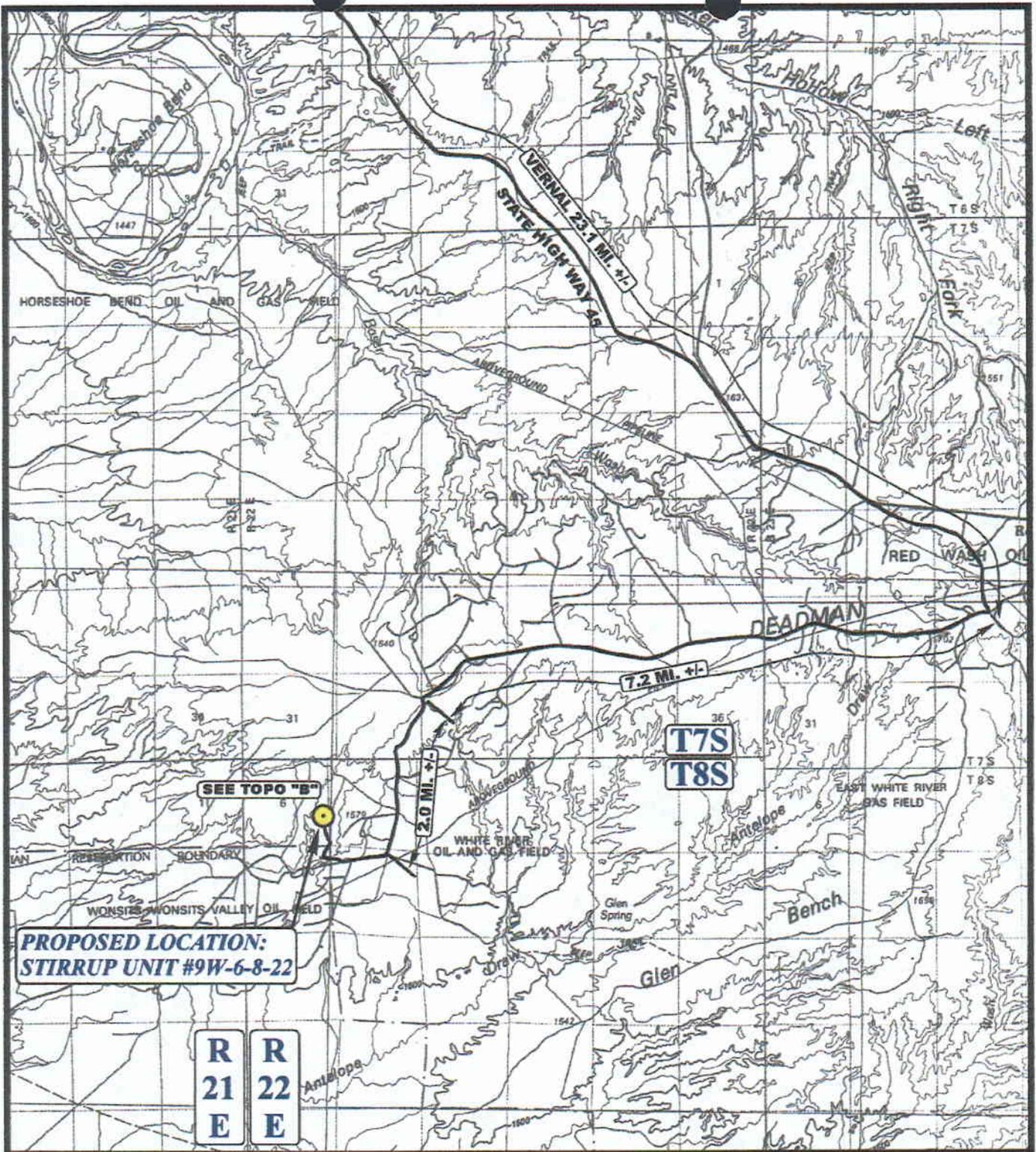
**APPROXIMATE YARDAGES**

<b>CUT</b>	
(6") Topsoil Stripping	= 1,260 Cu. Yds.
Remaining Location	= 4,370 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 5,630 CU.YDS.</b>
<b>FILL</b>	<b>= 3,040 CU.YDS.</b>

