Form 3160-3
(July 1992)

FORM APPROVED
OMB NO. 1040-0136
Expires: February 28, 1995

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

TYPE OF WORK: DRILL ☑ DEEPEN ☐	5. LEASE DESIGNATION AND SERIAL NO.: UTU-0807
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE TRIBE
	7. UNIT AGREEMENT NAME: WONSITS VALLEY UNIT
TYPE OF WELL: ☐ OIL WELL ☑ GAS WELL ☐ OTHER ☑ SINGLE ZONE ☐ MULTIPLE ZONE	8. FARM OR LEASE NAME, WELL NO.: WV 9AML-15-8-21
2. NAME OF OPERATOR: QUESTAR EXPLORATION & PRODUCTION, CO. — Contact: Jan Nelson, E-Mail: jan.nelson@questar.com	9.API NUMBER: 43-047-39040
3. ADDRESS: 1571 E 1700 S VERNAL, UT 84078 — Telphone number: *Phone 435-781-4032 Fax 435-781-4045*	10. FIELD AND POOL, OR WILDCAT: WONSITS VALLEY
4. LOCATION OF WELL (Report location clearly and in accordance with and State requirements*): At Surface 625135X 2609' FSL 289' FEL NESE SECTION 15 T8S R21E; At proposed production zone 4442283Y 40.123460 -109.531449	11. SEC.,T, R, M, OR BLK & SURVEY OR AREA: SEC. 15, T8S, R21E Mer SLB
14. DISTANCE IN MILES FROM NEAREST TOWN OR POSTOFFICE*: 10 + / - EAST OF OURAY, UTAH	12. COUNTY OR PARISH: Uintah — 13. STATE: UT
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (also to nearest drig,unit line if any): 289' +/-	16.NO.OF ACRES IN LEASE: 1280.00 — 17. NO. OF ACRES ASSIGNED TO THIS WELL: 20
18.DISTANCE FROM PROPOSED location to nearest well, drilling, completed, applied for, on this lease, ft: 920' +/-	19. PROPOSED DEPTH: 11,650' — 20. BLM/BIA Bond No. on file: ESB000024
21. ELEVATIONS (Show whether DF, RT, GR, ect.): 4848.2' GR	22. DATE WORK WILL START: ASAP — 23. Estimated duration: 14 Days

24. Attachments

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

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

SIGNED Jan Nelson — Name (printed/typed) Jan Nelson — DATE 2-1-07

TITLE Regulatory Affairs

(This space for Federal or State office use)

PERMIT NO. 43-047-39040 — APPROVAL DATE

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

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY — TITLE BRADLEY G. HILL ENVIRONMENTAL MANAGER — DATE 02-08-07

*See Instructions On Reverse Side

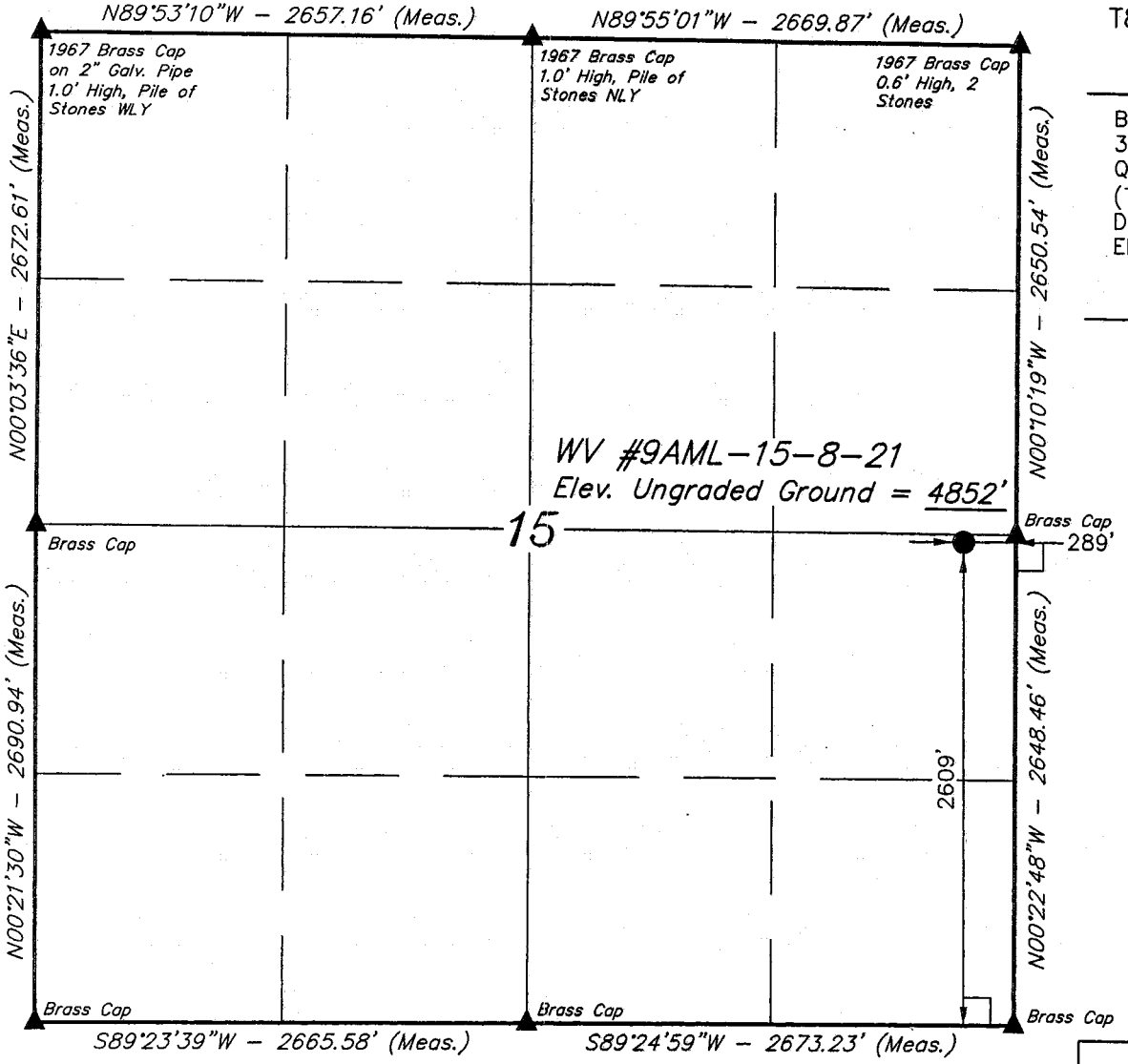
Title 18 U.S.C Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any mater within its jurisdiction

RECEIVED
FEB 05 2007
DIV. OF OIL, GAS & MINING

Federal Approval of this Action is Necessary

CONFIDENTIAL

T8S, R21E, S.L.B.&M.



QUESTAR EXPLR. & PROD.

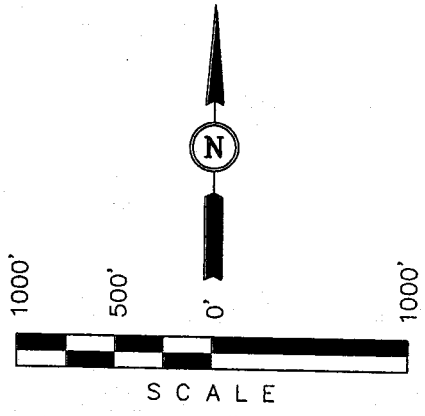
Well location, WV #9AML-15-8-21, located as shown in the NE 1/4 SE 1/4 of Section 15, T8S, R21E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK 20EAM LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M., TAKEN FROM THE OURAY SE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



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.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

LEGEND:

└ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

(NAD 83)
LATITUDE = 40°07'24.30" (40.123417)
LONGITUDE = 109°31'55.66" (109.532128)
(NAD 27)
LATITUDE = 40°07'24.43" (40.123453)
LONGITUDE = 109°31'53.18" (109.531439)

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	09-26-06	10-21-06
PARTY: D.A. J.B. P.M.	REFERENCES: G.L.O. PLAT	
WEATHER: WARM	FILE: QUESTAR EXPLR. & PROD.	

Additional Operator Remarks

Questar Explor. & Prod. Co. proposes to drill a well to 11,650' to test the MesaVerde. 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 Questar Explor. & Prod. Co.Standard Operating Practices dated October 18, 2005, for Mesa Verde Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and Undesignated fields in Townships 07, 08 and 09 South, Ranges 21 to 25 East.

Please be advised that Questar Explor. & Prod. Co. 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.ESB000024. The principal is Questar Explor. & Prod. Co. via surety as consent as provided for the 43 CFR 3104.2.

Questar Exploration & Production, Co.
WV 9AML-15-8-21

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:

Formation	***Depth***
Uinta	Surface
Green River	2700'
Mahogany Ledge	3450'
Wasatch	6045'
Mesa Verde	9160'
Sego	11,535'
TD	11,650'

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:

Substance	***Formation***	***Depth***
Oil/Gas	Mesa Verde	11,650'

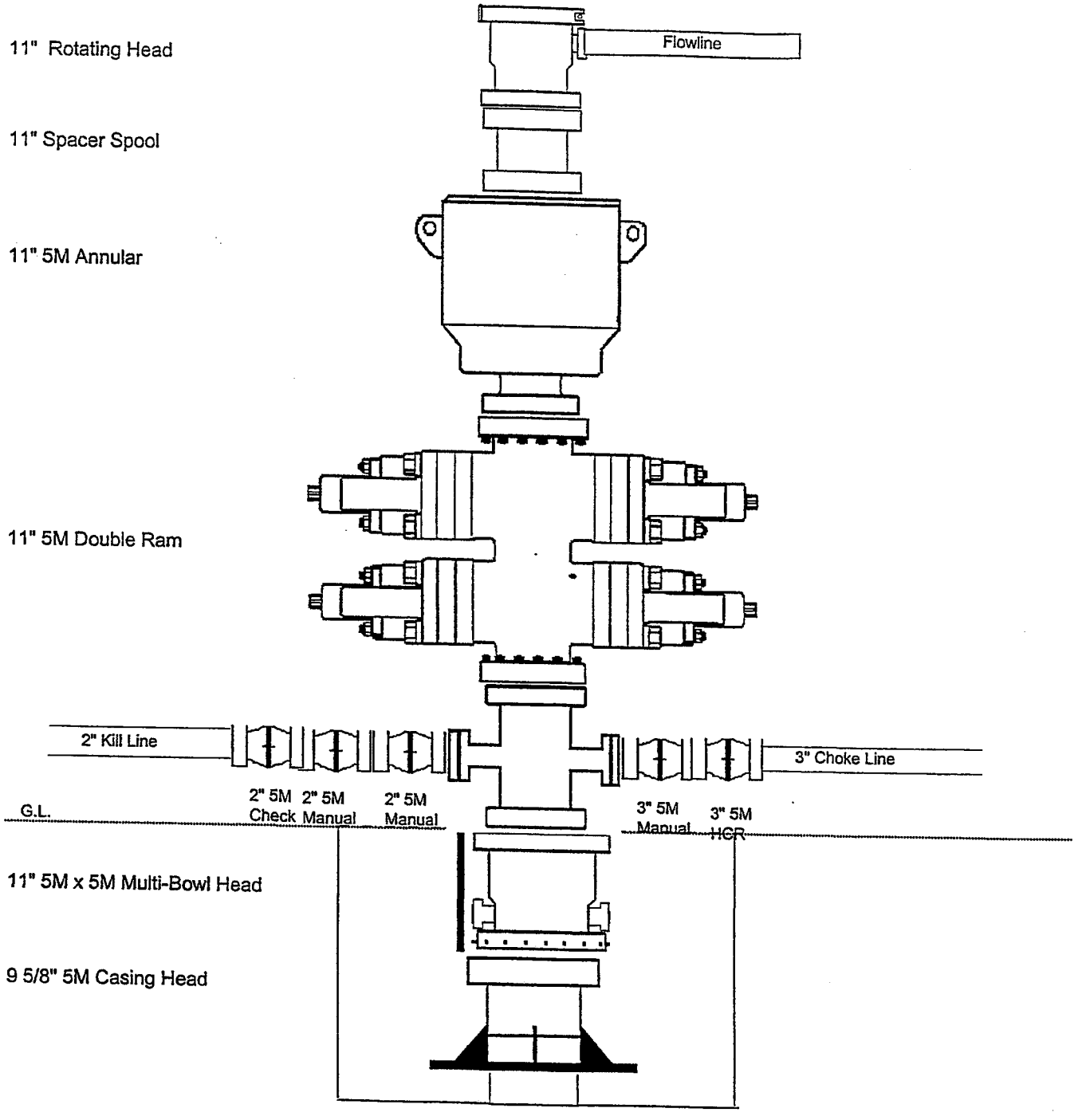
All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

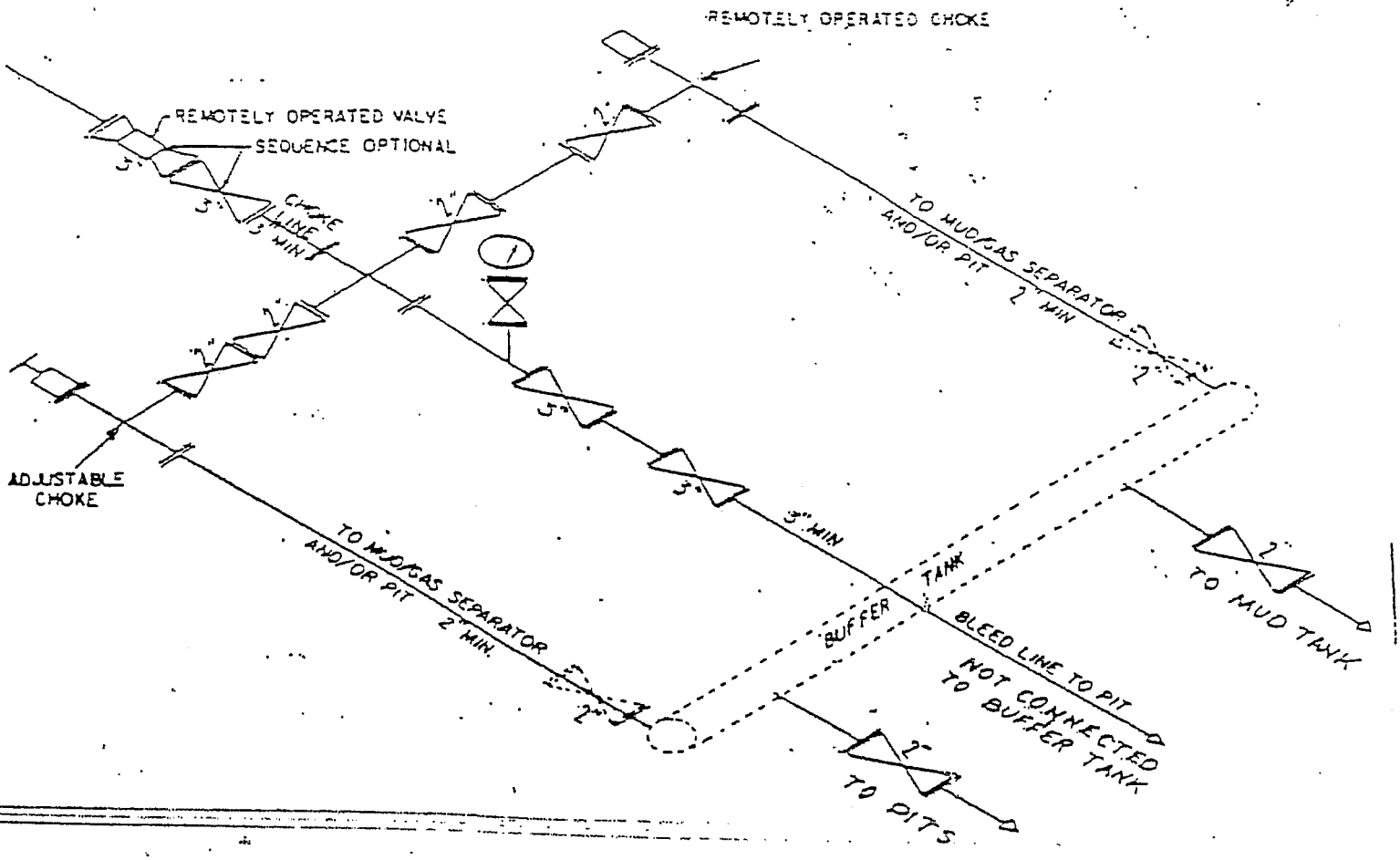
All water shows and water-bearing sands will be reported to the BLM in Vernal, Utah. Copies of State of Utah form OGC-8-X are acceptable. If no flows are detected, samples will be submitted to the BLM along with any water analyses conducted.

3. Anticipated Bottom Hole Pressures

Maximum anticipated bottom hole pressure equals approximately 6968.0 psi.

5M BOP STACK


11" Rotating Head
Flowline
11" Spacer Spool
11" 5M Annular
11" 5M Double Ram
2" Kill Line
3" Choke Line
G.L.
2" 5M Check
2" 5M Manual
2" 5M Manual
3" 5M Manual
3" 5M HCR
11" 5M x 5M Multi-Bowl Head
9 5/8" 5M Casing Head



(2) 5M CHOKE MANIFOLD EQUIPMENT — CONFIGURATION OF CHOKES MAY VARY

[FR Doc. 88-26738 Filed 11-17-88; 8:45 am]
BILLING CODE 4310-84-C

QUESTAR EXPLORATION & PRODUCTION, CO.
WV 9AML-15-8-21
2609' FSL 289' FEL
NESE, SECTION 15, T8S, R21E
UINTAH COUNTY, UTAH
LEASE # UTU-0807

ONSHORE ORDER NO. 1

MULTI – POINT SURFACE USE & OPERATIONS PLAN

1. **Existing Roads:**

The proposed well site is approximately 10 miles east of Ouray, 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 roads.

2. **Planned Access Roads:**

Please see Questar Explor. & Prod. Co Standard Operating Practices dated October 18, 2005, for Mesa Verde Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and Undesignated fields in Townships 07, 08 and 09 South, Ranges 21 to 25 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 Questar Explor. & Prod. Co Standard Operating Practices dated October 18, 2005, for Mesa Verde Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and Undesignated fields in Townships 07, 08 and 09 South, Ranges 21 to 25 East.

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

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

Please see Questar Explor. & Prod. Co Standard Operating Practices dated October 18, 2005, for Mesa Verde Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and Undesignated fields in Townships 07, 08 and 09 South, Ranges 21 to 25 East.

6. **Source of Construction Materials:**

Please see Questar Explor. & Prod. Co Standard Operating Practices dated October 18, 2005, for Mesa Verde Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and Undesignated fields in Townships 07, 08 and 09 South, Ranges 21 to 25 East.

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

Please see Questar Explor. & Prod. Co Standard Operating Practices dated October 18, 2005, for Mesa Verde Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and Undesignated fields in Townships 07, 08 and 09 South, Ranges 21 to 25 East.

8. **Ancillary Facilities:**

Please see Questar Explor. & Prod. Co Standard Operating Practices dated October 18, 2005, for Mesa Verde Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and Undesignated fields in Townships 07, 08 and 09 South, Ranges 21 to 25 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 is required. A felt pit liner will be required if bedrock is encountered.

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

Please see Questar Explor. & Prod. Co Standard Operating Practices dated October 18, 2005, for Mesa Verde Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and Undesignated fields in Townships 07, 08 and 09 South, Ranges 21 to 25 East.

Interim Reclamation

Please see attached Interim Reclamation plan.

Once the well is put onto production, QEP will reclaim as much of the well pad as possible that will allow for operations to continue in a safe and reasonable manner. Reseeding will be done in the spring or fall of every year to allow winter precipitation to aid in the succuss of reclamation.

Seed Mix:

Interim Reclamation:
6 lbs Hycrest Crested Wheatgrass
6 lbs Needle & Threadgrass
Final Reclamation:
Seed Mix # 1 3 lbs. Fourwing Saltbush, 3 lbs. Indian Rice Grass, 4 lbs. Hycrest Crested Wheat Grass, 1 lb. Needle & Threadgrass

11. **Surface Ownership:**

The well pad and access road are located on lands owned by:
Ute Tribe
PO Box 70
FT. Duchesne, UT 84026

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.

Lessee's or Operator's Representative:

Jan Nelson
Red Wash Rep.
Questar Exploration & Production, Co.
1571 East 1700 South
Vernal, Utah 84078
(435) 781-4032

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.

QEP 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 QEP it's 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.

Jan Nelson
Red Wash Representative

01-Feb-07
Date

QUESTAR EXPLR. & PROD.

WV #9AML-15-8-21

LOCATED IN UINTAH COUNTY, UTAH
SECTION 15, T8S, R21E, S.L.B.&M.

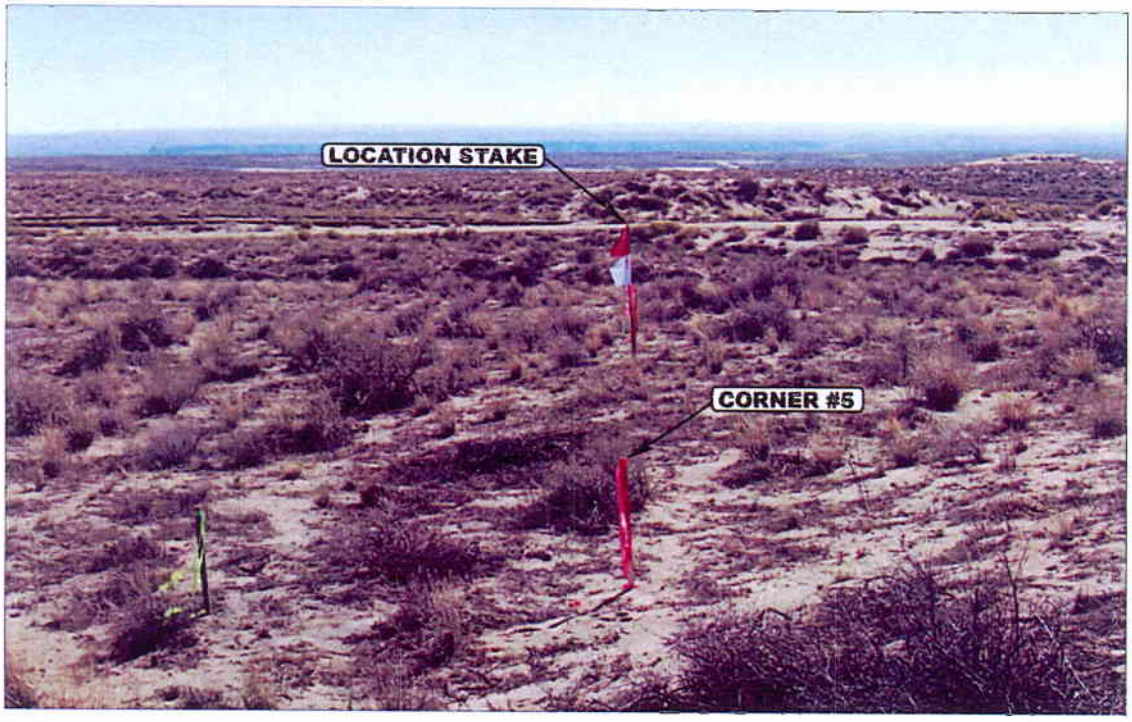


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE **CAMERA ANGLE: SOUTHERLY**

PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS **CAMERA ANGLE: NORTHERLY**

- Since 1964 -
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

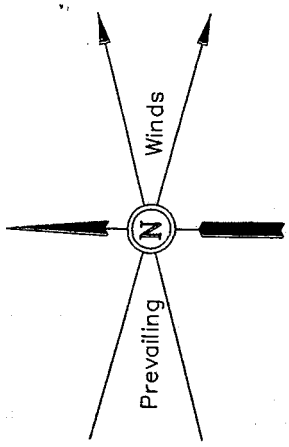
LOCATION PHOTOS	10 MONTH	13 DAY	06 YEAR	PHOTO
TAKEN BY: D.A.	DRAWN BY: L.K.	REVISED: 00-00-00		

QUESTAR EXPLR. & PROD.

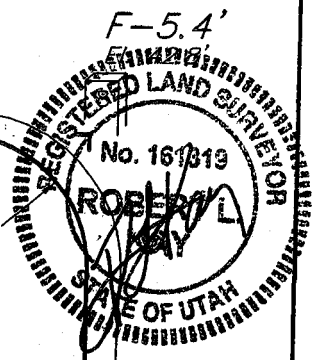
LOCATION LAYOUT FOR

WV #9AML-15-8-21
SECTION 15, T8S, R21E, S.L.B.&M.
2609' FSL 289' FEL

FIGURE #1



SCALE: 1" = 50'
DATE: 10-21-06
Drawn By: P.M.



C-3.9'
El. 52.1'

F-5.4'
El. 46.2'

Topsoil Stockpile

Sta. 3+50

C-3.3'
El. 51.5'

Round Corners as needed

Approx. Top of Cut Slope

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

Approx. Toe of Fill Slope

PIPE TUBS
CATWALK
PIPE RACKS

FLARE PIT

C-4.2'
El. 52.4'

C-3.4'
El. 51.6'

F-7.7'
El. 40.5'

RIG

El. 58.2'
C-22.0'
(btm. pit)

Sta. 1+75

TOILET

C-4.7'
El. 52.9'

DOG HOUSE

TRAILER

LIGHT PLANT

BOILER

COMPRESSOR

WATER TANK

PUMP HOUSE

MUD TANKS

BOOSTER

RESERVE PITS (12' Deep)

SLOPE 1-1/2 :1

10' WIDE BENCH

Reserve Pit Backfill & Spoils Stockpile

Total Pit Capacity W/2' of Freeboard = 10,610 Bbls. ±
Total Pit Volume = 2,870 Cu. Yds.

Sta. 0+51

TRASH

PROPANE STORAGE

El. 55.4'
C-19.2'
(btm. pit)

C-2.9'
El. 51.1'

F-0.1'
El. 48.1'

Sta. 0+00

Existing Pipeline

Topsoil Stockpile

C-2.0'
El. 50.2'

F-13.4'
El. 34.8'

Proposed Access Road

NOTES:

Elev. Ungraded Ground At Loc. Stake = 4851.6'
FINISHED GRADE ELEV. AT LOC. STAKE = 4848.2'

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

QUESTAR EXPLR. & PROD.

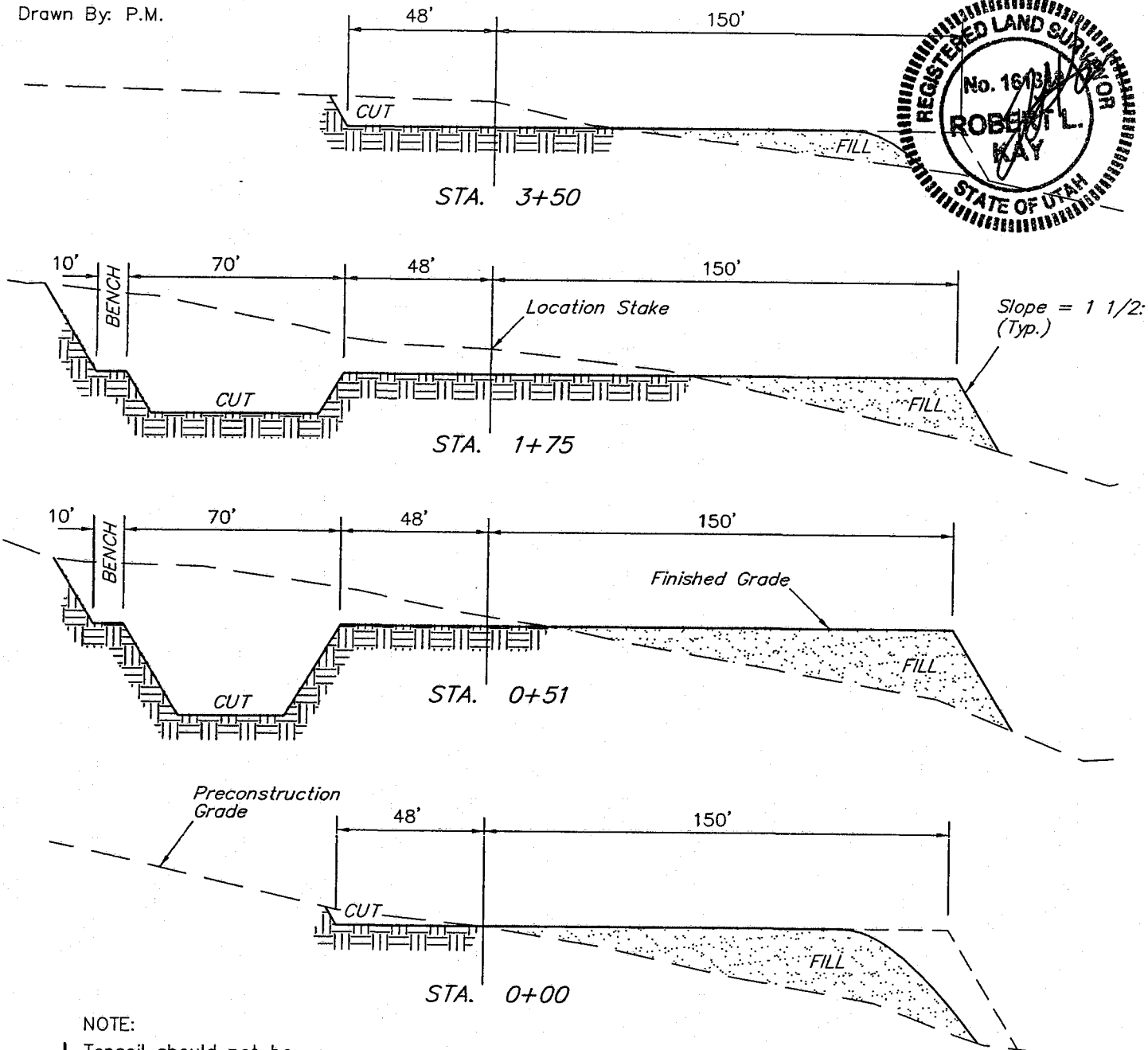
TYPICAL CROSS SECTIONS FOR

WV #9AML-15-8-21
SECTION 15, T8S, R21E, S.L.B.&M.
2609' FSL 289' FEL

FIGURE #2

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

DATE: 10-21-06
Drawn By: P.M.



REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH

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

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT
(12") Topsoil Stripping = 3,670 Cu. Yds.
Remaining Location = 9,340 Cu. Yds.

TOTAL CUT = 13,010 CU.YDS.
FILL = 7,900 CU.YDS.

EXCESS MATERIAL = 5,110 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.) = 5,110 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation) = 0 Cu. Yds.

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

QUESTAR EXPLR. & PROD.

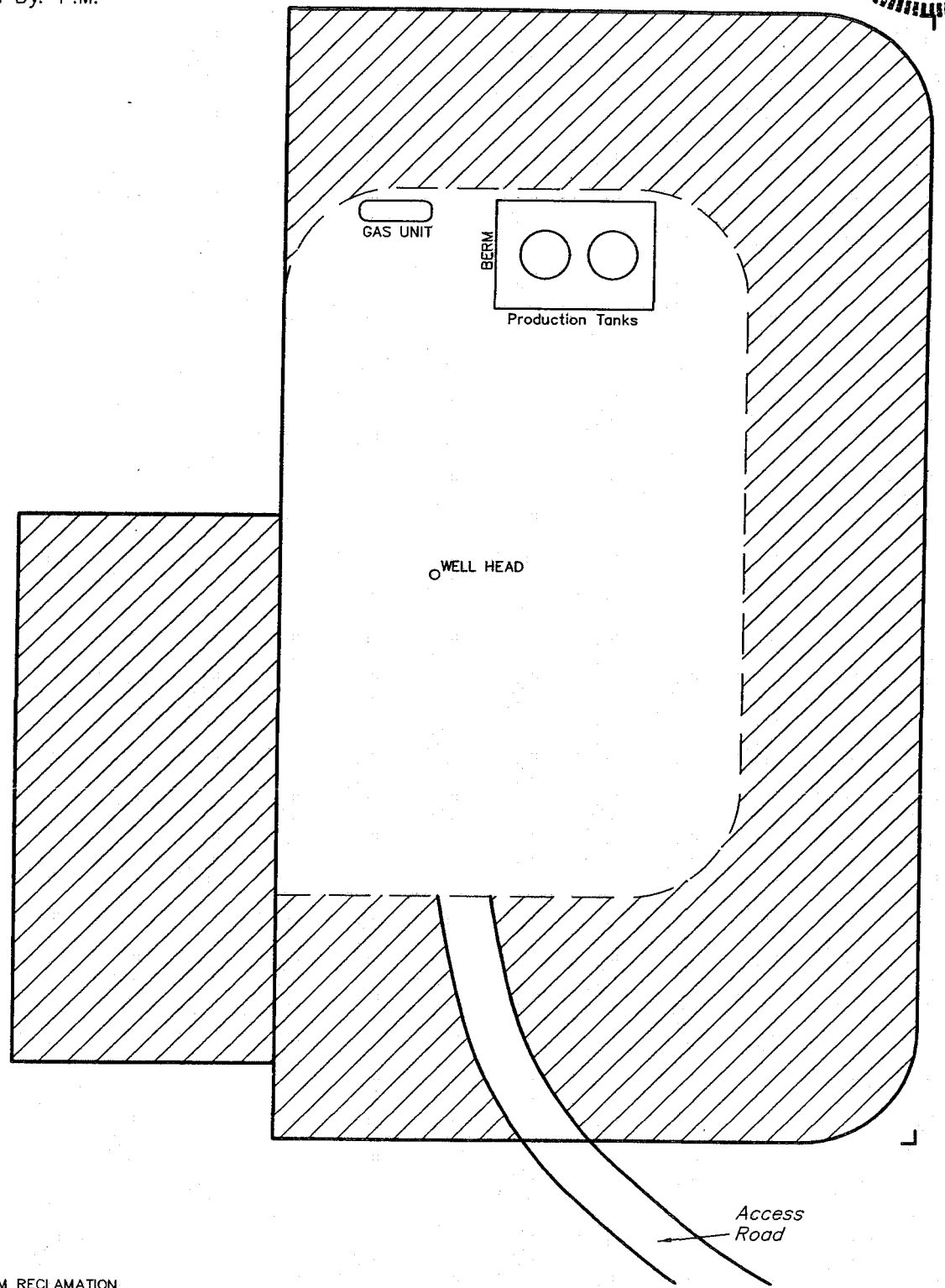
INTERIM RECLAMATION PLAN FOR

WV #9AML-15-8-21
SECTION 15, T8S, R21E, S.L.B.&M.
2609' FSL 289' FEL

FIGURE #3

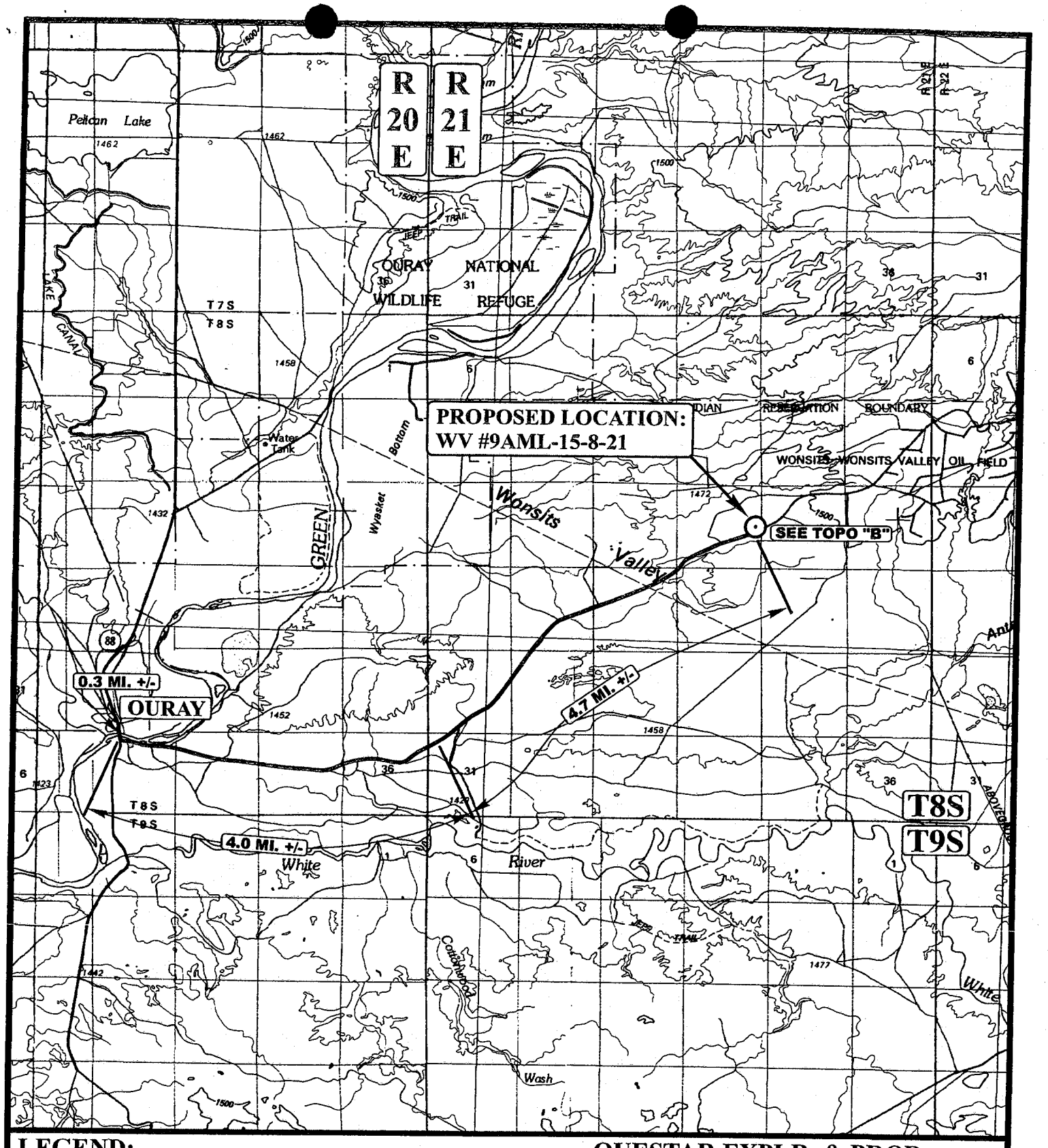
REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH

SCALE: 1" = 50'
DATE: 10-21-06
Drawn By: P.M.



INTERIM RECLAMATION

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



LEGEND:

⊙ PROPOSED LOCATION

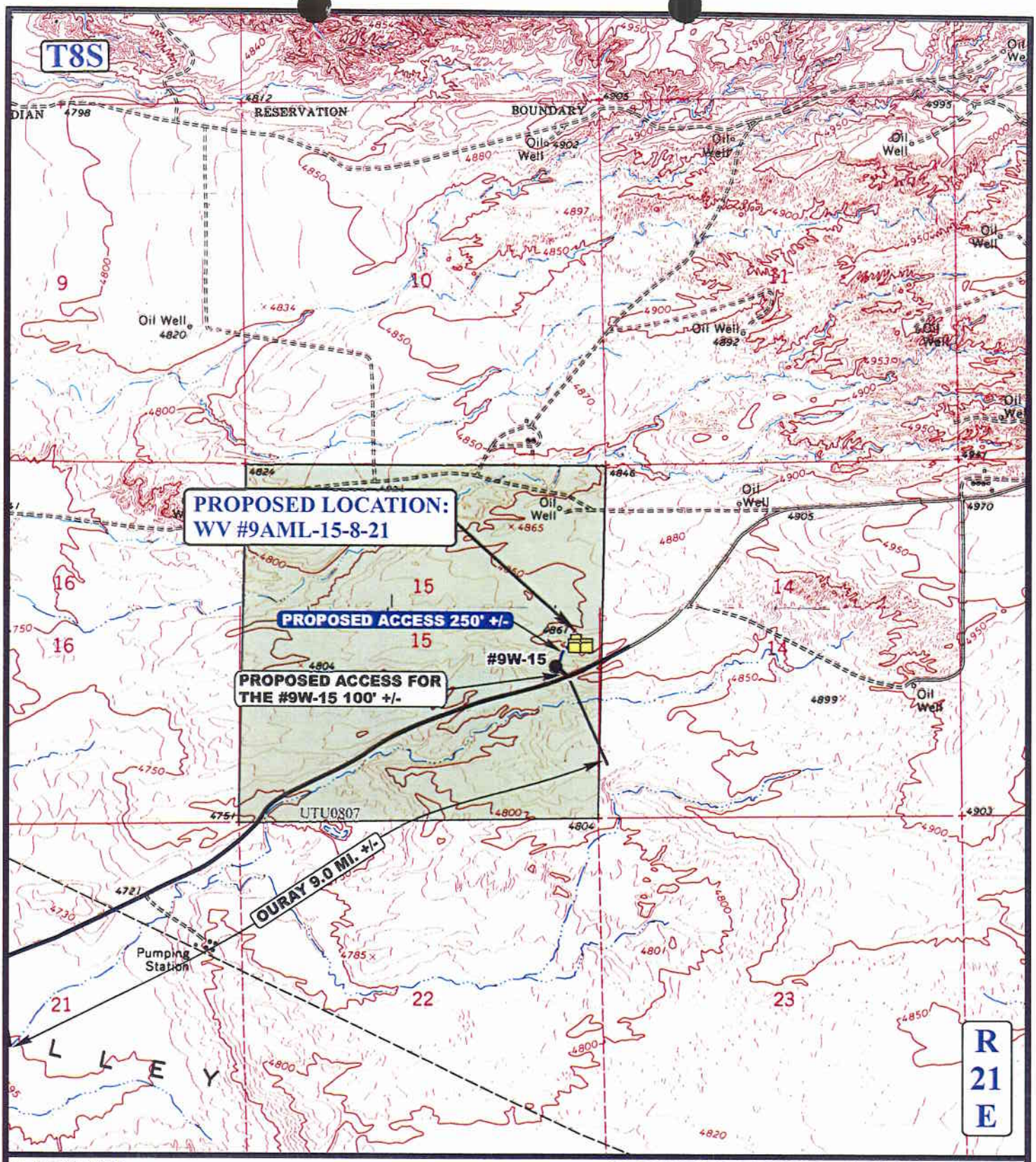
N

QUESTAR EXPLR. & PROD.

WV #9AML-15-8-21
SECTION 15, T8S, R21E, S.L.B.&M.
2609' FSL 289' FEL

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

TOPOGRAPHIC MAP	10 MONTH	13 DAY	06 YEAR
SCALE: 1:100,000	DRAWN BY: L.K.	REVISED: 00-00-00	A TOPO



LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

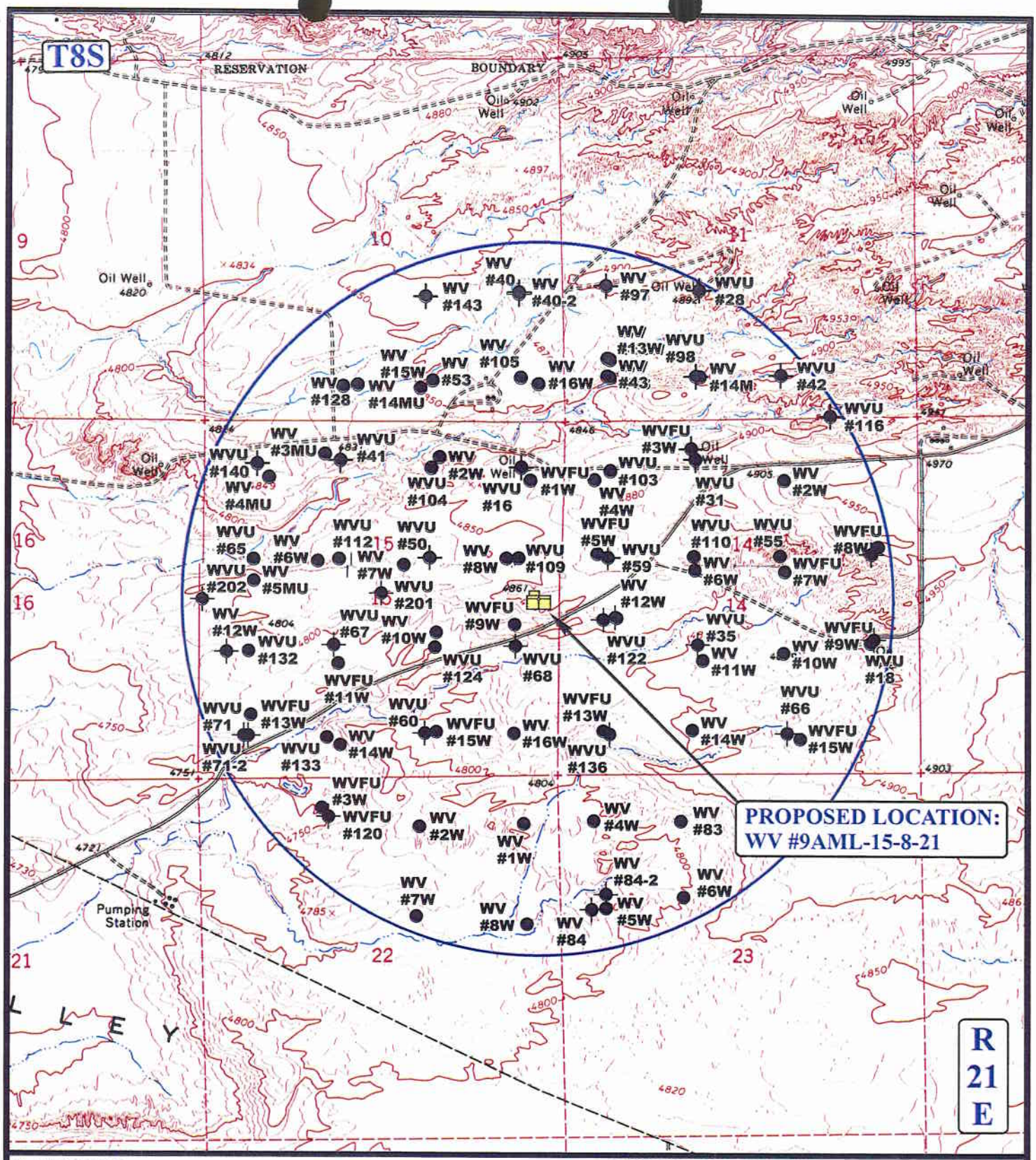
N

QUESTAR EXPLR. & PROD.

WV #9AML-15-8-21
SECTION 15, T8S, R21E, S.L.B.&M.
2609' FSL 289' FEL

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

TOPOGRAPHIC MAP	10 MONTH	13 DAY	06 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: L.K.	REVISED: 00-00-00		



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

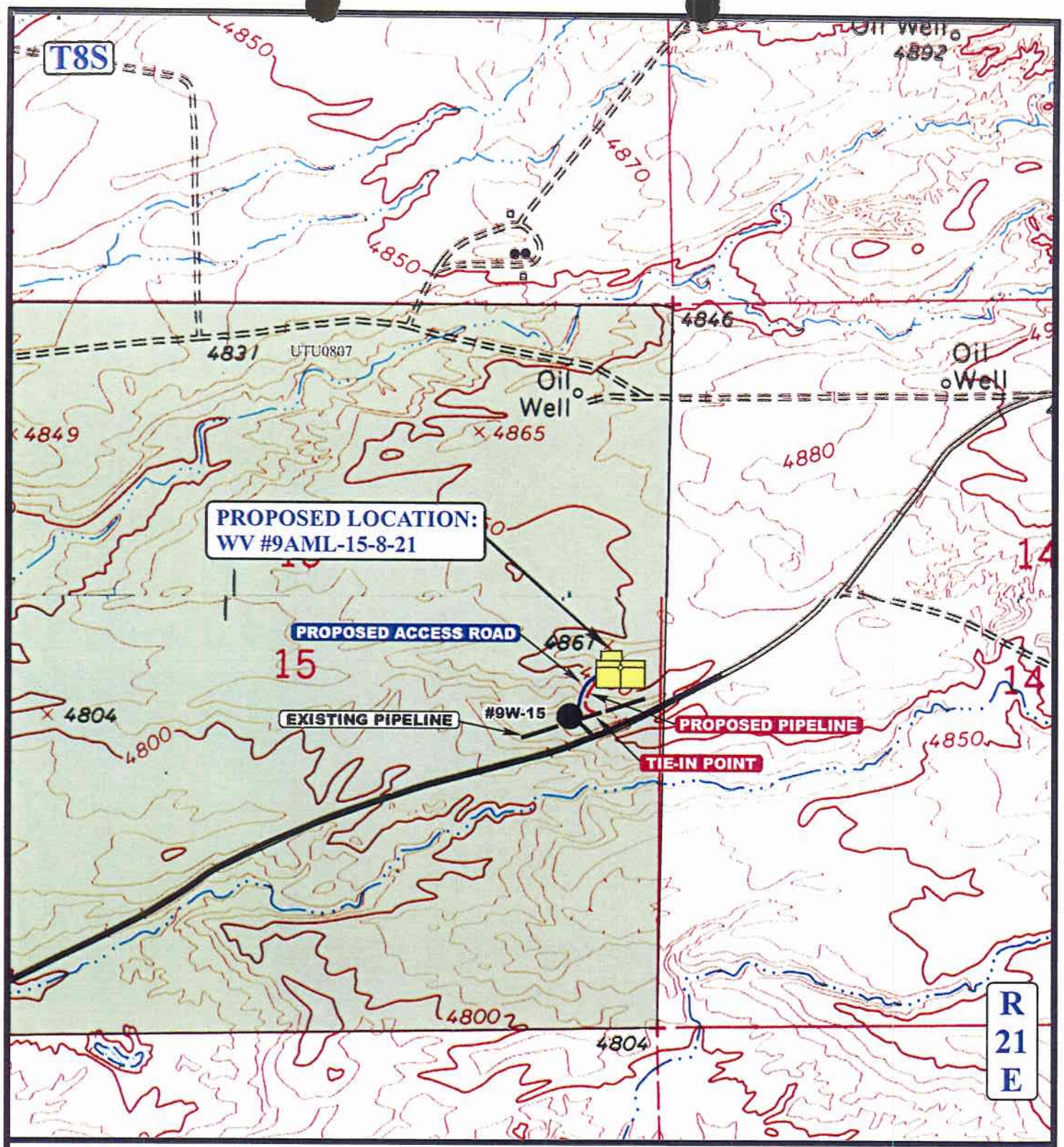
N

QUESTAR EXPLR. & PROD.

WV #9AML-15-8-21
SECTION 15, T8S, R21E, S.L.B.&M.
2609' FSL 289' FEL

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

TOPOGRAPHIC MAP	10 MONTH	13 DAY	06 YEAR	C TOPO
SCALE: 1" = 2000'	DRAWN BY: L.K.	REVISED: 00-00-00		



APPROXIMATE TOTAL PIPELINE DISTANCE = 300' +/-

LEGEND:

PROPOSED ACCESS ROAD
EXISTING PIPELINE
PROPOSED PIPELINE
PROPOSED PIPELINE (SERVICING OTHER WELLS)

N

QUESTAR EXPLR. & PROD.

WV #9AML-15-8-21
SECTION 15, T8S, R21E, S.L.B.&M.
2609' FSL 289' FEL

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

TOPOGRAPHIC MAP	10 MONTH	13 DAY	06 YEAR	D TOPO
SCALE: 1" = 1000'	DRAWN BY: L.K.	REVISED: 00-00-00		

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 02/05/2007

API NO. ASSIGNED: 43-047-39040

WELL NAME: WV 9AML-15-8-21

OPERATOR: QUESTAR EXPLORATION & (N5085)

PHONE NUMBER: 435-781-4032

CONTACT: JAN NELSON

PROPOSED LOCATION:

NESE 15 080S 210E

SURFACE: 2609 FSL 0289 FEL

BOTTOM: 2609 FSL 0289 FEL

COUNTY: UINTAH

LATITUDE: 40.12346 LONGITUDE: -109.5315

UTM SURF EASTINGS: 625135 NORTHINGS: 4442283

FIELD NAME: WONSITS VALLEY (710)

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-0807

PROPOSED FORMATION: MVRD

SURFACE OWNER: 2 - Indian

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

✓ Plat

✓ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. ESB000024)

N Potash (Y/N)

N Oil Shale 190-5 (B) or 190-3 or 190-13

✓ Water Permit
(No. 43-8496)

N RDCC Review (Y/N)
(Date:)

N/A Fee Surf Agreement (Y/N)

N/A Intent to Commingle (Y/N)

LOCATION AND SITING:

___ R649-2-3.

Unit: WONSITS VALLEY

___ R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

___ R649-3-3. Exception

✓ Drilling Unit

Board Cause No: 187-06

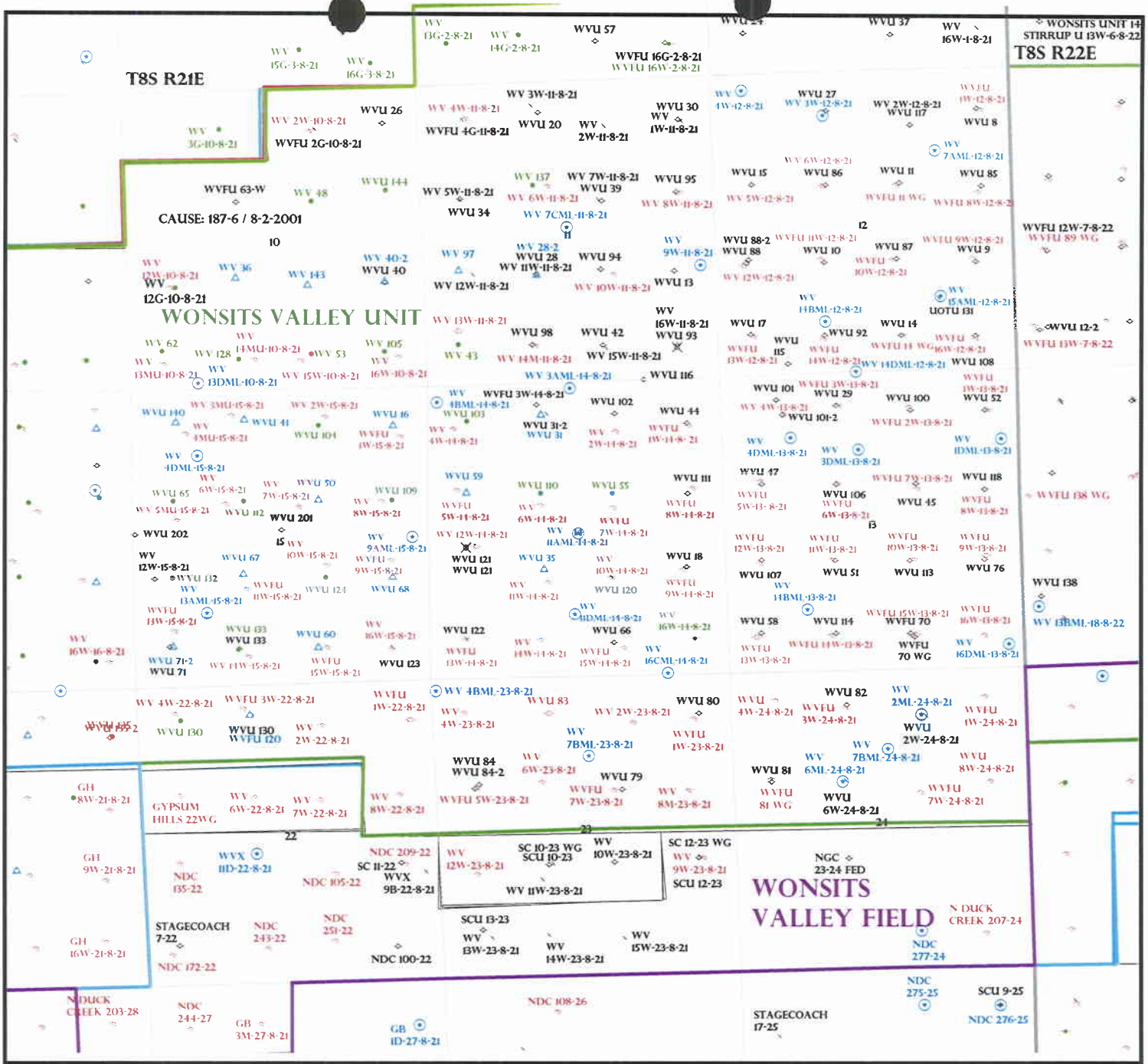
Eff Date: 8-9-1984

Siting: Suspend General Siting

___ R649-3-11. Directional Drill

COMMENTS: Sep, Separate File

STIPULATIONS: 1- Fed Approval



OPERATOR: QUESTAR EXPL & PROD (N5085)

SEC: 11,12,13,14,15,23 T.8S R. 21E

FIELD: WONSITS VALLEY (710)

COUNTY: UINTAH

CAUSE: 187-6 / 8-2-2001

Field Status
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Wells Status
- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING

Utah Oil Gas and Mining

N
W E
S

PREPARED BY: DIANA MASON
DATE: 8-FEBRUARY-2007

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)

February 8, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2007 Plan of Development Wonsits Valley Unit Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2007 within the Wonsits Valley Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ MesaVerde)		
43-047-39042	WV 07CML-11-8-21	Sec. 11 T. 8S R. 21E 2608 FNL 2629 FEL
43-047-39035	WV 07AML-12-8-21	Sec. 12 T. 8S R. 21E 1446 FNL 1368 FEL
43-047-39036	WV 14BML-12-8-21	Sec. 12 T. 8S R. 21E 0946 FSL 1962 FWL
43-047-39037	WV 14BML-13-8-21	Sec. 13 T. 8S R. 21E 1125 FSL 1464 FWL
43-047-39038	WV 04BML-14-8-21	Sec. 14 T. 8S R. 21E 0300 FNL 0179 FWL
43-047-39039	WV 13AML-15-8-21	Sec. 15 T. 8S R. 21E 1340 FSL 1334 FWL
43-047-39040	WV 09AML-15-8-21	Sec. 15 T. 8S R. 21E 2609 FSL 0289 FEL
43-047-39041	WV 04BML-23-8-21	Sec. 23 T. 8S R. 21E 0189 FNL 0101 FWL
43-047-39044	WV 07BML-23-8-21	Sec. 23 T. 8S R. 21E 1418 FNL 2559 FEL

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

/s/ Michael L. Coulthard

State of Utah

Department of Natural Resources

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas & Mining

JOHN R. BAZA
Division Director

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

February 8, 2007

Questar Exploration & Production, Co.
1571 E 1700 S
Vernal, UT 84078

Re: Wonsits Valley 9AML-15-8-21 Well, 2609' FSL, 289' FEL, NE SE, Sec. 15, T. 8 South, R. 21 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 43-047-39040.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor (via e-mail)
Bureau of Land Management, Vernal District Office

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

Operator: Questar Exploration & Production, Co.

Well Name & Number Wonsits Valley 9AML-15-8-21

API Number: 43-047-39040

Lease: UTU-0807

Location: NE SE **Sec.** 15 **T.** 8 South **R.** 21 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 with 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 Dustin Doucet at (801) 538-5281 office
     (801) 733-0983 home

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.

Form 3160-3
(July 1992)

FORM APPROVED
OMB NO. 1040-0136
Expires: February 28, 1995

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

RECEIVED
JAN 3 1 2007
BLM VERNAL, UTAH

TYPE OF WORK: DRILL ☑ DEEPEN ☐	5. LEASE DESIGNATION AND SERIAL NO.: UTU-0807
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE TRIBE
	7. UNIT AGREEMENT NAME: WONSITS VALLEY UNIT
TYPE OF WELL: ☐ OIL WELL ☑ GAS WELL ☐ OTHER ☑ SINGLE ZONE ☐ MULTIPLE ZONE	8. FARM OR LEASE NAME, WELL NO.: WV 9AML-15-8-21
2. NAME OF OPERATOR: QUESTAR EXPLORATION & PRODUCTION, CO. — Contact: Jan Nelson, E-Mail: jan.nelson@questar.com	9.API NUMBER: 43-047-39040
3. ADDRESS: 1571 E 1700 S VERNAL, UT 84078 — Telphone number: Phone 435-781-4032 Fax 435-781-4045	10. FIELD AND POOL, OR WILDCAT: WONSITS VALLEY
4. LOCATION OF WELL (Report location clearly and in accordance with and State requirements*) At Surface: 2609' FSL 289' FEL NESE SECTION 15 T8S R21E; At proposed production zone	11. SEC.,T, R, M, OR BLK & SURVEY OR AREA: SEC. 15, T8S, R21E Mer SLB
14. DISTANCE IN MILES FROM NEAREST TOWN OR POSTOFFICE*: 10 + / - EAST OF OURAY, UTAH	12. COUNTY OR PARISH: Uintah; 13. STATE: UT
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (also to nearest drig,unit line if any): 289' +/-	16.NO.OF ACRES IN LEASE: 1280.00 — 17. NO. OF ACRES ASSIGNED TO THIS WELL: 20
18.DISTANCE FROM PROPOSED location to nearest well, drilling, completed, applied for, on this lease, ft: 920' +/-	19. PROPOSED DEPTH: 11,650' — 20. BLM/BIA Bond No. on file: ESB000024
21. ELEVATIONS (Show whether DF, RT, GR, ect.): 4848.2' GR	22. DATE WORK WILL START: ASAP — 23. Estimated duration: 14 Days

24. Attachments

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

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

SIGNED Jan Nelson — Name (printed/typed) Jan Nelson — DATE 2-1-07

TITLE Regulatory Affairs

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

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

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY _____ TITLE Assistant Field Manager Lands & Mineral Resources DATE 10-9-2007

*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 mater within its jurisdiction

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

RECEIVED
OCT 1 1 2007
DIV. OF OIL, GAS & MINING

CONFIDENTIAL

UO, UOS
C7DP2205A

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE
170 South 500 East VERNAL, UT 84078 (435) 781-4400

CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Questar Exploration & Production Co. **Location:** NESE, Sec 15, T8S, R21E
Well No: WV 9AML-15-8-21 **Lease No:** UTU-0807
API No: 43-047-39040 **Agreement:** Wonsits Valley Unit

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
NRS/Enviro Scientist:	Paul Buhler	(435) 781-4475	(435) 828-4029
NRS/Enviro Scientist:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	
NRS/Enviro Scientist:		(435) 781-4476	
NRS/Enviro Scientist:	Chuck MacDonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Jannice Cutler	(435) 781-3400	(435) 828-3544
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545
		Fax: (435) 781-3420	

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify NRS/Enviro Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify NRS/Enviro Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supervisory Petroleum Technician)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings
BOP & Related Equipment Tests (Notify Supervisory Petroleum Technician)	-	Twenty-Four (24) hours prior to initiating pressure tests
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days

SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)

Surface COAs:

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.

- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

Additional Stipulations:

- A 30 foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.

- A qualified Archaeologist accompanied by a Tribal Technician will monitor trenching construction of pipeline.

- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipeline.

- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.

- The Company shall inform contractors to maintain construction of pipelines within the approved ROWs.

- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.

- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.

- Any deviation of submitted APDs and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.

- The Company will implement "Safety and Emergency Plan." The Company's safety director will ensure its compliance.

- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APDs and/or ROW permits/authorizations on their person(s) during all phases of construction.

- All vehicular traffic, personnel movement, construction/restoration operations shall be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.

- All personnel shall refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.

- The personnel from the Ute Tribe Energy & Minerals Department shall be notified shall cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.

- All mitigative stipulations contained in the Bureau of Indian Affairs Site Specific Environmental Assessment (EA) will be strictly adhered.

- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

- Paint tanks Desert Tan

- Use rock and gravel as necessary

- For any other additional stipulations, see concurrence letter.

DOWNHOLE CONDITIONS OF APPROVAL

SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL

- A surface casing shoe integrity test shall be performed.
- Production casing cement shall be at a minimum 200' above the surface shoe.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.

- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:

    - Operator name, address, and telephone number.
    - Well name and number.
    - Well location (¼¼, Sec., Twn, Rng, and P.M.).
    - Date well was placed in a producing status (date of first production for which royalty will be paid).
    - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
    - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
    - Unit agreement and/or participating area name and number, if applicable.
    - Communitization agreement number, if applicable.

- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.

- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or

data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.

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

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.

- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

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

5. LEASE DESIGNATION AND SERIAL NUMBER:	UTU-0807
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	UTE INDIAN TRIBE
7. UNIT or CA AGREEMENT NAME:	WONSITS VALLEY UNIT
1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER	8. WELL NAME and NUMBER: WV 9AML-15-8-21
2. NAME OF OPERATOR: QUESTAR EXPLORATION & PRODUCTION CO.	9. API NUMBER: 4304739040
3. ADDRESS OF OPERATOR: 11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078 / PHONE NUMBER: (435) 781-4331	10. FIELD AND POOL, OR WILDCAT: WONSITS VALLEY
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 2609' FSL 289' FEL	COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 15 8S 21E	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: APD EXTENSION
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

Please be advised that the state APD for the above captioned well will expired on February 8, 2008. Questar Exploration and Production Company respectfully requests a one year extension.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 02-07-08

By:

COPY SENT TO OPERATOR
Date: 2-7-2008
Initials: KS

NAME (PLEASE PRINT) Laura Bills TITLE Regulatory Affairs

SIGNATURE Laura Bills DATE 2/4/2008

(This space for State use only)

RECEIVED
FEB 05 2008
DIV. OF OIL, GAS & MINING

CONFIDENTIAL

(5/2000) (See Instructions on Reverse Side)

[redacted]

Application for Permit to Drill
Request for Permit Extension
Validation
(this form should accompany the Sundry Notice requesting permit extension)

API: 43-047-39040
Well Name: WV 9AML-15-8-21
Location: 2609' FSL 289' FEL, NESE, SEC. 15, T8S, R21E
Company Permit Issued to: Questar Exploration & Production Co.
Date Original Permit Issued: 2/8/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes☐ No☑

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes☐ No☑

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes☐ No☑

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes☐ No☑

Has the approved source of water for drilling changed? Yes☐ No☑

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes☐ No☑

Is bonding still in place, which covers this proposed well? Yes☑ No☐

Signature

2/4/2008
Date

Title: REGULATORY AFFAIRS

Representing: Questar Exploration & Production Co.

RECEIVED
FEB 0 5 2008
DIV. OF OIL, GAS & MINING

Form 3160-5
(November 1994)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

5. Lease Serial No.
UTU-0807

6. If Indian, Allottee or Tribe Name
UTE INDIAN TRIBE

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

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
WV 9AML-15-8-21

2. Name of Operator
QUESTAR EXPLORATION & PRODUCTION, CO. Contact: Jan Nelson

9. API Well No.
43-047-39040

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

3b. Phone No. *(include area code)*
435-781-4331

10. Field and Pool, or Exploratory Area
WONSITS VALLEY 710

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
2609' FSL 289' FEL NESE SECTION 15, T8S, R21E

11. County or Parish, State
UINTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☒ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other NAME CHANGE
☐ Final Abandonment Notice	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operations (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.)

QUESTAR EXPLORATION AND PRODUCTION COMPANY (QEP) REQUEST PERMISSION TO CHANGE THE DRILLING PLANS, INCREASE TOTAL DEPTH FROM 11,650' TO 16,971' FOR THIS WELL AND TO USE OIL BASE MUD FOR THE DRILLING OF THE FINAL SECTION OF THIS WELL TO IMPROVE DRILLING EFFICIENCY, WELLBORE STABILITY AND TO PROMOTE A GOOD CEMENT JOB OF THE PRODUCTION CASING. ATTACHED IS A DRILLING PLAN, WELLBORE DIAGRAM, DRILLING FLUID PROPOSAL AND A PROPOSAL FOR PROCESSING AND DISPOSAL OF THE OIL BASE MUD.

DUE TO THE PAD EXPANSION QEP MOVED LOCATION IN ORDER TO ACCOMMODATE THE LARGER DRILLING RIG. THE NEW FOOTAGES ARE AS FOLLOWS: 2643' FNL 298' FEL SENE, SECTION 15, T8S, R21E 625132X 40.123572 4442294Y -109.531478

QEP IS REQUESTING TO CHANGE THE WELL NAME FROM WV 9AML-15-8-21 TO WV 8D-15-8-21.

QUESTAR EXPLORATION & PRODUCTION COMPANY HAS PROVIDED THE PROPER PAPER WORK TO THE BUREAU OF INDIAN AFFAIRS AND UTE TRIBE.

FOR TECHNICAL QUESTIONS, PLEASE CONTACT JIM DAVIDSON, CHIEF DRILLING ENGINEER FOR QEP, AT (303) 308-3090.

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

COPY SENT TO OPERATOR
Date: 6.4.2008
Initials: KS

Name *(Printed/Typed)*	Title
Jan Nelson	Regulatory Affairs
Signature	Date
Jan Nelson	May 29, 2008

THIS SPACE FOR FEDERAL OR STATE USE

Approved by	Title	Date
	BRADLEY G. HILL ENVIRONMENTAL MANAGER	06-02-08

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
RECEIVED
JUN 02 2008
DIV. OF OIL, GAS & MINING

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

CONFIDENTIAL

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:

Formation	Depth
Uinta	Surface
Green River	2,721'
Wasatch	6,071'
Mesaverde	9,196'
Sego	11,571'
Castlegate	11,716'
Blackhawk	12,033'
Mancos Shale	12,485'
Mancos B	12,920'
Frontier	15,501'
Dakota Silt	16,349'
Dakota	16,771'
TD	16,971'

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:

Substance	Formation	Depth
Gas	Wasatch	6,071'
Gas	Mesaverde	9,196'
Gas	Blackhawk	12,033'
Gas	Mancos Shale	12,485'
Gas	Mancos B	12,920'
Gas	Dakota	16,771'

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.

DRILLING PROGRAM

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 flows are detected, samples will be submitted to the BLM along with any water analyses conducted. Fresh water will be obtained from Wonsits Valley water right # A36125 (which was filed on May 7, 1964,) or Red Wash water right # 49-2153 (which was filed on March 25, 1960). It was determined by the Fish and Wildlife Service that any water right number filed before1989 is not depleting to the Upper Colorado River System, to supply fresh water for drilling purposes. All water resulting from drilling operations will be disposed of at Red Wash Central Battery Disposal Site; SWSE, Section 27, T7S, R23E or Wonsits Valley Disposal Site; SWNW, Section 12, T8S, R21E.

3. Operator's Specification for Pressure Control Equipment:

A. 13-5/8" 5000 psi double gate, 5,000 psi annular BOP (schematic included) from surface hole to 9-5/8" casing point. A 13-5/8" 10,000 psi double and single gate may be substituted based on contractor availability and substructure height of the drilling rig.

B. 11" or 13-5/8" 10,000 psi double gate, 10,000 psi single gate, 10,000 psi annular BOP (schematic included) from 9-5/8" casing point to total depth. The choice of BOP stacks is based on the drilling contractor's availability.

C. Functional test daily

D. All casing strings shall be pressure tested (0.2 psi/foot or 1500 psi, whichever is greater) prior to drilling the plug after cementing; test pressure shall not exceed the internal yield pressure of the casing.

E. Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 50 percent of internal yield pressure of casing whichever is less. BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc..., for a 10M system and individual components shall be operable as designed.

ONSHORE OIL & GAS ORDER NO. 1
QUESTAR EXPLORATION & PRODUCTION COMPANY
WV 8D-15-8-21

DRILLING PROGRAM

4. Casing Design:

Hole Size	Csg. Size	Top (MD)	Bottom (MD)	Mud Weight	Wt. lb/ft	Grade	Thread	Cond.
26"	20"	sfc	40-60'	N/A	Steel	Cond.	None	Used
17-1/2"	13-3/8"	sfc	500'	N/A	54.5	K-55	STC	New
12-1/4"	9-5/8"	sfc	5,350'	9.2	47	HCP-110	Flush Jnt **	New
8-1/2"	7"	Surface	9,000'		26	HCP-110	LTC	New
8-1/2"	7"	9000'	12,535'	13.5	29 SDrift *	HCP-110	LTC	New
6-1/8"	4-1/2"	sfc	13,000'		15.1	P-110	LTC	New
6-1/8"	4-1/2"	13,000'	15,000'		15.1	Q-125	LTC	New
6-1/8"	4-1/2"	15,000'	16,971'	15.1	16.6	Q-125	LTC	New

Casing Strengths:				Collapse	Burst	Tensile (minimum)
13-3/8"	54.5 lb.	K-55	STC	1,130 psi	2,730 psi	547,000 lb.
9-5/8"	47 lb.	HCP-110	LTC	7,100 psi	9,440 psi	1,213,000 lb.
7"	26 lb.	HCP-110	LTC	7,800 psi	9,950 psi	693,000 lb.
7"	29 lb.*	HCP-110	LTC	9,200 psi	11,220 psi	797,000 lb.
4-1/2"	15.1 lb.	P-110	LTC	14,350 psi	14,420 psi	406,000 lb.
4-1/2"	15.1 lb.	Q-125	LTC	15,840 psi	16,380 psi	438,000 lb.
4-1/2"	16.6 lb.	Q-125	LTC	19,010 psi	18,130 psi	493,000 lb.

*** Special Drift**
**** Flush Jnt – VAM SLIJ II or LT&C based on availability**
MINIMUM DESIGN FACTORS:

COLLAPSE: 1.125
BURST: 1.10
TENSION: 1.80

Area Fracture Gradient: 0.9 psi/foot
Maximum anticipated mud weight: 15.1 ppg
Maximum surface treating pressure: 12,500 psi

5. Cementing Program

20" Conductor:
Cement to surface with construction cement.

13-3/8" Surface Casing: sfc – 500' (MD)
Slurry: 0' – 500'. 610 sxs (731 cu ft) Premium cement + 0.25 lbs/sk Flocele + 2% $CaCl_2$. Slurry wt: 15.6 ppg, slurry yield: 1.20 ft^3/sx, slurry volume: 17-1/2" hole + 100% excess.

9-5/8" Intermediate Casing: sfc – 5,350' (MD)
Lead Slurry: 0' – 4,850'. 1395 sks (365 bbls) Foamed Lead 50/50 Poz cement + 0.1 % FDP-C766-05 (Low Fluid Loss Control) + 5 #/sx Silicate Compacted + 20 % SSA-1 + 0.1 % Versaset + 1.5 % Zonesealant 2000 (foamer) Slurry wt: 14.3 ppg, (unfoamed) or 11.0 ppg (foamed). Slurry yield: 1.47 ft^3/sk (unfoamed), Slurry volume: 12-1/4" hole + 35% excess.
Tail Slurry: 4,850' – 5,350'. 115 sks (30 bbls) Tail 50/50 Poz cement + 0.1 % FDP-C766-05 (Low Fluid Loss Control) + 5 #/sx Silicate Compacted + 20 % SSA-1 + 0.1 % Versaset. Slurry wt: 14.3 ppg, Slurry yield: 1.47 ft^3/sk, Slurry volume: 12-1/4" hole + 35% excess.

7" Intermediate Casing: sfc - 12,535' (MD)
Foamed Lead Slurry 2: 0' – 12,035'. 1402 sks 2060 cu ft) 0.1% HALAD-766 (Low Fluid Loss Control); Slurry Yield: 1.47 ft^3/sk; 5 lbm/sk Silicalite Compacted (Light Weight; Additive) Total Mixing Fluid: 6.40 Gal/sk; 20 % SSA-1 (Heavy Weight Additive); 0.1 % Versaset (Thixotropic Additive); 1.5 % FDP-C760-04 (Foamer) 35% excess.
Tail Slurry: 12,035' – 12,535'. 60 sks (79.3 cu ft) 0.1% HALAD-766 (Low Fluid Loss Control) Slurry Yield: 1.47 ft^3/sk; 5 lbm/sk Silicalite Compacted (Light Weight Additive) Total Mixing Fluid: 6.40 Gal/sk; 20 % SSA-1 (Heavy Weight Additive); 0.1% Versaset (Thixotropic Additive); 1.5% FDP-C760-04 (Foamer).

4-1/2" Production Casing: sfc - 16,971' (MD)
Lead/Tail Slurry: 5,500' - 16,971'. 979 sks (1458 cu ft) Premium Cement + 17.5% SSA-1, + 4% Microbond HT, + 0.2% Halad 344 + 0.5% Halad 413, + 0.3% CFR-3, + 0.9% HR-12, + 0.2% Super CBL, + 0.2% Suspend HT, 17.5% SSA-2. Slurry wt: 16.2 ppg, Slurry yield: 1.49 ft^3/sk, Slurry volume: 6-1/8" hole + 35% in open hole section.

*Final cement volumes to be calculated from caliper log with an attempt to be made to circulate cement to the surface on the intermediate strings and 5,500' on the production string. A bond log will be run across the zone of interest and across zones as required by the authorized officer to insure protection of natural resources.

DRILLING PROGRAM

6. Auxiliary Equipment

A. Kelly Cock – yes

B. Float at the bit – yes

C. Monitoring equipment on the mud system – visually and/or PVT/Flow Show

D. Full opening safety valve on the rig floor – yes

E. Rotating Head – yes
If drilling with air the following will be used:

F. Request for Variance

Drilling surface hole with air:

A variance from 43 CFR 3160 Onshore Oil and Gas Order #2, Section III Requirements, subsection E. Special Drilling Operations is requested for the specific operation of drilling and setting surface casing on the subject well with a truck mounted air rig. The variance from the following requirements of Order #2 is requested because surface casing depth for this well is 500 feet and high pressures are not expected.

1. **Properly lubricated and maintained rotating head** – A diverter system in place of a rotating head. The diverter system forces the air and cutting returns to the reserve pit and is used to drill the surface casing. No high pressure or hydrocarbon bearing zones are anticipated at surface casing depth.
2. **Blooie line discharge 100 feet from wellbore and securely anchored** – the blooie line discharge for this operation will be located 50 to 70 feet from the wellhead. This reduced length is necessary due to the smaller location size to minimize surface disturbance.
3. **Automatic ignitor or continuous pilot light on blooie line** – a diffuser will be used rather than an automatic pilot/ignitor. Water is injected into the compressed air and eliminates the need for a pilot light and the need for dust suppression equipment.
4. **Deduster-** Water/mist injected into compressed air eliminates the need for dust suppression equipment.
5. **Compressors located in the opposite direction from the blooie line a minimum of 100 feet from the wellbore** – Compressors are rig mounted and are located within 50 feet of the wellbore on the opposite side from the blooie line discharge in order to minimize well pad size. The main compressor is 1250 CFM

at 350 psi with 2000 psi booster. The secondary compressor is 1070 CFM at 350 psi with 2000 psi booster.

Compressors will be used for drilling surface casing only.

In addition, the following safety equipment will be in place 1) emergency kill switch on the driller's console, 2) pressure relief valves on the compressors, 3) spark arrestors on the motors.
Also, conductor pipe will be set in a competent formation and rat and mouse hole drilling will occur only after the surface casing has been set and cemented.

G. All other operations and equipment for air/gas drilling shall meet specifications in Onshore Order #2, Section III Requirements, subsection E. Special Drilling Operations and Onshore Order #1.

Surface hole will be drilled with air, air/mist, foam, or mud depending on hole conditions. Intermediate holes will be with water based drilling fluids consisting primarily of fresh water, bentonite, lignite, caustic, lime, soda ash and polymers. The production hole will be drilled with oil base mud (OBM). No chromates will be used. Maximum anticipated mud weight is 15.1 ppg.

No minimum quantity of weight material will be required to be kept on location.

PVT/Flow Show will be used from base of surface casing to TD.

Gas detector will be used from surface casing depth to TD.

7. Testing, logging and coring program

A. Cores – none anticipated

B. DST – none anticipated

C. Logging – Mud logging – 2500' to TD
GR-SP-Induction, Neutron Density, FMI

D. Formation and Completion Interval: Mancos interval, final determination of completion will be made by analysis of logs.
Stimulation – Stimulation will be designed for the particular area of interest as encountered.

DRILLING PROGRAM

8. Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards

No abnormal temperatures or pressures are anticipated. No H2S has been encountered in or known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom hole pressure equals approximately 12,500 psi. Maximum anticipated bottom hole temperature is 305° F.

9. Additional Information For Oil Base Mud

A. See attached diagram of well pad layout. A reserve pit will be constructed for this location. This pit will be constructed so that a minimum of two vertical feet of freeboard exists above the top of the pit at all times and at least one-half of the holding capacity will be below ground level. The pit will be lined with a synthetic reinforced liner, 30 millimeters thick, with sufficient bedding used to cover any rocks prior to putting any fluids into the pit. The pad will be designed so that runoff from adjacent slopes does not flow into the reserve pit. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. At the beginning of drilling operations this reserve pit will have an open-ended dike placed in the pit that allows the fluids to migrate from one side of the pit to the other during the drilling of the surface and intermediate hole using water based mud. At the time that operations begin to drill the production hole with oil base mud, this dike will be extended, dividing the pit into two distinct, isolated halves allowing no migration of fluids from one side to the other. At that time all fluids will be removed from the end of the pit to be used as a cuttings pit. This cuttings pit will be used for oil based cuttings generated during drilling of the production hole.

B. Oil-base mud will be mixed in the closed circulating system and transferred to four 500-bbl tanks on location for storage prior to and after drilling operations. Drip pans will be installed below the rotary beams on the substructure and can be viewed on site from the cellar area. As the production section of the hole is drilled, the cuttings transported to the surface with the drilling fluid will be mechanically separated from the drilling fluid as waste by two shale-shakers and then cleaned/dried via a mud cleaner and/or centrifuge. These separated cuttings will be collected in a steel catch tank once they leave the closed circulating system and transported and placed into the cuttings half of the reserve pit.

C. Plastic material will underlay the rig, oil base mud/diesel storage tanks and mud pits. All tanks on location will be placed inside of berms. Any oily waste fluids and sediments generated at the work site during drilling operations or when cleaning the

fluid containment system after drilling will also be placed into the cuttings half of the pit.

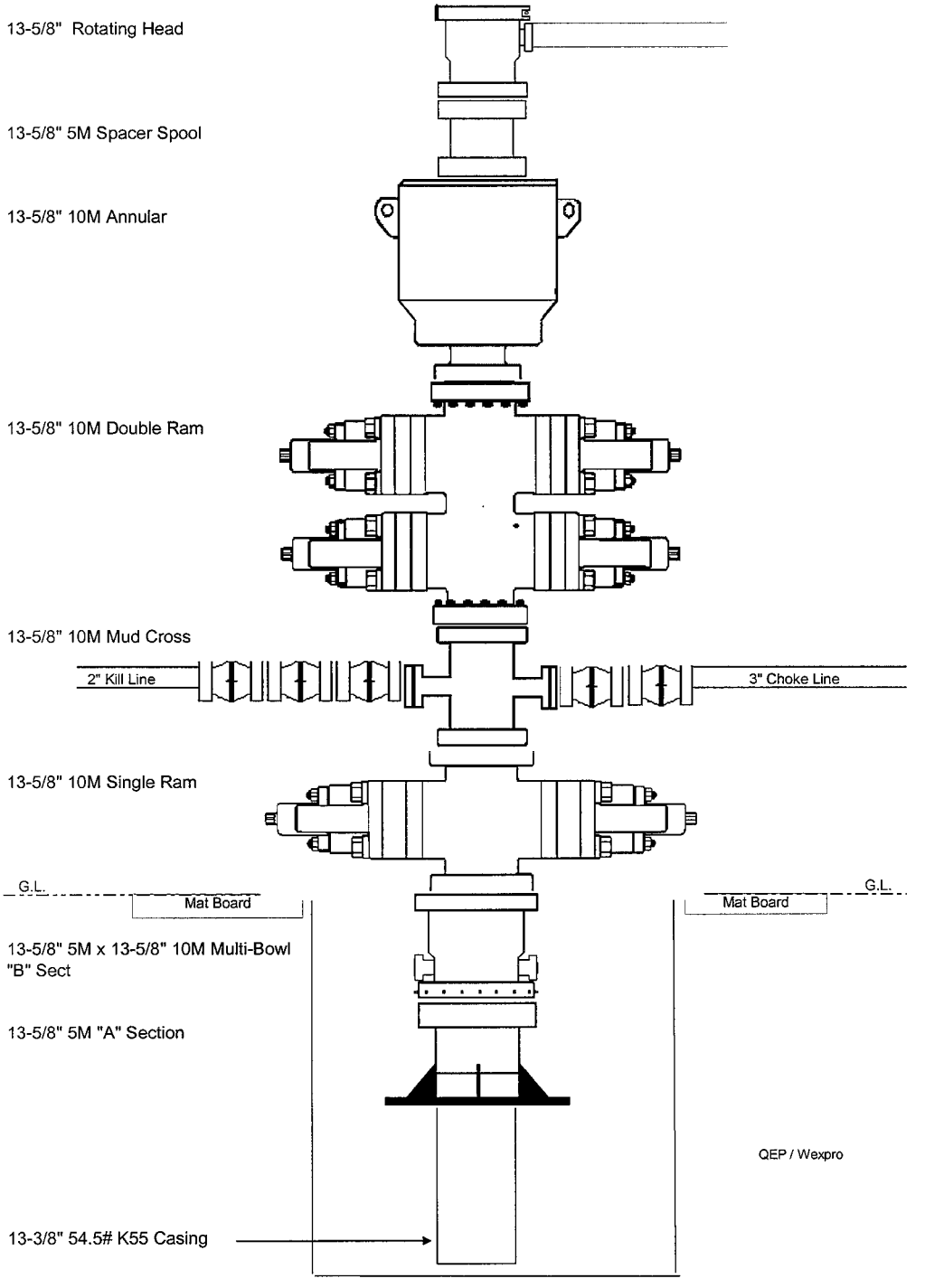
D. All rig ditches will be lined and directed to a lined sump for fluid recovery. A drip pan will be installed on the BOP stack, a mud bucket will be utilized as needed on connections and a vacuum system will be used on the rig floor for fluid recovery in those areas.