<b>EXCESS MATERIAL AFTER 5% COMPACTION</b>	<b>= 2,430 Cu. Yds.</b>
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,430 Cu. Yds.
<b>EXCESS UNBALANCE (After Rehabilitation)</b>	<b>= 0 Cu. Yds.</b>

**UINTAH ENGINEERING & LAND SURVEYING**  
 85 So. 200 East \* Vernal, Utah 84078 \* (435) 780-1017

**CONFIDENTIAL**



**PROPOSED LOCATION:  
STIRRUP UNIT #9W-6-8-22**

**R  
21  
E**    **R  
22  
E**

**T7S  
T8S**

**LEGEND:**

**PROPOSED LOCATION**



**SHENANDOAH ENERGY, INC.**

**STIRRUP UNIT #9W-6-8-22  
SECTION 6, T8S, R22E, S.L.B.&M.  
1937' FSL 580' FEL**



**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

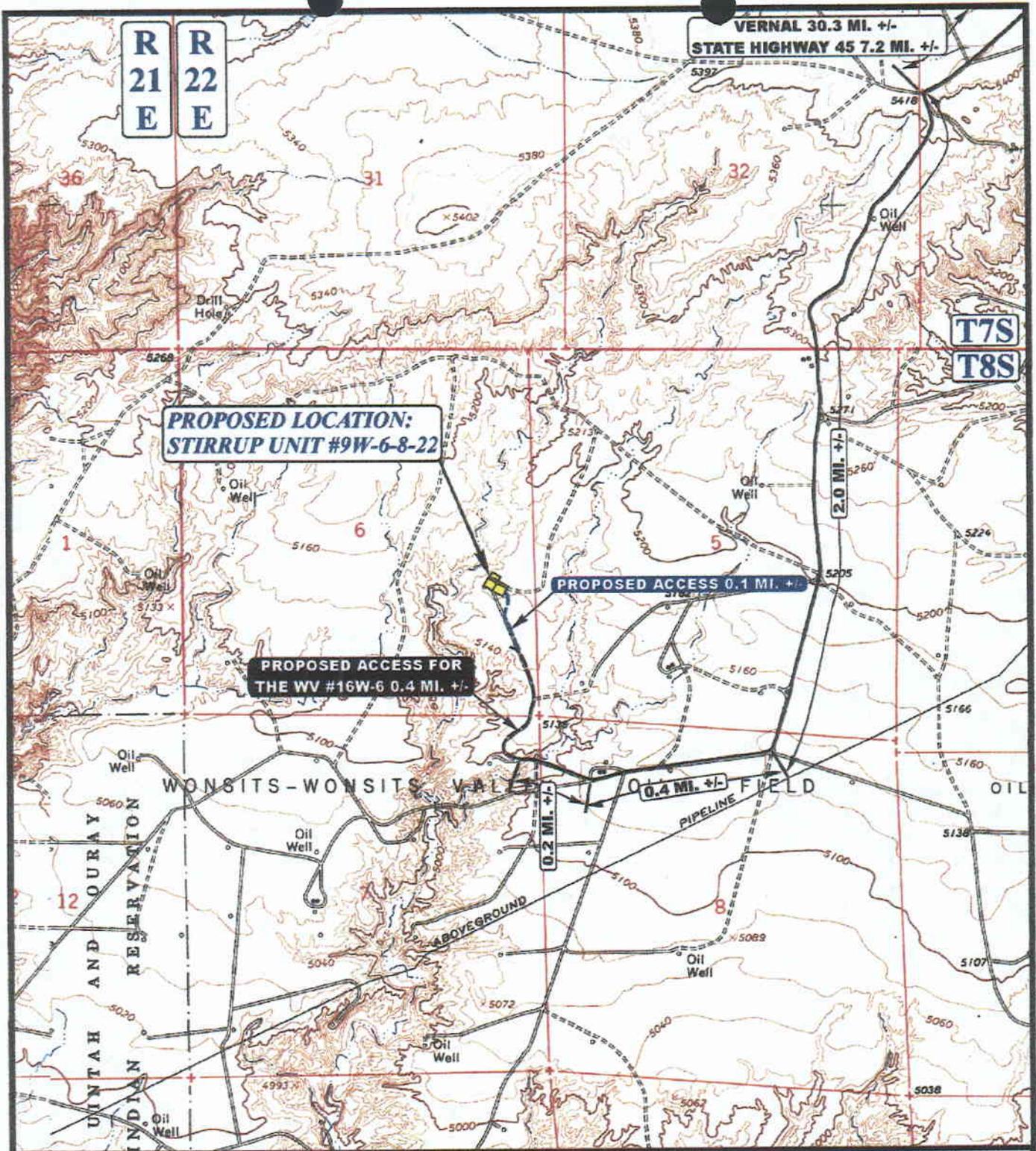
**TOPOGRAPHIC  
MAP**

**10 31 01**  
MONTH DAY YEAR

SCALE: 1 : 100,000 DRAWN BY: K.G. REV: 1-14-02 P.M.



**CONFIDENTIAL**



**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING ROAD



**SHENANDOAH ENERGY, INC.**

**STIRRUP UNIT #9W-6-8-22**  
**SECTION 6, T8S, R22E, S.L.B.&M.**  
**1937' FSL 580' FEL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