E. Once all waste has been placed in the cuttings portion of the pit and all necessary approvals obtained, the oilfield waste management consultant Soli-Bond or a similar company will mobilize equipment and personnel to the site to perform the cement based solidification/stabilization process in-situ for encapsulation. Soil will be backfilled over the processed material used on the cuttings side of the pit and that portion of the pit area will be returned to the existing grade bordering the pit. Please see the attached Soli-Bond Proposal for Processing and Disposal of Drilling Waste for specific details. The half of the reserve pit containing water base materials will be left to evaporate and will be closed and reclaimed at the time that portion of the pit is dry.

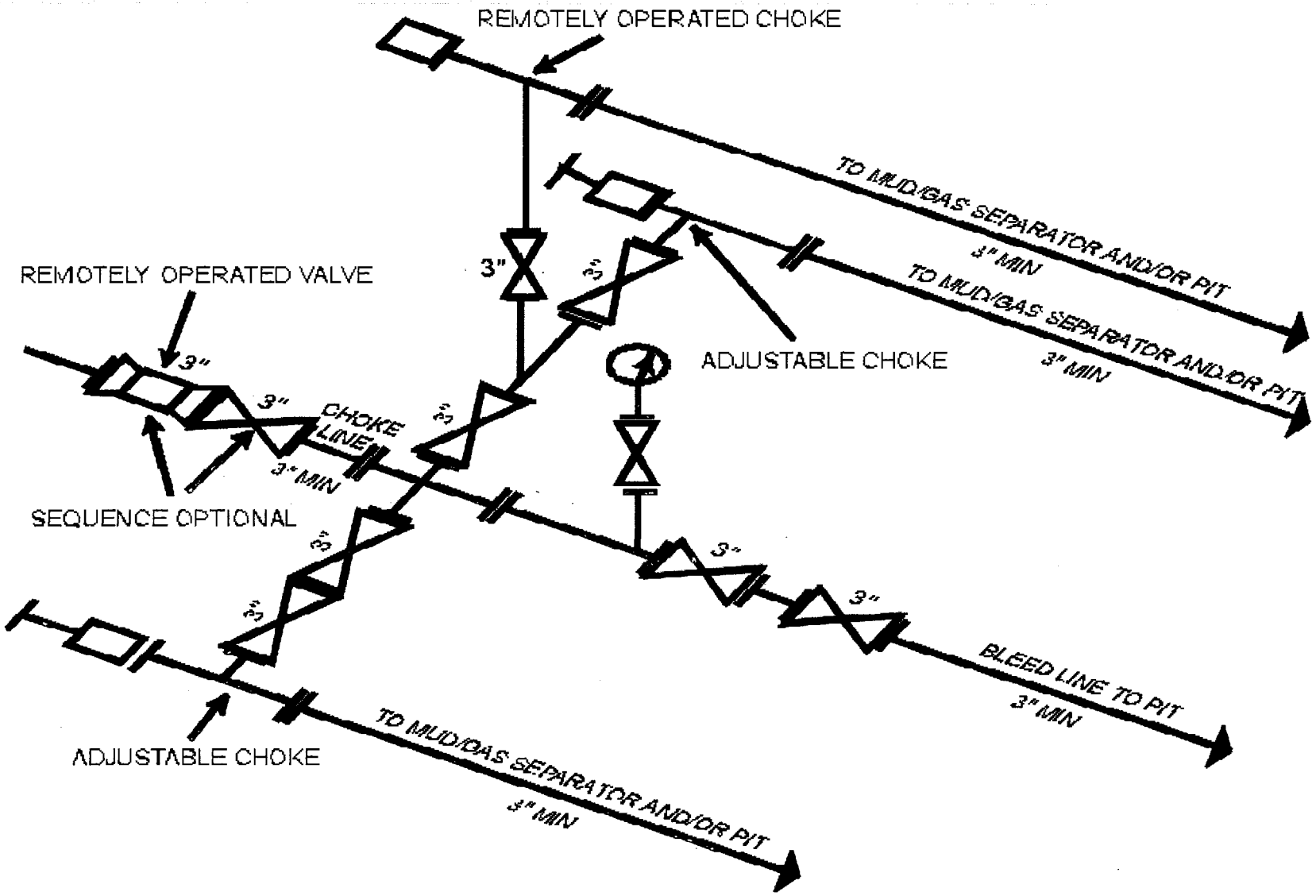
ONSHORE OIL & GAS ORDER NO. 1
QUESTAR EXPLORATION & PRODUCTION COMPANY
WV 8D-15-8-21

DRILLING PROGRAM

BOP Requirements:



Attachment I. Diagrams of Choke Manifold Equipment

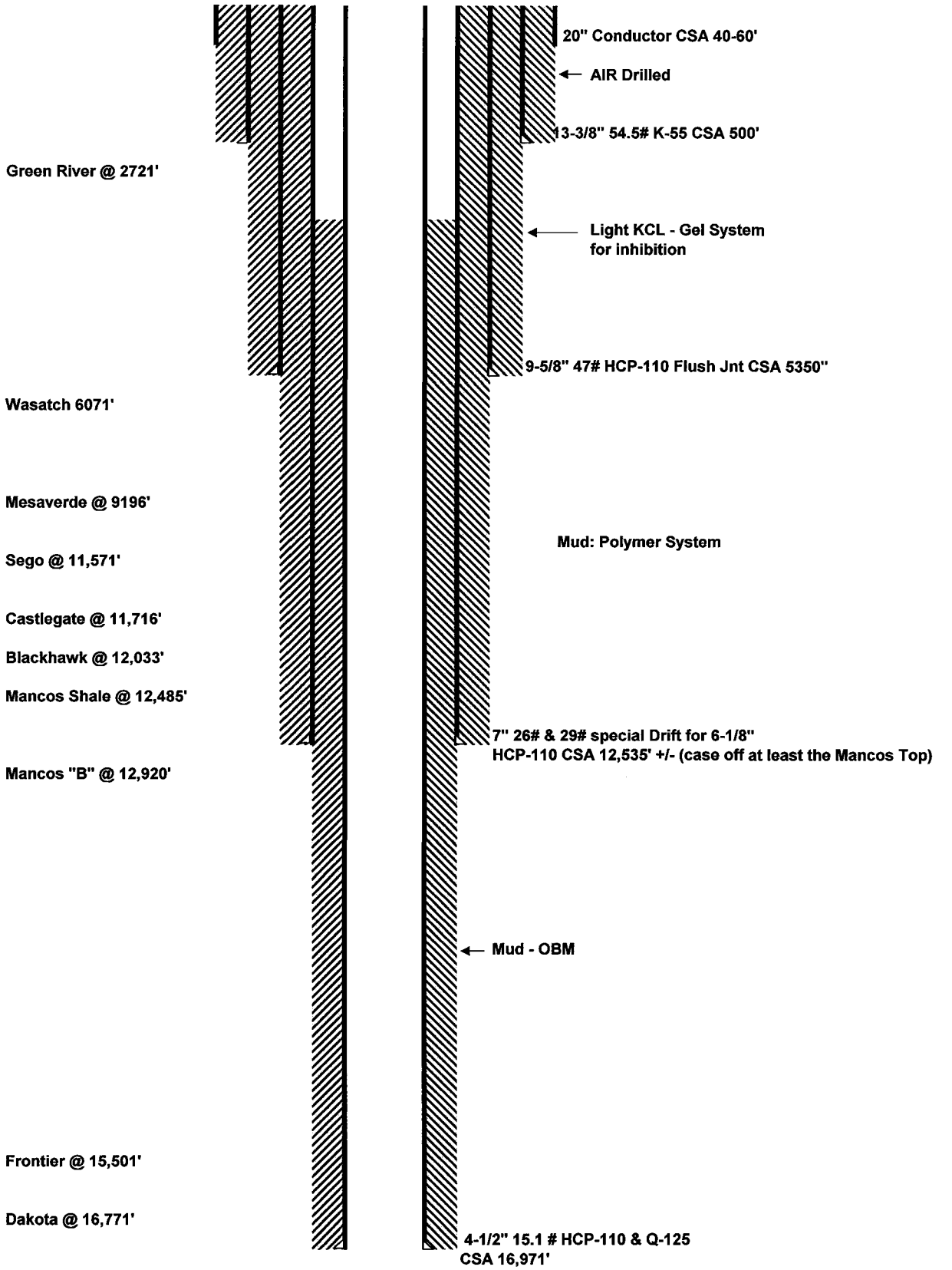


I-4 10M and 15M Choke Manifold Equipment -- Configuration of chokes may vary

[54 FR 39528, Sept. 27, 1989]

Last Updated March 25, 1997 by John Broderick

WV 8D-15-8-21


20" Conductor CSA 40-60'
AIR Drilled
13-3/8" 54.5# K-55 CSA 500'
Green River @ 2721'
Light KCL - Gel System
for inhibition
9-5/8" 47# HCP-110 Flush Jnt CSA 5350"
Wasatch 6071'
Mesaverde @ 9196'
Mud: Polymer System
Sego @ 11,571'
Castlegate @ 11,716'
Blackhawk @ 12,033'
Mancos Shale @ 12,485'
7" 26# & 29# special Drift for 6-1/8"
HCP-110 CSA 12,535' +/- (case off at least the Mancos Top)
Mancos "B" @ 12,920'
Mud - OBM
Frontier @ 15,501'
Dakota @ 16,771'
4-1/2" 15.1 # HCP-110 & Q-125
CSA 16,971'

NEWPARK DRILLING FLUIDS, LLC

Questar
Exploration & Production Company

WV 8D-15-8-21

Sec 15-T8S-R21E
Uintah County, Utah

Drilling Fluids Program

410 17th Street, Suite 460 Denver, CO 80202
(303) 623-2205 (720) 904-7970 Fax

Newpark Drilling Fluids, LP

410 17th Street, Suite 460 ■ Denver, Colorado 80202 ■ (303) 623-2205 ■ FAX (720) 904-7970

May 27, 2008

Mr. Jim Davidson
Questar Exploration & Production
1331 17th Street, Suite 800
Denver, Colorado 80202

RE: WV 8D-158-21
Sec 15-T8S-R21E
Uintah Co, Utah

Mr. Davidson:

Newpark Drilling Fluids, LP is pleased to present the enclosed revised recommended drilling fluids program for the WV 8D-15-8-21 well to be drilled in Uintah County, Utah. This program is for drilling with KCL Water/FlexFirm and/or light mud in the 1st intermediate to 5,350 ft, a polymer fluid system in the 2nd intermediate interval to 12,535 ft, then to T.D. at 16,971 ft with OBM.

The Surface Interval will be pre-set at a depth of 500 ft.

For the 1st intermediate Interval, a light KCL /Flex Firm drilling fluid is planned. Lightly mud up before drilling into the Trona/Water flood area and/or before Intermediate T.D.

Brine kill pills may be needed for trips, logs, and casing operations, depending on pressure encountered while drilling.
Trona water flows in this area may require a mud weight of 9.5-9.8 ppg to control.
Water flood area's in the Green River may need 10.2-10.5 ppg mud weight to control.
A mud-up will be is recommended before 1st Intermediate T.D. at 5,350'. Mud-up to a NewPHPA/Polymer system.
Required mud weight at interval T.D. at 5,350' is expected to be in the 8.8-9.0 ppg range.

In the 2nd intermediate interval, drill out with the KCL water from the previous interval..
Mud weight in this interval is expected to be in the 11.5-12.0 ppg range at the 12,535 ft liner interval T.D.
Extreme loses have been encountered in this interval on offset wells.

In the Production interval, displace to a 12.0-12.5 ppg OptiDrill OBM system. Maintain fluid density as low as possible to increase penetration rates and reduce the possibility of lost circulation. Use high weight pills for well control during; trips, logs, and casing operations. Mud weight at T.D. is expected to be at +/-15.5 ppg.

The projected drilling time for this project is 60-65 days with an estimated material and engineering cost of $500,000.00 assuming no unusual delays or problems are encountered. The estimate is based on minimal losses and a 15.0 ppg mud weight at TD. Costs will increase dramatically if severe losses are encountered.

All sack material and bulk barite will be furnished from our Grand Junction, Colorado and Myton, UT facilities with OBM supplied from Newpark's Boulder, WY facility.

If you have any questions following your review of this proposal, please call.

Regards,

Estes Ward
Operations Manager
Newpark Drilling Fluids, LP

?

Project Summary

Questar
Exploration & Production
WV 8D-15-8-21
Sec 15-T8S-R21E
Uintah, County Utah

Depth (ft)	Formations	Interval Comments	Mud Weight (ppg)	Mud Properties
500'	Uinta **Surface T.D.**	**Hole size: 17 1/2"/ Casing: 13 3/8"** **AIR DRILLED**	**NA**	NA
2,721' 5,350'	Green River Mahogeny Mahogeny Base **Intermediate T.D.**	**KCL/FlexFirm** **Hole size: 12-1/4"/ Casing: 9 5/8"** **Drill out with KCL water. Maintain K silicate with 1-3 sks per 100 ft.** **Pump pre-hydrated NewGel or Flowzan /New Gel sweeps for increased hole cleaning and for any tight hole and/or torque.** **For trips, spot heavy brine if needed for trona flow, and at intermediate T.D. check hole conditions and spot high viscosity mud if needed.** **If hole conditions dictate a mud-up, convert the system to a KCL/Polymer system.** **Mud weight required at T.D. is expected to be in the 8.8-9.0 ppg range**	**8.4-8.8** **8.8-9.0**	**Vis (sec/qt): 27-36** **PV (cp): 0-8** **YP (#s/100ft²): 0-10** **FL (ml/30 min): NC-20** **LGS %: < 1%-3%** **pH: 10.5-10.8** **Cl (mg/l): 15-20K** **KCL: 3%**
6,071' 9,196' 11,571' 11,716' 12,033' 12,485' 12,535'+/-	Wasatch Mesa Verde Sego Bucktongue Castlegate Blackhawk Mancos **Inter. 2 T.D.**	**NewPHPA/Polymer** **Hole size: 8.5 "/ Liner: 7 "** Mud up as hole conditions dictate to a NewPHPA/ Polymer system. Maintain properties as outlined increasing the PHPA concentration to 1 ppb. Lost circulation may be a problem in this interval. If lost circulation is encountered, pump LCM pills as needed. If LCM pills will not control losses, by-pass the shakers and increase the LCM concentration in the system as needed. If severe lost circulation is encountered, consider a DynaPlug squeeze. Hole instability may be encountered in the Mesa Verde. Monitor torque, pump pressure, connection fill, and trip conditions for indications of hole instability and consider adding Asphalt if hole conditions dictate.	**9.1-9.4** **9.2-9.5** **10.8-11.0** **11.0-11.2** **11.8** **12.0**	**Vis (sec/qt): 40-45** **PV (cp) : 12-20** **YP (#s/100ft²) : 10-12** **FL (ml/30 min): 6-8** **LGS %: 3-5** **pH: 10.0-10.5** **Cl (mg/l): 11-15K** **PHPA: 1.0 ppb**
12,920' 15,501' 16,115' 16,771' 16,971'	Mancos B Frontier equiv. Dakota Silt Dakota **Total Depth**	**OptiDrill OBM** **Hole size: 6-1/8"/ Casing: 4-1/2"** Drill out with the **OptiDrill** system, treating cement contamination as needed with **OptiWet** to prevent shaker blinding. Maintain hole cleaning during high ROP's with high viscosity sweeps. Use a 1:1 ratio of **OptiVis RM** and **OptiVis.** CO2 in the gas stream while drilling under balanced will require additional Lime, emulsifiers and wetting agent. **Maintain mud weight as needed for well control. Spot high weight ECD pills for trips, logs, and casing operations.**	**14.0** **14.6** **15.0** **15.5**	**PV (cp): 15-25** **YP (lbs/100ft²): 8-10** **HPHT (mls/30 min.) : <20** **O/W : 80:20 - 85:15** **ES: 500+** **Lime: 2-4 ppb** **LGS %: < 6**

Newpark Drilling Fluids, LP
410 17th Street, Suite 460
Denver, CO. 80202
(303) 623-2205 FAX (720) 904-7970

Project Summary

Questar
Exploration & Production
WV 8D-15-8-21
Sec 15-T8S-R21E
Uintah, County Utah

DRILLING FLUID PROPERTIES

Surface Hole: Air Drilled

Hole Size (in)	TVD (ft)	Mud Weight (ppg)	Plastic Viscosity (cp)	Yield Point (lb/100ft²)	API Fluid Loss (ml/30min)	Total Solids (%)
17-1/2 "	0-500'	NA	NA	NA	NA	NA

1st Intermediate Hole: KCL/FlexFirm

Hole Size (in)	MD (ft)	Mud Weight (ppg)	Plastic Viscosity (cp)	Yield Point (lb/100ft²)	API Fluid Loss (ml/30min)	Chloride Mg/l (x1000)	LGS Solids (%)
12-1/4"	500'- 4,100'	8.6-8.8	2-8	0-4	NC-20	15-20	1-3%
12-1/4"	4,100'-5,350'	9.3-9.8	8-12	8-10	10-12	15-20	3-5%

2nd Intermediate Interval: NewPHPA/Polymer

Hole Size (in)	MD (ft)	Mud Weight (ppg)	Plastic Viscosity (cp)	Yield Point (lb/100ft²)	API Fluid Loss (ml/30min)	pH	LGS Solids (%)
8-1/2"	5,350' -10,000'	9.3-9.8	6-12	6-10	8-10	10.0-11.0	3-6%
8-1/2 "	10,000'-12,535'	10.8-11.8	12-18	12-15	6-8	10.0-11.0	3-6%

Production Interval: OptiDrill OBM

Hole Size (in)	MD (ft)	Mud Weight (ppg)	Plastic Viscosity (cp)	Yield Point (lb/100ft²)	O/W Ratio (%)	HPHT Fluid Loss (ml/30min)	CaCL (mg/l) X 10,000	Electrical Stability (mv)	LGS Solids (%)
6-1/8 "	12,535'-16,971'	15.0-15.5	20-30	8-10	85/15	12-15	250-350	500 +	3-6

- Drilling fluid properties are guidelines only.
- Mud weights for guidelines only, allow hole conditions to dictate actual mud weights.
- Hole conditions should be closely monitored and product mix adjusted accordingly.

Newpark Drilling Fluids, LP
410 17th Street, Suite 460
Denver, CO. 80202
(303) 623-2205 FAX (720) 904-7970

1st Intermediate Interval
12-1/4" Hole (500'- 5,350')

Questar
Exploration & Production
WV 8D-15-8-21
Sec 15-T8S-R21E
Uintah, County Utah

1st Intermediate Interval Drilling Fluid Properties									
Depth Interval (TVD)	Mud Weight (ppg)	Viscosity (sec/qt)	Plastic Viscosity (cp)	Yield Point (lb/100ft²)	pH	API Fluid Loss (ml/30min)	KCL (%)	Low Gravity Solids	Chlorides Mg/l (x1000)
500'-5,350'+/-	9.0-9.5	28-36	2-10	0-8	10.0-11.0	NC-20	3.0	<1.0	15-20

- Drill out with KCL water maintaining KCL % at 3.0.
- Mix FlexFirm at 3 sks per 100 ft drilled for hole stability and reduced bit balling.
- If a water flow is encountered, treat as needed for carbonates.
- Pump pre-hydrated NewGel and/or Flowzan/SaltGel sweeps for increased hole cleaning, along with LCM sweeps for seepage (Paper LCM while drilling with water)
- If water flows are encountered, spot heavy brine pills for trips, logs and casing operations.
- If hole conditions dictate a mud-up, convert the KCL water to a KCL/Polymer system.
- **Offset information indicates the 1st major loss zone to be at +/- 3600 ft.**
- **Shallow gas/overpressure was encountered on some offsets in the area at 3,700-4,000'. A 9.5-9.9 ppg fluid was needed to control pressure.**

Challenges:	*Strategies:*
Gravel/Unconsolidated formation	If encountered, pump sweeps of pre-hydrated NewGel with a viscosity of 150 –300 sec/qt.
Water Flows (Trona)	If water flows become excessive, control hydrostatic as needed with air additions and fluid density.
Lost Circulation	While drilling with water, pump LCM sweeps consisting of paper. If drilling with mud, pump mixed LCM pills in the 20-30% LCM range.
Hole Cleaning	Pump sweeps on a regular basis and for any indications of insufficient hole cleaning. Circulate and pump sweeps before connections and for any anticipated down time.
Increase ROP with PDC Bits	Pump 20-40 bbl. Sweeps with NewEase 203, New100N, DynaDet, and SAPP. (FlexDrill Sweeps)
Hole Instability/Sloughing Shale	Consider a mud-up and Asphalt additions.

Newpark Drilling Fluids, LP
410 17th Street, Suite 460
Denver, CO. 80202
(303) 623-2205 FAX (720) 904-7970

1st Intermediate Interval
12-1/4" Hole (500'- 5,350')

Questar
Exploration & Production
WV 8D-15-8-21
Sec 15-T8S-R21E
Uintah, County Utah

Offset Data:

- Wells in this area have encountered major losses at +/- 3600 ft.
- Gravel/unconsolidated formation has been encountered at 1380 ft.
- Gas/overpressure has been encountered at 3,700'-4,000'.

Fluid Recommendations:

- Drill out cement, float collar and new formation. Test the integrity of the casing seat and squeeze if necessary.
- Drill out with Saltwater, aerating as needed to maintain circulation.
- If water is encountered, control flow with reduced air and fluid density.
- If a Trona Water flow is encountered additions of **Lime** and/or **Calcium Chloride** should be used to adjust alkalinities as needed.
- The use of a premix tank is highly recommended. Pre-Hydrate **NewGel** for use as sweeps and for viscosity when a mud up is needed. Fill premix tank with fresh water. Treat out hardness with **SodaAsh** as needed. Add 0.25-0.5 ppb **Caustic Soda** for a 10.0-10.5 pH. Begin additions of 20-25 ppb **NewGel** allow sufficient circulating time for maximum hydration. Add 1.0-2.0 ppb **CFL II**. Then mix additional **NewGel** (30-40 ppb total) or a 120+ funnel viscosity. The pre-hydrated bentonite can be pumped from the premix to the pill tank and pumped downhole for sweeps or can be added slowly to the **Saltwater** for viscosity and rheology control.
- If penetration rates slow sweeps with **New 100N, NewEase 203, SAPP**, and **DynaDet** should be considered. **(1% New 100N, 1% NewEase 203, 0.5-0.75 ppb SAPP, 0.2 % DynaDet). *"Flex Sweeps"***
- For trips, an increase in mud weight may be necessary to kill water flows. 9.8-10.0 ppg brine should be considered for this operation.
- Seepage and/or lost circulation may become a problem. For seepage while drilling with water, pump 20-30 bbl pills containing Paper LCM.
- If losses become severe, consider a mud up and LCM sweeps of **Cedar Fiber** and **FiberSeal** should be pumped and incorporated into the system as needed. If losses continue, increase coarse LCM in active system to 15-20%. If losses continue the use of a **New X-Prima** Squeeze is strongly recommended.
- At TD increase funnel viscosity for logs and casing operations as hole conditions dictate. Suggest funnel viscosity be increased to 45-50 sec/qt, before logging operations be attempted.

- At 4,400' (intermediate T.D.) short trip, check hole conditions. If hole conditions dictate, add pre-hydrated **NewGel** from the premix tank to the active system to increase funnel viscosity to 45-50 sec/qt and spot in the open hole for logs and casing operations

DRILL STRING PACK-OFF: Rapid penetration rate during fast drilling often deteriorates to pack-off, a situation which can lead to lost circulation and/or stuck pipe. Pack-off is typically self-induced by exceeding the maximum rate of penetration for a given annular flow rate. The solution to this is to control the penetration rate to a level that the pumps can adequately clean the hole while maintaining rheological properties in line with existing hydraulic parameters.

SOLIDS CONTROL: It is of the utmost importance that the shale shakers and flow line cleaners be equipped with the finest screens possible, and yet handle the flow rate. The desander and desilter units should be evaluated periodically and serviced to maximize performance.

2nd Intermediate Interval
8-1/2" Hole (5,350'- 12,535')

Questar
Exploration & Production
WV 8D-15-8-21
Sec 15-T8S-R21E
Uintah, County Utah

2nd Intermediate Interval Drilling Fluid Properties								
Depth Interval (TVD)	**Mud Weight (ppg)**	**Viscosity (sec/qt)**	**Plastic Viscosity (cp)**	**Yield Point (lb/100ft²)**	**pH**	**API Fluid Loss (ml/30min)**	**Hardness Mg/l)**	**Low Gravity Solids**
5,350'-10,000'	9.0-9.5	32-36	6-12	6-10	10.0-11.0	8-10	100+	4-6
10,000'-12,535'	10.5-11.8	45-50	10-18	12-14	10.0-11.0	6-8	100+	4-6

- Drill out with water and or mud as hole conditions dictate. After mud-up , allow the system to revert to a fresh water polymer system.
- As mud weight is increased, seepage losses can become severe. Treat with LCM pills as needed. If pill treatments will not contain the losses at reasonable levels, by-pass the shakers, retaining the pills and allowing the LCM concentration to increase as needed.
- Hole instability can occur in the Mesa Verde in this area. If encountered, consider adding Asphalt, building to a 4-6 ppb concentration.
- High pressure may be encountered in the Castlegate/Blackhawk. Monitor closely for increased pressure while drilling and use caution on trips to minimize possible swabbing.
- Mud weight at Intermediate #2 T.D. is expected to be in the 11.5-12.0 ppg range.

Challenges:	*Strategies:*
Hole Instability/Sloughing Shale	Consider 4-6 ppb Asphalt
Increase in Formation pressure	Monitor well conditions and increase density as needed with **NewBar** as needed.
Seepage/Lost Circulation	As mud weight is increased (10.0ppg +) seepage and losses may become a problem. For seepage pump 50 bbl sweeps with 5-10 ppb **DynaFiber** and 10-20 ppb **NewCarb** as needed. For partial or total losses pump sweeps with 10-15 ppb **FiberSeal** and **Cedar Fiber**. Severity of losses will determine size and quantity of LCM added. If losses are not controlled with sweeps consider 10-15% LCM in active system. For severe losses the use of a **New X-Prima** squeeze should be considered.
Differential Sticking	Maintain mud weight as low as possible. Control Low Gravity Solids below 6%, and control fluid loss at 8-10 mls/30 min.
Increase ROP with PDC Bits	Pump 20-40 bbl. Sweeps with NewEase 203, New100N, DynaDet, and SAPP. (FlexDrill Sweeps)

2nd Intermediate Interval
8-1/2" Hole (5,350'-12,535')

Questar
Exploration & Production
WV 8D-15-8-21
Sec 15-T8S-R21E
Uintah, County Utah

Offset Data:

Wells in this area have experienced losses as mud weights are increased to control formation pressure. LCM sweeps are strongly recommended for this reason. Mud weights should be keep as low as practical but increases to 11.2 ppg may be required by 2nd Intermediate TD at 12,535'.

- **Loss zones on offset wells were at 9200 ft and 9500 ft.**
- **Losses were encountered at 10,200' on the WV 11AD-14-8-21**

Fluid Recommendations:

- Drill out cement, float collar and new formation with the system from the previous interval. Test the integrity of the casing seat and squeeze if necessary.
- Drill out with water and or mud. If drilling out with water consider a mud up by +/- 7500 ft or as hole conditions dictate.
- Begin additions of 0.5-1.0 ppb **NewPHPA** and maintain throughout the interval.
- Maintain viscosity with PreHydrated **NewGel** until chlorides have dropped below 5000-7000 mg/l. After chlorides have dropped **NewGel** will not need to be pre-hydrated and can be added directly to the system.
- Begin additions of **NewPHPA**. Concentration of **NewPHPA** should be maintained at 0.5-1.0 ppb throughout the interval. As mud weight increases additions of **PHPA** should be switched from **NewPHPA DLMW** to the shorter chain **NewPHPA DSL**.
- If hole conditions dictate, consider 4-6 ppb Asphalt.
- If penetration rates slow sweeps with **New 100N**, **NewEase 203, SAPP**, and **DynaDet** should be considered. **(1% New 100N, 1% NewEase 203, 0.5-0.75 ppb SAPP, 0.2 % DynaDet). *"Flex Sweeps"***
- Increase mud weight as needed to control formation pressures as needed. Mud weights should be maintained as low as practical to reduce chance of losses and differential sticking. Increase mud weight as needed with **NewBar**.
- As density increases additions of **NewEdge** and/or **DrillThin** should be added for rheology control.
- As bottom hole temperatures increase and additional fluid loss control is desired supplement the **AquaBlock** with **NewPac** for fluid loss control Lower API filtrate to 6-8 cc's with additions of **NewPAC** and **AquaBlock**.
- As mud weight is increased seepage and/or lost circulation may become a problem. For seepage pump 20-30 bbl pills containing a combination of **NewCarb** and **DynaFiber** mixed at a 2:1 ratio. If partial or total returns are encountered, LCM sweeps with a varied size distribution including **Cedar Fiber** and **Fiber Seal, PhenoSeal** and other assorted sizes should be considered and incorporated into the system as needed. 20-25% LCM in the active system may be required. The type, size and quantity of LCM used will depend on the severity of losses. If losses are severe a **New X-Prima** squeeze should be considered.
- At TD increase funnel viscosity for logs and casing operations as hole conditions dictate. Suggest funnel viscosity be increased to 50-55 sec/qt, before logging or casing operations be attempted.
- While circulating casing it is recommended to reduce Yield Points for cementing operations.

Production Interval
6-1/8" Hole (12,535'-16,971')

Questar
Exploration & Production
WV 8D-15-8-21
Sec 15-T8S-R21E
Uintah, County Utah

Production Interval Drilling Fluid Properties									
Depth Interval (TVD)	Mud Weight (ppg)	Plastic Viscosity (cp)	Yield Point (lb/100ft²)	O/W Ratio %	HPHT Fluid Loss (ml/30min)	Excess Lime (PPB)	Electrical Stability (MV)	Low Gravity Solids	CaCl Mg/l Water
12,535'-16,971'	15.0-15.5	25-35	8-10	85:15	10-20	2-4	500+	< 6	300K

Drilling Fluid Recommendations: (12,535'-16,971')

- Displace to a OptiDrill OBM after finishing the casing job at 12,535'.
- After displacement, maintain the OptiDrill system within the parameters outlined above.
- Offsets in the area have encountered high rates of seepage in this interval. If indications of seepage are observed, sweeps of **NewCarb C**, **Dynafiber C & M**, **NewSeal**, and **CyberSeal** are recommended. Mixing ratios are recommended to be at 5:1 **NewCarb M** to **DynaFiber** , **NewSeal**, and **CyberSeal**. If losses continue to be a problem, consider trying different sizes and combinations until ssepage is slowed.
- Maintain rheology low to reduce ECD values and reduce surge and swab during connections and trips.
- Drill as underbalanced as possible to help prevent losses and increase penetration rates.
- For pressure control, spot high weight pills with an equivalent mud weight to drilling ECD's. On trips in, stage these pills out and divert to storage for further use. High weight pills in excess of the drilling ECD should be avoided due to possible lost circulation.

Challenges	Strategies
Displacement	• Have 1200-1300 bbls of OBM volume on location along with a pump capable of keeping up with displacement rates. • Pump a 10-20 bbl viscosified OBM spacer ahead of the OpyiDrill (enough for 500 ft + separation) • A steady pump rate for either turbulent or plug flow should be used. Reciprocate and rotate to assist in minimizing channeling. • Do not shut down once displacement commences. • Should any contamination occur, isolate the contaminated fluid for reconditioning.
Seepage/lost Circulation.	Pump LCM sweeps when seepage and/or losses are indicated. Sweeps should be a mixture of , NewCarb, DynaFiber, NewSeal, and CyberSeal. If lost returns are encountered, consider a Diaseal M or cross linked polymer squeeze.
Maintaining Oil wet solids	For every 1.0 ppg mud weight increase, mix 0.02 gal/bbl OptiWet
Pressure control	• Spot weighted pills calculated to give a bottom hole pressure equal to drilling ECD. • Do not exceed drilling bottom hole pressure with the ECD pill. Lost circulation has been a problem on offset wells. • Stage weighted pills out of the hole and recover for future use.

Maintenance Procedure:

HPHT - Maintain HPHT values within programmed parameters. Additions of **OptiMul** and **OptiPlus**, at recommended concentrations should maintain the HTHP at recommended levels. If hole conditions indicate a need for lower HPHT values, **Opti G** at 2-4 ppb is recommended.

Electrical Stability– Electrical stability should be used as a guide not as an absolute in determining maintenance requirements. Actual values are not critical but should be observed for trends or changes. Decreases in electrical stability should be noted along with other mud properties to determine treatments. To increase electrical stability add emulsifiers and wetting agents **OptiMul** and **OptiPlus** or decrease water content.

Oil/Water Ratio - Maintain the oil/water ratio in the 90:10-80:20 range depending on mud weight and condition.. Higher water content will decrease the amount of **OptiVis** needed for rheology.

Mud weight - Maintain minimum fluid densities with solids equipment. Monitor hole conditions and all drilling parameters closely for indications of increases in formation pressures and adjust fluid densities accordingly. Drilling with a minimum amount of overbalance will reduce the possibility of losing returns and/or of differentially sticking the drill string. Mud weight on offset wells was in the 15.0-15.5 ppg range at T.D.

Rheology - Maintain solids as low as possible. Increase rheology as needed for hole cleaning with a combination of **OptiVis (Bentone 910)** and **Opti Vis RM or Opti Vis PS** and water content.

Lime - Maintain the excess Lime at 2-3 ppb excess.

Hole cleaning - Calculate rheology requirements based on ROP, pump rates and hole conditions. Adjust as needed .

Mud losses downhole—Monitor ECD's with Hy-Calc, maintaining the lowest values possible. If losses are encountered; sweeps containing **NewCarb, DynaFiber, Opti-G, and NewSeal** should be circulated to aid in the prevention of losses. If seepage losses continue and/or become severe, consider spotting a pill with **Magma Fiber (Fine & Regular)** and the above formulation. Keep the hole full at all times, and avoid excessive swabbing and/or surge actions when tripping.

Solids Control - Maintain low gravity solids at 4-6 % by volume. The high performance shakers should be equipped with the finest mesh screens that will handle the circulating volume and not cut barite out.

Water Contamination– Keep all water sources off the mud pits. If contamination occurs, treat with emulsifiers and Calcium Chloride as needed.

Production Interval
6-1/8" Hole (12,535'-16,971')

Questar
Exploration & Production
WV 8D-15-8-21
Sec 15-T8S-R21E
Uintah, County Utah

Recommended materials for relaxed filtrate OptiDrill system :
(85:15 Oil/Water Ratio)

Product	Function	Concentration
NewBar	Weighting material	As needed
OptiVis	Organophilic Clay / Viscosifier	2-4 ppb
OptiMul	Primary Emulsifier	2.0 ppb
OptiPlus	Secondary Emulsifier	4.0 gal/bbl.
OptiVis RM	Low End Rheology Modifier	0.1-0.2 ppb
Calcium Chloride Water	Internal Phase	10.0%-20.0 % by volume
Calcium Chloride	Salinity/Activity	300,000 - 350,000 mg/l
OptiG	Fluid Loss control Additive	1.0-4.0 ppb
Lime	Alkalinity Additive	5 ppb
NewCarb M	Loss Circulation Material	10.0 ppb
NewCarb F	Loss Circulation Material	As required
DynaFiber	Loss Circulation Material	As required

QUESTAR EXPLORATION AND PRODUCTION COMPANY

WELLSITE CUTTINGS MANAGEMENT PLAN

UINTA BASIN PROJECT AREA

WV 8D-15-8-21

Township: 8 South, Range 21 East

Uintah County, Utah

UINTA BASIN CUTTINGS MANAGEMENT PLAN

Solidifying / Stabilizing Cuttings Pits

1. PROJECT DESCRIPTION

We drill and set conductor, then drill, case and cement surface casing, then drill, run casing, and cement intermediate sections, then finally drill the production holes. This insures that surface water is protected and is not exposed to more saline waters and that treatable water is not exposed to oil based mud (OBM). In addition, water and oil is skimmed off during the various phases for reuse and to minimize the fluid levels in the pit.

The wells to be drilled use oil base drilling fluid during the production section of each well. As the production section of the well is drilled, drill cuttings will be generated and separated from the drilling fluid, then deposited in a single on-site waste pit with synthetic liners (cuttings pit). These oil base mud cuttings (OBMC) are expected to contain elevated levels of adhered entrained hydrocarbons due to their prior contact with the OBM. The OBMC will be collected in a steel catch tank as drilling progresses, moved to the cuttings pit by a wheel loader, and mixed with the water based cuttings generated during drilling of the upper sections of the wellbore.

A state approved contractor will treat the waste placed in the cuttings pit using the solidification/stabilization (S/S) process described below. Prior to beginning the S/S process, the contractor will collect samples of the contents of the cuttings pit for criteria verification. The waste will be treated in place inside the pit and contractor will finish by backfilling the pit constituting final disposal of the drilling waste.

2. GENERAL DESCRIPTION OF THE SOLIDIFICATION/STABILIZATION PROCESS

The S/S process involves the controlled addition of a specially blended Portland-cement-based reagent to the drilled cuttings, OBM and WBM solids and liquids, and makeup water as required followed by through mixing of the reagent with the waste to form homogeneous slurry. Hydrocarbons and chlorides in the waste are broken up into very small droplets or "particles" and these particles are dispersed throughout the reagent/waste mixture during the mixing phase. After the mixing phase, an irreversible chemical reaction occurs between the cementitious reagent and water present in the slurry causing the slurry mixture to rapidly transform into a solid granular material. The previously dispersed and isolated particles are immobilized to a very high degree within the interlocked cementitious lattice of each solidified granule. This waste treatment process prevents the hydrocarbons or chlorides from re-coalescing within the processed waste form and reduces their release to the surrounding environment. Chemical properties imparted by the process also stabilize various metals, if present in the waste, by transforming them into less-soluble forms. This in conjunction with the physical entrapment of metals within each solidified granule greatly reduces their availability to the surrounding environment. In summary S/S rapidly transforms physically unstable waste into a stable solid material and reduces the leaching rate of target constituents to such a degree that they can no longer cause harm to the surrounding environment.

3. ESTIMATED VOLUMES PER WELL

Section	Top	Bottom	Size	Volume, ft3	Swell	Excess	Tot Vol, ft3	Tot Vol, bbl
Surface	60	500	17.5	735.01	1.3	1.7	1624.38	289.29
Intermediate	500	5350	12.25	3969.90	1.3	1.4	7225.22	1286.77
Intermediate	5350	12535	8.5	2831.59	1.3	1.4	5153.49	917.81
Production	12535	16971	6.125	907.76	1.3	1.3	1534.11	273.22
Additional Volume							1937.03	345.00
Total per Well							17474.22	3112.09

4. PROJECT OBJECTIVES

The S/S objectives are:

1 To permanently reduce the leaching rate of target constituents to at or below prescribed limits for confinement in the soil.

1.1 Leachable Oil and Grease will be less than 10 mg/L.

1.2 Leachable Total Dissolved Solids will be less than 5000 mg/L and/or leachable salts will be below acceptable site-specific guidelines.

1.3 Compliance with the performance criteria will be certified by a third party accredited testing laboratory utilizing the appropriate tests. Laboratory test results will be documented in a closure report submitted to the client and to the required regulatory agencies as may be required after completion of the project.

2 To solidify the unconsolidated waste to support backfilling soil cover and resist subsidence.

3 Rapid solidification of the waste to reduce pit closure time.

4 Minimize waste volume increase to maximize depth of native soil cover over processed material.

5. CONTRACTOR ACTIVITIES

1. Contractor will collect samples of the raw waste and bench test to determine S/S reagent formulation and reagent/waste mix ratios necessary to achieve performance criteria.
2. Contractor will deliver equipment and experienced personnel to the site.
3. Contractor supervisor will conduct a job site safety assessment with crew discussing relevant site safety hazards, required PPE, and accident avoidance. Contractor safety meetings will be held prior to each day's work throughout the project.
4. Contractor and client representative will determine the final actual volume of contents to treat in each pit at the subject site prior to commencing operations.
5. Contractor will construct proper storm drainage protection, if necessary, to surround the pit areas during the project.
6. Contractor will perform preliminary admixing of each pit's contents prior to S/S reagent introduction and prepare the site to facilitate waste processing. Care will be taken to maintain waste containment throughout all processing phases.
7. Contractor will prepare and deliver S/S reagents to the site. Reagents will be added to the pit waste utilizing a special filter-equipped discharge hopper.
8. Contractor will perform the S/S on the waste in-situ in order to chemically solidify the waste and immobilize target constituents of concern within the processed material.
9. After processing all the waste, contractor will collect a composite sample of the processed pit material and submit the sample to a certified third party laboratory for analysis to verify the processed material complies with criteria indicated in the Project Objectives, Section 4.
10. Contractor will place a minimum of three feet (3') of native spoil over the S/S material in the pit in order to backfill to the adjacent grade constituting final disposal of the processed material. Spoil for backfilling will be taken from existing excavated spoils at the site.
11. Contractor will then promptly demobilize equipment and personnel concluding site operations.

QUESTAR EXPLR. & PROD.

WV #8D-15-8-21

LOCATED IN UINTAH COUNTY, UTAH
SECTION 15, T8S, R21E, S.L.B.&M.