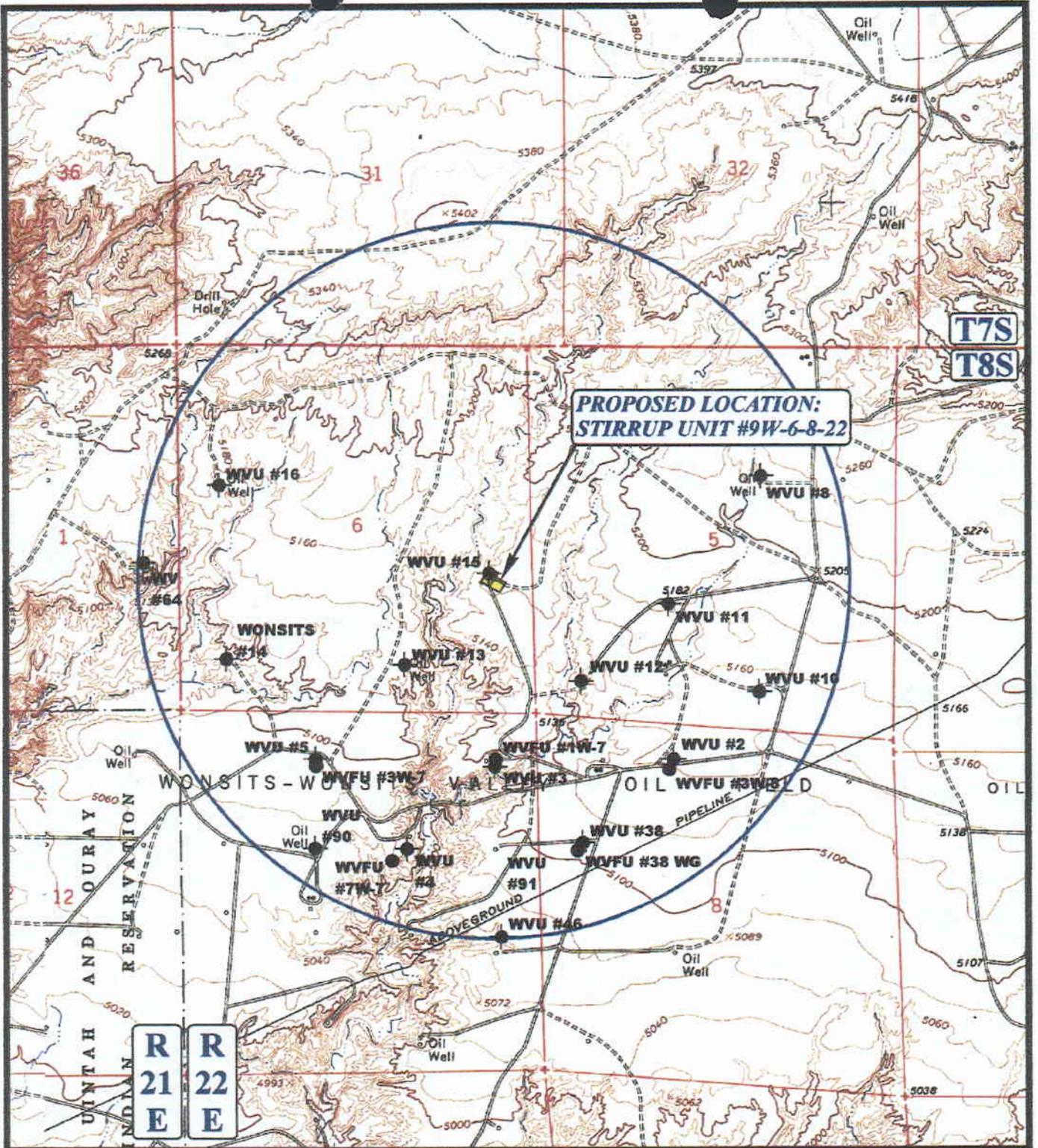
**TOPOGRAPHIC**  
**MAP**

<b>10</b>	<b>31</b>	<b>01</b>
MONTH	DAY	YEAR



SCALE: 1" = 2000' DRAWN BY: K.G. REV: 1-14-02 P.M.

CONFIDENTIAL



**LEGEND:**

- ⊘ DISPOSAL WELLS
- PRODUCING WELLS
- ⊖ SHUT IN WELLS
- ⊕ WATER WELLS
- ⊙ ABANDONED WELLS
- ⊖ TEMPORARILY ABANDONED