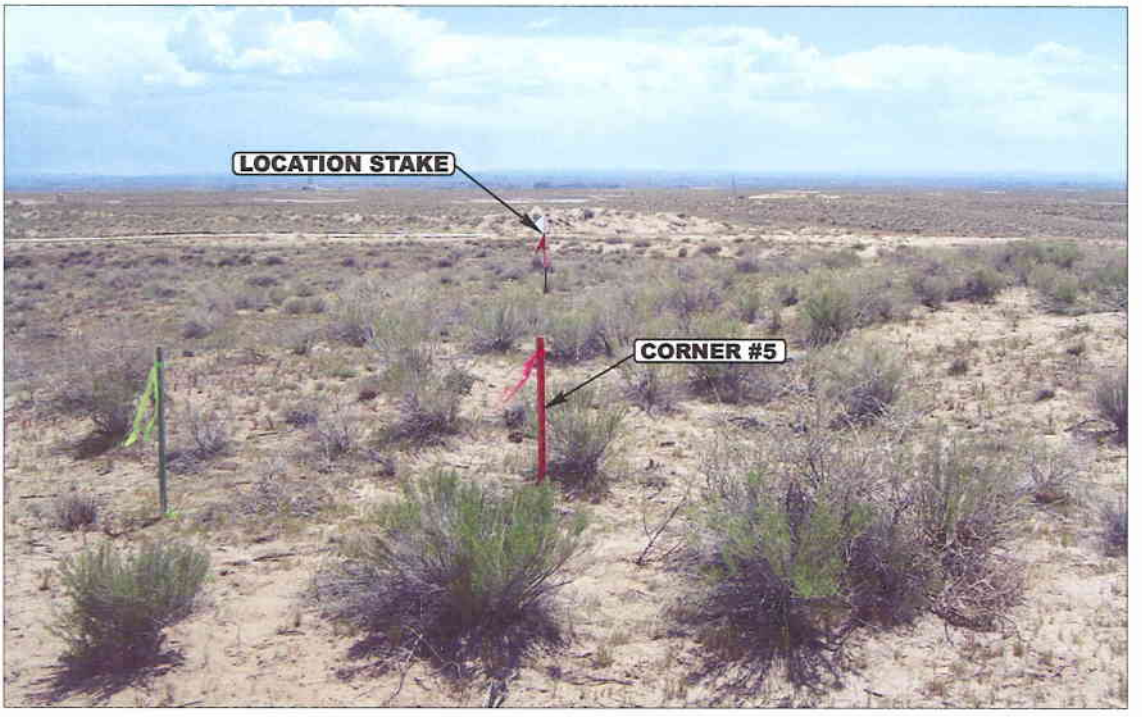


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE **CAMERA ANGLE: SOUTHERLY**

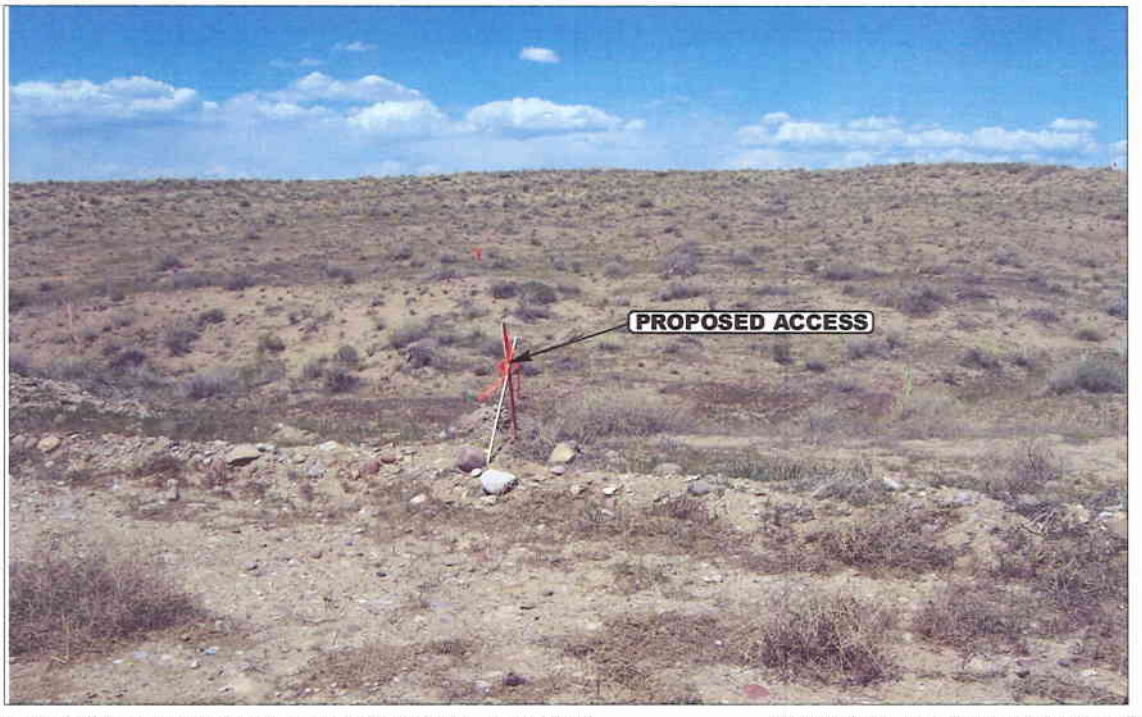
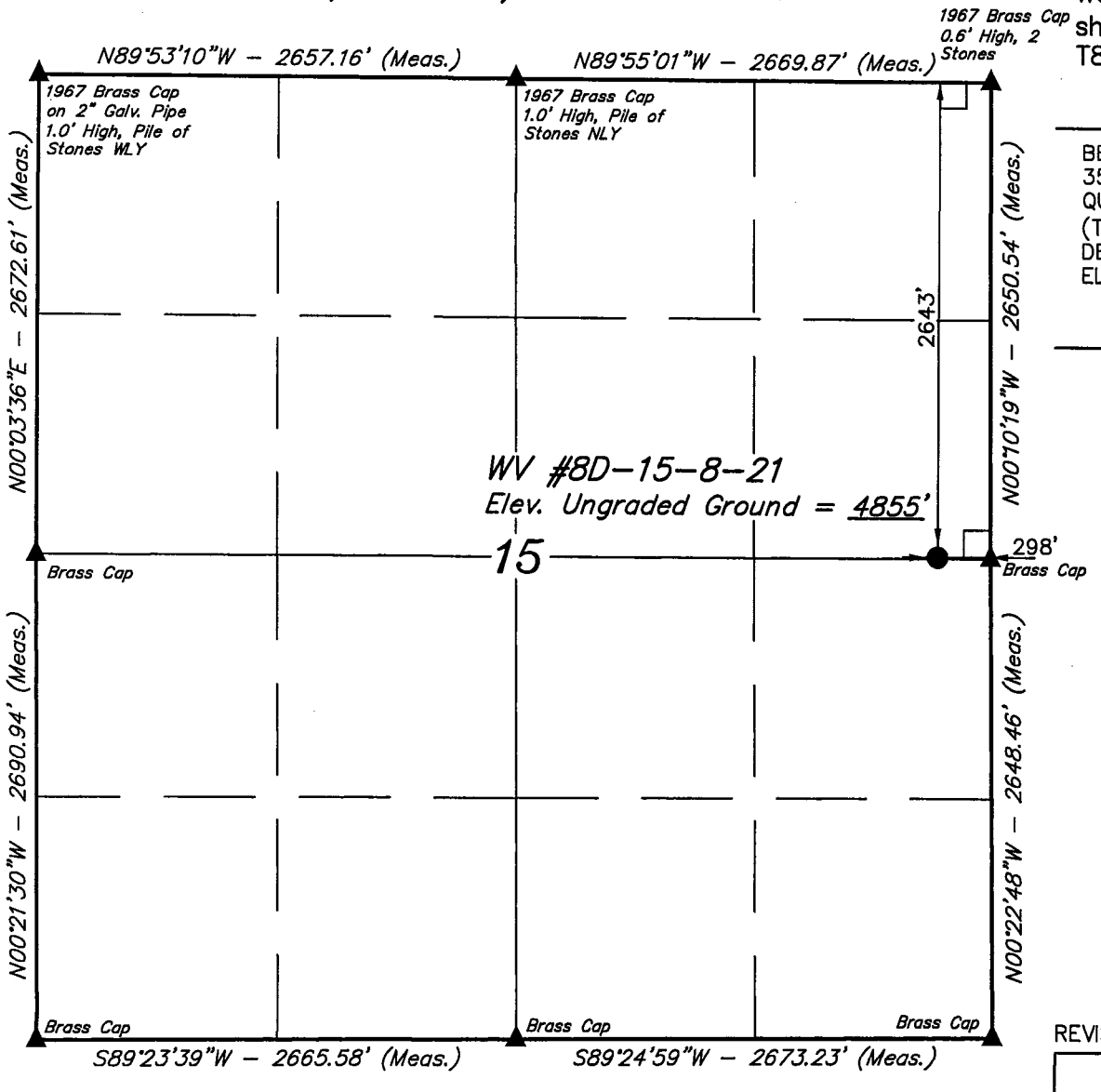


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS **CAMERA ANGLE: NORTHEASTERLY**

- Since 1964 -
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS	10 MONTH	13 DAY	06 YEAR	PHOTO
TAKEN BY: D.A.	DRAWN BY: L.K.	REVISED: 05-09-08 D.P.		

T8S, R21E, S.L.B.&M.



QUESTAR EXPLR. & PROD.

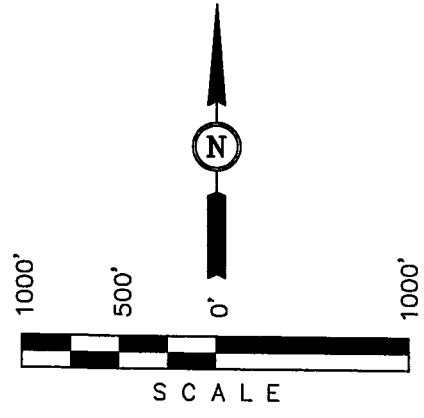
Well location, WV #8D-15-8-21, located as shown in the SE 1/4 NE 1/4 of Section 15, T8S, R21E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK 20EAM LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M., TAKEN FROM THE OURAY SE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



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.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REVISED 05-09-08 D.P.

LEGEND:

└ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

(NAD 83)
LATITUDE = 40°07'24.79" (40.123553)
LONGITUDE = 109°31'55.79" (109.532164)
(NAD 27)
LATITUDE = 40°07'24.92" (40.123589)
LONGITUDE = 109°31'53.31" (109.531475)

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST – VERNAL, UTAH 84078
(435) 789-1017

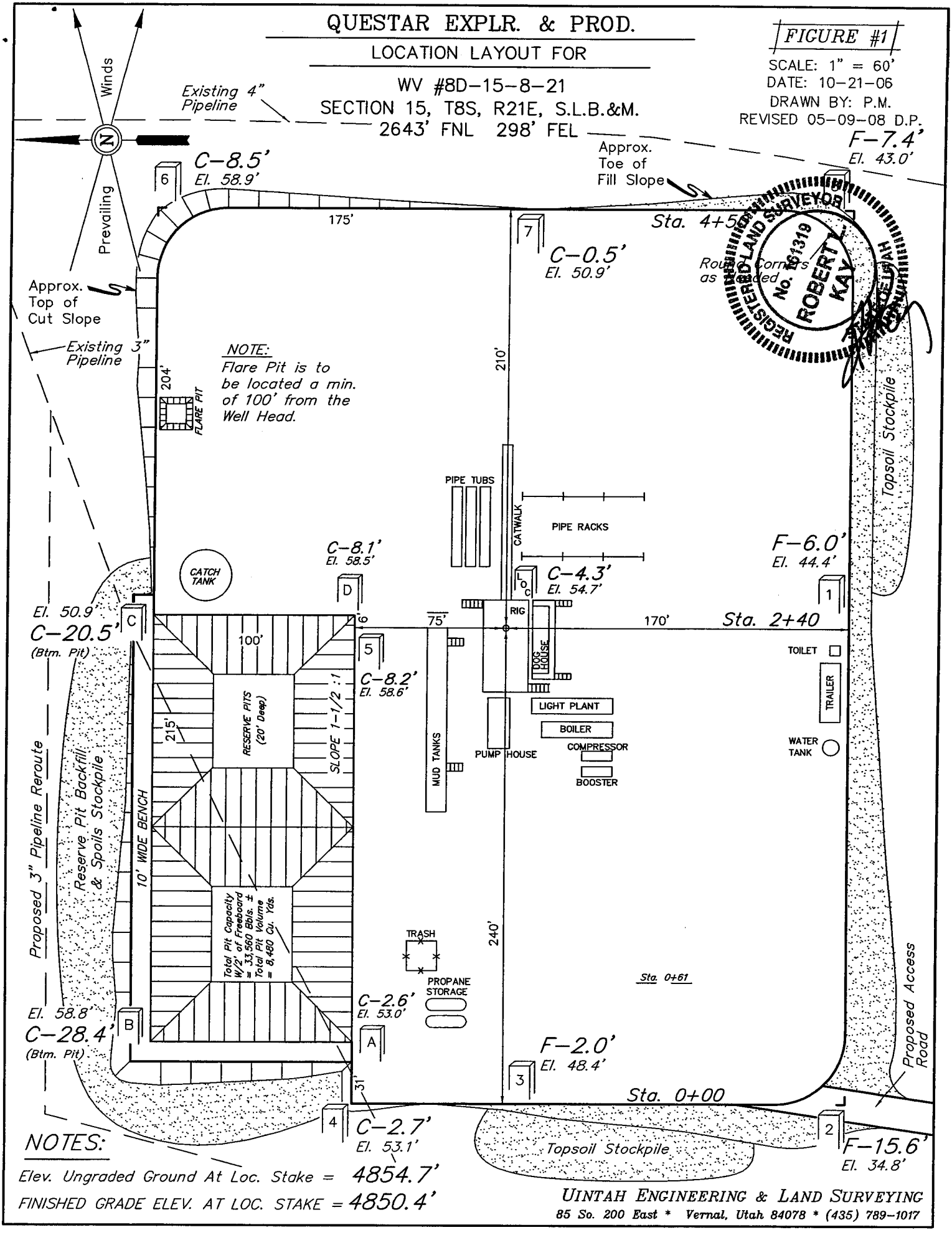
SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	09-26-06	10-21-06
PARTY: D.A. J.B. P.M.	REFERENCES: G.L.O. PLAT	
WEATHER: WARM	FILE: QUESTAR EXPLR. & PROD.	

QUESTAR EXPLR. & PROD.

LOCATION LAYOUT FOR

WV #8D-15-8-21
SECTION 15, T8S, R21E, S.L.B.&M.
2643' FNL 298' FEL

FIGURE #1
SCALE: 1" = 60'
DATE: 10-21-06
DRAWN BY: P.M.
REVISED 05-09-08 D.P.



NOTES:

Elev. Ungraded Ground At Loc. Stake = 4854.7'

FINISHED GRADE ELEV. AT LOC. STAKE = 4850.4'

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

QUESTAR EXPLR. & PROD.

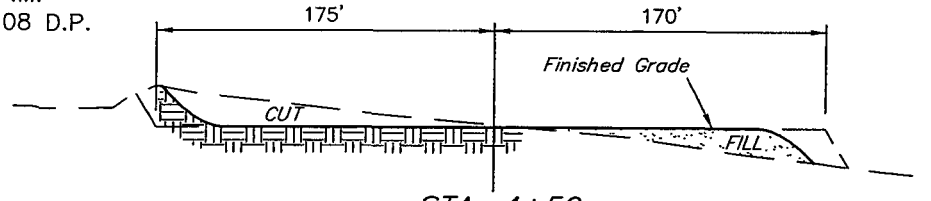
TYPICAL CROSS SECTIONS FOR

WV #8D-15-8-21
SECTION 15, T8S, R21E, S.L.B.&M.
2643' FNL 298' FEL

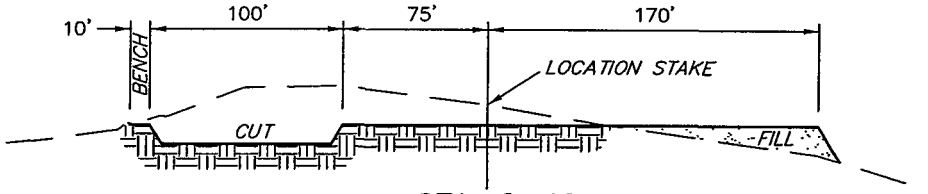
FIGURE #2

1" = 40' X-Section Scale
1" = 100'

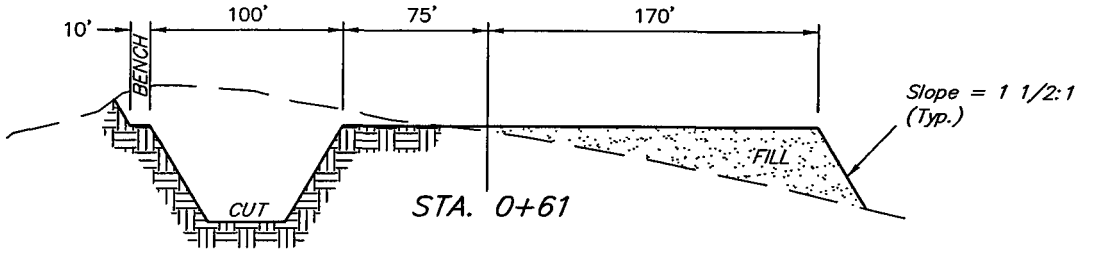
DATE: 10-21-06
DRAWN BY: P.M.
REVISED 05-09-08 D.P.



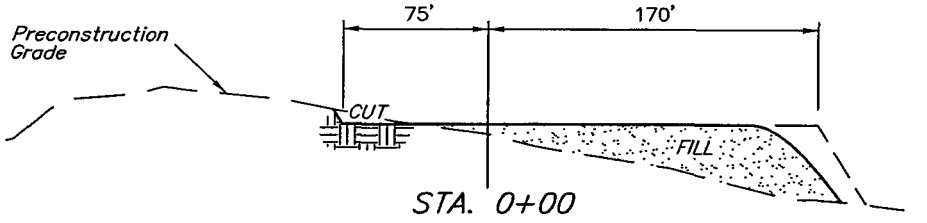
STA. 4+50



STA. 2+40



STA. 0+61



STA. 0+00

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ± 4.534 ACRES
ACCESS ROAD DISTURBANCE = ± 0.080 ACRES
PIPELINE DISTURBANCE = ± 0.306 ACRES
TOTAL = ± 4.920 ACRES

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

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

APPROXIMATE YARDAGES

CUT
(12") Topsoil Stripping = 6,570 Cu. Yds.
Remaining Location = 21,120 Cu. Yds.

TOTAL CUT = 27,690 CU. YDS.
FILL = 16,880 CU. YDS.

EXCESS MATERIAL = 10,810 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.) = 10,810 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation) = 0 Cu. Yds.

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

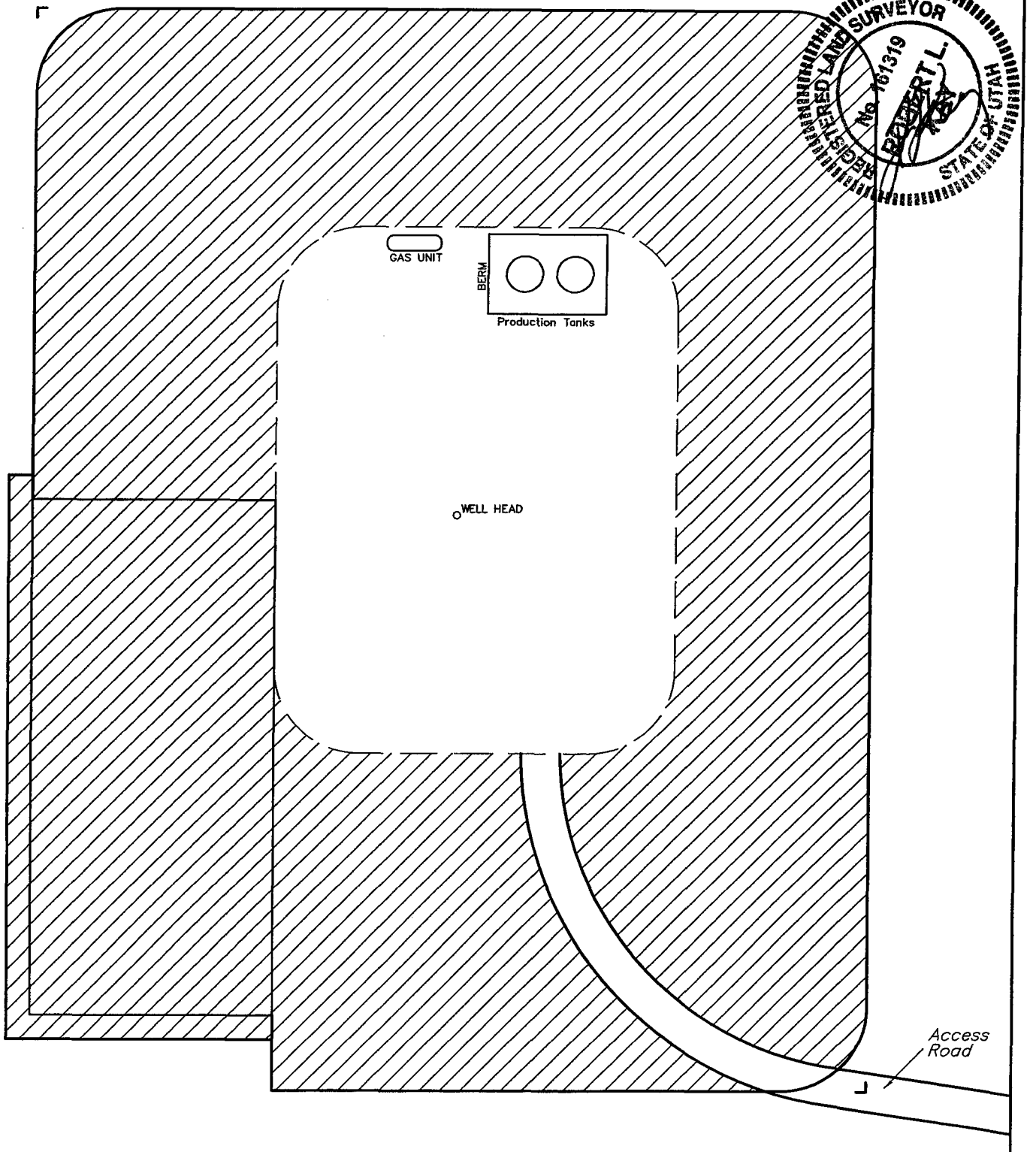
QUESTAR EXPLR. & PROD.

INTERIM RECLAMATION PLAN FOR

WV #8D-15-8-21
SECTION 15, T8S, R21E, S.L.B.&M.
2643' FNL 298' FEL

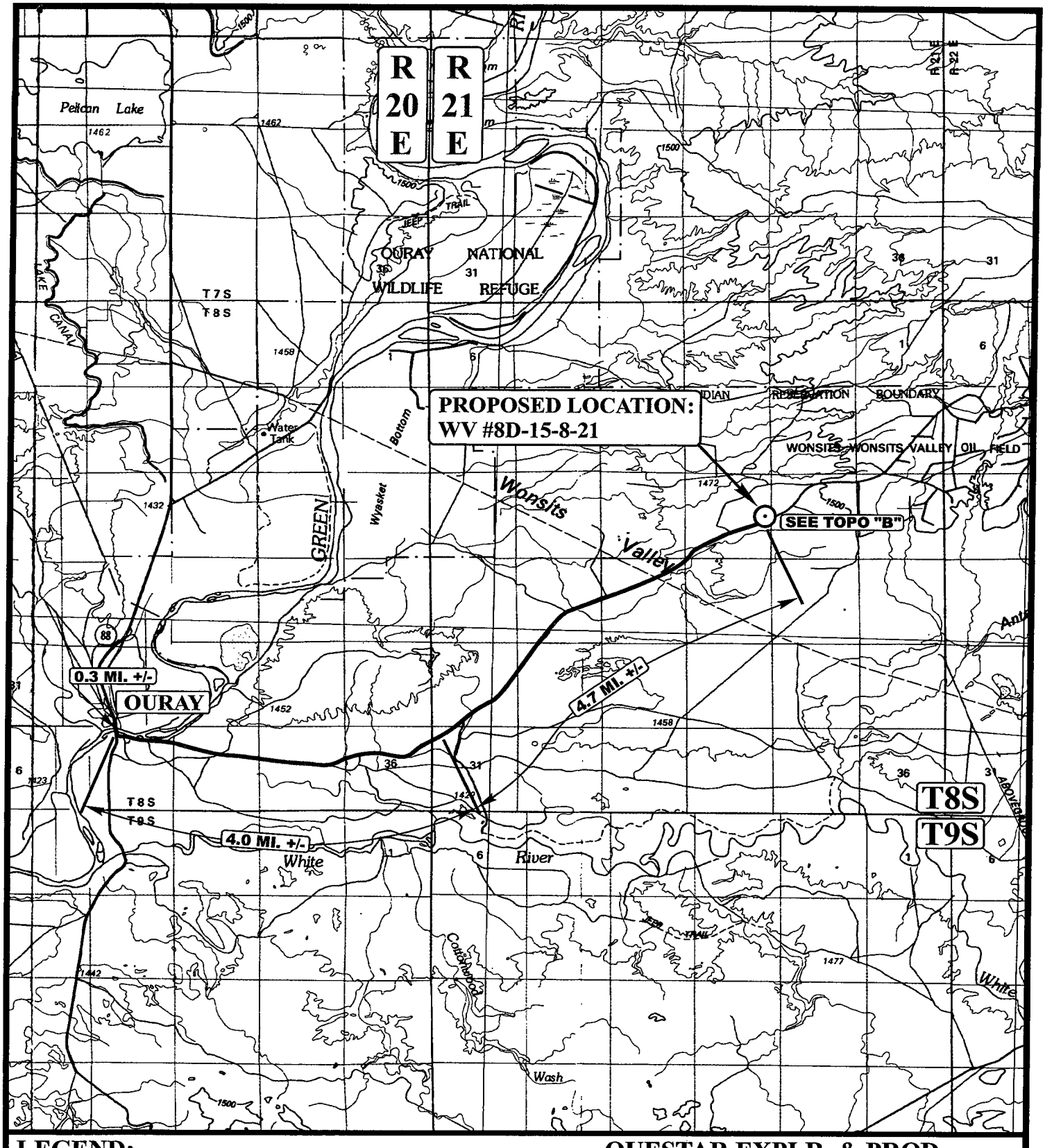
FIGURE #3

SCALE: 1" = 60'
DATE: 10-21-06
DRAWN BY: P.M.
REVISED 05-09-08 D.P.



INTERIM RECLAMATION

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



LEGEND:

⊙ PROPOSED LOCATION

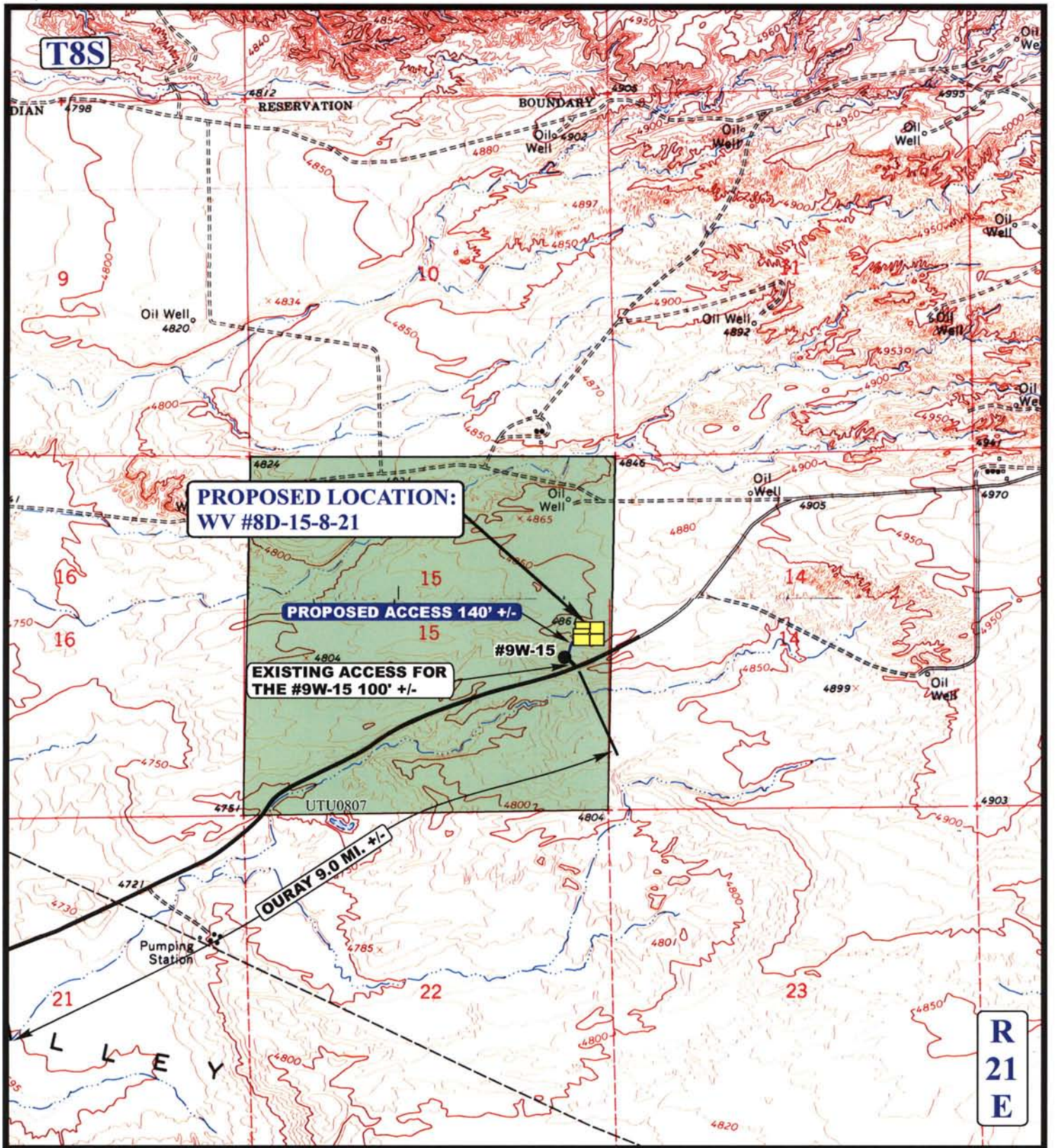
N

QUESTAR EXPLR. & PROD.

WV #8D-15-8-21
SECTION 15, T8S, R21E, S.L.B.&M.
2643' FNL 298' FEL

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

TOPOGRAPHIC MAP	10 MONTH	13 DAY	06 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: L.K.	REVISED: 05-09-08D.P.		



LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

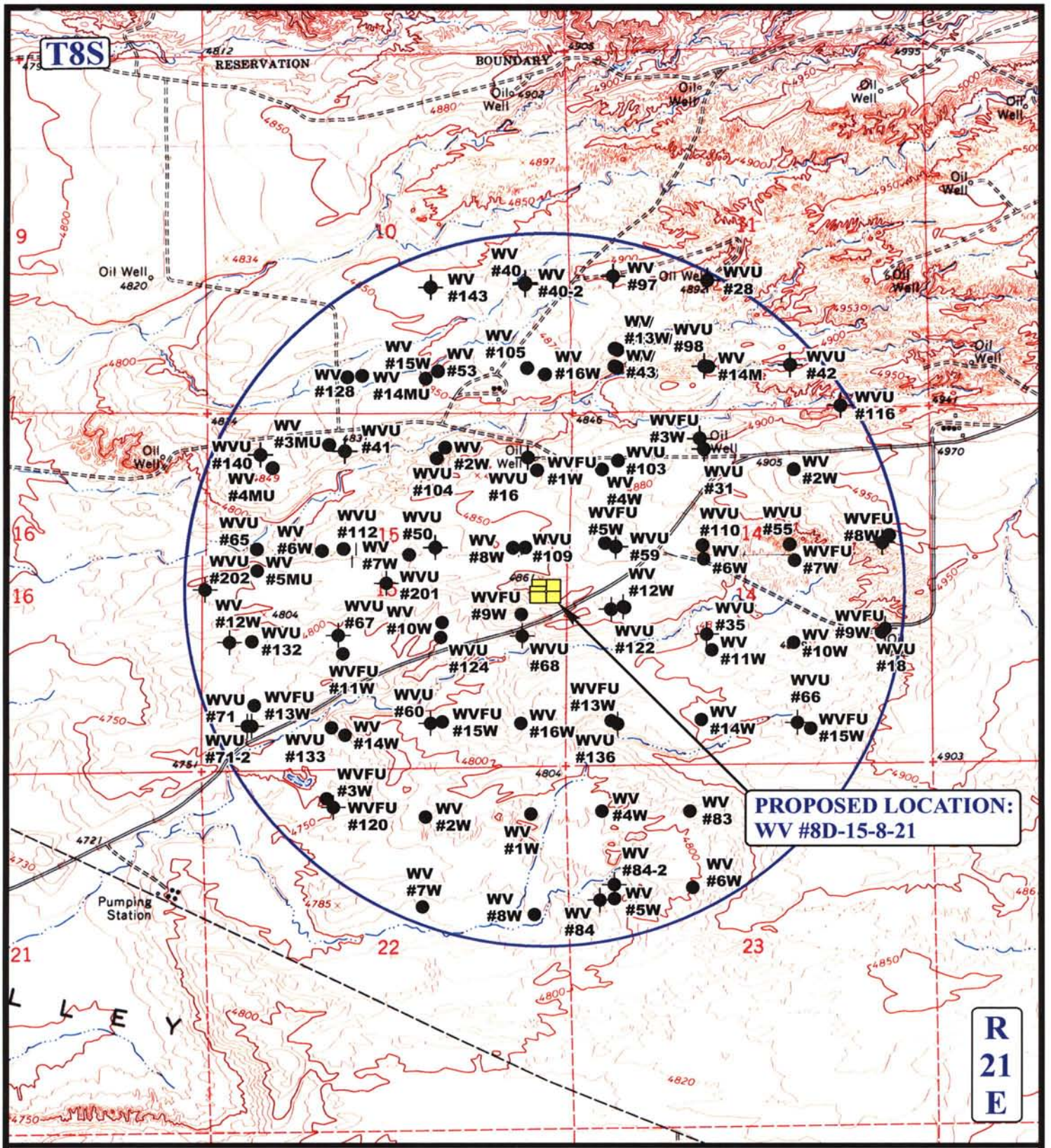
N

QUESTAR EXPLR. & PROD.

WV #8D-15-8-21
SECTION 15, T8S, R21E, S.L.B.&M.
2643' FNL 298' FEL

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

TOPOGRAPHIC MAP	10 MONTH	13 DAY	06 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: L.K.	REVISED: 05-09-08 D.P.		



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

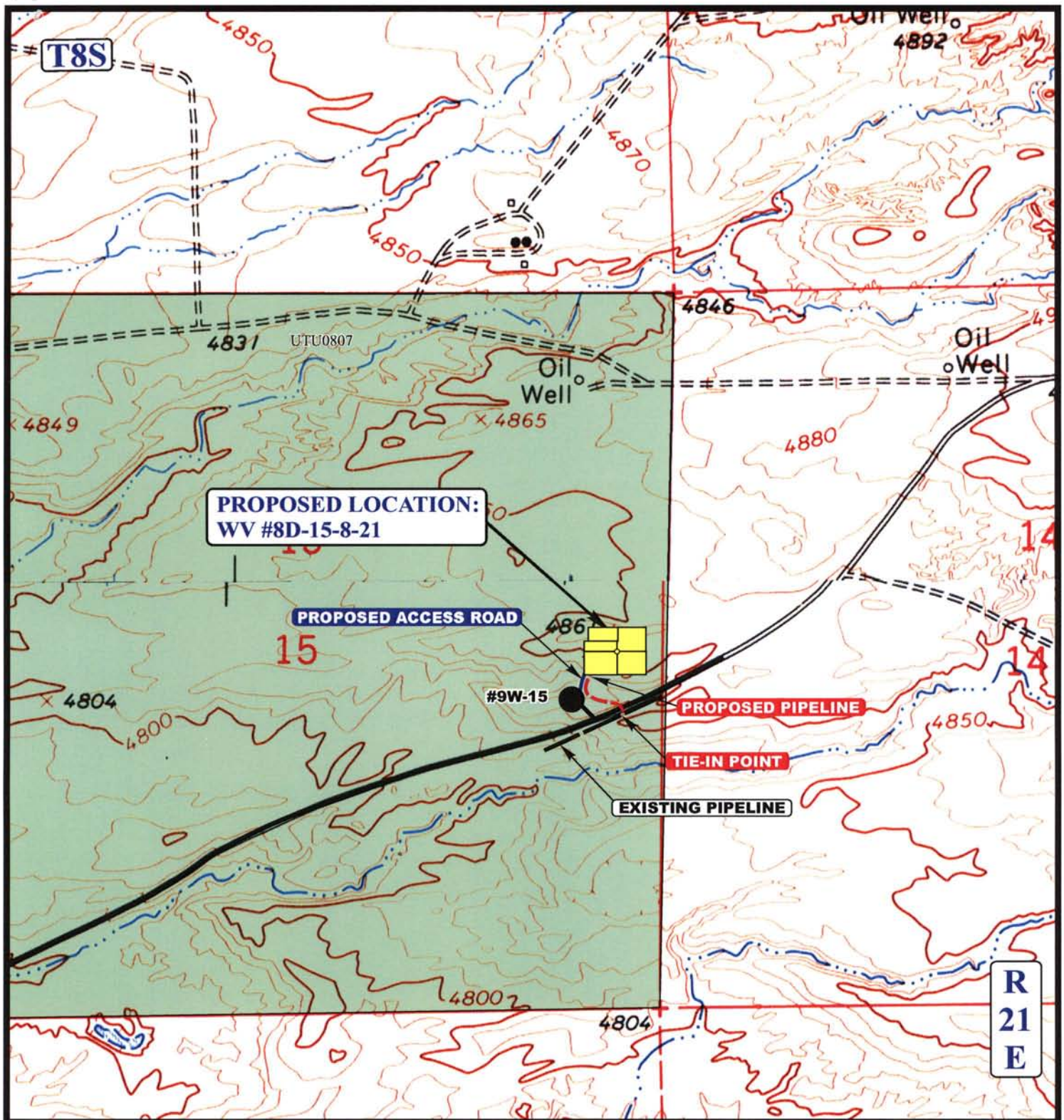
N

QUESTAR EXPLR. & PROD.

WV #8D-15-8-21
SECTION 15, T8S, R21E, S.L.B.&M.
2643' FNL 298' FEL

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

TOPOGRAPHIC MAP	10 MONTH	13 DAY	06 YEAR	C TOPO
SCALE: 1" = 2000'	DRAWN BY: L.K.	REVISED: 05-09-08 D.P.		



APPROXIMATE TOTAL PIPELINE DISTANCE = 470' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)

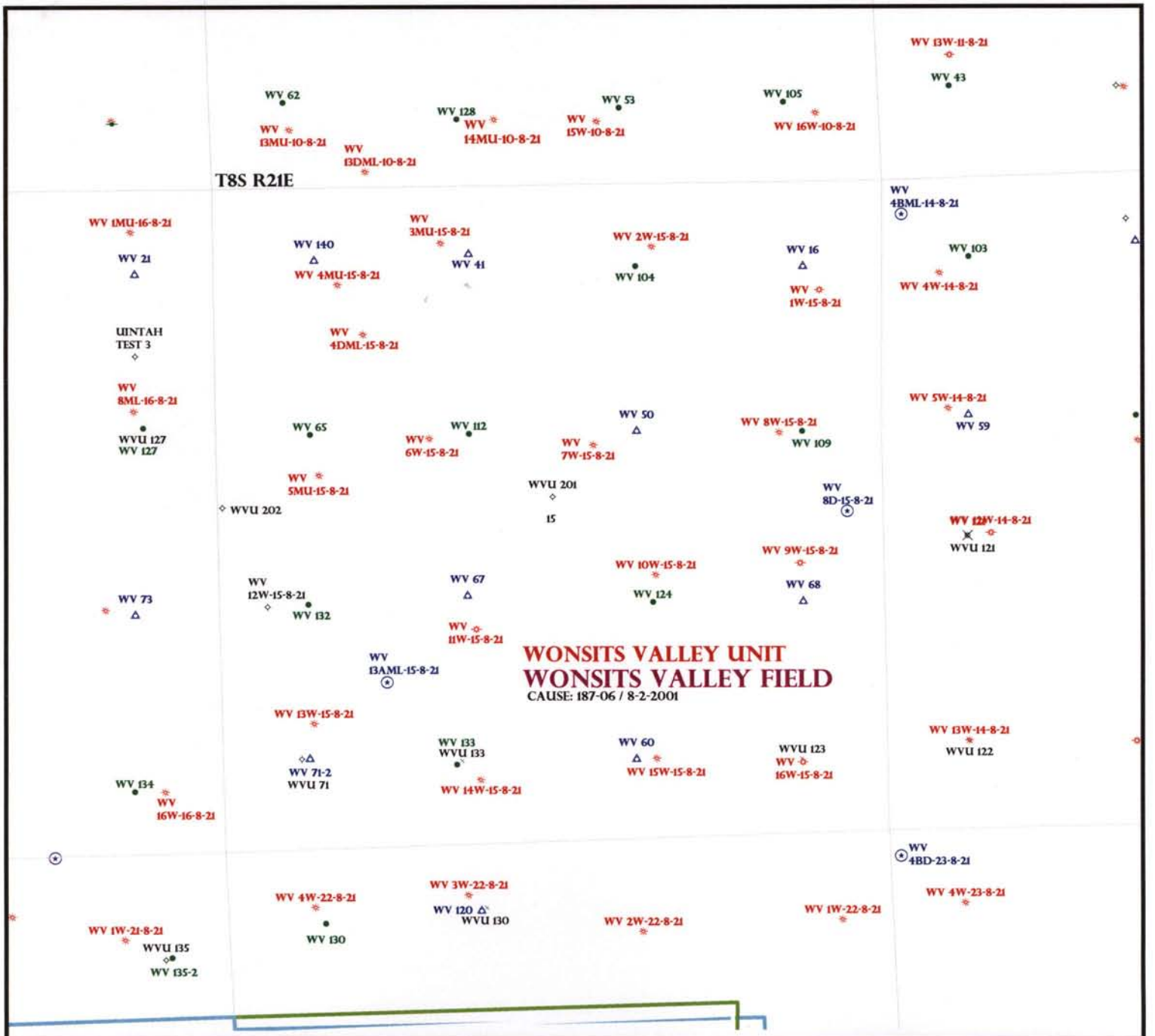
N

QUESTAR EXPLR. & PROD.

WV #8D-15-8-21
SECTION 15, T8S, R21E, S.L.B.&M.
2643' FNL 298' FEL

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

TOPOGRAPHIC MAP	10 MONTH	13 DAY	06 YEAR	D TOPO
SCALE: 1" = 1000'	DRAWN BY: L.K.	REVISED: 05-09-08 D.P.		



OPERATOR: QUESTAR EXPL & PROD (N5085)

SEC: 15 T.8S R. 21E

FIELD: WONSITS VALLEY (170)

COUNTY: UINTAH

CAUSE: 187-06 / 8-2-2001

Field Status
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Wells Status
- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING

UTAH DNR
OIL, GAS & MINING

N
W E
S

PREPARED BY: DIANA MASON
DATE: 30-MAY-2008

CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: **Questar Exploration & Production Company**

Well Name: **WV 8D-15-8-21**

API No: **43-047-39040** Lease Type: **Federal/Indian**

Section **15** Township **08S** Range **21E** County **Uintah**

Drilling Contractor **Pete Martin** Rig # **Rathole**

SPUDDED:

Date **6-28-08**

Time **10:00 AM**

How **Dry**

Drilling will Commence:

Reported by **Kerry Sails**

Telephone # **307-212-4627**

Date 7-01-08 **Signed RM**

Form 3160-5
(J[redacted]990)

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

5. Lease Designation and Serial No.
UTU-0807

6. If Indian, Allottee or Tribe Name
UTE TRIBE

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation
WONSITS VALLEY UNIT

1. Type of Well
Oil Well [ ] Gas Well [X] Other [ ]

8. Well Name and No.
WV 8D 15 8 21

2. Name of Operator
QUESTAR EXPLORATION & PRODUCTION CO.

9. API Well No.
43-047-39040

3. Address and Telephone No.
11002 EAST 17500 SOUTH - VERNAL, UT 84078
Contact: Dahn.Caldwell@questar.com
435-781-4342 Fax 435-781-4357

10. Field and Pool, or Exploratory Area
WONSITS VALLEY

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2609' FSL, 289' FEL, NESE, SEC 15-T8S-R21E

11. County or Parish, State
UINTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
	[ ] Recompletion	[ ] New Construction
[X] Subsequent Report	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
[ ] Final Abandonment Notice	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other **SPUD**	[ ] 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)

On 6/28/08 - Drilled 88' of 30" conductor hole. Set 88' of 20" conductor pipe. Cmtd w/ Ready Mix.

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 **Dahn F. Caldwell** Title **Office Administator II** Date **7/01/08**

(This space for Federal or State office use)

Approved by: Title Date

Conditions of approval, if any

RECEIVED
JUL 07 2008

State of Utah
Division of Oil, Gas and Mining

ENTITY ACTION FORM - FORM 6

OPERATOR ACCT. No. N-5085

OPERATOR: **Questar Exploration & Production Co.**
ADDRESS: **11002 East 17500 South**
Vernal, Utah 84078 (435)781-4342

Action Code	Current Entity No.	New Entity No.	API Number	Well Name	QQ	SC	TP	RG	County	Spud Date	Effective Date
A	99999	16957	43-047-39040	WV 8D 15 8 21	~~NESE~~ SENE	15	8S	21	Uintah	6/28/08	7/14/08
WELL 1 COMMENTS: DKTA											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

CONFIDENTIAL

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

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

(3/89)

RECEIVED
JUL 07 2008
DIV. OF OIL, GAS & MINING

Signature

Office Administrator II 7/01/08
Title Date

Phone No. **(435)781-4342**

CONFIDENTIAL

CONFIDENTIAL

Form 3160-5
(November 1994)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

5. Lease Serial No.
UTU-0807

6. If Indian, Allottee or Tribe Name
UTE TRIBE

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

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
WV 8D-15-8-21

2. Name of Operator
QUESTAR EXPLORATION & PRODUCTION COMPANY

9. API Well No.
43-047-39040

3a. Address
11002 East 17500 South, Vernal, UT 84078

3b. Phone No. *(include area code)*
435-781-4331

10. Field and Pool, or Exploratory Area
WONSITS VALLEY

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
2609' FSL 289' FEL, NESE, SECTION 15, T8S, R21E

11. County or Parish, State
UINTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operations (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.)

QUESTAR EXPLORATION AND PRODUCTION COMPANY (QEP) REQUESTS AUTHORIZATION TO SIDETRACK THIS WELLBORE. WE BEGAN EXPERIENCING PROBLEMS WITH THE SURVEY TOOL ON JULY 22, 2008 @ 2051'. QEP RAN A GYRO SURVEY TO CONFIRM THE WIRELINE SURVEYS. FROM THE GYRO SURVEY WE ARE OUT 11.59 DEGREES AT 1,991'

QEP PROPOSES TO SET A 500' CEMENT PLUG FROM 1600' TO 1100' AND BEGIN DRILLING OPERATION KICKING OFF FROM THE TOP OF CEMENT PLUG AND CONTINUING DRILLING OPERATIONS TO APPROVED BOTTOM HOLE LOCATION TO A TOTAL DEPTH OF 16,971'.

THE PROPOSED CEMENT PLUG WOULD BE APPROXIMATELY:
400 SX OF CLASS "G", 15.8 PPG CEMENT WITH A YIELD OF 1.15 CUFT/SX.

COPY SENT TO OPERATOR
Date: 7·23·2008
Initials: KS

FOR TECHNICAL QUESTIONS PLEASE CONTACT JOHN W. OWEN, DRILLING CONSULTANT @ 303-308-3054.

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

Name *(Printed/Typed)*	Title
Jan Nelson	Regulatory Affairs
Signature: Jan Nelson	Date: July 23, 2008

RECEIVED
JUL 23 2008
DIV. OF OIL, GAS & MINING

THIS SPACE FOR FEDERAL OR STATE 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

Accepted by the Utah Division of Oil, Gas and Mining
Date: 7/23/08
By:

Federal Approval Of This Action Is Necessary

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.

(Instructions on reverse)

43-047-39040
15 8S 21E

CONFIDENTIAL

QUESTAR

Operations Summary Report

Legal Well Name: WV 8D-15-8-21 STO 1
Common Well Name: WV 8D-15-8-21 STO 1
Event Name: DRILLING
Contractor Name: Unit Drilling Co.
Rig Name: UNIT

Start: 7/2/2008
Rig Release:
Rig Number: 232

Spud Date: 6/28/2008
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
7/2/2008	06:00 - 10:00	4.00	LOC	2	DRLCON	DRILL 30" HOLE 88' DEEP AND SET 20' PIPE AND CEMENT WITH READY MIX.
	10:00 - 00:00	14.00	DRL	9	DRLSUR	DRILL 17 1/2" HOLE FROM 88' TO 548'. 460'. BLOW DOWN HOLE.
	00:00 - 02:00	2.00			DRLSUR	LAY DOWN DRILL STRING.
	02:00 - 04:00	2.00	CSG	2	CSGSUR	RUN 12 JOINTS OF 13 3/8', J-55, 54.5#, ST&C AS FOLLOWS: SHOE AT 514' FLOAT COLLAR AT 467'. RAN 3 CENTRALIZERS FRO 505' TO 380' AND ONE AT 125'.
	04:00 - 06:00	2.00	CMT	2	CSGSUR	CEMENT SURFACE CASING AS FOLLOWS: PUMPED 60 BBL WATER, 20 BBL OF GEL WATER, 500 SKS TYPE G, 102.4 BBL CEMENT 15.8 PPG, YEALD 1.15, 5 GAL/SK. BUMP PLUG TO 1100PSI OK, FLOATS HELD, CEMENT BACK 13 BBL.
	06:00 -				CSGSUR	NOTIFY MICHAEL LEE ON 6/26/2008 AT 08:30 HOURS FOR SPUD CONDUCTOR ON 6/28/2008 AT 10:00 HOURS. NOTIFY STATE CAROL DANIELS ON 6/26/2008 AT 08:35 HOURS FOR CONDUCTOR SPUD. LEFT VOICE MAIL 1-801-538-5284. NOTIFY JAN NEILSON AT RED WASH. NOTIFY JAMIE SPARGER BLM FOR RUNNING CASING AND CEMENTING ON 6/30/20008 AT 12:10 HOURS. RUN CASING AND CEMENTING ON 07/01/2008 AT 03:00 . RIG OPERATIONS WERE SHUT DOWN FOR NO SPARK ARESTORS. JAMIE WAS NOTIFYED AGAIN ON 07/01/2008 IN PERSON ON LOCATION FOR RUNNING CASING AND CEMENT ON 07/02/2008 AT 03:00 HOURS. CALLED DAWN CADWELL WITH WELL INFORMATION, CASING AND CEMENTING.
7/9/2008	06:00 - 18:00	12.00	LOC	4	RDMO	RIG DOWN FLOOR // LAY DERRICK OVER // RIG DOWN MOTOR PACKAGE // PUMP SHEDS & OUT BUILDING 65% RIG DOWN // 0 HAULED
	18:00 - 06:00	12.00			RDMO	WAIT ON DAYLIGHT
7/10/2008	06:00 - 18:00	12.00	LOC	4	RDMO	HELD SAFETY MEETING // TAKE OFF MUD EQUIPMENT & LOAD OUT MUD TANKS // RIG DOWN & LOAD OUT BAR HOPPERS // UNSTRING BLOCKS & UNBRIDLE ALEGS & LAY THEM OVER // SEPERATE MOTOR PAKAGE (HAD 4 HAUL TRUCKS & CRANE & BED TRUCK & POLE TRUCK) 80 % RIG DOWN & 10% HAULED
	18:00 - 06:00	12.00			RDMO	WAIT ON DAY LIGHT
7/11/2008	06:00 - 18:00	12.00	LOC	4	RDMO	HAUL MOTOR PACKAGE // HAUL PUMP// HAUL MATTS// TAKE OFF DRAWORKS & TOP SUBS & A-LEGS // RIG DOWN BOPS & PUT ON CAMRONS NIGHT CAP (HAD 10 HAUL TRUCKS TODAY) HAUL 30% RIG DOWN 90%
	18:00 - 06:00	12.00	LOC	4	RDMO	WAIT ON DAY LIGHT
7/12/2008	06:00 - 18:00	12.00	LOC	4	RDMO	HELD SAFETY METTING // HAULED 9 LOADS TO NEW LOCATION // HAUL OFF SUB & MATTS & OUT BUILDING & SEPERATE DERRICK FOR TRUCKS // RIG UP SET MATS PUMP // MOTORS PACKAGE (100% RIG DOWN & 60 % HAULED 15% RIG UP) HAULED 1 MAN CAMP TO DINASOUR
	18:00 - 06:00	12.00	LOC	3	RDMO	WAIT ON DAY LIGHT
7/13/2008	06:00 - 18:00	12.00	LOC	4	RDMO	HELD SAFETY MEETING// (80% HAULED 25% RIG UP)STACK SUB & PULL WIRES
	18:00 - 06:00	12.00	LOC	4	RDMO	WAIT ON DAY LIGHT
7/14/2008	06:00 - 18:00	12.00	LOC	4	MIRU	HELD SAFETY MEETING// RIG UP SUBS & FROGS & DRAWORKS & BOPS & SET BUILDING & SET UP CAMPS ON LOCATION & HAULED THE OTHER MAN CAMP TO DINASOUR (100 % HAULED

Operations Summary Report

Legal Well Name: WV 8D-15-8-21 STO 1
Common Well Name: WV 8D-15-8-21 STO 1 Spud Date: 6/28/2008
Event Name: DRILLING Start: 7/2/2008 End:
Contractor Name: Unit Drilling Co. Rig Release: Group:
Rig Name: UNIT Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
7/14/2008	06:00 - 18:00	12.00	LOC	4	MIRU	40% RIGED UP)
	18:00 - 06:00	12.00	LOC	4	MIRU	WAIT ON DAYLIGHT
7/15/2008	06:00 - 18:00	12.00	LOC	4	MIRU	HELD SAFETY METTING // GENERAL RIG UP // PUT FLOOR TOGETHER // ALEGS // BRIDLE UP // PUT DERRICK TOGETHER & STRING UP // TOP DOG HOUSE & SET PITS & HOPPER HOUSE & DUG DITCHES AROUND RIG (65% RIGGED UP & WELDERS WORKING ON MUD TANKS)
	18:00 - 06:00	12.00	LOC	4	MIRU	WAIT ON DAY LIGHT
7/16/2008	06:00 - 18:00	12.00	LOC	4	MIRU	HELD SAFETY MEETING & SET SHALE TANK & CHOKE HOUSE & GAS BUSTER FINISH RIG UP ON DERRICK & INSPECT IT & RAISE DERRICK & FINISH PUTTING IN SPREDDER BEAMS 80% RIG UP
	18:00 - 06:00	12.00	LOC	4	MIRU	WAIT ON DAY LIGHT
7/17/2008	06:00 - 06:00	24.00	LOC	4	MIRU	P/U TOP RAIL & SERVICE LOOP, RIG UP FLOOR, PULL ELECTRICAL CABLE, WELD ON MUD TANKS, BUILD BERM AROUND RIG, R/U LIGHTS 85% RIGED UP
7/18/2008	06:00 - 06:00	24.00	LOC	4	MIRU	R/U TOP DRIVE & MOTOR PACKAGE, SLIP BACK DRILLING LINE, R/U BAR HOPPERS & HOPPER HOUSE, R/U GAS BUSTER & FLARE LINES, SET 4 1/2 DP TUBS, WELD ON MUD TANKS 8 WELDERS WORKING ON MUD TANKS
7/19/2008	06:00 - 06:00	24.00	LOC	3	MIRU	PULL ROTARY TABLE & INSTALL ROTATING HEAD, REBUILD DRIP PAN, C/O LINERS IN MUD PUMPS, INSTALL SHAKER SLIDES & TROUGHS, PORE QUICK CERRT IN CELLER, R/U PAYSON PIT MARKERS 95% RIGGED UP 5 WELDERS WORKING ON MUD TANKS
7/20/2008	06:00 - 12:00	6.00	OTH		MIRU	REBUILD FLOW LINE, INSTALL ORBIT VALVE, R/U ACCOMPANING EQUIPMENT FOR WEATHERFORD ROTATING HEAD, FILL MUT TANKS WITH WATER "NO LEAKS", TORQUE BLOTS ON BOP, FIHISH R/U CENTRIFUGES
	12:00 - 00:00	12.00	BOP	2	MIRU	TEST BOP, TOP & BOTTOM & BLIND RAMS 250 LOW 5000 HIGH, KILL, HCR & CHOKE MANAFOLD LOW 250 , 5000 HIGH, TOP DRIVE & MUD LINES BACK TO THE PUMP 250 LOE 3500 HIGH; REPLACING 1 BOTTLE ON CLOSING UNIT;
	00:00 - 01:30	1.50	RIG	2	DRLIN1	CHANGE OUR RELAY IN TOP DRIVE PANNEL
	01:30 - 02:30	1.00	BOP	2	DRLIN1	INSTALL WEAR BUSHING
	02:30 - 06:00	3.50	TRP	1	DRLIN1	P/U BHA
7/21/2008	06:00 - 09:00	3.00	TRP	1	DRLIN1	P/U BHA
	09:00 - 09:30	0.50	RIG	2	DRLIN1	REPAIR CUPLER BETWEEN A MOTOR & DRAWWARKS
	09:30 - 10:30	1.00	TRP	1	DRLIN1	P/U BHA TAG CEMENT @ 455'
	10:30 - 11:30	1.00	OTH		DRLIN1	C/O MOUSE HOLE, INSTALL FLOW CENSOR & STROKE COUNTERS
	11:30 - 22:30	11.00	RIG	1	DRLIN1	WAIT ON WEATHERFORD LUBRICATOR POWER UNIT, SEE NOTE ON DAILY OPERATIONAL COMMENTS
	22:30 - 00:30	2.00	DRL	4	DRLIN1	DRLG CEMENT & FLOAT EQUIPMENT
	00:30 - 01:00	0.50	EQT	2	DRLIN1	CIRC & DO FIT TEST TO 11 PPG MUD
	01:00 - 03:30	2.50	RIG	2	DRLIN1	RIG UP WEATHERFORD ROTATING POWER UNIT
	03:30 - 04:00	0.50	DRL	1	DRLIN1	DRLG & OPEN HOLE F/ 514 T/ 551
	04:00 - 06:00	2.00	RIG	2	DRLIN1	RIG REPAIR
7/22/2008	06:00 - 07:00	1.00	DRL	1	DRLIN1	DRLG F/ 551 T/ 720 WOB 8/12, DHRPM 35, TDRPM 35, MOTOR .11 RPG, GPM 432, ROP 169
	07:00 - 07:30	0.50	RIG	1	DRLIN1	RIG SERVICE
	07:30 - 16:30	9.00	DRL	1	DRLIN1	DRLG F/ 720 T/ 1578 WOB 8/15, DHRPM 48, TDRPM 35, GPM 440, ROP 95

Operations Summary Report

Legal Well Name: WV 8D-15-8-21 STO 1
Common Well Name: WV 8D-15-8-21 STO 1
Event Name: DRILLING
Contractor Name: Unit Drilling Co.
Rig Name: UNIT

Start: 7/2/2008
Rig Release:
Rig Number: 232

Spud Date: 6/28/2008
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
7/22/2008	16:30 - 17:00	0.50	CIRC	1	DRLIN1	CIRC FOR SURVEY
	17:00 - 17:30	0.50	SUR	1	DRLIN1	SURVEY @ 1544 MISS RUN
	17:30 - 18:30	1.00	DRL	1	DRLIN1	DRLG F/ 1544 T/ 1673
	18:30 - 19:30	1.00	SUR	1	DRLIN1	CIRC & SURVEY @ 1639 MISS RUN
	19:30 - 23:00	3.50	DRL	1	DRLIN1	DRLG F/ 1673 T/ 1950
	23:00 - 23:30	0.50	SUR	1	DRLIN1	CIRC & SURVEY MISS RUN
	23:30 - 01:00	1.50	DRL	1	DRLIN1	DRLG F/ 1950 T/ 2051
	01:00 - 05:00	4.00	SUR	1	DRLIN1	CIRC & SURVEY
	05:00 - 06:00	1.00	TRP	2	DRLIN1	POOH
7/23/2008	06:00 - 09:00	3.00	TRP	2	DRLIN1	POOH
	09:00 - 10:00	1.00	TRP	1	DRLIN1	L/D 8" DC & RETRIVE SURVEY, "NO SURVEY"
	10:00 - 16:00	6.00	OTH		DRLIN1	TRUBLE SHOOTSURVEY PROBLEMS,
	16:00 - 22:00	6.00	TRP	2	DRLIN1	P/U MEW MONEL & TEST IN MOUSE HOLE,"OK" M/U & RIH SURVEY @ 500 MISS RUN, & 930' 1.9 DEG. AZ 149.1, & 1514' 1.4 DEG 124.6 AZ, & 2018 11.7 DEG 130.0 AZ
	22:00 - 02:30	4.50	CIRC	1	DRLIN1	CIRC & WAIT ON SLICK LINE TRUCK
	02:30 - 04:30	2.00	SUR	1	DRLIN1	R/U SLICK LINE & RUN GYRO SURVEYS EVERY 250' & R/D
	04:30 - 06:00	1.50			DRLIN1	CIRC AFTER GYRO
7/24/2008	06:00 - 08:00	2.00	CIRC	1	DRLIN1	CIRC AFTER GYRO SYRVEY,
	08:00 - 13:00	5.00	TRP	2	DRLIN1	FLOW CHECK, PUMP SLUG & POOH, L/D 8" DC, MONEL & MOTOR
	13:00 - 16:30	3.50	TRP	2	DRLIN1	CLEAM FLOOR, RIH, P/U 41 JT DP TO PLUG BACK WITH
	16:30 - 02:30	10.00	CIRC	1	DRLIN1	CIRC & WAIT ON HALLIBURTON
	02:30 - 04:30	2.00	CMT	1	DRLIN1	CIRC & R/U HALLIBURTON
	04:30 - 06:00	1.50	CMT	4	DRLIN1	HOLD PJSM, PUMP 400 SX CEMENT @ 2036 , PULL 5 STD, CIRC BOTTOMS UP @ 1566
7/25/2008	06:00 - 08:30	2.50	CMT	4	DRLIN1	PUMP 400 SX CEMENT PLUG @ 1566' PULLED 5 STANDS & CIRC BOTTOMS UP @ 1096
	08:30 - 09:30	1.00	TRP	2	DRLIN1	POOH
	09:30 - 19:30	10.00	WOT	1	DRLIN1	WOC
	19:30 - 22:30	3.00	WOT	1	DRLIN1	WOC & P/U DIRECTIONAL TOOLS & RIH TO 466' MOTOR IS BENT TO 1.83 DEG.
	22:30 - 04:30	6.00	WOT	1	DRLIN1	WOC
	04:30 - 06:00	1.50	WOT	1	DRLIN1	RIH F/ 466 T/ 1100;
7/26/2008	06:00 - 06:30	0.50	DRL	7	DRLIN1	DRESS OFF CEMENT F/ 1100 T/ 1125
	06:30 - 06:00	23.50	DRL	7	DRLIN1	ATTEMPT TO KICK OFF @ 1125' ; TIME DRLG F/ 1125 T/ 1194, @ 0400 HR 40% CEMENT & 60% FORMATION
7/27/2008	06:00 - 00:00	18.00	DRL	7	DRLIN1	SIDE TRACK F/ 1194 T/ 1233
	00:00 - 02:30	2.50	DRL	7	DRLIN1	DRLG F/ 1233 T/ 1238
	02:30 - 03:30	1.00	RIG	2	DRLIN1	WORK ON TOP DRIVE
	03:30 - 06:00	2.50	DRL	7	DRLIN1	DRLG F/ 1238 T/ 1242
7/28/2008	06:00 - 13:30	7.50	DRL	7	DRLIN1	DRLG F/ 1242 T/ 1293, WOB 4/8, DHRPM 71, TDRPM 40, MOTOR 1.86 BEND- .16 RPG. GPM 444,
	13:30 - 14:00	0.50	RIG	1	DRLIN1	RIG SERVICE
	14:00 - 06:00	16.00	DRL	7	DRLIN1	DRLG F/ 1293 T/ 1395 SAME AS ABOVE
7/29/2008	06:00 - 06:00	24.00	DRL	7	DRLIN1	DRLG F/ 1395 T/ 1698 WOB20/30, DHRPM 75/91, TDRPM 35/45, MOTOR 1.86 BEND. .16 RPMPG, 444/586 GPM,
7/30/2008	06:00 - 12:00	6.00	DRL	7	DRLIN1	DRLG F/ 1698 T/ 1860 WOB 15/30, DHRPM 93, TDRPM 40/45, GPM 586, SLIDE FOR 3.5 HR, ROT FOR 2.5 HR
	12:00 - 12:30	0.50	RIG	1	DRLIN1	RIG SERVICE
	12:30 - 20:00	7.50	DRL	7	DRLIN1	DRLG F/ 1860 T/ 1967
	20:00 - 21:00	1.00	CIRC	1	DRLIN1	CIRC & BUILD TRIP SLUG
	21:00 - 21:30	0.50	OTH		DRLIN1	FLOW CHECK & PUMP SLUG
	21:30 - 00:00	2.50	TRP	2	DRLIN1	POOH

Operations Summary Report

Legal Well Name: WV 8D-15-8-21 STO 1
Common Well Name: WV 8D-15-8-21 STO 1
Event Name: DRILLING
Contractor Name: Unit Drilling Co.
Rig Name: UNIT

Start: 7/2/2008
Rig Release:
Rig Number: 232

Spud Date: 6/28/2008
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
7/30/2008	00:00 - 01:00	1.00	TRP	2	DRLIN1	C/O BIT & MOTOR
	01:00 - 06:00	5.00	TRP	2	DRLIN1	RIH, WASH & REAM F/ 1230 T/ 1967
7/31/2008	06:00 - 15:30	9.50	DRL	7	DRLIN1	DRLG F/ 1967 TO 2232 (ALL ROTATING & SURVEY EVERY 30')(WT 8/10 - MTR 94 / TRPM 45)
	15:30 - 16:00	0.50	RIG	1	DRLIN1	RIG SERVICE & SERVICE TOP DRIVE (CHANGE OIL IN GEAR BOX)
	16:00 - 16:30	0.50	OTH		DRLIN1	PASON CHANGE OUT FLOAT PADDEL ON FLOW LINE
	16:30 - 02:00	9.50	DRL	7	DRLIN1	DRLG F/ 2232 TO 2505(ALL ROTATING & SURVEY EVERY 30')(WT 8/10 - MTR 94 / TRPM 45)
	02:00 - 03:00	1.00	RIG	2	DRLIN1	# 3 MOTOR & TOP DRIVE MOVER (TROUBLE SHOOT FUEL LOSS PROBLEM)
	03:00 - 06:00	3.00	DRL	7	DRLIN1	DRLG F/ 2505 TO 2560 (ALL ROTATING & SURVEY EVERY 30')(WT 8/10 - MTR 94 / TRPM 45)
8/1/2008	06:00 - 15:00	9.00	DRL	1	DRLIN1	DRLG F/2560 TO 2795 (ALL ROTATING & SURVEY EVERY 30' & 60')(WT 12/15 - MTR 94 / TRPM 45)
	15:00 - 15:30	0.50	RIG	1	DRLIN1	RIG SERVICE
	15:30 - 06:00	14.50	DRL	1	DRLIN1	DRLG F/2795 TO 3185 (ROTATE F/ 2795 TO 2858 / SLIDE 2858 TO 2873 / ROTATE F/ 2858 TO 3047 / SLIDE 3047 TO 3062 / ROTATE F/ 3062 TO & SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 45)
8/2/2008	06:00 - 17:30	11.50	DRL	1	DRLIN1	DRLG F/ 3185 TO 3547 (ROTATE F/ 3185 TO 3454 / SLIDE 3454 TO 3469 / ROTATE F/ 3469 TO 3516 / SLIDE 3516 TO 3531 / ROTATE F/ 3531 TO 3547 & SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 45)
	17:30 - 18:00	0.50	DRL	1	DRLIN1	RIG SERVICE
	18:00 - 06:00	12.00	DRL	1	DRLIN1	DRLG F/ 3547 TO 3930 (ROTATE F/ 3547 TO 3827 / SLIDE 3827 TO 3837 / ROTATE F/ 3837 TO 3930 SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 45)
8/3/2008	06:00 - 14:30	8.50	DRL	1	CSGIN1	DRLG F/ 3930 TO 4206 SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 45)
	14:30 - 15:00	0.50	RIG	1	CSGIN1	RIG SERVICE
	15:00 - 06:00	15.00	DRL	1	CSGIN1	DRLG F/ 4206 TO 4487 (SLIDE4206 TO 4224 ROTATE F/ 4224 TO 4330 SLIDE F/ 4330 TO 4343 ROTATE F/ 4343 TO 4353 SLIDE F/ 4353 TO 4363 ROTATE F/ 4363 TO 4393 SLIDE 4393 TO 4411ROTATE F 4411 TO 4456 SLIDE 4456 TO 4474 ROTATE 4474 TO 4474 TO 4484 SLIDE 4484 TO 4510 SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 45)
8/4/2008	06:00 - 07:30	1.50	DRL	1	DRLIN1	DRLG F/ 4510 TO 4580 SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 45) (20 TO 50' HR ROTATING & 15 TO 20'HR SLIDING)
	07:30 - 09:00	1.50	RIG	2	DRLIN1	WORK ON PUMP # 1 PUMP 6 SEATS & VALUES & SWAB // # 2 PUMP 4 SEATS & VALUES
	09:00 - 15:00	6.00	DRL	1	DRLIN1	DRLG F/ SLIDE 4580 TO 4597 ROTATE F/ 4597 TO 4643 SLIDE F/ 4643 TO 4648 ROTATE F/ 4648 TO 4670 SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 60) (20 TO 50' HR ROTATING & 15 TO 20'HR SLIDING)
	15:00 - 15:30	0.50	RIG	1	DRLIN1	RIG SERVICE & SERVICE TOP DRIVE (FUNCTION TOP PIPE RAMS)
	15:30 - 06:00	14.50	DRL	1	DRLIN1	DRLG F/ ROTATE F/ 4670 TO 4862 SLIDE F/ 4862 TO 4886 ROTATE F/ 4886 TO 4926 SLIDE F/ 4929 TO 4958 ROTATE F/ 4958 TO 5055 SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 60) (20 TO 50' HR ROTATING & 15 TO 20'HR SLIDING)
8/5/2008	06:00 - 10:30	4.50	DRL	1	DRLIN1	DRLG F/ ROTATE F/ 5055 to 5141 SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 60) (20 TO 50' HR ROTATING & 15 TO 20'HR SLIDING)

Operations Summary Report

Legal Well Name: WV 8D-15-8-21 STO 1
Common Well Name: WV 8D-15-8-21 STO 1
Event Name: DRILLING
Contractor Name: Unit Drilling Co.
Rig Name: UNIT

Start: 7/2/2008
Rig Release:
Rig Number: 232

Spud Date: 6/28/2008
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/5/2008	10:30 - 11:00	0.50	RIG	1	DRLIN1	RIG SERVICE & SERVICE TOP DRIVE
	11:00 - 13:30	2.50	DRL	1	DRLIN1	DRLG F/ ROTATE F/ 5141 TO 5176 SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 60) (20 TO 50' HR ROTATING & 15 TO 20'HR SLIDING)
	13:30 - 14:00	0.50	CIRC	1	DRLIN1	CIRCULATE BTMS UP F/TRIP
	14:00 - 14:30	0.50	CIRC	1	DRLIN1	PUMP DRY SLUG 35 BBLS
	14:30 - 19:00	4.50	TRP	10	DRLIN1	SLM ON TRIP OUT (STRAP 5177.10) TAG SOME BRIDGES COMING OUT 50K OVER 4200 TO 3600
	19:00 - 20:00	1.00	TRP	1	DRLIN1	LAY DOWN MWD TOOLS & MOTOR & MONEL
	20:00 - 22:30	2.50	TRP	1	DRLIN1	TEST SINGLE SHOT IN MOUSE HOLE & P/UP NEW MOTOR & BIT & SURFACE TEST MOTOR
	22:30 - 01:30	3.00	TRP	10	DRLIN1	TRIP IN & FILL PIPE @ 1000-3400-5018
	01:30 - 02:00	0.50	REAM	1	DRLIN1	WASH REAM 160' & 20' FILL
	02:00 - 06:00	4.00	DRL	1	DRLIN1	DRLG F/ ROTATE F/ 5055 to 5141)(WT 10-12/MTR 94 / TRPM 60)
8/6/2008	06:00 - 12:30	6.50	DRL	1	DRLIN1	DRLG F/ ROTATE F/ 5285 to 5415)(WT 10-12/MTR 94 / TRPM 60)
	12:30 - 15:00	2.50	CIRC	1	DRLIN1	CIRCULATE & 70 BBL SWEEP AROUND
	15:00 - 15:30	0.50	CIRC	1	DRLIN1	PUMP DRY PILL & CHECK FOR FLOW
	15:30 - 20:00	4.50	TRP	14	DRLIN1	SHORT TRIP 40 STANDS
	20:00 - 20:30	0.50	REAM	1	DRLIN1	WASH & REAM 5334 TO 5415
	20:30 - 22:00	1.50	CIRC	1	DRLIN1	CIRCULATE BTMS UP
	22:00 - 22:30	0.50	SUR	1	DRLIN1	WIRE LINE SURVEY
	22:30 - 00:30	2.00	CIRC	1	DRLIN1	CIRCULATE & CHECK FLOW & PUMP DRY SLUG
	00:30 - 05:00	4.50	TRP	2	DRLIN1	TRIP OUT RUN CASING
	05:00 - 06:00	1.00	BOP	1	DRLIN1	PULL WEAR BUSHING
8/7/2008	06:00 - 10:30	4.50	CSG	1	DRLIN1	HELD SAFETY MEETING & RIG UP FRANK'S CASING CREW & LAY DOWN MACHINE
	10:30 - 11:30	1.00	CSG	2	DRLIN1	WAIT ON FLOAT COLLAR (HALIBURTON SENT OUT THE WRONG ONE)
	11:30 - 20:00	8.50	CSG	2	DRLIN1	RUN 9 5/8 CASING
	20:00 - 21:00	1.00	CSG	1	DRLIN1	RIG DOWN FRANK'S CASING CREW & LAY DOWN MACHINE
	21:00 - 23:00	2.00	CIRC	1	DRLIN1	CIRCULATE & CONDITION
	23:00 - 05:00	6.00	CSG	2	DRLIN1	SET CAMRON PACK OFF & CEMENT ISOLOATION TOOL TEST AT 8000 PSI & TEST SEAL ASSY TO 5,000 PSI ALSO RIGGEN UP HALIBURTON (CASING STRING WT. 215,000 SETTING IN A-SECTION)(CASING SHOE DEPTH @ 5398)
	05:00 - 06:00	1.00	CMT	1	DRLIN1	FINISH RIGGING UP HALIBURTON
8/8/2008	06:00 - 07:00	1.00	CMT	1	DRLIN1	RIG UP HALLIBURTON CEMENT EQUIPMENT
	07:00 - 12:00	5.00	CMT	2	DRLIN1	TEST LINE TO 6,000PSI & N2 LINE TO 8,000PSI, PUMP SPACER TRAIN 50BBLS @ 5BPM, PUMP SCAVENGER CEMENT 30BBLS @ 5BPM 14.3PPG. PUMP 1st LEAD CEMENT 160BBLS @ 5BPM 14.3PPG, PUMP 2nd LEAD CEMENT 212BBLS @ 5BPM 14.3PPG, PUMP TAIL CEMENT 60BBLS @ 5BPM 14.3PPG, DROP PLUG AND BUMP PLUG WITH 385BBLS 1400PSI HOLE FOR 30MIN, PUMP CAP CEMENT 55.2BBLS @ 3BPM 14.6PPG, PUMP 3BBLS WATER DISPLACEMENT
	12:00 - 13:00	1.00	CMT	1	DRLIN1	RIG DOWN HALLIBURTON CEMENT EQUIPMENT
	13:00 - 13:30	0.50	RIG	2	DRLIN1	REPLACE # 2 GEN BREAKER
	13:30 - 14:00	0.50	RIG	1	DRLIN1	RIG SERVICE
	14:00 - 18:00	4.00	CMT	1	DRLIN1	LAY DOWN CAMRON CEMENT ASSY & INSTALL WEAR BUSHING
	18:00 - 23:30	5.50	TRP	1	DRLIN1	MAKE UP BIT, MOTOR, ROLLER REAMER, MONELAND INSPECT BHA, CHANGE OUT JAR
	23:30 - 02:00	2.50	TRP	2	DRLIN1	TRIP IN @ TAG PLUG ABOVE FLOAT 5304
	02:00 - 04:30	2.50	DRL	4	DRLIN1	TAG PLUG @ 5304 DRILL PLUG& FLOAT & CEMENT-SHOE (WT

Operations Summary Report

Legal Well Name: WV 8D-15-8-21 STO 1
Common Well Name: WV 8D-15-8-21 STO 1 Spud Date: 6/28/2008
Event Name: DRILLING Start: 7/2/2008 End:
Contractor Name: Unit Drilling Co. Rig Release: Group:
Rig Name: UNIT Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/8/2008	02:00 - 04:30	2.50	DRL	4	DRLIN1	0-5/ MTR RPMS 133/TDRPM30 // GPM 460)
	04:30 - 06:00	1.50	BOP	1	DRLIN1	CHANGE OUT ROTATING HEAD
8/9/2008	06:00 - 06:30	0.50	DRL	1	DRLIN2	DRILL F/ 5415 TO 5425 (ROP 20' HR // WT 8-10 // MTR 133 // TDRPM 40 // 110STKS //1500 PSI // 461GPM)
	06:30 - 08:00	1.50	CIRC	1	DRLIN2	CIRCULATE & CONDITION F/ F.I.T. TEST
	08:00 - 08:30	0.50	EQT	2	DRLIN2	FIT TEST 9.4PPG 1005 PSI FOR 30 MINS F/ EMW 13.0
	08:30 - 23:00	14.50	DRL	1	DRLIN2	DRILL F/ 5425 TO 5693 (ROP 18.4' HR // WT 12-14 // MTR 133 // TDRPM 40 // 110STKS // 1700 PSI // 461GPM)
	23:00 - 00:00	1.00	SUR	1	DRLIN2	PUMP SWEEP & CIRULATE & SURVEY
	00:00 - 06:00	6.00	DRL	1	DRLIN2	DRILL F/ 5693 TO 5875 (ROP 20.9' HR // WT 12-14 // MTR 133 // TDRPM 45// 110STKS // 1700 PSI // 461GPM)
8/10/2008	06:00 - 07:00	1.00	FISH	6	DRLIN2	WORK TIGHT HOLE F/ 5868 TO 5838
	07:00 - 13:30	6.50	DRL	1	DRLIN2	DRILL F/ 5868 TO 6053 (ROP 28.4' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1700 PSI // 461GPM)
	13:30 - 14:00	0.50	RIG	1	DRLIN2	RIG SERVICE & SERVICE TO DRIVE (FUNCTION ACR VALVE)
	14:00 - 16:30	2.50	DRL	1	DRLIN2	DRILL F/ 6053 TO 6146 (ROP 37.2' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1700 PSI // 461GPM)
	16:30 - 18:30	2.00	CIRC	1	DRLIN2	CIRCULATE & CONDITION HOLE
	18:30 - 20:00	1.50	DRL	1	DRLIN2	DRILL F/ 6146 TO 6175 (ROP 19.3' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1700 PSI // 461GPM)
	20:00 - 21:00	1.00	SUR	1	DRLIN2	CIRC. & SURVEY
	21:00 - 06:00	9.00	DRL	1	DRLIN2	DRILL F/ 6175 TO 6400 (ROP 19.3' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1700 PSI // 461GPM)
8/11/2008	06:00 - 08:30	2.50	DRL	1	DRLIN2	DRILL F/ 6400 TO 6550 (ROP 60' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1950 PSI // 461GPM)
	08:30 - 09:00	0.50	RIG	1	DRLIN2	RIG SERVICE & SERVICE TOP DRIVE (FUNCTION LOWER PIPE RAMS)
	09:00 - 11:30	2.50	DRL	1	DRLIN2	DRILL F/ 6550 TO 6674 (ROP 49.6' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1950 PSI // 461GPM)
	11:30 - 12:30	1.00	SUR	1	DRLIN2	CIRCULATE & SURVEY
	12:30 - 04:30	16.00	DRL	1	DRLIN2	DRILL F/ 6774 TO 7172 (ROP 24.8' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1950 PSI // 461GPM)
	04:30 - 05:30	1.00	SUR	1	DRLIN2	CIRCULATE & SURVEY
	05:30 - 06:00	0.50	DRL	1	DRLIN2	DRILL F/7172 TO 7182 (ROP 20' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1950 PSI // 461GPM) (STARTED PUMPING 25 BBL LCM SWEEPS TO CONTROLL SEEPAGE LOST APPROX. 100 BBLS IN 24 HRS)
8/12/2008	06:00 - 11:30	5.50	DRL	1	DRLIN2	DRILL F/7182 TO 7358 (ROP 32' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1950 PSI // 461GPM)
	11:30 - 12:00	0.50	RIG	1	DRLIN2	RIG SERVICE
	12:00 - 01:00	13.00	DRL	1	DRLIN2	DRILL F/7358 TO 7730 (ROP 28.6' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1950 PSI // 461GPM)
	01:00 - 02:00	1.00	SUR	1	DRLIN2	CIRULATE & SURVEY
	02:00 - 06:00	4.00	DRL	1	DRLIN2	DRILL F/7730 TO 7780 (ROP 12.5' HR // WT 12-15 // MTR 133 // TDRPM 55// 110STKS // 1950 PSI // 461GPM)(WITH NO CURRENT LOSSES)
8/13/2008	06:00 - 11:00	5.00	DRL	1	DRLIN2	DRILL F/7780 TO 7835 (ROP 11' HR // WT 12-15 // MTR 133 // TDRPM 55// 110STKS // 1950 PSI // 461GPM)(WITH NO CURRENT LOSSES)
	11:00 - 12:00	1.00	CIRC	1	DRLIN2	PUMP 80 BBL LCM SWEEP & CIRCULATE IT OUT F/ TRIP
	12:00 - 12:30	0.50	SUR	1	DRLIN2	CHECK FLOW & DROPPED SURVEY & PUMP DRY PILL
	12:30 - 19:00	6.50	TRP	10	DRLIN2	TRIP OUT
	19:00 - 20:30	1.50	TRP	1	DRLIN2	CHANGE OUT MOTOR & RAMER & BIT

Operations Summary Report

Legal Well Name: WV 8D-15-8-21 STO 1
Common Well Name: WV 8D-15-8-21 STO 1
Event Name: DRILLING
Contractor Name: Unit Drilling Co.
Rig Name: UNIT