**SHENANDOAH ENERGY, INC.**

**STIRRUP UNIT #9W-6-8-22**  
**SECTION 6, T8S, R22E, S.L.B.&M.**  
**1937' FSL 580' FEL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC**  
**MAP**

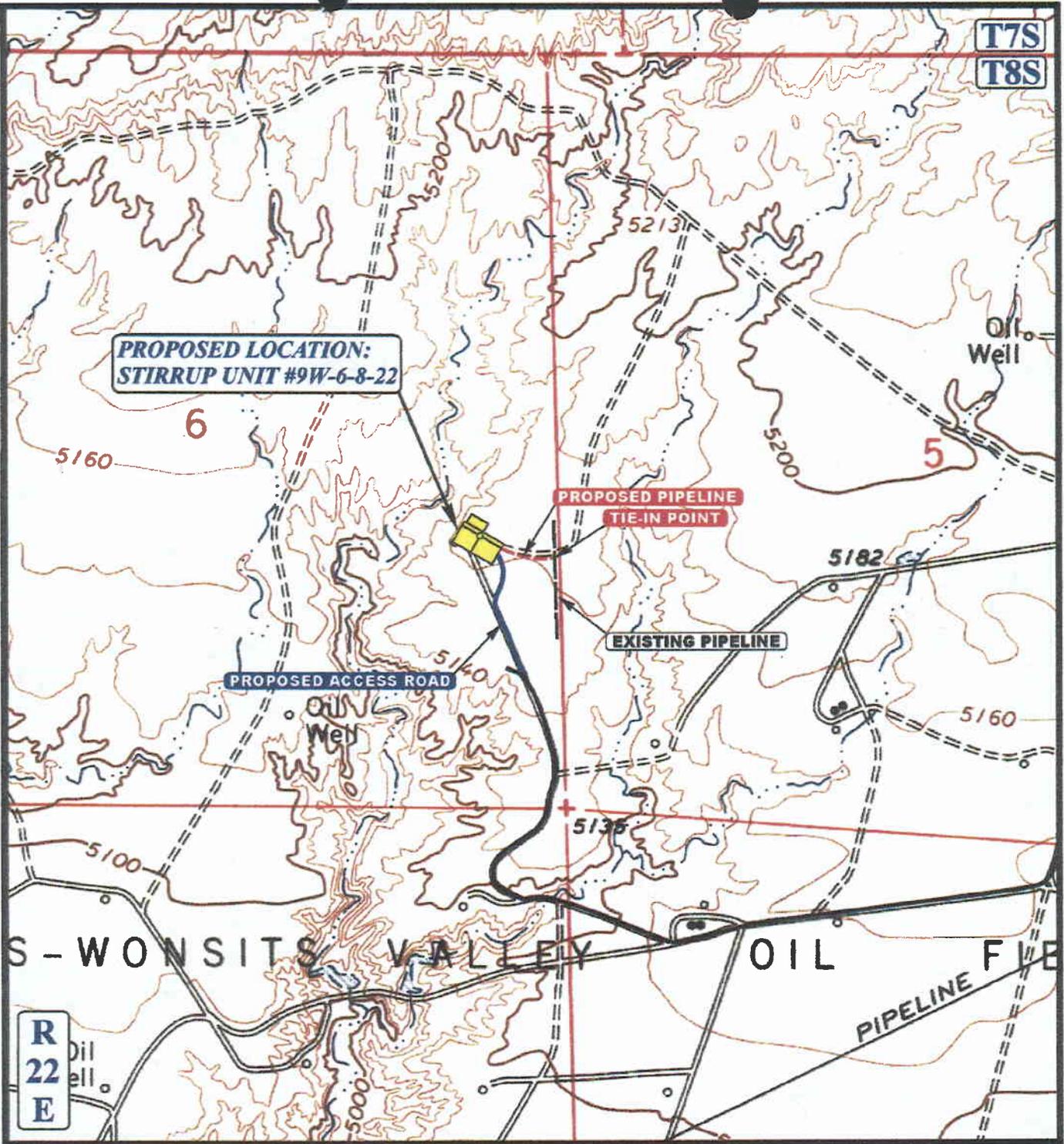
**10 31 01**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: K.G. REV: 1-14-02 P.M.



**CONFIDENTIAL**

T7S  
T8S



APPROXIMATE TOTAL PIPELINE DISTANCE = 400' +/-

**LEGEND:**

-  EXISTING PIPELINE
-  PROPOSED PIPELINE
-  PROPOSED ACCESS



**SHENANDOAH ENERGY, INC.**

**STIRRUP UNIT #9W-6-8-22**  
**SECTION 6, T8S, R22E, S.L.B.&M.**  
**1937' FSL 580' FEL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC MAP** **10 31 01**  
MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: K.G. REV: 1-14-02 P.M.



**CONFIDENTIAL**

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

002

APD RECEIVED: 01/22/2002

API NO. ASSIGNED: 43-047-34452

WELL NAME: STIRRUP U 9W-6-8-22  
 OPERATOR: SHENANDOAH ENERGY INC ( N4235 )  
 CONTACT: JOHN BUSCH

PHONE NUMBER: 435-781-4341

PROPOSED LOCATION:

NESE 06 080S 220E  
 SURFACE: 1937 FSL 0580 FEL  
 BOTTOM: 1937 FSL 0580 FEL  
 UINTAH  
 WONSITS VALLEY ( 710 )

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

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-0103144  
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: WSTC

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. U-0969 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 43-8496 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)

LOCATION AND SITING:

- R649-2-3. Unit \_\_\_\_\_
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: \_\_\_\_\_
- Eff Date: \_\_\_\_\_
- Siting: \_\_\_\_\_
- R649-3-11. Directional Drill