Start: 7/2/2008
Rig Release:
Rig Number: 232

Spud Date: 6/28/2008
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/13/2008	20:30 - 22:30	2.00	TRP	2	DRLIN2	COULD NOT GET PASS WEAR PUSHING / PULLED WEAR PUSHING & DRAIN STACK TO SEE WHY / THE NEW BIT WAS OVER GUAGED & WOULD KNOT GO IN THE 9 5/8 CASING / CHANGED BIT
	22:30 - 01:30	3.00	TRP	2	DRLIN2	TRIP TO THE SHOE @ 5398
	01:30 - 02:30	1.00	RIG	6	DRLIN2	CUT DRIL LINE 125'
	02:30 - 03:00	0.50	TRP	2	DRLIN2	TRIP IN TAG TIGHT SPOT @ 5480
	03:00 - 06:00	3.00	REAM	1	DRLIN2	WASH & REAM THRU TIGHT SPOT 5480 TO 5900 & RAISE MUD WT 9.4 - 9.5
8/14/2008	06:00 - 22:00	16.00	REAM	1	DRLIN2	WASH & REAM F/ 5586 T/ 6553 RAISEING MUD WT TO 9.6 PPG
	22:00 - 22:30	0.50	TRP	2	DRLIN2	RIH F/ 6553 T/ 6813
	22:30 - 00:00	1.50	RIG	2	DRLIN2	WORK ON TOP DRIVE MOTOR
	00:00 - 01:00	1.00	TRP	2	DRLIN2	RIH F/ 6813 T/ 7344
	01:00 - 02:30	1.50	REAM	1	DRLIN2	WASH & REAM F/ 7344 T/ 7835
	02:30 - 06:00	3.50	DRL	1	DRLIN2	DRLG F/ 7835 T/ 7885 WOB 8/10, MW 9.5+, GPM 440. MOTOR .26 RPG, DHRPM 114, TDRPM 55, SPP 1968, DIFF 97, ROP 14.2
8/15/2008	06:00 - 07:00	1.00	SUR	1	DRLIN2	SURVEY @ 7806, 2.4DEG, AIZ. 156.0
	07:00 - 14:30	7.50	DRL	1	DRLIN2	DRLG F/ 7885 T/ 7979 WOB 5/10, MW 9.6, GPM 460, DHRPM 120, TDRPM 55, SPP 2035, DIFF112, ROP 12.5
	14:30 - 15:00	0.50	RIG	1	DRLIN2	RIG SERVICE
	15:00 - 21:00	6.00	DRL	1	DRLIN2	DRLG F/ 7979 T/ 8053 WOB 5/10, MW 9.6, GPM 460, DHRPM 120, TDRPM 55. SPP 2050, DIFF 110, ROP12.3
	21:00 - 22:00	1.00	SUR	1	DRLIN2	SURVEY @ 7977, 2.4 DEG AIZ 153.4
	22:00 - 06:00	8.00	DRL	1	DRLIN2	DRLG F/ 8053 T/ 8135 WOB 10/15, MW 9.6, GPM 460, DHRPM 120, TDRPM 40/55, DIFF 50, 2045, ROP 10.2
8/16/2008	06:00 - 16:30	10.50	DRL	1	DRLIN2	DRLG F/8135 T/ 8195 WOB 8/15 MW 9.6, GPM 460, DHRPM 120, TDRPM 55
	16:30 - 17:30	1.00	SUR	1	DRLIN2	SURVEY @ 8100 1.8 DEG 200.3 AIZ
	17:30 - 23:00	5.50	TRP	10	DRLIN2	POOH
	23:00 - 00:00	1.00	TRP	2	DRLIN2	L/D RR, MOTOR & BIT, P/U MEW MOTOR & BIT
	00:00 - 05:00	5.00	TRP	2	DRLIN2	RIH & SAFTY WASH LAST 90'
	05:00 - 06:00	1.00	DRL	1	DRLIN2	DRLG F/ 8195 T/ 8226 WON 10/15, MW 9.7, GPM 469, DHRPM 70, TDRPM 55, DIFF 120, SPP 2186, ROP31
8/17/2008	06:00 - 17:30	11.50	DRL	1	DRLIN2	DRLG F/ 8226 T/ 8471 WOB 10/15, MW 9.7+, GPM 460. DHRPM 69, TDRPM 60, DIFF 100, SPP 2007, ROP 21.3
	17:30 - 18:00	0.50	RIG	1	DRLIN2	RIG SERVICE
	18:00 - 20:00	2.00	DRL	1	DRLIN2	DRLG F/ 8471 T/ 8502 WOB 15, MW 9.8, GPM 460, DHRPM 60, TDRPM 60, DIFF 120, SPP 2040, ROP 15.5
	20:00 - 22:30	2.50	SUR	1	DRLIN2	SURVEY @ 8442 2.0 DEG AIZ 183.2 HAD 1 MISS RUN
	22:30 - 03:00	4.50	DRL	1	DRLIN2	DRLG F/ 8502 T/ 8596 WOB 15/18, MW 9.8, GPM 482, DHRPM 72, TDRPM 65, DIFF 150, SPP 2290, ROP 20
	03:00 - 04:00	1.00	SUR	1	DRLIN2	SURVEY @ 8536 DEG 2.4 AIZ 153.8
	04:00 - 06:00	2.00	DRL	1	DRLIN2	DRLG F/ 8596 T/ 8659 WOB 18, MW 9.8, GPM 482, TDRPM 65, DIFF 101, SPP 2400, ROP 31.5
8/18/2008	06:00 - 12:30	6.50	DRL	1	DRLIN2	DRLG F/ 8659 T/ 8752, WOB 15, MW 9.8, GPM 503, DHRPM 75, TDRPM 66, DIFF 125, SPP 2390, ROP 14.3
	12:30 - 13:00	0.50	RIG	1	DRLIN2	RIG SERVICE
	13:00 - 18:00	5.00	DRL	1	DRLIN2	DRLG F/ 8752 T/ 8846, WOB 15, MW 9.8, GPM 503, DHRPM 75, TDRPM 66, DIFF 145, SPP 2460, ROP 22.4
	18:00 - 19:00	1.00	SUR	1	DRLIN2	SURVEY @ 8785 DEG 0.9, AZI 196.4
	19:00 - 00:00	5.00	DRL	1	DRLIN2	DRLG F/ 8864 T/ 9002 WOB 22, MW 9.8, GPM 503, DHRPM 75, TDRPM 66, DIFF 165, SPP 2480
	00:00 - 01:00	1.00	SUR	1	DRLIN2	SURVEY @ 8942 DEG 0.6 AZI 223.6
	01:00 - 06:00	5.00	DRL	1	DRLIN2	DRLG F/ 9002 T/ 9128 WOB 22/25, MW 9.8+, GPM 503, DHRPM 75,

Operations Summary Report

Legal Well Name: WV 8D-15-8-21 STO 1
Common Well Name: WV 8D-15-8-21 STO 1
Spud Date: 6/28/2008
Event Name: DRILLING
Start: 7/2/2008
End:
Contractor Name: Unit Drilling Co.
Rig Release:
Group:
Rig Name: UNIT
Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/18/2008	01:00 - 06:00	5.00	DRL	1	DRLIN2	TDRPM 66, DIFF 100, SPP 2490, ROP 25.2
8/19/2008	06:00 - 11:00	5.00	DRL	1	DRLIN2	DRLG F/ 9128 T/ 9220 WOB 22/25, MW 9.8+, GPM 502, DHRPM 75, TDRPM 66, DIFF145, SPP 2430, ROP 18.4
	11:00 - 11:30	0.50	RIG	1	DRLIN2	RIG SERVICE
	11:30 - 15:00	3.50	DRL	1	DRLIN2	DRLG F/ 9220 T/ 9315 WOB 22/25, MW 9.8+, GPM 502, DHRPM 75, TDRPM 65, DIFF 140, SPP 2420, ROP 27.
	15:00 - 15:30	0.50	OTH		DRLIN2	C/O ROTATING HEAD
	15:30 - 17:30	2.00	RIG	2	DRLIN2	C/O WASH PIPE ON SWIVEL
	17:30 - 06:00	12.50	DRL	1	DRLIN2	DRLG F/ 9315 T/ 9566 WOB 20/25, MW 9.7, GPM 502, DHRPM 75, TDRPM 65, DIFF 122, SPP 2480, ROP 20
8/20/2008	06:00 - 08:00	2.00	DRL	1	DRLIN2	DRLG F/ 9566 T/ 9596 WOB 20/22, MW 9.7+, GPM 502, DHRPM 75, TDRPM 66, DIFF 145, SPP 2500, ROP 15
	08:00 - 08:30	0.50	RIG	1	DRLIN2	RIG SERVICE
	08:30 - 09:30	1.00	SUR	1	DRLIN2	SURVEY @ 9522
	09:30 - 23:30	14.00	DRL	1	DRLIN2	DRLG F/ 9596 T/ 9939 WOB 20, MW 9.9, MOTOR .15, GPM 502, DHRPM 75, TDRPM 66, DIFF 377, SPP 2537, BACK GROUND GAS 800 UNITS, NO FLARE, ROP 24.5
	23:30 - 00:00	0.50	CIRC	1	DRLIN2	CIRC FOR SURVEY
	00:00 - 01:00	1.00	SUR	1	DRLIN2	SURVEY @ 9833 DEG 2.9, AZI 157.2
	01:00 - 06:00	5.00	DRL	1	DRLIN2	DRLG F/ 9938 T/ 10,000 WOB 15/18, MW 9.9, GPM502, DHRPM75, TDRPM 66/70, DIFF 90, SPP 2650, BGG 839 UNITS, ROP 12.4
8/21/2008	06:00 - 06:30	0.50	DRL	1	DRLIN2	DRLG F/ 10,000 T/ 10011 WOB 18, GPM 502, MOTOR .15, DHRPM 75, TDRPM 70, DIFF 159, SPP 2780, BGG 650, ROP 22.0
	06:30 - 07:00	0.50	CIRC	1	DRLIN2	CIRC BOTTOMS UP, MIX TRIP SLUG
	07:00 - 07:30	0.50	SUR	1	DRLIN2	FLOW CHECK & DROP SURVEY
	07:30 - 13:00	5.50	TRP	2	DRLIN2	POOH, L/D MOTOR & BIT
	13:00 - 13:30	0.50	OTH		DRLIN2	PULL WEAR BUSHING
	13:30 - 21:00	7.50	BOP	2	DRLIN2	R/U & TEST BOP, R/D TESTER. LOWER KELLY VALVE,UPPER KELLY, DART VALVE,TIW,PIPE RAMS ,INSIDE OUT SIDE, CHOKE MANIFLOD, BLINE RAMS ,SUPER CHOKE, LOW 250, HIGH 5,000#, ANNULAR 250 LOW, HIGH 2,500, BACK TO PUMPS 3,000#, RCOVERY TIME ON ACCUMULATOR 1MIN 50 SEC
	21:00 - 21:30	0.50	OTH		DRLIN2	INSTALL WEAR BUSHING
	21:30 - 22:00	0.50	RIG	1	DRLIN2	RIG SERVICE
	22:00 - 06:00	8.00	RIG	2	DRLIN2	WORK ON TOP DRIVE MOTOR & SEALS IN UPPER & LOWER HYD MOTORS ON TOP DRIVE
8/22/2008	06:00 - 08:30	2.50	RIG	2	DRLIN2	WORK ON TOP DRIVE HYD MOTORS
	08:30 - 10:30	2.00	TRP	2	DRLIN2	RIH
	10:30 - 11:00	0.50	RIG	1	DRLIN2	RIG SERVICE
	11:00 - 15:00	4.00	TRP	2	DRLIN2	RIH, WORK TIGHT HOLE @ 1947
	15:00 - 15:30	0.50	REAM	1	DRLIN2	WASH & REAM F/ 9881 T/ 10011
	15:30 - 06:00	14.50	DRL	1	DRLIN2	DRLG F/ 10011 T/ 10430 WOB 8/15, MW 9.9+, GPM 419, MOTOR .24 RPG, DHRPM 100, TDRPM 60, DIFF 150, SPP 2020, BGG 4800 U, ROP 28.9
8/23/2008	06:00 - 14:30	8.50	DRL	1	DRLIN2	DRLG F/ 10430 T/ 10537 WOB 15/18, MW 10.1+, GPM 419, MOTOR .24 RPG, DHRPM 100, TDRPM 60, DIFF 103, SPP 1990, BGG 3660 U, ROP 12.5
	14:30 - 15:00	0.50	RIG	1	DRLIN2	RIG SERVICE
	15:00 - 16:00	1.00	SUR	1	DRLIN2	SURVEY @ 10471 DEG 1.0, AZ 150.38
	16:00 - 06:00	14.00	DRL	1	DRLIN2	DRLG F/ 10537 T/ WOB 20, MW 10.2, GPM 419, DHRPM 100, TDRPM 60, DIFF 200, SPP 2140, BGG 3144, ROP
8/24/2008	06:00 - 11:00	5.00	DRL	1	DRLIN2	DRLG F/ 10748 T/ 10802 WOB 18/25, MW 8.3, GPM 419,MOTOR .24 RPG, DHRPM 100, TDRPM 60, DIFF 175, SPP 2100, BGG 1066, ROP

Operations Summary Report

Legal Well Name: WV 8D-15-8-21 STO 1
Common Well Name: WV 8D-15-8-21 STO 1
Event Name: DRILLING
Contractor Name: Unit Drilling Co.
Rig Name: UNIT

Start: 7/2/2008
Rig Release:
Rig Number: 232

Spud Date: 6/28/2008
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/24/2008	06:00 - 11:00	5.00	DRL	1	DRLIN2	10.8
	11:00 - 12:30	1.50	CIRC	1	DRLIN2	CIRC BOTTOMS UP & BUILD TRIP SLUG
	12:30 - 13:00	0.50	OTH		DRLIN2	FLOW CHECK , DROP SURVEY @ 10770, 1.1 DEG, 184.7 AZ
	13:00 - 18:00	5.00	TRP	2	DRLIN2	POOH
	18:00 - 21:30	3.50			DRLIN2	C/O BIT & MOTOR & RIH
	21:30 - 22:30	1.00	RIG	6	DRLIN2	CUT DRLG LINE
	22:30 - 01:00	2.50	TRP	1	DRLIN2	RIH T/ 10602
	01:00 - 02:30	1.50	REAM	1	DRLIN2	WASH & REAM F/ 10602 T/ 10802
	02:30 - 06:00	3.50	DRL	1	DRLIN2	DRLG F/ 10802 T/ 10871 WOB 15, MW 10.3, GPM 436, MOTOR .22 RPG, DHRPM 96, TDRPM 60, DIFF 174, SPP 2260, BGG 850, ROP
8/25/2008	06:00 - 10:30	4.50	DRL	1	DRLIN2	DRLG F/ 10871 T/ 11001 WOB 8/18, MW 10.2+, GPM 426, MOTOR .22 GPR, DHRPM 96, TDRPM 60, DIFF 230, SPP 2335, ROP 28.8
	10:30 - 11:00	0.50	RIG	1	DRLIN2	RIG SERVICE
	11:00 - 06:00	19.00	DRL	1	DRLIN2	DRLG F/ 11001 T/ 11446 WOB15/18, MW 10.3, 426 GPM, DHRPM 96, TDRPM 60, DIFF 230, SPP 22325, ROP 23.4
8/26/2008	06:00 - 12:00	6.00	DRL	1	DRLIN2	DRLF F/ 11446 T/ 11566 WOB 15/20, MW 10.4+, GPM 423, MOTOR .22, DHRPM 93, TDRPM 60, DIFF 110, SPP 2290, BGG 2304, ROP 20
	12:00 - 12:30	0.50	RIG	1	DRLIN2	RIG SERVICE
	12:30 - 13:00	0.50	DRL	1	DRLIN2	DRLG F/ 11566 T/ 11585 WOB 20/25, MW 10.4+, GPM 423,
	13:00 - 14:00	1.00	CIRC	1	DRLIN2	CIRC & BULD TRIP SLUG
	14:00 - 14:30	0.50	OTH		DRLIN2	FLOW CHECK & DROP SURVEY
	14:30 - 19:00	4.50	TRP	10	DRLIN2	POOH
	19:00 - 20:30	1.50	RIG	2	DRLIN2	C/O HYDRAULIC HOES ON TOP DRIVE
	20:30 - 22:00	1.50	TRP	10	DRLIN2	POOH
	22:00 - 03:30	5.50	TRP	10	DRLIN2	C/O BIT & RIH
	03:30 - 04:00	0.50	REAM	1	DRLIN2	SAFTY WASH F/ 10150 T/ 11585
	04:00 - 06:00	2.00	DRL	1	DRLIN2	DRLG F/ 11585 T/11611 WOB 8/10, MW 10.4+, GPM 418, MOTOR .22 RPG, DHRPM 92, TDRPM 60, DIFF 50, SPP 2170, ROP 13
8/27/2008	06:00 - 10:00	4.00	DRL	1	DRLIN2	DRLG F/ 11611 T/ 11715 WOB 8/15, MW 14+, GPM 418, MOTOR .22 RPG, DHRPM 92, TDRPM 60, DIFF 141, SPP 2244, BGG 2870, ROP 26
	10:00 - 13:00	3.00	CIRC	1	DRLIN2	TOOK 18 BBL KICK & CIRC OUT GAS 40 ft FLARE mAX GAS 8050 UT
	13:00 - 13:30	0.50	RIG	1	DRLIN2	RIG SERVICE
	13:30 - 02:00	12.50	DRL	1	DRLIN2	DRLG F/ 11715 T/ 11866 WOB 15, MW 10.5, GPM 418, DHRPM 92, TDRPM 60, DIFF 182, SPP2245, ROP 14.3
	02:00 - 03:00	1.00	CIRC	1	DRLIN2	CIRC & BUILD ECD PILL & SPOT
	03:00 - 03:30	0.50	OTH		DRLIN2	FLOW CHECK
	03:30 - 06:00	2.50	TRP	2	DRLIN2	POOH
8/28/2008	06:00 - 10:30	4.50	TRP	2	DRLIN2	TRIP OUT & LAY DOWN MOTOR & BIT (FUNCTION BLIND RAMS & UPPER PIPE RAMS)
	10:30 - 11:00	0.50	RIG	1	DRLIN2	RIG SERVICE & SERVICE TOP DRIVE
	11:00 - 12:00	1.00	TRP	1	DRLIN2	WAIT ON MOTOR & IMPREG BIT
	12:00 - 18:00	6.00	ISP	1	DRLIN2	INSPECT BHA (LAY DOWN 2 JOINTS HWDP HAD WASH PIN & BOX)
	18:00 - 20:00	2.00	TRP	2	DRLIN2	TRIP IN & FILL PIPE EVERY 3 ROWS TO@ 5820
	20:00 - 20:30	0.50	CIRC	1	DRLIN2	CIRCULAUTE BTMS UP @ 5802 (10-15' FLAIR)
	20:30 - 23:30	3.00	TRP	2	DRLIN2	STAGE IN THE HOLE F/ 5802 TO 11597 & STAGE OUT ECD PILL(60-80'FLAIR)
	23:30 - 05:00	5.50	REAM	1	DRLIN2	WASH & REAM F/ 11,597 TO 11,866 (WT 2-4K / MTR 377 / TDRP 40-45 / GPM 377 /) RAISE MUD WT 10.8
	05:00 - 06:00	1.00	DRL	1	DRLIN2	WASH & REAM F/ 11,597 TO 11,866 (WT 2-4K / MTR 377 / TDRP 40-45 / GPM 377 /) RAISE MUD WT 11 PGM

Operations Summary Report

Legal Well Name: WV 8D-15-8-21 STO 1
Common Well Name: WV 8D-15-8-21 STO 1 Spud Date: 6/28/2008
Event Name: DRILLING Start: 7/2/2008 End:
Contractor Name: Unit Drilling Co. Rig Release: Group:
Rig Name: UNIT Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/29/2008	06:00 - 11:30	5.50	DRL	1	DRLIN2	DRLG F/11,866' TO 11,878' (12 FT. AT 2.1 FPH)
	11:30 - 12:00	0.50	RIG	1	DRLIN2	RIG SERVICE
	12:00 - 17:30	5.50	DRL	1	DRLIN2	DRLG. F/ 11,878' TO 11,909' (31 FT. AT 5.6 FPH)
	17:30 - 23:30	6.00	CIRC	2	DRLIN2	LOST CIRCULATION AT 11,909' MIXING AND PUMPING LCM SWEEPS,CONTINUED TO TAKE FLUID AND COULD NOT GAIN ON VOLUME.
	23:30 - 00:00	0.50	TRP	2	DRLIN2	PULL 5 STD'S DRILL PIPE TO GET ABOVE LOSS ZONE
	00:00 - 03:30	3.50	CIRC	2	DRLIN2	BUILDING VOLUME,RAISE WEIGHT IN PRE-MIX,PUMPING 5 BBL'S EVERY 15 MIN AND ROTATING PIPE
	03:30 - 06:00	2.50			DRLIN2	DRILL F/ 11909 TO 11918 (9 FT @ 3.6 FTH) LOST APPROX 670 BBLS IN 24 HRS BUILD VOLUME 11% LCM IN SYSTEM
8/30/2008	06:00 - 17:30	11.50	DRL	1	DRLIN2	DRLG. F / 11,918' TO 11,971' (53 FT. @4.6 FPH)WOB 12/14,RPM 62,SPM 100 AT 2750 PSI,419 GPM
	17:30 - 18:00	0.50	RIG	1	DRLIN2	RIG SERVICE
	18:00 - 04:00	10.00	DRL	1	DRLIN2	DRLG. F / 11,971' TO 12,050' (79 FT. @7.9 FPH)WOB 12/14,RPM 62,SPM 100 AT 2750 PSI,419 GPM
	04:00 - 06:00	2.00	CIRC	5	DRLIN2	CIRCULATE UP SAMPLES AT 12,050'
8/31/2008	06:00 - 07:30	1.50	CIRC	5	DRLIN2	CIRC. BTMS UP - PUMP & SPOT ECD PILL
	07:30 - 08:30	1.00	TRP	2	DRLIN2	TRIP OUT TO 10,567' (15 STD'S)
	08:30 - 10:30	2.00	CIRC	1	DRLIN2	CIRC. BTM'S UP
	10:30 - 12:30	2.00	TRP	2	DRLIN2	TRIP OUT TO CSG. SHOE
	12:30 - 13:00	0.50	RIG	1	DRLIN2	RIG SERVICE & FLOW CHECK
	13:00 - 16:30	3.50	TRP	2	DRLIN2	FINISH TRIP OUT - L.DOWN MTR. & MONEL & D.COLLAR
	16:30 - 02:30	10.00	LOG	1	DRLIN2	HOLD SAFETY MTG. W/ ALL PERSONNEL & RIG UP & LOG WITH HALIBURTON,LOGGERS DEPTH AT 12,038',HAD TOOL FAILURE 2000 FT OFF BTM,P.O.O.H WITH TOOLS AND REPLACE BAD TOOLS,RUN BACK IN AND COMPLETE LOGGING RUN.
	02:30 - 06:00	3.50	TRP	2	DRLIN2	PICK UP RR BIT # 12 AND TRIP IN
9/1/2008	06:00 - 07:00	1.00	RIG	6	DRLIN2	SLIP & CUT DRILLING LINE
	07:00 - 08:00	1.00	CIRC	1	DRLIN2	CIRC. BTMS UP AT CASING SHOE (5400')
	08:00 - 11:30	3.50	TRP	2	DRLIN2	TRIP IN HOLE (STAGE IN)
	11:30 - 12:00	0.50	RIG	1	DRLIN2	RIG SERVICE
	12:00 - 14:00	2.00	CIRC	1	DRLIN2	CIRC. BTMS UP AND GAS OUT (60'-80' FLARE)
	14:00 - 14:30	0.50	CIRC	1	DRLIN2	SPOT 100 BBL ECD PILL AT 13 PPG. W/ 15% LCM
	14:30 - 16:00	1.50	TRP	3	DRLIN2	LAY DOWN 45 JT'S DRILL PIPE (SAFETY MTG W/ ALL PERSONNEL)
	16:00 - 17:00	1.00	CIRC	1	DRLIN2	CIRC. GAS OUT
	17:00 - 01:00	8.00	TRP	3	DRLIN2	PUMP PILL & L.D.D.P
	01:00 - 01:30	0.50	OTH		DRLIN2	PULL WEAR BUSHING
	01:30 - 02:00	0.50	RIG	7	DRLIN2	HELD SAFETY MTG. WITH ALL PERSONNEL
	02:00 - 04:30	2.50	CSG	1	DRLIN2	RIG UP CASING CREW
	04:30 - 06:00	1.50	CSG	2	DRLIN2	MAKE UP SHOE TRACK & RUN 7" CASING
	06:00 -				DRLIN2	NOTIFY JAMEY WITH BLM ON RUNNING 7" CASING AND CEMENTING ON 8/31/2008 AT 0845 HR'S ON VOICE MAIL MESSAGE.
9/2/2008	06:00 - 06:30	0.50	RIG	7	CSGIN2	HELD SAFETY MTG. W/ DAYLIGHT CREW & ALL CASING PERSONNEL
	06:30 - 15:00	8.50	CSG	2	CSGIN2	FINISH RUNNING 7" CASING(77 JT'S 29#LT&C,HCP 110,205 JT'S 26# LT&C,HCP-110 LANDED AT 12,039.15,ST.WT,252,000#
	15:00 - 16:00	1.00	CSG	1	CSGIN2	RIG DOWN CASING CREW
	16:00 - 20:00	4.00	CIRC	1	CSGIN2	CIRCULATE GAS OUT
	20:00 - 20:30	0.50	CSG	1	CSGIN2	RIG DOWN FILL TOOL
	20:30 - 23:00	2.50			CSGIN2	PULL LANDING JT. - INSTALL CASING ISOLATION BUSHING & ISOLATION TOOL

Operations Summary Report

Legal Well Name: WV 8D-15-8-21 STO 1
Common Well Name: WV 8D-15-8-21 STO 1
Spud Date: 6/28/2008
Event Name: DRILLING
Start: 7/2/2008
End:
Contractor Name: Unit Drilling Co.
Rig Release:
Group:
Rig Name: UNIT
Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
9/2/2008	23:00 - 02:00	3.00	CMT	1	CSGIN2	RIG UP CEMENTERS
	02:00 - 02:30	0.50	RIG	7	CSGIN2	SAFETY MTG. WITH CEMENTERS & RIG PERSONNEL
	02:30 - 04:30	2.00	CMT	2	CSGIN2	SWAP CEMENT LINES FROM C SECTION TO B SECTION
	04:30 - 05:00	0.50	CMT	2	CSGIN2	RETEST CEMENT NITROGEN LINES,CEMENT TO 6000 PSI & 8000 PSI ON N2
	05:00 - 06:00	1.00	CMT	2	CSGIN2	CEMENT 7" CASING
9/3/2008	06:00 - 10:30	4.50	CMT	2	CSGIN2	FINISH CEMENTING 7" CASING,HAD CEMENT TO SURFACE AFTER PUMPING 340 BBL'S OF DISPLACEMENT MUD,HAD RETURNS THROUGHOUT JOB,WENT 2.5 BBL'S OVER DISPLACEMENT AND BUMP PLUG,TEST CASING FOR 30 MIN. FLOATS NOT HOLDING,PUMP BACK UP TO 600 PSI WAIT 5 MIN. STILL NOT HOLDING,PRESSURE BACK UP 600 PSI AND LEAVE PRESSURE ON CASING.
	10:30 - 11:30	1.00	CMT	1	CSGIN2	RIG DOWN HALIBURTON
	11:30 - 17:00	5.50	WOT	1	CSGIN2	OPEN VALVE ON CEMENT HEAD,TOTAL BBL'S BACK 6.0,MONITOR CASING FOR RETURNS FOR ONE HR. NO GAIN ON FLUID
	17:00 - 18:00	1.00	WOT	1	CSGIN2	RIG DOWN CAMERONS CEMENT ISOLATION TOOL
	18:00 - 06:00	12.00	BOP	1	CSGIN2	GET BOPS READY TO CHANGE OUT RAMS ON 13 5/8 STACK , PUT VBR RAMS IN TOP & BOTTOM PIPE RAMS & GET PITS SYSTEM READY FOR OIL BASE MUD (NOTIFY JAMIE SPARKER @ 8:20 PM ABOUT TESTING BOPS LEFT VOICE MAIL9-2-2008)

Form 3160-5
(November 1994)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

5. Lease Serial No.
UTU-0807

6. If Indian, Allottee or Tribe Name
UTE TRIBE

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

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
WV 8D-15-8-21

2. Name of Operator
Questar Exploration & Production Co. *Contact: Jan Nelson*

9. API Well No.
43-047-39040

3a. Address
11002 East 17500 South Vernal, Utah 84078

3b. Phone No. *(include area code)*
435-781-4331

10. Field and Pool, or Exploratory Area
WONSITS VALLEY

3
2609' FSL 298 289' FEL, NESE, SECTION 15, T8S, R21E

11. County or Parish, State
UINTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other CASING DEPTH CHANGE
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operations (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.)

Questar Exploration & Production Company is requesting permission to change the currently approved 7" casing depth of 12,535' to 12,120' due to lost circulation issues.

COPY SENT TO OPERATOR
Date: 9.23.2008
Initials: KS

All technical questions can be addressed to John Owens, Drilling Engineer, at (303) 308-3054.

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

Name *(Printed/Typed)*	Title
Laura Bills	Associate Regulatory Affairs Analyst
Signature *Laura Bills*	Date August 29, 2008

THIS SPACE FOR FEDERAL OR STATE USE

Approved by	Title	Date
	Pet. Eng.	9/17/08

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 DOGM

Federal Approval Of This Action Is Necessary

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.

(Instructions on reverse)

RECEIVED
SEP 04 2008
DIV. OF OIL, GAS & MINING

CONFIDENTIAL

43-047-39090
15 8S 21E

Questar E & P

Operations Summary Report

Legal Well Name: WV 8D-15-8-21 STO 1
Common Well Name: WV 8D-15-8-21 STO 1 — Spud Date: 6/28/2008
Event Name: DRILLING — Start: 7/2/2008 — End:
Contractor Name: Unit Drilling Co. — Rig Release: — Group:
Rig Name: UNIT — Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
7/2/2008	06:00 - 10:00	4.00	LOC	2	DRLCON	DRILL 30" HOLE 88' DEEP AND SET 20' PIPE AND CEMENT WITH READY MIX.
	10:00 - 00:00	14.00	DRL	9	DRLSUR	DRILL 17 1/2" HOLE FROM 88' TO 548'. 460'. BLOW DOWN HOLE.
	00:00 - 02:00	2.00			DRLSUR	LAY DOWN DRILL STRING.
	02:00 - 04:00	2.00	CSG	2	CSGSUR	RUN 12 JOINTS OF 13 3/8', J-55, 54.5#, ST&C AS FOLLOWS: SHOE AT 514' FLOAT COLLAR AT 467'. RAN 3 CENTRALIZERS FRO 505' TO 380' AND ONE AT 125'.
	04:00 - 06:00	2.00	CMT	2	CSGSUR	CEMENT SURFACE CASING AS FOLLOWS: PUMPED 60 BBL WATER, 20 BBL OF GEL WATER, 500 SKS TYPE G, 102.4 BBL CEMENT 15.8 PPG, YEALD 1.15, 5 GAL/SK. BUMP PLUG TO 1100PSI OK, FLOATS HELD, CEMENT BACK 13 BBL.
	06:00 -				CSGSUR	NOTIFY MICHAEL LEE ON 6/26/2008 AT 08:30 HOURS FOR SPUD CONDUCTOR ON 6/28/2008 AT 10:00 HOURS. NOTIFY STATE CAROL DANIELS ON 6/26/2008 AT 08:35 HOURS FOR CONDUCTOR SPUD. LEFT VOICE MAIL 1-801-538-5284. NOTIFY JAN NEILSON AT RED WASH. NOTIFY JAMIE SPARGER BLM FOR RUNNING CASING AND CEMENTING ON 6/30/20008 AT 12:10 HOURS. RUN CASING AND CEMENTING ON 07/01/2008 AT 03:00 . RIG OPERATIONS WERE SHUT DOWN FOR NO SPARK ARESTORS. JAMIE WAS NOTIFYED AGAIN ON 07/01/2008 IN PERSON ON LOCATION FOR RUNNING CASING AND CEMENT ON 07/02/2008 AT 03:00 HOURS. CALLED DAWN CADWELL WITH WELL INFORMATION, CASING AND CEMENTING.
7/9/2008	06:00 - 18:00	12.00	LOC	4	RDMO	RIG DOWN FLOOR // LAY DERRICK OVER // RIG DOWN MOTOR PACKAGE // PUMP SHEDS & OUT BUILDING 65% RIG DOWN // 0 HAULED
	18:00 - 06:00	12.00			RDMO	WAIT ON DAYLIGHT
7/10/2008	06:00 - 18:00	12.00	LOC	4	RDMO	HELD SAFETY MEETING // TAKE OFF MUD EQUIPMENT & LOAD OUT MUD TANKS // RIG DOWN & LOAD OUT BAR HOPPERS // UNSTRING BLOCKS & UNBRIDLE ALEGS & LAY THEM OVER // SEPERATE MOTOR PAKAGE (HAD 4 HAUL TRUCKS & CRANE & BED TRUCK & POLE TRUCK) 80 % RIG DOWN & 10% HAULED
	18:00 - 06:00	12.00			RDMO	WAIT ON DAY LIGHT
7/11/2008	06:00 - 18:00	12.00	LOC	4	RDMO	HAUL MOTOR PACKAGE // HAUL PUMP// HAUL MATTS// TAKE OFF DRAWORKS & TOP SUBS & A-LEGS // RIG DOWN BOPS & PUT ON CAMRONS NIGHT CAP (HAD 10 HAUL TRUCKS TODAY) HAUL 30% RIG DOWN 90%
	18:00 - 06:00	12.00	LOC	4	RDMO	WAIT ON DAY LIGHT
7/12/2008	06:00 - 18:00	12.00	LOC	4	RDMO	HELD SAFETY METTING // HAULED 9 LOADS TO NEW LOCATION // HAUL OFF SUB & MATTS & OUT BUILDING & SEPERATE DERRICK FOR TRUCKS // RIG UP SET MATS PUMP // MOTORS PACKAGE (100% RIG DOWN & 60 % HAULED 15% RIG UP) HAULED 1 MAN CAMP TO DINASOUR
	18:00 - 06:00	12.00	LOC	3	RDMO	WAIT ON DAY LIGHT
7/13/2008	06:00 - 18:00	12.00	LOC	4	RDMO	HELD SAFETY MEETING// (80% HAULED 25% RIG UP)STACK SUB & PULL WIRES
	18:00 - 06:00	12.00	LOC	4	RDMO	WAIT ON DAY LIGHT
7/14/2008	06:00 - 18:00	12.00	LOC	4	MIRU	HELD SAFETY MEETING// RIG UP SUBS & FROGS & DRAWORKS & BOPS & SET BUILDING & SET UP CAMPS ON LOCATION & HAULED THE OTHER MAN CAMP TO DINASOUR (100 % HAULED

Operations Summary Report

Legal Well Name: WV 8D-15-8-21 STO 1
Common Well Name: WV 8D-15-8-21 STO 1
Event Name: DRILLING
Contractor Name: Unit Drilling Co.
Rig Name: UNIT

Start: 7/2/2008
Rig Release:
Rig Number: 232

Spud Date: 6/28/2008
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
7/14/2008	06:00 - 18:00	12.00	LOC	4	MIRU	40% RIGED UP)
	18:00 - 06:00	12.00	LOC	4	MIRU	WAIT ON DAYLIGHT
7/15/2008	06:00 - 18:00	12.00	LOC	4	MIRU	HELD SAFETY METTING // GENERAL RIG UP // PUT FLOOR TOGETHER // ALEGS // BRIDLE UP // PUT DERRICK TOGETHER & STRING UP // TOP DOG HOUSE & SET PITS & HOPPER HOUSE & DUG DITCHES AROUND RIG (65% RIGGED UP & WELDERS WORKING ON MUD TANKS)
	18:00 - 06:00	12.00	LOC	4	MIRU	WAIT ON DAY LIGHT
7/16/2008	06:00 - 18:00	12.00	LOC	4	MIRU	HELD SAFETY MEETING & SET SHALE TANK & CHOKE HOUSE & GAS BUSTER FINISH RIG UP ON DERRICK & INSPECT IT & RAISE DERRICK & FINISH PUTTING IN SPREDDER BEAMS 80% RIG UP
	18:00 - 06:00	12.00	LOC	4	MIRU	WAIT ON DAY LIGHT
7/17/2008	06:00 - 06:00	24.00	LOC	4	MIRU	P/U TOP RAIL & SERVICE LOOP, RIG UP FLOOR, PULL ELECTRICAL CABLE, WELD ON MUD TANKS, BUILD BERM AROUND RIG, R/U LIGHTS 85% RIGED UP
7/18/2008	06:00 - 06:00	24.00	LOC	4	MIRU	R/U TOP DRIVE & MOTOR PACKAGE, SLIP BACK DRILLING LINE, R/U BAR HOPPERS & HOPPER HOUSE, R/U GAS BUSTER & FLARE LINES, SET 4 1/2 DP TUBS, WELD ON MUD TANKS 8 WELDERS WORKING ON MUD TANKS
7/19/2008	06:00 - 06:00	24.00	LOC	3	MIRU	PULL ROTARY TABLE & INSTALL ROTATING HEAD, REBUILD DRIP PAN, C/O LINERS IN MUD PUMPS, INSTALL SHAKER SLIDES & TROUGHS, PORE QUICK CERRT IN CELLER, R/U PAYSON PIT MARKERS 95% RIGGED UP 5 WELDERS WORKING ON MUD TANKS
7/20/2008	06:00 - 12:00	6.00	OTH		MIRU	REBUILD FLOW LINE, INSTALL ORBIT VALVE, R/U ACCOMPANING EOUIPMENT FOR WEATHERFORD ROTATING HEAD, FILL MUT TANKS WITH WATER "NO LEAKS", TORQUE BLOTS ON BOP, FIHISH R/U CENTRIFUGES
	12:00 - 00:00	12.00	BOP	2	MIRU	TEST BOP, TOP & BOTTOM & BLIND RAMS 250 LOW 5000 HIGH, KILL, HCR & CHOKE MANAFOLD LOW 250 , 5000 HIGH, TOP DRIVE & MUD LINES BACK TO THE PUMP 250 LOE 3500 HIGH; REPLACING 1 BOTTLE ON CLOSING UNIT;
	00:00 - 01:30	1.50	RIG	2	DRLIN1	CHANGE OUR RELAY IN TOP DRIVE PANNEL
	01:30 - 02:30	1.00	BOP	2	DRLIN1	INSTALL WEAR BUSHING
	02:30 - 06:00	3.50	TRP	1	DRLIN1	P/U BHA
7/21/2008	06:00 - 09:00	3.00	TRP	1	DRLIN1	P/U BHA
	09:00 - 09:30	0.50	RIG	2	DRLIN1	REPAIR CUPLER BETWEEN A MOTOR & DRAWWARKS
	09:30 - 10:30	1.00	TRP	1	DRLIN1	P/U BHA TAG CEMENT @ 455'
	10:30 - 11:30	1.00	OTH		DRLIN1	C/O MOUSE HOLE, INSTALL FLOW CENSOR & STROKE COUNTERS
	11:30 - 22:30	11.00	RIG	1	DRLIN1	WAIT ON WEATHERFORD LUBRICATOR POWER UNIT, SEE NOTE ON DAILY OPERATIONAL COMMENTS
	22:30 - 00:30	2.00	DRL	4	DRLIN1	DRLG CEMENT & FLOAT EQUIPMENT
	00:30 - 01:00	0.50	EQT	2	DRLIN1	CIRC & DO FIT TEST TO 11 PPG MUD
	01:00 - 03:30	2.50	RIG	2	DRLIN1	RIG UP WEATHERFORD ROTATING POWER UNIT
	03:30 - 04:00	0.50	DRL	1	DRLIN1	DRLG & OPEN HOLE F/ 514 T/ 551
	04:00 - 06:00	2.00	RIG	2	DRLIN1	RIG REPAIR
7/22/2008	06:00 - 07:00	1.00	DRL	1	DRLIN1	DRLG F/ 551 T/ 720 WOB 8/12, DHRPM 35, TDRPM 35, MOTOR .11 RPG, GPM 432, ROP 169
	07:00 - 07:30	0.50	RIG	1	DRLIN1	RIG SERVICE
	07:30 - 16:30	9.00	DRL	1	DRLIN1	DRLG F/ 720 T/ 1578 WOB 8/15, DHRPM 48, TDRPM 35, GPM 440, ROP 95

Operations Summary Report

Legal Well Name: WV 8D-15-8-21 STO 1
Common Well Name: WV 8D-15-8-21 STO 1
Event Name: DRILLING
Contractor Name: Unit Drilling Co.
Rig Name: UNIT

Start: 7/2/2008
Rig Release:
Rig Number: 232

Spud Date: 6/28/2008
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
7/22/2008	16:30 - 17:00	0.50	CIRC	1	DRLIN1	CIRC FOR SURVEY
	17:00 - 17:30	0.50	SUR	1	DRLIN1	SURVEY @ 1544 MISS RUN
	17:30 - 18:30	1.00	DRL	1	DRLIN1	DRLG F/ 1544 T/ 1673
	18:30 - 19:30	1.00	SUR	1	DRLIN1	CIRC & SURVEY @ 1639 MISS RUN
	19:30 - 23:00	3.50	DRL	1	DRLIN1	DRLG F/ 1673 T/ 1950
	23:00 - 23:30	0.50	SUR	1	DRLIN1	CIRC & SURVEY MISS RUN
	23:30 - 01:00	1.50	DRL	1	DRLIN1	DRLG F/ 1950 T/ 2051
	01:00 - 05:00	4.00	SUR	1	DRLIN1	CIRC & SURVEY
	05:00 - 06:00	1.00	TRP	2	DRLIN1	POOH
7/23/2008	06:00 - 09:00	3.00	TRP	2	DRLIN1	POOH
	09:00 - 10:00	1.00	TRP	1	DRLIN1	L/D 8" DC & RETRIVE SURVEY, "NO SURVEY"
	10:00 - 16:00	6.00	OTH		DRLIN1	TRUBLE SHOOTSURVEY PROBLEMS,
	16:00 - 22:00	6.00	TRP	2	DRLIN1	P/U MEW MONEL & TEST IN MOUSE HOLE,"OK" M/U & RIH SURVEY @ 500 MISS RUN, & 930' 1.9 DEG. AZ 149.1, & 1514' 1.4 DEG 124.6 AZ, & 2018 11.7 DEG 130.0 AZ
	22:00 - 02:30	4.50	CIRC	1	DRLIN1	CIRC & WAIT ON SLICK LINE TRUCK
	02:30 - 04:30	2.00	SUR	1	DRLIN1	R/U SLICK LINE & RUN GYRO SURVEYS EVERY 250' & R/D
	04:30 - 06:00	1.50			DRLIN1	CIRC AFTER GYRO
7/24/2008	06:00 - 08:00	2.00	CIRC	1	DRLIN1	CIRC AFTER GYRO SYRVEY,
	08:00 - 13:00	5.00	TRP	2	DRLIN1	FLOW CHECK, PUMP SLUG & POOH, L/D 8" DC, MONEL & MOTOR
	13:00 - 16:30	3.50	TRP	2	DRLIN1	CLEAM FLOOR, RIH, P/U 41 JT DP TO PLUG BACK WITH
	16:30 - 02:30	10.00	CIRC	1	DRLIN1	CIRC & WAIT ON HALLIBURTON
	02:30 - 04:30	2.00	CMT	1	DRLIN1	CIRC & R/U HALLIBURTON
	04:30 - 06:00	1.50	CMT	4	DRLIN1	HOLD PJSM, PUMP 400 SX CEMENT @ 2036 , PULL 5 STD, CIRC BOTTOMS UP @ 1566
7/25/2008	06:00 - 08:30	2.50	CMT	4	DRLIN1	PUMP 400 SX CEMENT PLUG @ 1566' PULLED 5 STANDS & CIRC BOTTOMS UP @ 1096
	08:30 - 09:30	1.00	TRP	2	DRLIN1	POOH
	09:30 - 19:30	10.00	WOT	1	DRLIN1	WOC
	19:30 - 22:30	3.00	WOT	1	DRLIN1	WOC & P/U DIRECTIONAL TOOLS & RIH TO 466' MOTOR IS BENT TO 1.83 DEG.
	22:30 - 04:30	6.00	WOT	1	DRLIN1	WOC
	04:30 - 06:00	1.50	WOT	1	DRLIN1	RIH F/ 466 T/ 1100;
7/26/2008	06:00 - 06:30	0.50	DRL	7	DRLIN1	DRESS OFF CEMENT F/ 1100 T/ 1125
	06:30 - 06:00	23.50	DRL	7	DRLIN1	ATTEMPT TO KICK OFF @ 1125' ; TIME DRLG F/ 1125 T/ 1194, @ 0400 HR 40% CEMENT & 60% FORMATION
7/27/2008	06:00 - 00:00	18.00	DRL	7	DRLIN1	SIDE TRACK F/ 1194 T/ 1233
	00:00 - 02:30	2.50	DRL	7	DRLIN1	DRLG F/ 1233 T/ 1238
	02:30 - 03:30	1.00	RIG	2	DRLIN1	WORK ON TOP DRIVE
	03:30 - 06:00	2.50	DRL	7	DRLIN1	DRLG F/ 1238 T/ 1242
7/28/2008	06:00 - 13:30	7.50	DRL	7	DRLIN1	DRLG F/ 1242 T/ 1293, WOB 4/8, DHRPM 71, TDRPM 40, MOTOR 1.86 BEND- .16 RPG. GPM 444,
	13:30 - 14:00	0.50	RIG	1	DRLIN1	RIG SERVICE
	14:00 - 06:00	16.00	DRL	7	DRLIN1	DRLG F/ 1293 T/ 1395 SAME AS ABOVE
7/29/2008	06:00 - 06:00	24.00	DRL	7	DRLIN1	DRLG F/ 1395 T/ 1698 WOB20/30, DHRPM 75/91, TDRPM 35/45, MOTOR 1.86 BEND. .16 RPMPG, 444/586 GPM,
7/30/2008	06:00 - 12:00	6.00	DRL	7	DRLIN1	DRLG F/ 1698 T/ 1860 WOB 15/30, DHRPM 93, TDRPM 40/45, GPM 586, SLIDE FOR 3.5 HR, ROT FOR 2.5 HR
	12:00 - 12:30	0.50	RIG	1	DRLIN1	RIG SERVICE
	12:30 - 20:00	7.50	DRL	7	DRLIN1	DRLG F/ 1860 T/ 1967
	20:00 - 21:00	1.00	CIRC	1	DRLIN1	CIRC & BUILD TRIP SLUG
	21:00 - 21:30	0.50	OTH		DRLIN1	FLOW CHECK & PUMP SLUG
	21:30 - 00:00	2.50	TRP	2	DRLIN1	POOH