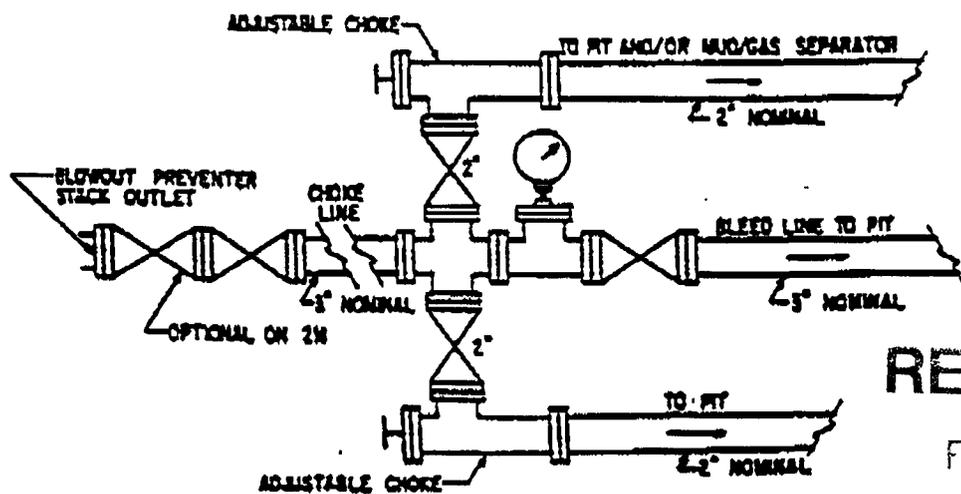
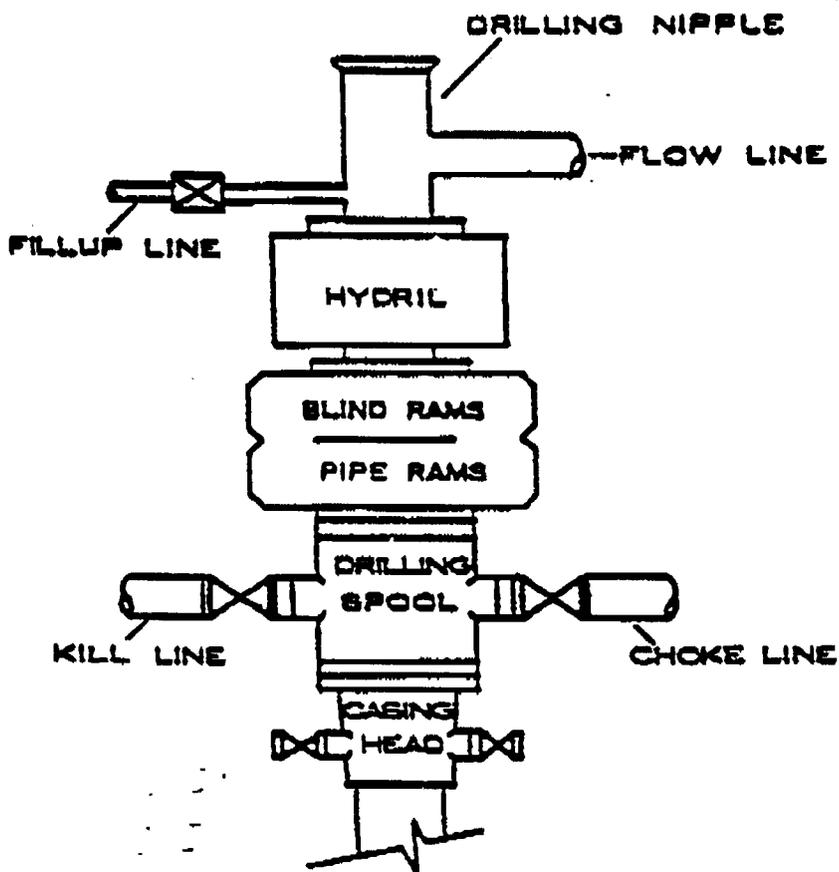
COMMENTS: WV Field Sol, separate file.

STIPULATIONS: 1-Fed. Approval  
2-Spacing Stip.



Drilling Program

SCHEMATIC DIAGRAM OF 3,000 PSI BOP STACK



RECEIVED

FEB 04 2002

DIVISION OF OIL, GAS AND MINING

003



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

Michael O. Leavitt  
Governor  
Kathleen Clarke  
Executive Director  
Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5340  
801-359-3940 (Fax)  
801-538-7223 (TDD)

February 5, 2002

Shenandoah Energy Inc  
11002 E 17500 S  
Vernal UT 84078

Re: Stirrup Unit 9W-6-8-22 Well, 1937' FSL, 580' FEL, NE SE, Sec. 6, T. 8 South,  
R. 22 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 43-047-34452.

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 Stirrup Unit 9W-6-8-22  
API Number: 43-047-34452  
Lease: UTU-0103144

Location: NE SE      Sec. 6      T. 8 South      R. 22 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

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.

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

004  
Form 3160-3  
(August 1999)

RECEIVED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

JAN 16 2002

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. UTU-0103144
6. If Indian, Allottee or Tribe Name N/A
7. If Unit or CA Agreement, Name and No. N/A
8. Lease Name and Well No. STIRRUP UNIT 9W-6-8-22
9. API Well No.
10. Field and Pool, or Exploratory WONSITS VALLEY
11. Sec., T., R., M., or Blk. and Survey or Area Sec 6 T8S R22E Mer SLB
12. County or Parish UINTAH
13. State UT
17. Spacing Unit dedicated to this well 40.00
20. BLM/BIA Bond No. on file U-0969
23. Estimated duration 10 DAYS

CONFIDENTIAL

1a. Type of Work:  DRILL  REENTER

1b. Type of Well:  Oil Well  Gas Well  Other  Single Zone  Multiple Zone

2. Name of Operator  
SHENANDOAH ENERGY INC. Contact: JOHN BUSCH  
E-Mail: jbusch@shenandoahenergy.com

3a. Address: 11002 E. 17500 S. VERNAL, UT 84078  
3b. Phone No. (include area code)  
Ph: 435.781.4341  
Fx: 435.781.4323

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface NESE 1937FSL 580FEL  
At proposed prod. zone

14. Distance in miles and direction from nearest town or post office\*  
9 +/- MILES FROM REDWASH, UTAH

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)  
580' +/-

16. No. of Acres in Lease  
316.90

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.  
50' +/-

19. Proposed Depth  
8350 MD  
8350 TVD

21. Elevations (Show whether DF, KB, RT, GL, etc.)  
5177 KB

22. Approximate date work will start

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature: John Busch Name (Printed/Typed): JOHN BUSCH Date: 01/15/2002

Title: OPERATIONS

Approved by (Signature): [Signature] Name (Printed/Typed): Assistant Field Manager Office: Mineral Resources Date: 02/27/2002

Application approval does not warrant or certify 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, are attached.

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.

Additional Operator Remarks (see next page)

NOTICE OF APPROVAL CONDITIONS OF APPROVAL ATTACHED

RECEIVED

MAR 01 2002

DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

DOGMA

APD POSTED 01/17/02

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Shenandoah Energy Inc.

Well Name & Number: STIRRUP UNIT #9W-6-8-22

API Number: 43-047-34452

Lease Number: U - 0103144

Location: NESE Sec. 06 T. 8S R. 22E

Agreement: N/A

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

**CONDITIONS OF APPROVAL FOR NOTICE TO DRILL**

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

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 top of the Green River formation, identified at  $\pm 3,145$  ft.

CONDITIONS OF APPROVAL  
APPLICATION FOR THE SURFACE USE PROGRAM OF THE  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Shenandoah Energy Inc.

API Number: 43-047-34452

Well Name & Number: 9W-6-8-22

Lease Number: U - 0103144

Location: NESE Sec. 6 T. 08S R. 22E

Surface Ownership: BLM

Date of NOS Received: 11-8-01

Date APD Received: 1-16-02

-None

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.  
UTU0103144

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.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. WONSITS VALLEY 9W-6-8-22
2. Name of Operator SHENANDOAH ENERGY INC		9. API Well No. 43-047-34452-00-X1
3a. Address 11002 EAST 17500 SOUTH VERNAL, UT 84078-8526		10. Field and Pool, or Exploratory WONSITS VALLEY
3b. Phone No. (include area code) Ph: 435.781.4309 Fx: 435.781.4329		11. County or Parish, and State UINTAH COUNTY, UT
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 6 T8S R22E NESE 1937FSL 580FEL		

**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 checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original PD
	<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.)

Shenandoah Energy Inc. hereby requests an one year extenstension on the APD for the SU 9W-6-8-22.

RECEIVED

MAR 11 2003

*email*

DIV. OF OIL, GAS & MINING

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

**Electronic Submission #19286 verified by the BLM Well Information System  
For SHENANDOAH ENERGY INC, sent to the Vernal  
Committed to AFMSS for processing by LESLIE WALKER on 03/10/2003 (03LW1127SE)**

Name (Printed/Typed) RALEEN SEARLE	Title REGULATORY AFFAIRS ANALYST
Signature (Electronic Submission)	Date 03/06/2003

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By <u>KIRK FLEETWOOD</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>03/11/2003</u>
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 <u>Vernal</u>

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.