Operations Summary Report

Legal Well Name: WV 8D-15-8-21 STO 1
Common Well Name: WV 8D-15-8-21 STO 1 Spud Date: 6/28/2008
Event Name: DRILLING Start: 7/2/2008 End:
Contractor Name: Unit Drilling Co. Rig Release: Group:
Rig Name: UNIT Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
7/30/2008	00:00 - 01:00	1.00	TRP	2	DRLIN1	C/O BIT & MOTOR
	01:00 - 06:00	5.00	TRP	2	DRLIN1	RIH, WASH & REAM F/ 1230 T/ 1967
7/31/2008	06:00 - 15:30	9.50	DRL	7	DRLIN1	DRLG F/ 1967 TO 2232 (ALL ROTATING & SURVEY EVERY 30')(WT 8/10 - MTR 94 / TRPM 45)
	15:30 - 16:00	0.50	RIG	1	DRLIN1	RIG SERVICE & SERVICE TOP DRIVE (CHANGE OIL IN GEAR BOX)
	16:00 - 16:30	0.50	OTH		DRLIN1	PASON CHANGE OUT FLOAT PADDEL ON FLOW LINE
	16:30 - 02:00	9.50	DRL	7	DRLIN1	DRLG F/ 2232 TO 2505(ALL ROTATING & SURVEY EVERY 30')(WT 8/10 - MTR 94 / TRPM 45)
	02:00 - 03:00	1.00	RIG	2	DRLIN1	# 3 MOTOR & TOP DRIVE MOVER (TROUBLE SHOOT FUEL LOSS PROBLEM)
	03:00 - 06:00	3.00	DRL	7	DRLIN1	DRLG F/ 2505 TO 2560 (ALL ROTATING & SURVEY EVERY 30')(WT 8/10 - MTR 94 / TRPM 45)
8/1/2008	06:00 - 15:00	9.00	DRL	1	DRLIN1	DRLG F/2560 TO 2795 (ALL ROTATING & SURVEY EVERY 30' & 60')(WT 12/15 - MTR 94 / TRPM 45)
	15:00 - 15:30	0.50	RIG	1	DRLIN1	RIG SERVICE
	15:30 - 06:00	14.50	DRL	1	DRLIN1	DRLG F/2795 TO 3185 (ROTATE F/ 2795 TO 2858 / SLIDE 2858 TO 2873 / ROTATE F/ 2858 TO 3047 / SLIDE 3047 TO 3062 / ROTATE F/ 3062 TO & SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 45)
8/2/2008	06:00 - 17:30	11.50	DRL	1	DRLIN1	DRLG F/ 3185 TO 3547 (ROTATE F/ 3185 TO 3454 / SLIDE 3454 TO 3469 / ROTATE F/ 3469 TO 3516 / SLIDE 3516 TO 3531 / ROTATE F/ 3531 TO 3547 & SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 45)
	17:30 - 18:00	0.50	DRL	1	DRLIN1	RIG SERVICE
	18:00 - 06:00	12.00	DRL	1	DRLIN1	DRLG F/ 3547 TO 3930 (ROTATE F/ 3547 TO 3827 / SLIDE 3827 TO 3837 / ROTATE F/ 3837 TO 3930 SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 45)
8/3/2008	06:00 - 14:30	8.50	DRL	1	CSGIN1	DRLG F/ 3930 TO 4206 SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 45)
	14:30 - 15:00	0.50	RIG	1	CSGIN1	RIG SERVICE
	15:00 - 06:00	15.00	DRL	1	CSGIN1	DRLG F/ 4206 TO 4487 (SLIDE4206 TO 4224 ROTATE F/ 4224 TO 4330 SLIDE F/ 4330 TO 4343 ROTATE F/ 4343 TO 4353 SLIDE F/ 4353 TO 4363 ROTATE F/ 4363 TO 4393 SLIDE 4393 TO 4411ROTATE F 4411 TO 4456 SLIDE 4456 TO 4474 ROTATE 4474 TO 4474 TO 4484 SLIDE 4484 TO 4510 SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 45)
8/4/2008	06:00 - 07:30	1.50	DRL	1	DRLIN1	DRLG F/ 4510 TO 4580 SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 45) (20 TO 50' HR ROTATING & 15 TO 20'HR SLIDING)
	07:30 - 09:00	1.50	RIG	2	DRLIN1	WORK ON PUMP # 1 PUMP 6 SEATS & VALUES & SWAB // # 2 PUMP 4 SEATS & VALUES
	09:00 - 15:00	6.00	DRL	1	DRLIN1	DRLG F/ SLIDE 4580 TO 4597 ROTATE F/ 4597 TO 4643 SLIDE F/ 4643 TO 4648 ROTATE F/ 4648 TO 4670 SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 60) (20 TO 50' HR ROTATING & 15 TO 20'HR SLIDING)
	15:00 - 15:30	0.50	RIG	1	DRLIN1	RIG SERVICE & SERVICE TOP DRIVE (FUNCTION TOP PIPE RAMS)
	15:30 - 06:00	14.50	DRL	1	DRLIN1	DRLG F/ ROTATE F/ 4670 TO 4862 SLIDE F/ 4862 TO 4886 ROTATE F/ 4886 TO 4926 SLIDE F/ 4929 TO 4958 ROTATE F/ 4958 TO 5055 SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 60) (20 TO 50' HR ROTATING & 15 TO 20'HR SLIDING)
8/5/2008	06:00 - 10:30	4.50	DRL	1	DRLIN1	DRLG F/ ROTATE F/ 5055 to 5141 SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 60) (20 TO 50' HR ROTATING & 15 TO 20'HR SLIDING)

Operations Summary Report

Legal Well Name: WV 8D-15-8-21 STO 1
Common Well Name: WV 8D-15-8-21 STO 1 Spud Date: 6/28/2008
Event Name: DRILLING Start: 7/2/2008 End:
Contractor Name: Unit Drilling Co. Rig Release: Group:
Rig Name: UNIT Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/5/2008	10:30 - 11:00	0.50	RIG	1	DRLIN1	RIG SERVICE & SERVICE TOP DRIVE
	11:00 - 13:30	2.50	DRL	1	DRLIN1	DRLG F/ ROTATE F/ 5141 TO 5176 SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 60) (20 TO 50' HR ROTATING & 15 TO 20'HR SLIDING)
	13:30 - 14:00	0.50	CIRC	1	DRLIN1	CIRCULATE BTMS UP F/TRIP
	14:00 - 14:30	0.50	CIRC	1	DRLIN1	PUMP DRY SLUG 35 BBLS
	14:30 - 19:00	4.50	TRP	10	DRLIN1	SLM ON TRIP OUT (STRAP 5177.10) TAG SOME BRIDGES COMING OUT 50K OVER 4200 TO 3600
	19:00 - 20:00	1.00	TRP	1	DRLIN1	LAY DOWN MWD TOOLS & MOTOR & MONEL
	20:00 - 22:30	2.50	TRP	1	DRLIN1	TEST SINGLE SHOT IN MOUSE HOLE & P/UP NEW MOTOR & BIT & SURFACE TEST MOTOR
	22:30 - 01:30	3.00	TRP	10	DRLIN1	TRIP IN & FILL PIPE @ 1000-3400-5018
	01:30 - 02:00	0.50	REAM	1	DRLIN1	WASH REAM 160' & 20' FILL
	02:00 - 06:00	4.00	DRL	1	DRLIN1	DRLG F/ ROTATE F/ 5055 to 5141)(WT 10-12/MTR 94 / TRPM 60)
8/6/2008	06:00 - 12:30	6.50	DRL	1	DRLIN1	DRLG F/ ROTATE F/ 5285 to 5415)(WT 10-12/MTR 94 / TRPM 60)
	12:30 - 15:00	2.50	CIRC	1	DRLIN1	CIRCULATE & 70 BBL SWEEP AROUND
	15:00 - 15:30	0.50	CIRC	1	DRLIN1	PUMP DRY PILL & CHECK FOR FLOW
	15:30 - 20:00	4.50	TRP	14	DRLIN1	SHORT TRIP 40 STANDS
	20:00 - 20:30	0.50	REAM	1	DRLIN1	WASH & REAM 5334 TO 5415
	20:30 - 22:00	1.50	CIRC	1	DRLIN1	CIRCULATE BTMS UP
	22:00 - 22:30	0.50	SUR	1	DRLIN1	WIRE LINE SURVEY
	22:30 - 00:30	2.00	CIRC	1	DRLIN1	CIRCULATE & CHECK FLOW & PUMP DRY SLUG
	00:30 - 05:00	4.50	TRP	2	DRLIN1	TRIP OUT RUN CASING
	05:00 - 06:00	1.00	BOP	1	DRLIN1	PULL WEAR BUSHING
8/7/2008	06:00 - 10:30	4.50	CSG	1	DRLIN1	HELD SAFETY MEETING & RIG UP FRANK'S CASING CREW & LAY DOWN MACHINE
	10:30 - 11:30	1.00	CSG	2	DRLIN1	WAIT ON FLOAT COLLAR (HALIBURTON SENT OUT THE WRONG ONE)
	11:30 - 20:00	8.50	CSG	2	DRLIN1	RUN 9 5/8 CASING
	20:00 - 21:00	1.00	CSG	1	DRLIN1	RIG DOWN FRANK'S CASING CREW & LAY DOWN MACHINE
	21:00 - 23:00	2.00	CIRC	1	DRLIN1	CIRCULATE & CONDITION
	23:00 - 05:00	6.00	CSG	2	DRLIN1	SET CAMRON PACK OFF & CEMENT ISOLOATION TOOL TEST AT 8000 PSI & TEST SEAL ASSY TO 5,000 PSI ALSO RIGGEN UP HALIBURTON (CASING STRING WT. 215,000 SETTING IN A-SECTION)(CASING SHOE DEPTH @ 5398)
	05:00 - 06:00	1.00	CMT	1	DRLIN1	FINISH RIGGING UP HALIBURTON
8/8/2008	06:00 - 07:00	1.00	CMT	1	DRLIN1	RIG UP HALLIBURTON CEMENT EQUIPMENT
	07:00 - 12:00	5.00	CMT	2	DRLIN1	TEST LINE TO 6,000PSI & N2 LINE TO 8,000PSI, PUMP SPACER TRAIN 50BBLS @ 5BPM, PUMP SCAVENGER CEMENT 30BBLS @ 5BPM 14.3PPG. PUMP 1st LEAD CEMENT 160BBLS @ 5BPM 14.3PPG, PUMP 2nd LEAD CEMENT 212BBLS @ 5BPM 14.3PPG, PUMP TAIL CEMENT 60BBLS @ 5BPM 14.3PPG, DROP PLUG AND BUMP PLUG WITH 385BBLS 1400PSI HOLE FOR 30MIN, PUMP CAP CEMENT 55.2BBLS @ 3BPM 14.6PPG, PUMP 3BBLS WATER DISPLACEMENT
	12:00 - 13:00	1.00	CMT	1	DRLIN1	RIG DOWN HALLIBURTON CEMENT EQUIPMENT
	13:00 - 13:30	0.50	RIG	2	DRLIN1	REPLACE # 2 GEN BREAKER
	13:30 - 14:00	0.50	RIG	1	DRLIN1	RIG SERVICE
	14:00 - 18:00	4.00	CMT	1	DRLIN1	LAY DOWN CAMRON CEMENT ASSY & INSTALL WEAR BUSHING
	18:00 - 23:30	5.50	TRP	1	DRLIN1	MAKE UP BIT, MOTOR, ROLLER REAMER, MONELAND INSPECT BHA, CHANGE OUT JAR
	23:30 - 02:00	2.50	TRP	2	DRLIN1	TRIP IN @ TAG PLUG ABOVE FLOAT 5304
	02:00 - 04:30	2.50	DRL	4	DRLIN1	TAG PLUG @ 5304 DRILL PLUG& FLOAT & CEMENT-SHOE (WT

Operations Summary Report

Legal Well Name: WV 8D-15-8-21 STO 1
Common Well Name: WV 8D-15-8-21 STO 1 Spud Date: 6/28/2008
Event Name: DRILLING Start: 7/2/2008 End:
Contractor Name: Unit Drilling Co. Rig Release: Group:
Rig Name: UNIT Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/8/2008	02:00 - 04:30	2.50	DRL	4	DRLIN1	0-5/ MTR RPMS 133/TDRPM30 // GPM 460)
	04:30 - 06:00	1.50	BOP	1	DRLIN1	CHANGE OUT ROTATING HEAD
8/9/2008	06:00 - 06:30	0.50	DRL	1	DRLIN2	DRILL F/ 5415 TO 5425 (ROP 20' HR // WT 8-10 // MTR 133 // TDRPM 40 // 110STKS //1500 PSI // 461GPM)
	06:30 - 08:00	1.50	CIRC	1	DRLIN2	CIRCULATE & CONDITION F/ F.I.T. TEST
	08:00 - 08:30	0.50	EQT	2	DRLIN2	FIT TEST 9.4PPG 1005 PSI FOR 30 MINS F/ EMW 13.0
	08:30 - 23:00	14.50	DRL	1	DRLIN2	DRILL F/ 5425 TO 5693 (ROP 18.4' HR // WT 12-14 // MTR 133 // TDRPM 40 // 110STKS // 1700 PSI // 461GPM)
	23:00 - 00:00	1.00	SUR	1	DRLIN2	PUMP SWEEP & CIRULATE & SURVEY
	00:00 - 06:00	6.00	DRL	1	DRLIN2	DRILL F/ 5693 TO 5875 (ROP 20.9' HR // WT 12-14 // MTR 133 // TDRPM 45// 110STKS // 1700 PSI // 461GPM)
8/10/2008	06:00 - 07:00	1.00	FISH	6	DRLIN2	WORK TIGHT HOLE F/ 5868 TO 5838
	07:00 - 13:30	6.50	DRL	1	DRLIN2	DRILL F/ 5868 TO 6053 (ROP 28.4' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1700 PSI // 461GPM)
	13:30 - 14:00	0.50	RIG	1	DRLIN2	RIG SERVICE & SERVICE TO DRIVE (FUNCTION ACR VALVE)
	14:00 - 16:30	2.50	DRL	1	DRLIN2	DRILL F/ 6053 TO 6146 (ROP 37.2' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1700 PSI // 461GPM)
	16:30 - 18:30	2.00	CIRC	1	DRLIN2	CIRCULATE & CONDITION HOLE
	18:30 - 20:00	1.50	DRL	1	DRLIN2	DRILL F/ 6146 TO 6175 (ROP 19.3' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1700 PSI // 461GPM)
	20:00 - 21:00	1.00	SUR	1	DRLIN2	CIRC. & SURVEY
	21:00 - 06:00	9.00	DRL	1	DRLIN2	DRILL F/ 6175 TO 6400 (ROP 19.3' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1700 PSI // 461GPM)
8/11/2008	06:00 - 08:30	2.50	DRL	1	DRLIN2	DRILL F/ 6400 TO 6550 (ROP 60' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1950 PSI // 461GPM)
	08:30 - 09:00	0.50	RIG	1	DRLIN2	RIG SERVICE & SERVICE TOP DRIVE (FUNCTION LOWER PIPE RAMS)
	09:00 - 11:30	2.50	DRL	1	DRLIN2	DRILL F/ 6550 TO 6674 (ROP 49.6' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1950 PSI // 461GPM)
	11:30 - 12:30	1.00	SUR	1	DRLIN2	CIRCULATE & SURVEY
	12:30 - 04:30	16.00	DRL	1	DRLIN2	DRILL F/ 6774 TO 7172 (ROP 24.8' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1950 PSI // 461GPM)
	04:30 - 05:30	1.00	SUR	1	DRLIN2	CIRCULATE & SURVEY
	05:30 - 06:00	0.50	DRL	1	DRLIN2	DRILL F/7172 TO 7182 (ROP 20' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1950 PSI // 461GPM) (STARTED PUMPING 25 BBL LCM SWEEPS TO CONTROLL SEEPAGE LOST APPROX. 100 BBLS IN 24 HRS)
8/12/2008	06:00 - 11:30	5.50	DRL	1	DRLIN2	DRILL F/7182 TO 7358 (ROP 32' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1950 PSI // 461GPM)
	11:30 - 12:00	0.50	RIG	1	DRLIN2	RIG SERVICE
	12:00 - 01:00	13.00	DRL	1	DRLIN2	DRILL F/7358 TO 7730 (ROP 28.6' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1950 PSI // 461GPM)
	01:00 - 02:00	1.00	SUR	1	DRLIN2	CIRULATE & SURVEY
	02:00 - 06:00	4.00	DRL	1	DRLIN2	DRILL F/7730 TO 7780 (ROP 12.5' HR // WT 12-15 // MTR 133 // TDRPM 55// 110STKS // 1950 PSI // 461GPM)(WITH NO CURRENT LOSSES)
8/13/2008	06:00 - 11:00	5.00	DRL	1	DRLIN2	DRILL F/7780 TO 7835 (ROP 11' HR // WT 12-15 // MTR 133 // TDRPM 55// 110STKS // 1950 PSI // 461GPM)(WITH NO CURRENT LOSSES)
	11:00 - 12:00	1.00	CIRC	1	DRLIN2	PUMP 80 BBL LCM SWEEP & CIRCULATE IT OUT F/ TRIP
	12:00 - 12:30	0.50	SUR	1	DRLIN2	CHECK FLOW & DROPPED SURVEY & PUMP DRY PILL
	12:30 - 19:00	6.50	TRP	10	DRLIN2	TRIP OUT
	19:00 - 20:30	1.50	TRP	1	DRLIN2	CHANGE OUT MOTOR & RAMER & BIT

Operations Summary Report

Legal Well Name: WV 8D-15-8-21 STO 1
Common Well Name: WV 8D-15-8-21 STO 1
Spud Date: 6/28/2008
Event Name: DRILLING
Start: 7/2/2008
End:
Contractor Name: Unit Drilling Co.
Rig Release:
Group:
Rig Name: UNIT
Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/13/2008	20:30 - 22:30	2.00	TRP	2	DRLIN2	COULD NOT GET PASS WEAR PUSHING / PULLED WEAR PUSHING & DRAIN STACK TO SEE WHY / THE NEW BIT WAS OVER GUAGED & WOULD KNOT GO IN THE 9 5/8 CASING / CHANGED BIT
	22:30 - 01:30	3.00	TRP	2	DRLIN2	TRIP TO THE SHOE @ 5398
	01:30 - 02:30	1.00	RIG	6	DRLIN2	CUT DRIL LINE 125'
	02:30 - 03:00	0.50	TRP	2	DRLIN2	TRIP IN TAG TIGHT SPOT @ 5480
	03:00 - 06:00	3.00	REAM	1	DRLIN2	WASH & REAM THRU TIGHT SPOT 5480 TO 5900 & RAISE MUD WT 9.4 - 9.5
8/14/2008	06:00 - 22:00	16.00	REAM	1	DRLIN2	WASH & REAM F/ 5586 T/ 6553 RAISEING MUD WT TO 9.6 PPG
	22:00 - 22:30	0.50	TRP	2	DRLIN2	RIH F/ 6553 T/ 6813
	22:30 - 00:00	1.50	RIG	2	DRLIN2	WORK ON TOP DRIVE MOTOR
	00:00 - 01:00	1.00	TRP	2	DRLIN2	RIH F/ 6813 T/ 7344
	01:00 - 02:30	1.50	REAM	1	DRLIN2	WASH & REAM F/ 7344 T/ 7835
	02:30 - 06:00	3.50	DRL	1	DRLIN2	DRLG F/ 7835 T/ 7885 WOB 8/10, MW 9.5+, GPM 440. MOTOR .26 RPG, DHRPM 114, TDRPM 55, SPP 1968, DIFF 97, ROP 14.2
8/15/2008	06:00 - 07:00	1.00	SUR	1	DRLIN2	SURVEY @ 7806, 2.4DEG, AIZ. 156.0
	07:00 - 14:30	7.50	DRL	1	DRLIN2	DRLG F/ 7885 T/ 7979 WOB 5/10, MW 9.6, GPM 460, DHRPM 120, TDRPM 55, SPP 2035, DIFF112, ROP 12.5
	14:30 - 15:00	0.50	RIG	1	DRLIN2	RIG SERVICE
	15:00 - 21:00	6.00	DRL	1	DRLIN2	DRLG F/ 7979 T/ 8053 WOB 5/10, MW 9.6, GPM 460, DHRPM 120, TDRPM 55. SPP 2050, DIFF 110, ROP12.3
	21:00 - 22:00	1.00	SUR	1	DRLIN2	SURVEY @ 7977, 2.4 DEG AIZ 153.4
	22:00 - 06:00	8.00	DRL	1	DRLIN2	DRLG F/ 8053 T/ 8135 WOB 10/15, MW 9.6, GPM 460, DHRPM 120, TDRPM 40/55, DIFF 50, 2045, ROP 10.2
8/16/2008	06:00 - 16:30	10.50	DRL	1	DRLIN2	DRLG F/8135 T/ 8195 WOB 8/15 MW 9.6, GPM 460, DHRPM 120, TDRPM 55
	16:30 - 17:30	1.00	SUR	1	DRLIN2	SURVEY @ 8100 1.8 DEG 200.3 AIZ
	17:30 - 23:00	5.50	TRP	10	DRLIN2	POOH
	23:00 - 00:00	1.00	TRP	2	DRLIN2	L/D RR, MOTOR & BIT, P/U MEW MOTOR & BIT
	00:00 - 05:00	5.00	TRP	2	DRLIN2	RIH & SAFTY WASH LAST 90'
	05:00 - 06:00	1.00	DRL	1	DRLIN2	DRLG F/ 8195 T/ 8226 WON 10/15, MW 9.7, GPM 469, DHRPM 70, TDRPM 55, DIFF 120, SPP 2186, ROP31
8/17/2008	06:00 - 17:30	11.50	DRL	1	DRLIN2	DRLG F/ 8226 T/ 8471 WOB 10/15, MW 9.7+, GPM 460. DHRPM 69, TDRPM 60, DIFF 100, SPP 2007, ROP 21.3
	17:30 - 18:00	0.50	RIG	1	DRLIN2	RIG SERVICE
	18:00 - 20:00	2.00	DRL	1	DRLIN2	DRLG F/ 8471 T/ 8502 WOB 15, MW 9.8, GPM 460, DHRPM 60, TDRPM 60, DIFF 120, SPP 2040, ROP 15.5
	20:00 - 22:30	2.50	SUR	1	DRLIN2	SURVEY @ 8442 2.0 DEG AIZ 183.2 HAD 1 MISS RUN
	22:30 - 03:00	4.50	DRL	1	DRLIN2	DRLG F/ 8502 T/ 8596 WOB 15/18, MW 9.8, GPM 482, DHRPM 72, TDRPM 65, DIFF 150, SPP 2290, ROP 20
	03:00 - 04:00	1.00	SUR	1	DRLIN2	SURVEY @ 8536 DEG 2.4 AIZ 153.8
	04:00 - 06:00	2.00	DRL	1	DRLIN2	DRLG F/ 8596 T/ 8659 WOB 18, MW 9.8, GPM 482, TDRPM 65, DIFF 101, SPP 2400, ROP 31.5
8/18/2008	06:00 - 12:30	6.50	DRL	1	DRLIN2	DRLG F/ 8659 T/ 8752, WOB 15, MW 9.8, GPM 503, DHRPM 75, TDRPM 66, DIFF 125, SPP 2390, ROP 14.3
	12:30 - 13:00	0.50	RIG	1	DRLIN2	RIG SERVICE
	13:00 - 18:00	5.00	DRL	1	DRLIN2	DRLG F/ 8752 T/ 8846, WOB 15, MW 9.8, GPM 503, DHRPM 75, TDRPM 66, DIFF 145, SPP 2460, ROP 22.4
	18:00 - 19:00	1.00	SUR	1	DRLIN2	SURVEY @ 8785 DEG 0.9, AZI 196.4
	19:00 - 00:00	5.00	DRL	1	DRLIN2	DRLG F/ 8864 T/ 9002 WOB 22, MW 9.8, GPM 503, DHRPM 75, TDRPM 66, DIFF 165, SPP 2480
	00:00 - 01:00	1.00	SUR	1	DRLIN2	SURVEY @ 8942 DEG 0.6 AZI 223.6
	01:00 - 06:00	5.00	DRL	1	DRLIN2	DRLG F/ 9002 T/ 9128 WOB 22/25, MW 9.8+, GPM 503, DHRPM 75,

Operations Summary Report

Legal Well Name: WV 8D-15-8-21 STO 1
Common Well Name: WV 8D-15-8-21 STO 1
Event Name: DRILLING
Contractor Name: Unit Drilling Co.
Rig Name: UNIT

Start: 7/2/2008
Rig Release:
Rig Number: 232

Spud Date: 6/28/2008
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/18/2008	01:00 - 06:00	5.00	DRL	1	DRLIN2	TDRPM 66, DIFF 100, SPP 2490, ROP 25.2
8/19/2008	06:00 - 11:00	5.00	DRL	1	DRLIN2	DRLG F/ 9128 T/ 9220 WOB 22/25, MW 9.8+, GPM 502, DHRPM 75, TDRPM 66, DIFF145, SPP 2430, ROP 18.4
	11:00 - 11:30	0.50	RIG	1	DRLIN2	RIG SERVICE
	11:30 - 15:00	3.50	DRL	1	DRLIN2	DRLG F/ 9220 T/ 9315 WOB 22/25, MW 9.8+, GPM 502, DHRPM 75, TDRPM 65, DIFF 140, SPP 2420, ROP 27.
	15:00 - 15:30	0.50	OTH		DRLIN2	C/O ROTATING HEAD
	15:30 - 17:30	2.00	RIG	2	DRLIN2	C/O WASH PIPE ON SWIVEL
	17:30 - 06:00	12.50	DRL	1	DRLIN2	DRLG F/ 9315 T/ 9566 WOB 20/25, MW 9.7, GPM 502, DHRPM 75, TDRPM 65, DIFF 122, SPP 2480, ROP 20
8/20/2008	06:00 - 08:00	2.00	DRL	1	DRLIN2	DRLG F/ 9566 T/ 9596 WOB 20/22, MW 9.7+, GPM 502, DHRPM 75, TDRPM 66, DIFF 145, SPP 2500, ROP 15
	08:00 - 08:30	0.50	RIG	1	DRLIN2	RIG SERVICE
	08:30 - 09:30	1.00	SUR	1	DRLIN2	SURVEY @ 9522
	09:30 - 23:30	14.00	DRL	1	DRLIN2	DRLG F/ 9596 T/ 9939 WOB 20, MW 9.9, MOTOR .15, GPM 502, DHRPM 75, TDRPM 66, DIFF 377, SPP 2537, BACK GROUND GAS 800 UNITS, NO FLARE, ROP 24.5
	23:30 - 00:00	0.50	CIRC	1	DRLIN2	CIRC FOR SURVEY
	00:00 - 01:00	1.00	SUR	1	DRLIN2	SURVEY @ 9833 DEG 2.9, AZI 157.2
	01:00 - 06:00	5.00	DRL	1	DRLIN2	DRLG F/ 9938 T/ 10,000 WOB 15/18, MW 9.9, GPM502, DHRPM75, TDRPM 66/70, DIFF 90, SPP 2650, BGG 839 UNITS, ROP 12.4
8/21/2008	06:00 - 06:30	0.50	DRL	1	DRLIN2	DRLG F/ 10,000 T/ 10011 WOB 18, GPM 502, MOTOR .15, DHRPM 75, TDRPM 70, DIFF 159, SPP 2780, BGG 650, ROP 22.0
	06:30 - 07:00	0.50	CIRC	1	DRLIN2	CIRC BOTTOMS UP, MIX TRIP SLUG
	07:00 - 07:30	0.50	SUR	1	DRLIN2	FLOW CHECK & DROP SURVEY
	07:30 - 13:00	5.50	TRP	2	DRLIN2	POOH, L/D MOTOR & BIT
	13:00 - 13:30	0.50	OTH		DRLIN2	PULL WEAR BUSHING
	13:30 - 21:00	7.50	BOP	2	DRLIN2	R/U & TEST BOP, R/D TESTER. LOWER KELLY VALVE,UPPER KELLY, DART VALVE,TIW,PIPE RAMS ,INSIDE OUT SIDE, CHOKE MANIFLOD, BLINE RAMS ,SUPER CHOKE, LOW 250, HIGH 5,000#, ANNULAR 250 LOW, HIGH 2,500, BACK TO PUMPS 3,000#, RCOVERY TIME ON ACCUMULATOR 1MIN 50 SEC
	21:00 - 21:30	0.50	OTH		DRLIN2	INSTALL WEAR BUSHING
	21:30 - 22:00	0.50	RIG	1	DRLIN2	RIG SERVICE
	22:00 - 06:00	8.00	RIG	2	DRLIN2	WORK ON TOP DRIVE MOTOR & SEALS IN UPPER & LOWER HYD MOTORS ON TOP DRIVE
8/22/2008	06:00 - 08:30	2.50	RIG	2	DRLIN2	WORK ON TOP DRIVE HYD MOTORS
	08:30 - 10:30	2.00	TRP	2	DRLIN2	RIH
	10:30 - 11:00	0.50	RIG	1	DRLIN2	RIG SERVICE
	11:00 - 15:00	4.00	TRP	2	DRLIN2	RIH, WORK TIGHT HOLE @ 1947
	15:00 - 15:30	0.50	REAM	1	DRLIN2	WASH & REAM F/ 9881 T/ 10011
	15:30 - 06:00	14.50	DRL	1	DRLIN2	DRLG F/ 10011 T/ 10430 WOB 8/15, MW 9.9+, GPM 419, MOTOR .24 RPG, DHRPM 100, TDRPM 60, DIFF 150, SPP 2020, BGG 4800 U, ROP 28.9
8/23/2008	06:00 - 14:30	8.50	DRL	1	DRLIN2	DRLG F/ 10430 T/ 10537 WOB 15/18, MW 10.1+, GPM 419, MOTOR .24 RPG, DHRPM 100, TDRPM 60, DIFF 103, SPP 1990, BGG 3660 U, ROP 12.5
	14:30 - 15:00	0.50	RIG	1	DRLIN2	RIG SERVICE
	15:00 - 16:00	1.00	SUR	1	DRLIN2	SURVEY @ 10471 DEG 1.0, AZ 150.38
	16:00 - 06:00	14.00	DRL	1	DRLIN2	DRLG F/ 10537 T/ WOB 20, MW 10.2, GPM 419, DHRPM 100, TDRPM 60, DIFF 200, SPP 2140, BGG 3144, ROP
8/24/2008	06:00 - 11:00	5.00	DRL	1	DRLIN2	DRLG F/ 10748 T/ 10802 WOB 18/25, MW 8.3, GPM 419,MOTOR .24 RPG, DHRPM 100, TDRPM 60, DIFF 175, SPP 2100, BGG 1066, ROP

Operations Summary Report

Legal Well Name: WV 8D-15-8-21 STO 1
Common Well Name: WV 8D-15-8-21 STO 1
Event Name: DRILLING
Contractor Name: Unit Drilling Co.
Rig Name: UNIT

Start: 7/2/2008
Rig Release:
Rig Number: 232

Spud Date: 6/28/2008
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/24/2008	06:00 - 11:00	5.00	DRL	1	DRLIN2	10.8
	11:00 - 12:30	1.50	CIRC	1	DRLIN2	CIRC BOTTOMS UP & BUILD TRIP SLUG
	12:30 - 13:00	0.50	OTH		DRLIN2	FLOW CHECK , DROP SURVEY @ 10770, 1.1 DEG, 184.7 AZ
	13:00 - 18:00	5.00	TRP	2	DRLIN2	POOH
	18:00 - 21:30	3.50			DRLIN2	C/O BIT & MOTOR & RIH
	21:30 - 22:30	1.00	RIG	6	DRLIN2	CUT DRLG LINE
	22:30 - 01:00	2.50	TRP	1	DRLIN2	RIH T/ 10602
	01:00 - 02:30	1.50	REAM	1	DRLIN2	WASH & REAM F/ 10602 T/ 10802
	02:30 - 06:00	3.50	DRL	1	DRLIN2	DRLG F/ 10802 T/ 10871 WOB 15, MW 10.3, GPM 436, MOTOR .22 RPG, DHRPM 96, TDRPM 60, DIFF 174, SPP 2260, BGG 850, ROP
8/25/2008	06:00 - 10:30	4.50	DRL	1	DRLIN2	DRLG F/ 10871 T/ 11001 WOB 8/18, MW 10.2+, GPM 426, MOTOR .22 GPR, DHRPM 96, TDRPM 60, DIFF 230, SPP 2335, ROP 28.8
	10:30 - 11:00	0.50	RIG	1	DRLIN2	RIG SERVICE
	11:00 - 06:00	19.00	DRL	1	DRLIN2	DRLG F/ 11001 T/ 11446 WOB15/18, MW 10.3, 426 GPM, DHRPM 96, TDRPM 60, DIFF 230, SPP 22325, ROP 23.4
8/26/2008	06:00 - 12:00	6.00	DRL	1	DRLIN2	DRLF F/ 11446 T/ 11566 WOB 15/20, MW 10.4+, GPM 423, MOTOR .22, DHRPM 93, TDRPM 60, DIFF 110, SPP 2290, BGG 2304, ROP 20
	12:00 - 12:30	0.50	RIG	1	DRLIN2	RIG SERVICE
	12:30 - 13:00	0.50	DRL	1	DRLIN2	DRLG F/ 11566 T/ 11585 WOB 20/25, MW 10.4+, GPM 423,
	13:00 - 14:00	1.00	CIRC	1	DRLIN2	CIRC & BULD TRIP SLUG
	14:00 - 14:30	0.50	OTH		DRLIN2	FLOW CHECK & DROP SURVEY
	14:30 - 19:00	4.50	TRP	10	DRLIN2	POOH
	19:00 - 20:30	1.50	RIG	2	DRLIN2	C/O HYDRAULIC HOES ON TOP DRIVE
	20:30 - 22:00	1.50	TRP	10	DRLIN2	POOH
	22:00 - 03:30	5.50	TRP	10	DRLIN2	C/O BIT & RIH
	03:30 - 04:00	0.50	REAM	1	DRLIN2	SAFTY WASH F/ 10150 T/ 11585
	04:00 - 06:00	2.00	DRL	1	DRLIN2	DRLG F/ 11585 T/11611 WOB 8/10, MW 10.4+, GPM 418, MOTOR .22 RPG, DHRPM 92, TDRPM 60, DIFF 50, SPP 2170, ROP 13
8/27/2008	06:00 - 10:00	4.00	DRL	1	DRLIN2	DRLG F/ 11611 T/ 11715 WOB 8/15, MW 14+, GPM 418, MOTOR .22 RPG, DHRPM 92, TDRPM 60, DIFF 141, SPP 2244, BGG 2870, ROP 26
	10:00 - 13:00	3.00	CIRC	1	DRLIN2	TOOK 18 BBL KICK & CIRC OUT GAS 40 ft FLARE mAX GAS 8050 UT
	13:00 - 13:30	0.50	RIG	1	DRLIN2	RIG SERVICE
	13:30 - 02:00	12.50	DRL	1	DRLIN2	DRLG F/ 11715 T/ 11866 WOB 15, MW 10.5, GPM 418, DHRPM 92, TDRPM 60, DIFF 182, SPP2245, ROP 14.3
	02:00 - 03:00	1.00	CIRC	1	DRLIN2	CIRC & BUILD ECD PILL & SPOT
	03:00 - 03:30	0.50	OTH		DRLIN2	FLOW CHECK
	03:30 - 06:00	2.50	TRP	2	DRLIN2	POOH
8/28/2008	06:00 - 10:30	4.50	TRP	2	DRLIN2	TRIP OUT & LAY DOWN MOTOR & BIT (FUNCTION BLIND RAMS & UPPER PIPE RAMS)
	10:30 - 11:00	0.50	RIG	1	DRLIN2	RIG SERVICE & SERVICE TOP DRIVE
	11:00 - 12:00	1.00	TRP	1	DRLIN2	WAIT ON MOTOR & IMPREG BIT
	12:00 - 18:00	6.00	ISP	1	DRLIN2	INSPECT BHA (LAY DOWN 2 JOINTS HWDP HAD WASH PIN & BOX)
	18:00 - 20:00	2.00	TRP	2	DRLIN2	TRIP IN & FILL PIPE EVERY 3 ROWS TO@ 5820
	20:00 - 20:30	0.50	CIRC	1	DRLIN2	CIRCULAUTE BTMS UP @ 5802 (10-15' FLAIR)
	20:30 - 23:30	3.00	TRP	2	DRLIN2	STAGE IN THE HOLE F/ 5802 TO 11597 & STAGE OUT ECD PILL(60-80'FLAIR)
	23:30 - 05:00	5.50	REAM	1	DRLIN2	WASH & REAM F/ 11,597 TO 11,866 (WT 2-4K / MTR 377 / TDRP 40-45 / GPM 377 /) RAISE MUD WT 10.8
	05:00 - 06:00	1.00	DRL	1	DRLIN2	WASH & REAM F/ 11,597 TO 11,866 (WT 2-4K / MTR 377 / TDRP 40-45 / GPM 377 /) RAISE MUD WT 11 PGM

Operations Summary Report

Legal Well Name: WV 8D-15-8-21 STO 1
Common Well Name: WV 8D-15-8-21 STO 1 Spud Date: 6/28/2008
Event Name: DRILLING Start: 7/2/2008 End:
Contractor Name: Unit Drilling Co. Rig Release: Group:
Rig Name: UNIT Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/29/2008	06:00 - 11:30	5.50	DRL	1	DRLIN2	DRLG F/11,866' TO 11,878' (12 FT. AT 2.1 FPH)
	11:30 - 12:00	0.50	RIG	1	DRLIN2	RIG SERVICE
	12:00 - 17:30	5.50	DRL	1	DRLIN2	DRLG. F/ 11,878' TO 11,909' (31 FT. AT 5.6 FPH)
	17:30 - 23:30	6.00	CIRC	2	DRLIN2	LOST CIRCULATION AT 11,909' MIXING AND PUMPING LCM SWEEPS,CONTINUED TO TAKE FLUID AND COULD NOT GAIN ON VOLUME.
	23:30 - 00:00	0.50	TRP	2	DRLIN2	PULL 5 STD'S DRILL PIPE TO GET ABOVE LOSS ZONE
	00:00 - 03:30	3.50	CIRC	2	DRLIN2	BUILDING VOLUME,RAISE WEIGHT IN PRE-MIX,PUMPING 5 BBL'S EVERY 15 MIN AND ROTATING PIPE
	03:30 - 06:00	2.50			DRLIN2	DRILL F/ 11909 TO 11918 (9 FT @ 3.6 FTH) LOST APPROX 670 BBLS IN 24 HRS BUILD VOLUME 11% LCM IN SYSTEM
8/30/2008	06:00 - 17:30	11.50	DRL	1	DRLIN2	DRLG. F / 11,918' TO 11,971' (53 FT. @4.6 FPH)WOB 12/14,RPM 62,SPM 100 AT 2750 PSI,419 GPM
	17:30 - 18:00	0.50	RIG	1	DRLIN2	RIG SERVICE
	18:00 - 04:00	10.00	DRL	1	DRLIN2	DRLG. F / 11,971' TO 12,050' (79 FT. @7.9 FPH)WOB 12/14,RPM 62,SPM 100 AT 2750 PSI,419 GPM
	04:00 - 06:00	2.00	CIRC	5	DRLIN2	CIRCULATE UP SAMPLES AT 12,050'
8/31/2008	06:00 - 07:30	1.50	CIRC	5	DRLIN2	CIRC. BTMS UP - PUMP & SPOT ECD PILL
	07:30 - 08:30	1.00	TRP	2	DRLIN2	TRIP OUT TO 10,567' (15 STD'S)
	08:30 - 10:30	2.00	CIRC	1	DRLIN2	CIRC. BTM'S UP
	10:30 - 12:30	2.00	TRP	2	DRLIN2	TRIP OUT TO CSG. SHOE
	12:30 - 13:00	0.50	RIG	1	DRLIN2	RIG SERVICE & FLOW CHECK
	13:00 - 16:30	3.50	TRP	2	DRLIN2	FINISH TRIP OUT - L.DOWN MTR. & MONEL & D.COLLAR
	16:30 - 02:30	10.00	LOG	1	DRLIN2	HOLD SAFETY MTG. W/ ALL PERSONNEL & RIG UP & LOG WITH HALIBURTON,LOGGERS DEPTH AT 12,038',HAD TOOL FAILURE 2000 FT OFF BTM,P.O.O.H WITH TOOLS AND REPLACE BAD TOOLS,RUN BACK IN AND COMPLETE LOGGING RUN.
	02:30 - 06:00	3.50	TRP	2	DRLIN2	PICK UP RR BIT # 12 AND TRIP IN
9/1/2008	06:00 - 07:00	1.00	RIG	6	DRLIN2	SLIP & CUT DRILLING LINE
	07:00 - 08:00	1.00	CIRC	1	DRLIN2	CIRC. BTMS UP AT CASING SHOE (5400')
	08:00 - 11:30	3.50	TRP	2	DRLIN2	TRIP IN HOLE (STAGE IN)
	11:30 - 12:00	0.50	RIG	1	DRLIN2	RIG SERVICE
	12:00 - 14:00	2.00	CIRC	1	DRLIN2	CIRC. BTMS UP AND GAS OUT (60'-80' FLARE)
	14:00 - 14:30	0.50	CIRC	1	DRLIN2	SPOT 100 BBL ECD PILL AT 13 PPG. W/ 15% LCM
	14:30 - 16:00	1.50	TRP	3	DRLIN2	LAY DOWN 45 JT'S DRILL PIPE (SAFETY MTG W/ ALL PERSONNEL)
	16:00 - 17:00	1.00	CIRC	1	DRLIN2	CIRC. GAS OUT
	17:00 - 01:00	8.00	TRP	3	DRLIN2	PUMP PILL & L.D.D.P
	01:00 - 01:30	0.50	OTH		DRLIN2	PULL WEAR BUSHING
	01:30 - 02:00	0.50	RIG	7	DRLIN2	HELD SAFETY MTG. WITH ALL PERSONNEL
	02:00 - 04:30	2.50	CSG	1	DRLIN2	RIG UP CASING CREW
	04:30 - 06:00	1.50	CSG	2	DRLIN2	MAKE UP SHOE TRACK & RUN 7" CASING
	06:00 -				DRLIN2	NOTIFY JAMEY WITH BLM ON RUNNING 7" CASING AND CEMENTING ON 8/31/2008 AT 0845 HR'S ON VOICE MAIL MESSAGE.
9/2/2008	06:00 - 06:30	0.50	RIG	7	CSGIN2	HELD SAFETY MTG. W/ DAYLIGHT CREW & ALL CASING PERSONNEL
	06:30 - 15:00	8.50	CSG	2	CSGIN2	FINISH RUNNING 7" CASING(77 JT'S 29#LT&C,HCP 110,205 JT'S 26# LT&C,HCP-110 LANDED AT 12,039.15,ST.WT,252,000#
	15:00 - 16:00	1.00	CSG	1	CSGIN2	RIG DOWN CASING CREW
	16:00 - 20:00	4.00	CIRC	1	CSGIN2	CIRCULATE GAS OUT
	20:00 - 20:30	0.50	CSG	1	CSGIN2	RIG DOWN FILL TOOL
	20:30 - 23:00	2.50			CSGIN2	PULL LANDING JT. - INSTALL CASING ISOLATION BUSHING & ISOLATION TOOL