Revisions to Operator-Submitted EC Data for Sundry Notice #19286

**Operator Submitted**

**BLM Revised (AFMSS)**

Sundry Type: OTHER  
NOI

APDCH  
NOI

Lease: UTU-0103144

UTU0103144

Agreement:

Operator: SHENANDOAH ENERGY INC.  
11002 EAST 17500 SOUTH  
VERNAL, UT 84078  
Ph: 435.781.4309  
Fx: 435.781.4323

SHENANDOAH ENERGY INC  
11002 EAST 17500 SOUTH  
VERNAL, UT 84078-8526  
Ph: 435.781.4300  
Fx: 435.781.4329

Admin Contact: RALEEN SEARLE  
REGULATORY AFFAIRS ANALYST  
E-Mail: raleen.searle@questar.com

RALEEN SEARLE  
REGULATORY AFFAIRS ANALYST  
E-Mail: raleen.searle@questar.com

Ph: 435.781.4309  
Fx: 435.781.4329

Ph: 435.781.4309  
Fx: 435.781.4329

Tech Contact:

Location:  
State: UT  
County: UINTAH

UT  
UINTAH

Field/Pool: WONSITS VALLEY

WONSITS VALLEY

Well/Facility: STIRRUP UNIT 9W-6-8-22  
Sec 6 T8S R22E NESE 1937FSL 580FEL

WONSITS VALLEY 9W-6-8-22  
Sec 6 T8S R22E NESE 1937FSL 580FEL

Shenandoah Energy Inc.  
APD Extension

Well: WV 9W-6-8-22

Location: NESE Sec. 6, T8S, R22E

Lease: U-0103144

**Conditions of Approval**

An extension for the referenced APD is granted with the following condition(s):

1. The extension will expire 2/27/04
2. No other extensions beyond that time frame will be granted or allowed.

If you have any other questions concerning this matter, please contact Kirk Fleetwood at (435) 781-4486.





## United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

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

Phone: (435) 781-4400  
Fax: (435) 781-4410

IN REPLY REFER TO:  
3160  
UT08300

June 2, 2003

Raleen Searle  
Shenandoah Energy Inc.  
11002 East 175000 South  
Vernal, Utah 84078

Re: Wells 9W-6-8-22, 11W-6-8-22,  
13W-6-8-22, 14W-6-8-22  
S2, Sec. 6, T8S, R22E  
Uintah County, Utah  
Lease No. U-0103144

Dear Raleen:

The Applications for Permit to Drill (APDs) the above referenced wells have been rescinded as per your request. If you intend to drill at this location at a future date, a new APD must be submitted.

No drilling activity at these locations has been reported to this office. Therefore, approval to drill the wells is hereby rescinded, effective June 2, 2003.

If you have any questions concerning APD processing, please contact me at (435) 781-4497.

Sincerely,

Leslie Walker  
Legal Instruments Examiner

cc: UDOGM – Diana Mason

RECEIVED

JUN 11 2003

DIV OF OIL, GAS & MINING



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

Michael O. Leavitt  
Governor  
Kathleen Clarke  
Executive Director  
Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5340  
801-359-3940 (Fax)  
801-538-7223 (TDD)

June 18, 2003

Raleen Searle  
Shenandoah Energy Inc.  
11002 East 17500 South  
Vernal, Utah 84078

Re: APD Rescinded – Stirrup Unit 9W-6-8-22, Sec. 6, T.8S, R.22E – Uintah County, Utah, API No. 43-047-34452

Dear Ms. Searle:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on February 5, 2002. On March 12, 2003, the Division granted a one-year APD extension. On June 11, 2003 the Division received a letter from the Bureau of Land Management (BLM), which states that the permit filed with the BLM was being returned unapproved as per your request. I contacted you at that time and you requested that the APD filed with the Division be rescinded. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective June 11, 2003, as requested.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

A handwritten signature in black ink that reads "Diana Mason".

Diana Mason  
Engineering Technician

cc: Well File  
Bureau of Land Management, Vernal