Operations Summary Report

Legal Well Name: WV 8D-15-8-21 STO 1
Common Well Name: WV 8D-15-8-21 STO 1
Spud Date: 6/28/2008
Event Name: DRILLING
Start: 7/2/2008
End:
Contractor Name: Unit Drilling Co.
Rig Release:
Group:
Rig Name: UNIT
Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
9/2/2008	23:00 - 02:00	3.00	CMT	1	CSGIN2	RIG UP CEMENTERS
	02:00 - 02:30	0.50	RIG	7	CSGIN2	SAFETY MTG. WITH CEMENTERS & RIG PERSONNEL
	02:30 - 04:30	2.00	CMT	2	CSGIN2	SWAP CEMENT LINES FROM C SECTION TO B SECTION
	04:30 - 05:00	0.50	CMT	2	CSGIN2	RETEST CEMENT NITROGEN LINES,CEMENT TO 6000 PSI & 8000 PSI ON N2
	05:00 - 06:00	1.00	CMT	2	CSGIN2	CEMENT 7" CASING
9/3/2008	06:00 - 10:30	4.50	CMT	2	CSGIN2	FINISH CEMENTING 7" CASING,HAD CEMENT TO SURFACE AFTER PUMPING 340 BBL'S OF DISPLACEMENT MUD,HAD RETURNS THROUGHOUT JOB,WENT 2.5 BBL'S OVER DISPLACEMENT AND BUMP PLUG,TEST CASING FOR 30 MIN. FLOATS NOT HOLDING,PUMP BACK UP TO 600 PSI WAIT 5 MIN. STILL NOT HOLDING,PRESSURE BACK UP 600 PSI AND LEAVE PRESSURE ON CASING.
	10:30 - 11:30	1.00	CMT	1	CSGIN2	RIG DOWN HALIBURTON
	11:30 - 17:00	5.50	WOT	1	CSGIN2	OPEN VALVE ON CEMENT HEAD,TOTAL BBL'S BACK 6.0,MONITOR CASING FOR RETURNS FOR ONE HR. NO GAIN ON FLUID
	17:00 - 18:00	1.00	WOT	1	CSGIN2	RIG DOWN CAMERONS CEMENT ISOLATION TOOL
	18:00 - 06:00	12.00	BOP	1	CSGIN2	GET BOPS READY TO CHANGE OUT RAMS ON 13 5/8 STACK , PUT VBR RAMS IN TOP & BOTTOM PIPE RAMS & GET PITS SYSTEM READY FOR OIL BASE MUD (NOTIFY JAMIE SPARKER @ 8:20 PM ABOUT TESTING BOPS LEFT VOICE MAIL9-2-2008)
9/4/2008	06:00 - 10:00	4.00	BOP	1	CSGIN2	NIPPLE UP BOPE AND CHANGE OUT TOP PIPE RAMS TO VARIABLES
	10:00 - 15:00	5.00	BOP	2	CSGIN2	TEST BOPE,TOP,BOTTOM,PIPE RAMS,BLIND RAMS TO 250 PSI LOW FOR 5 MIN.HIGH TO 10,000 PSI FOR 10 MIN.UPPER & LOWER TOP DRIVE VALVES,DART & SAFETY VALVEAT 250 LOW AT 5 MIN. HIGH 10,000 PSI AT 10 MIN.CHOKE LINE AND MANIFOLD 250 LOW AT 5 MIN. HIGH 10,000 PSI 10 MIN.ANNULAR 250 LOW AT 5 MIN. HIGH AT 5000 PSI AT 10 MIN.SURFACE CASING TO 1500 PSI AT 30 MIN.SURFACE LINES TO 3000 PSI
	15:00 - 15:30	0.50	BOP	2	CSGIN2	REPLACE SEALS ON DOOR HINGE TOP PIPE RAMS ODS
	15:30 - 16:00	0.50	OTH		CSGIN2	SET WEAR BUSHING
	16:00 - 21:00	5.00	OTH		CSGIN2	PUT FLOW LINE TOGETHER,PICK UP IN CELLAR INSTALL GRADING,PICK UP 4" HANDLING SUBS,STRAP BHA AND LOAD RACKS
	21:00 - 22:00	1.00	OTH		CSGIN2	RIG UP PICK UP MACHINE
	22:00 - 06:00	8.00	TRP	5	CSGIN2	PICK UP BHA AND 4" DRILL PIPE
9/5/2008	06:00 - 11:30	5.50	TRP	5	DRLPRO	PICK UP 4" DRILL PIPE
	11:30 - 12:30	1.00	CSG	1	DRLPRO	RIG DOWN PICK UP MACHINE
	12:30 - 13:30	1.00	DRL	4	DRLPRO	DRILL CEMENT & FLOAT EQUIPMENT (11,941' TO 12,039')
	13:30 - 14:30	1.00	CIRC	1	DRLPRO	CIRCULATE AND EVAN MUD WT. OUT
	14:30 - 15:00	0.50	EQT	2	DRLPRO	PERFORM F.I.T EMW = 15.5 PPG AT 1255 PSI,(FORMATION HELD PRESSURE) AT 12,049'
	15:00 - 15:30	0.50	RIG	1	DRLPRO	RIG SERVICE
	15:30 - 06:00	14.50			DRLPRO	DRLG. F/ 12,050' TO 12,368' (318' @ 21.9 FPH)WOB 12/14,RPM 58,78 SPM,3080 PSI
9/6/2008	06:00 - 10:00	4.00	DRL	1	DRLPRO	DRLG. FROM 12,368' TO 12,530'(162'@40.5 FPH)
	10:00 - 11:00	1.00	CIRC	1	DRLPRO	CIRCULATE BTMS UP
	11:00 - 11:30	0.50	TRP	2	DRLPRO	PULL 6 STD'S OUT TO 7" CASING SHOE
	11:30 - 12:00	0.50	EQT	2	DRLPRO	PERFORM F.I.T,EMW 15.5 PPG,HELD PRESSURE AT 1270 PSI
	12:00 - 12:30	0.50	RIG	1	DRLPRO	RIG SERVICE
	12:30 - 13:00	0.50	TRP	2	DRLPRO	TRIP BACK TO BTM.
	13:00 - 17:30	4.50	LOC	7	DRLPRO	CLEAN PRE-MIX TANK,PILL & TRIP TANK AND DISPLACE OIL MUD

Operations Summary Report

Legal Well Name: WV 8D-15-8-21 STO 1
Common Well Name: WV 8D-15-8-21 STO 1
Spud Date: 6/28/2008
Event Name: DRILLING
Start: 7/2/2008
End:
Contractor Name: Unit Drilling Co.
Rig Release:
Group:
Rig Name: UNIT
Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
9/6/2008	13:00 - 17:30	4.50	LOC	7	DRLPRO	IN HOLE
	17:30 - 23:30	6.00	TRP	2	DRLPRO	PUMP PILL & TRIP OUT
	23:30 - 06:00	6.50	TRP	2	DRLPRO	PICK UP MUD MTR. & BIT #14 AND T.I.H
9/7/2008	06:00 - 07:30	1.50	CIRC	1	DRLPRO	CIRCULATE BTMS UP
	07:30 - 08:00	0.50	TRP	2	DRLPRO	FINISH TRIP I N
	08:00 - 08:30	0.50	DRL	1	DRLPRO	DRLG. F/ 12,530' TO 12,537'
	08:30 - 09:00	0.50	OTH		DRLPRO	FLOW CHECK,CLEAN UP SHAKERS
	09:00 - 12:00	3.00	OTH		DRLPRO	ATTEMPT TO GET BIT DRILLING,NO GO
	12:00 - 14:00	2.00	CIRC	1	DRLPRO	CIRCULATE,CHECKING ON MUD MTR'S. AVAILABLITY
	14:00 - 19:30	5.50	TRP	2	DRLPRO	TRIP OUT
	19:30 - 20:30	1.00	TRP	1	DRLPRO	LAY DOWN MUD MTR. MONEL,WASHED OUT IN MIDDLE OF COLLAR CRACK WAS 8" LONG AND VERTICAL,P/U ANOTHER MONEL,
	20:30 - 01:00	4.50	TRP	2	DRLPRO	TRIP IN HOLE
	01:00 - 06:00	5.00	DRL	1	DRLPRO	DRLG. F/ 12,537' TO 12,724'(35.2 FPH)WOB 14,RPM 70,SPM 66,277GPM
9/8/2008	06:00 - 12:30	6.50	DRL	1	DRLPRO	DRLG. F/12,724' TO 12,974' (200'@30.7FPH)WOB 14,RPM 70,SPM 64,PSI 3050
	12:30 - 17:00	4.50	WCL	1	DRLPRO	TOOK 50 BBL.GAIN,SHUT WELL IN,RAISE MUD WEIGHT AND CIRCULATE OUT GAS.
	17:00 - 06:00	13.00	DRL	1	DRLPRO	DRLG. F/12,974' TO 13,225' (251'@19.3.FPH)WOB 14,RPM 70,SPM 64,PSI 3050
9/9/2008	06:00 - 08:30	2.50	DRL	1	DRLPRO	DRLG. F/13,225' TO 13,301' (76'@30.4FPH)WOB 15,RPM 70,SPM 64 269 GPM
	08:30 - 09:00	0.50	RIG	1	DRLPRO	RIG SERVICE
	09:00 - 06:00	21.00	DRL	1	DRLPRO	DRLG. F/13,301' TO 13,850' (549'@26.1FPH)WOB 15,RPM 70,SPM 64 269 GPM
9/10/2008	06:00 - 13:00	7.00	DRL	1	DRLPRO	DRLG. F/13,850' TO 13,983' (133' @ 19.0 FPH)WOB 17,RPM 70,SPM 52
	13:00 - 13:30	0.50	RIG	1	DRLPRO	RIG SERVICE
	13:30 - 14:30	1.00	CIRC	1	DRLPRO	CIRCULATE BTM'S UP
	14:30 - 15:00	0.50	SUR	1	DRLPRO	DROP SURVEY
	15:00 - 15:30	0.50	CIRC	1	DRLPRO	PUMP ECD PILL
	15:30 - 17:00	1.50	TRP	2	DRLPRO	TRIP OUT 28 STD'S
	17:00 - 17:30	0.50	OTH		DRLPRO	FLOW CHECK & PUMP PILL
	17:30 - 19:00	1.50	CIRC	1	DRLPRO	CIRCULATE BTM'S
	19:00 - 00:30	5.50	TRP	2	DRLPRO	PUMP PILL & TRIP OUT
	00:30 - 06:00	5.50			DRLPRO	PICK UP BIT & MUD MTR. & T.I.H
9/11/2008	06:00 - 08:00	2.00	TRP	2	DRLPRO	RIH TO 11550 FILL PIPE
	08:00 - 09:00	1.00	CIRC	1	DRLPRO	CIRC ECD PILL
	09:00 - 09:30	0.50	TRP	1	DRLPRO	RIH TO 12039 (SHOE)
	09:30 - 11:00	1.50	CIRC	1	DRLPRO	CIRC ECD PILL, 4,200 UT GAS, 20' FLARE
	11:00 - 11:30	0.50	TRP	2	DRLPRO	RIH TO 13000
	11:30 - 13:00	1.50	CIRC	1	DRLPRO	CIRC BOTTOM OF ECD PILL OUT, 6,600 UT GAS, 50' FLARE, 33 BBL GANE
	13:00 - 13:30	0.50	TRP	2	DRLPRO	RIH TO 13882
	13:30 - 15:00	1.50	CIRC	1	DRLPRO	CIRC FLANGE ON ROTATING HEAD LEAKING, CLOSED ANNULAR & CIRC THROUGH CHOKE WHILE TIGHTING BOLTS ON FLANGE, 6,700 UT GAS, 50' FLARE, 30 BBL GANE
	15:00 - 15:30	0.50	REAM	1	DRLPRO	WASH 150' TO BOTTOM
	15:30 - 06:00	14.50	DRL	1	DRLPRO	DRLG F/ 13983 T/ 14294 WOB 8/10, MOTOR .52 GPR, GPM 193, DHRPM 100, TDRPM 45, DIFF 390, SPP 2615, ROP 21.4
9/12/2008	06:00 - 12:30	6.50	DRL	1	DRLPRO	DRLG F/ 14294 T/ 14488 WOB 10/15, GPM 193, DHRPM 100, TDRPM

Operations Summary Report

Legal Well Name: WV 8D-15-8-21 STO 1
Common Well Name: WV 8D-15-8-21 STO 1
Spud Date: 6/28/2008
Event Name: DRILLING
Start: 7/2/2008
End:
Contractor Name: Unit Drilling Co.
Rig Release:
Group:
Rig Name: UNIT
Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
9/12/2008	06:00 - 12:30	6.50	DRL	1	DRLPRO	45, DIFF 432, SPP 2650, ROP 29.8
	12:30 - 13:00	0.50	RIG	1	DRLPRO	RIG SERVICE
	13:00 - 06:00	17.00	DRL	1	DRLPRO	DRLG F/ 14488 T/ 15165 WOB 10/15, GPM 193, DHRPM 100, TDRPM 45, DIFF7 700, SPP 2879, ROP 39.8
9/13/2008	06:00 - 11:00	5.00	DRL	1	DRLPRO	DRLG F/ 15165 T/15353 WOB 10/17, GPM 193, DHRPM 100, TDRPM 45, DIFF 550, SPP 2950, ROP 37.6
	11:00 - 12:00	1.00	CIRC	1	DRLPRO	CIRC & BUILD ECD PILL
	12:00 - 12:30	0.50	OTH		DRLPRO	DROP SURVEY
	12:30 - 14:00	1.50	CIRC	1	DRLPRO	CIRC BOTTOMS UP
	14:00 - 15:00	1.00	CIRC	1	DRLPRO	SOPT ECD PILL
	15:00 - 18:00	3.00	TRP	2	DRLPRO	POOH
	18:00 - 18:30	0.50	OTH		DRLPRO	FLOW CHECK @ 12030 NO FLOW
	18:30 - 19:30	1.00	RIG	6	DRLPRO	CUT DRLG LINE
	19:30 - 20:00	0.50	CIRC	1	DRLPRO	CIRC BOTTOMS UP
	20:00 - 01:30	5.50	TRP	2	DRLPRO	POOH
	01:30 - 02:00	0.50	TRP	2	DRLPRO	C/O BIT & MOTOR
	02:00 - 06:00	4.00	TRP	2	DRLPRO	RIH
9/14/2008	06:00 - 09:00	3.00	TRP	2	DRLPRO	RIH TO 12815
	09:00 - 10:00	1.00	CIRC	1	DRLPRO	CIRC OUT 1/2 ECD PILL
	10:00 - 11:00	1.00	TRP	2	DRLPRO	RIH F/ 12815 T/ 15353
	11:00 - 13:00	2.00	CIRC	1	DRLPRO	CIRC OUT ECD PILL & BOTTOMS UP
	13:00 - 06:00	17.00	DRL	1	DRLPRO	DRLG F/ 15353 T/ 16037 WOB 8/12, MOTOR HUNT .25 RPG, GPM 209, DHRPM 54, TDRPM 45, DIFF 253, SPP 2850, ROP 40.2
9/15/2008	06:00 - 15:30	9.50	DRL	1	DRLPRO	DRLG F/ 16037 T/ 16139 WOB 10/15, GPM 188, DHRPM 49, TDRPM 44, DIFF 300, SPP 2900, ROP 10.7
	15:30 - 16:00	0.50	RIG	1	DRLPRO	RIG SERVICE
	16:00 - 18:00	2.00	DRL	1	DRLPRO	DRLG F/ 16139 T/ 16150 WOB 10/17, GPM 192, DHRPM 50, TDRPM 50, DIFF 350, SPP 3000, ROP 5.5
	18:00 - 21:30	3.50	CIRC	1	DRLPRO	CIRC & BUILD ECD PILL & SPOT
	21:30 - 06:00	8.50	TRP	12	DRLPRO	POOH
9/16/2008	06:00 - 07:00	1.00	TRP	13	DRLPRO	POOH
	07:00 - 08:00	1.00	TRP	2	DRLPRO	C/O MOTOR & BIT
	08:00 - 12:30	4.50	TRP	2	DRLPRO	RIH TO 12555
	12:30 - 14:30	2.00	CIRC	1	DRLPRO	CIRC OUT PATR OF ECD PILL, LOST PARTIAL RETURNS REDUCED PUMP TO 20 SPM
	14:30 - 15:00	0.50	TRP	2	DRLPRO	POOH TO 12000'
	15:00 - 19:00	4.00	CIRC	1	DRLPRO	CIRC @ 20 SPM REDUCING MW FROM 15.8 TO 14 .7 GAS 4200 UT 30' FLARE
	19:00 - 19:30	0.50	TRP	2	DRLPRO	RIH F/ 12000 T/ 12655
	19:30 - 22:30	3.00	CIRC	1	DRLPRO	CIRC BOTTOMS UP
	22:30 - 00:30	2.00	TRP	2	DRLPRO	RIH F/ 12655 T/ 16000
	00:30 - 02:30	2.00	CIRC	1	DRLPRO	CIRC BOTTOMS UP
	02:30 - 06:00	3.50	DRL	1	DRLPRO	DRLG F/ 16150 T/ 16293 WOB 8/10, MOTOR .65, GPM 184, DHRPM 103, TDRPM 44, DIFF 450 , SPP 2800, ROP 40.8
9/17/2008	06:00 - 07:30	1.50	DRL	1	DRLPRO	DRLG F/ 16293 T/ 16324 WOB 8/10, GPM 188, DHRPM 105,TDRPM 15 DIFF 350, SPP 2850, ROP 20.6
	07:30 - 08:00	0.50	RIG	1	DRLPRO	RIG SERCICE
	08:00 - 00:30	16.50	DRL	1	DRLPRO	DRLG F/ 16324 T/ 16680 WOB 8/15, GPM 184, MW 14.7+, DHRPM 103, TDRPM 20, DIFF 350, SPP 2837, ROP 21.5
	00:30 - 03:30	3.00	CIRC	1	DRLPRO	CIRC & BUILD ECD PILL & SPOT, 1.5 # OVER
	03:30 - 06:00	2.50	TRP	2	DRLPRO	POOH
9/18/2008	06:00 - 12:00	6.00	TRP	10	DRLPRO	POOH
	12:00 - 13:30	1.50	TRP	10	DRLPRO	CRETRIVE SURVEY (MISS RUN) L/D BIT & MOTOR, P/U BIT &

Operations Summary Report

Legal Well Name: WV 8D-15-8-21 STO 1
Common Well Name: WV 8D-15-8-21 STO 1
Spud Date: 6/28/2008
Event Name: DRILLING
Start: 7/2/2008
End:
Contractor Name: Unit Drilling Co.
Rig Release:
Group:
Rig Name: UNIT
Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
9/18/2008	12:00 - 13:30	1.50	TRP	10	DRLPRO	TORQUE BUSTER
	13:30 - 18:30	5.00	TRP	10	DRLPRO	RIH
	18:30 - 20:30	2.00	CIRC	1	DRLPRO	CIRC BOTTOMS UP @ 12000
	20:30 - 22:30	2.00	TRP	10	DRLPRO	RIH
	22:30 - 00:00	1.50	CIRC	1	DRLPRO	CIRC & WASH 90' TO BOTTOM
	00:00 - 06:00	6.00	DRL	1	DRLPRO	DRLG F/ 16680 T/ 16730 WOB 10/13, GPM 205, TDRPM 50, SPP 2575, ROP 8.3
9/19/2008	06:00 - 13:30	7.50	DRL	1	DRLPRO	DRLG F/ 16730 T/ 16785 WOB 10/15, GPM 205, TDRPM 45/55, SPP 2565, ROP 7.8
	13:30 - 14:00	0.50	RIG	1	DRLPRO	RIG SERVICE
	14:00 - 06:00	16.00	DRL	1	DRLPRO	DRLG F/ 16730 T/ 16857 WOB 15/25, GPM 205, TDRPM 45/55, SPP 2500, ROP 9
9/20/2008	06:00 - 10:00	4.00	DRL	1	DRLPRO	DRLG F/ 16857 T/ 16879 WOB 20/30, GPM 209, TDRPM 45/55, SPP 2550, ROP 5.5
	10:00 - 11:00	1.00	SUR	1	DRLPRO	DROP SURVEY & FLOW CHECK
	11:00 - 12:00	1.00	CIRC	1	DRLPRO	CIRC & SPOT ECD PILL
	12:00 - 20:00	8.00	TRP	10	DRLPRO	POOH
	20:00 - 20:30	0.50	TRP	10	DRLPRO	C/O BIT & P/U MOTOR
	20:30 - 01:00	4.50	TRP	10	DRLPRO	RIH
	01:00 - 02:30	1.50	CIRC	1	DRLPRO	CIRC ECD PILL
	02:30 - 05:00	2.50	TRP	10	DRLPRO	RIH
	05:00 - 06:00	1.00	CIRC	1	DRLPRO	CIRC ECD PILL & WASH TO BOTTOM
9/21/2008	06:00 - 07:00	1.00	CIRC	1	DRLPRO	CIRC BOTTOMS UP & ECD PILL OUT
	07:00 - 08:00	1.00	OTH		DRLPRO	C/O ROTATING HEAD
	08:00 - 14:00	6.00	DRL	1	DRLPRO	DRLG F/ 16879 T/ 16906 BIT TRY CONE, WOB 18, MOTOR .26, GPM 197, DHRPM 51, TDRPM 36, DIFF 125, SPP 2900, ROP 4.5
	14:00 - 14:30	0.50	RIG	1	DRLPRO	RIG SERVICE
	14:30 - 04:00	13.50	DRL	1	DRLPRO	DRLG F/ 16909 T/ 16971
	04:00 - 06:00	2.00	CIRC	1	DRLPRO	CIRC BOTTOMS UP
9/22/2008	06:00 - 08:00	2.00	TRP	14	DRLPRO	SHORT TRIP 15 STANDS
	08:00 - 11:00	3.00	CIRC	1	DRLPRO	CIRC FOR LOGS, BUILD ECD PILL
	11:00 - 11:30	0.50	CIRC	1	DRLPRO	SOPT ECD PILL
	11:30 - 20:00	8.50	TRP	2	DRLPRO	POOH FOR LOGS & SLM 16965
	20:00 - 06:00	10.00	LOG	1	DRLPRO	PJSM, RIG UP SCHLUMBERGER & RUN # 1 PFX, # 2 OBIL
9/23/2008	06:00 - 18:30	12.50	LOG	1	EVALPR	RUN LOG # 2 OBMI & RIG DOWN SCHLUMBERGER
	18:30 - 03:30	9.00	TRP	2	EVALPR	RIH BROKE CIRC @ 12000 & CIRCBOTTOMS UP, 13,500 CIRC, 15000
	03:30 - 06:00	2.50	CIRC	1	EVALPR	CIRC BOTTOMS UP
9/24/2008	06:00 - 11:30	5.50	CIRC	1	EVALPR	CIRC & LOWER MW TO 14.8 & PUMP ECD PILL, 1# OVER
	11:30 - 03:00	15.50	TRP	3	EVALPR	L/D DP & BHA
	03:00 - 04:30	1.50	OTH		EVALPR	PULL WEAR RING
	04:30 - 06:00	1.50	CSG	1	EVALPR	PJSM & R/U CASING CREW
9/25/2008	06:00 - 09:00	3.00	OTH		EVALPR	WAIT ON CAMERON HAND & DIFFERANT TOOL TO PULL WEAR BUSHING
	09:00 - 09:30	0.50	RIG	7	CSGPRO	HELD SAFETY MEETING WITH CASING CREW & LAY DOWN CREW
	09:30 - 11:00	1.50	CSG	1	CSGPRO	FINISH RIGGING UP CASING CREW
	11:00 - 15:30	4.50	CSG	2	CSGPRO	RUN 4 1/2 PRODUCTION CASING & STAGING OUT ECD PILL & STIPPING MUD WT. BACK TO 14.7
	15:30 - 17:00	1.50	CIRC	1	CSGPRO	INSTALL ROTATING HEAD & CIRULATE BTMS UP 6,000'
	17:00 - 17:30	0.50	CSG	2	CSGPRO	RUN 4 1/2 PRODUCTION CASING & STAGING OUT ECD PILL & STIPPING MUD WT. BACK TO 14.7
	17:30 - 18:30	1.00	CSG	1	CSGPRO	CHANGE OUT DIES ON CASING ELEVATORS THEY WERE SLIPPING

Operations Summary Report

Legal Well Name: WV 8D-15-8-21 STO 1
Common Well Name: WV 8D-15-8-21 STO 1
Spud Date: 6/28/2008
Event Name: DRILLING
Start: 7/2/2008
End:
Contractor Name: Unit Drilling Co.
Rig Release:
Group:
Rig Name: UNIT
Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
9/25/2008	18:30 - 22:30	4.00	CSG	2	CSGPRO	RUN 4 1/2 PRODUCTION CASING & STAGING OUT ECD PILL & STIPPING MUD WT. BACK TO 14.7 @ DEPTH 12,000
	22:30 - 00:00	1.50	CSG	1	CSGPRO	REPAIR FILL TOOL & WORK ON SLIPS & ELEVATORS
	00:00 - 01:30	1.50	CSG	2	CSGPRO	RUN 4 1/2 PRODUCTION
	01:30 - 03:00	1.50	CIRC	1	CSGPRO	RUN 4 1/2 PRODUCTION CASING & STAGING OUT ECD PILL & STIPPING MUD WT. BACK TO 14.7 @ DEPTH 14,500
	03:00 - 05:30	2.50	CSG	2	CSGPRO	RUN 4 1/2 PRODUCTION
	05:30 - 06:00	0.50	CIRC	1	CSGPRO	RUN 4 1/2 PRODUCTION CASING & STAGING OUT ECD PILL & STIPPING MUD WT. BACK TO 14.7 @ DEPTH 16,971
9/26/2008	06:00 - 07:30	1.50	CSG	1	CSGPRO	RIG DOWN CASING & LAY DOWN CREW
	07:30 - 09:00	1.50	CMT	1	CSGPRO	RIG UP HALIBERTON SWEDGE & CEMENT HEAD
	09:00 - 11:00	2.00	CIRC	1	CSGPRO	CIRULATE GAS OUT BEFORE CEMENTING (CIRCULATE RATE 4 BBLS MIN & HAD 20-25' FLARE)
	11:00 - 11:30	0.50	RIG	7	CSGPRO	HELD SAFETY MEETING HALIBURTON
	11:30 - 14:00	2.50	CMT	2	CSGPRO	PRESSURE TEST LINES @ 12000 PSI & PUMP 40 BBL SPACER & 695 SX CLASS G PREMIUM CEMENT (DENSITY-15 LB - 211.6 BBLS) DISPLACEMENT 241.5 BBLS 8.3 H2O (BUMP PLUG & FLOATS HELD)
	14:00 - 15:00	1.00	CMT	1	CSGPRO	RIG DOWN HALIBURTON
	15:00 - 03:00	12.00	WOT	1	CSGPRO	WAIT ON CEMENT & GET STACK READY TO LIFT (CLEAN PITS W/ BADGER & FLUSH OUT CHOKE HOUSE & BUSTER)
	03:00 - 05:00	2.00	BOP	1	CSGPRO	SLACK OFF STRING WT. R/DOWN FLOOR & LIFT ROTARY TABLE & REMOVE ROTATING HEAD& PUT TABLE & FLOOR TOGETHER TO LIFT STACK
	05:00 - 06:00	1.00	BOP	1	CSGPRO	HOLD SAFETY MEETING WITH QUICK TEST & R/UP JACKS TO LIFT STACK
9/27/2008	06:00 - 09:00	3.00	BOP	1	DRLPRO	LIFT STACK & SET SLIPS @ STRING WT 200K & SET STACK BACK DOWN RIG DOWN QUICK TEST JACKS & CASING ELEVATORS & BAIL (RELEASE RIG 0900 AM / 9-26-2008)
	09:00 - 17:00	8.00	LOC	4	RDMO	REVIEW JSA & RIG DOWN TOP DRIVE & FLOOR
	17:00 - 18:00	1.00	LOC	4	RDMO	READY TO LAY DERRICK OVER
	18:00 - 06:00	12.00	LOC	3	RDMO	WAIT ON DAY LIGHT & HAD JDS ROUSTABOUT CLEAN SUBS

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU-0807

1a. Type of Well ☐ Oil Well ☑ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☑ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr..
Other:

6. If Indian, Allottee or Tribe Name
UTE TRIBE

7. Unit or CA Agreement Name and No.
WONSITS VALLEY UNIT

2. Name of Operator
Questar Exploration & Production Co.

8. Lease Name and Well No.
WV 8D 15 8 21

3. Address 11002 EAST 17500 SOUTH - VERNAL, UT 84078

3a. Phone No. *(include area code)*
435.781.4342 - Dahn Caldwell

9. AFI Well No.
43-047-39040

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**

At surface 2609' FSL, 289' FEL, SENE, SEC 15S-T8S-R21E

At top prod. interval reported below 2609' FSL, 289' FEL, SENE, SEC 15S-T8S-R21E

At total depth 2609' FSL, 289' FEL, SENE, SEC 15S-T8S-R21E

10. Field and Pool or Exploratory
WONSITS VALLEY

11. Sec., T., R., M., on Block and Survey or Area SEC 15S-T8S-R21E

12. County or Parish
UINTAH

13. State
UT

14. Date Spudded	15. Date T.D. Reached	16. Date Completed	17. Elevations (DF, RKB, RT, GL)*
06/28/2008	09/20/2008	☐ D & A ☑ Ready to Prod. 10/21/2008	4719' KB

18. Total Depth: MD / TVD	19. Plug Back T.D.: MD / TVD	20. Depth Bridge Plug Set: MD / TVD
16,971'	16,969'	

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CBL/PE/3D LDT/ACB/GR/CCL/TEMP, LITHO/COMP NEUTRON/AIT & SPECTRAL DENSITY DSN/HAL

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 Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2"	13-3/8"	54.5#		514'		500 SXS		SURF - CIRC	
12-1/4"	9-5/8"	47#		5398'		1,850 SXS		SURF	
8-1/2"	7"	26#/29#		12,039'		1,990 SXS		SURF	
6-1/4"	4-1/2"	15.1/16.6		16,969'		695 SXS		7420' - LOG	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
N/A								

25. Producing Intervals

Formation	Top	Bottom
A) SEE ATTACHMENT ONE		
B)		
C)		
D)		

26. Perforation Record

Perforated Interval	Size	No. Holes	Perf. Status
SEE ATTACHMENT ONE			

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

Depth Interval	Amount and Type of Material
SEE ATTACHMENT ONE	SEE ATTACHMENT ONE

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
10/21/08	10/27/08	24	→	25	2,517	802			FLOWING

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
30	N/A	1065	→					PRODUCING

RECEIVED
DEC 29 2008
DIV. OF OIL, GAS & MINING

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
			→					

CONFIDENTIAL

*(See instructions and spaces for additional data on page 2)

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 *(Solid, 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	Descriptions, Contents, etc.	Name	Top Meas. Depth
GREEN RIVER	2698'			MANCOS 'B'	12920'
MAHOGANY	3455'			FRONTIER	15663'
WASATCH	6071'			DAKOTA SILT	16562'
MESA VERDE	9184'			DAKOTA	16766'
CASTLEGATE	11672'				
BLACKHAWK	12017'				
MANCOS	12485'				

32. Additional remarks (include plugging procedure):

FUTURE OIL PROSPECTS: GREEN RIVER & MAHOGANY

RECEIVED
DEC 29 2008
DIV. OF OIL, GAS & MINING

33. Indicate which items have been attached by placing a check in the appropriate boxes:

☐ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☐ Directional Survey
☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☑ Other: PERFORATION & FRACING REPORT

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)* JIM SIMONTON Title COMPLETION SUPERVISOR

Signature Jim Simonton (dfc) Date 12/24/2008

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.

(Continued on page 3)

CONFIDENTIAL

WV 8D 15 8 21 ATTACHMENT ONE

PERFORATION DETAIL:

Open Perfs	Stimulation					Perf Status
6717' – 6718'						Open - Wasatch
6719' – 6720'						Open - Wasatch
7556' – 7557'	Frac w/	25,309	Lbs in	22,596	Gals	Open - Wasatch
7560' – 7561'						Open - Wasatch
7562' – 7563'						Open - Wasatch
8633' – 8634'						Open - Wasatch
8638' – 8639'						Open - Wasatch
8699' – 8700'						Open - Wasatch
8846' – 8847'	Frac w/	51,010	Lbs in	31,248	Gals	Open - Wasatch
9076' – 9077'						Open - Wasatch
9093' – 9094'						Open - Wasatch
9610' – 9611'						Open - LMV
9880' – 9881'						Open - LMV
9888' – 9889'						Open - LMV
9988' – 9989'						Open - LMV
9991' – 9992'						Open - LMV
10021' – 10022'						Open - LMV
10053' – 10054'	Frac w/	70,144	Lbs in	114,828	Gals	Open - LMV
10056' – 10057'						Open - LMV
10148' – 10149'						Open - LMV
10156' – 10157'						Open - LMV
10160' – 10161'						Open - LMV
10168' – 10169'						Open - LMV
10822' – 10823'						Open - LMV
10828' – 10829'						Open - LMV
10831' – 10832'						Open - LMV
10928' – 10929'						Open - LMV
10996' – 10997'	Frac w/	42,717	Lbs in	92,232	Gals	Open - LMV
11001' – 11002'						Open - LMV
11004' – 11005'						Open - LMV
11076' – 11077'						Open - LMV
11225' – 11226'						Open - LMV
11228' – 11229'						Open - LMV
11419' – 11420'						Open - LMV
11422' – 11423'						Open - LMV
11424' – 11425'						Open - LMV
11441' – 11442'	Frac w/	60,508	Lbs in	106,638	Gals	Open - LMV
11443' – 11444'						Open - LMV
11500' – 11501'						Open - LMV
11502' – 11503'						Open - LMV
11504' – 11505'						Open - LMV

12100′ – 12104′						Open - Blackhawk
12167′ – 12169′						Open - Blackhawk
12206′ – 12208′	Frac w/	41,604	Lbs in	101,052	Gals	Open - Blackhawk
12259′ – 12261′						Open - Blackhawk
12289′ – 12293′						Open - Blackhawk
12680′ – 12682′						Open - Mancos
12851′ – 12853′						Open - Mancos
12960′ – 12964′						Open – Mancos 'B'
13003′ – 13005′	Frac w/	39,988	Lbs in	102,396	Gals	Open – Mancos 'B'
13084′ – 13086′						Open - Mancos
13169′ – 13171′						Open - Mancos
13345′ – 13347′						Open - Mancos
13455′ – 13459′						Open - Mancos
13617′ – 13619′	Frac w/	40,222	Lbs in	102,228	Gals	Open - Mancos
13693′ – 13697′						Open - Mancos
13856′ – 13858′						Open - Mancos
14133′ – 14135′						Open - Mancos
14173′ – 14175′						Open - Mancos
14400′ – 14402′	Frac w/	40,317	Lbs in	102,060	Gals	Open - Mancos
14531′ – 14535′						Open - Mancos
14633′ – 14637′						Open - Mancos
14749′ – 14751′						Open - Mancos
14812′ – 14816′						Open - Mancos
14878′ – 14880′	Frac w/	26,878	Lbs in	100,548	Gals	Open - Mancos
15020′ – 15024′						Open - Mancos
15100′ – 15102′						Open - Mancos
15266′ – 15268′						Open - Mancos
15328′ – 15332′						Open - Mancos
15382′ – 15384′	Frac w/	37,112	Lbs in	100,506	Gals	Open - Mancos
15451′ – 15453′						Open - Mancos
15739′ – 15741′						Open - Mancos
15846′ – 15848′						Open - Mancos
15965′ – 15967′						Open - Frontier
16033′ – 16035′						Open - Frontier
16123′ – 16125′	Frac w/	41,890	Lbs in	114,072	Gals	Open - Frontier
16199′ – 16201′						Open - Frontier
16302′ – 16306′						Open - Frontier
16463′ – 16465′						Open - Frontier

16572′ – 16574′						Open – Dakota Silt
16643′ – 16645′						Open – Dakota Silt
16710′ – 16712′	Frac w/	65,783	Lbs in	60,396	Gals	Open – Dakota Silt
16774′ – 16778′						Open – Dakota SS
16928′ – 16932′						Open – Dakota 'C'

Operations Summary Report – DRILLING

Well Name: WV 8D-15-8-21 STO 1
Location: 15- 8-S 21-E 26
Rig Name: UNIT

Spud Date: 6/28/2008
Rig Release: 9/26/2008
Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Description of Operations
7/2/2008	06:00 - 10:00	4.00	LOC	2	DRILL 30" HOLE 88' DEEP AND SET 20' PIPE AND CEMENT WITH READY MIX.
	10:00 - 00:00	14.00	DRL	9	DRILL 17 1/2" HOLE FROM 88' TO 548'. 460'. BLOW DOWN HOLE.
	00:00 - 02:00	2.00			LAY DOWN DRILL STRING.
	02:00 - 04:00	2.00	CSG	2	RUN 12 JOINTS OF 13 3/8', J-55, 54.5#, ST&C AS FOLLOWS: SHOE AT 514' FLOAT COLLAR AT 467'. RAN 3 CENTRALIZERS FRO 505' TO 380' AND ONE AT 125'.
	04:00 - 06:00	2.00	CMT	2	CEMENT SURFACE CASING AS FOLLOWS: PUMPED 60 BBL WATER, 20 BBL OF GEL WATER, 500 SKS TYPE G, 102.4 BBL CEMENT 15.8 PPG, YEALD 1.15, 5 GAL/SK. BUMP PLUG TO 1100PSI OK, FLOATS HELD, CEMENT BACK 13 BBL.
	06:00 -				NOTIFY MICHAEL LEE ON 6/26/2008 AT 08:30 HOURS FOR SPUD CONDUCTOR ON 6/28/2008 AT 10:00 HOURS. NOTIFY STATE CAROL DANIELS ON 6/26/2008 AT 08:35 HOURS FOR CONDUCTOR SPUD. LEFT VOICE MAIL 1-801-538-5284. NOTIFY JAN NEILSON AT RED WASH. NOTIFY JAMIE SPARGER BLM FOR RUNNING CASING AND CEMENTING ON 6/30/20008 AT 12:10 HOURS. RUN CASING AND CEMENTING ON 07/01/2008 AT 03:00 . RIG OPERATIONS WERE SHUT DOWN FOR NO SPARK ARESTORS. JAMIE WAS NOTIFYED AGAIN ON 07/01/2008 IN PERSON ON LOCATION FOR RUNNING CASING AND CEMENT ON 07/02/2008 AT 03:00 HOURS. CALLED DAWN CADWELL WITH WELL INFORMATION, CASING AND CEMENTING.
7/9/2008	06:00 - 18:00	12.00	LOC	4	RIG DOWN FLOOR // LAY DERRICK OVER // RIG DOWN MOTOR PACKAGE // PUMP SHEDS & OUT BUILDING 65% RIG DOWN // 0 HAULED
	18:00 - 06:00	12.00			WAIT ON DAYLIGHT
7/10/2008	06:00 - 18:00	12.00	LOC	4	HELD SAFETY MEETING // TAKE OFF MUD EQUIPMENT & LOAD OUT MUD TANKS // RIG DOWN & LOAD OUT BAR HOPPERS // UNSTRING BLOCKS & UNBRIDLE ALEGS & LAY THEM OVER // SEPERATE MOTOR PAKAGE (HAD 4 HAUL TRUCKS & CRANE & BED TRUCK & POLE TRUCK) 80 % RIG DOWN & 10% HAULED
	18:00 - 06:00	12.00			WAIT ON DAY LIGHT
7/11/2008	06:00 - 18:00	12.00	LOC	4	HAUL MOTOR PACKAGE // HAUL PUMP// HAUL MATTS// TAKE OFF DRAWORKS & TOP SUBS & A-LEGS // RIG DOWN BOPS & PUT ON CAMRONS NIGHT CAP (HAD 10 HAUL TRUCKS TODAY) HAUL 30% RIG DOWN 90%
	18:00 - 06:00	12.00	LOC	4	WAIT ON DAY LIGHT
7/12/2008	06:00 - 18:00	12.00	LOC	4	HELD SAFETY METTING // HAULED 9 LOADS TO NEW LOCATION // HAUL OFF SUB & MATTS & OUT BUILDING & SEPERATE DERRICK FOR TRUCKS // RIG UP SET MATS PUMP // MOTORS PACKAGE (100% RIG DOWN & 60 % HAULED 15% RIG UP) HAULED 1 MAN CAMP TO DINASOUR
	18:00 - 06:00	12.00	LOC	3	WAIT ON DAY LIGHT
7/13/2008	06:00 - 18:00	12.00	LOC	4	HELD SAFETY MEETING// (80% HAULED 25% RIG UP)STACK SUB & PULL WIRES
	18:00 - 06:00	12.00	LOC	4	WAIT ON DAY LIGHT
7/14/2008	06:00 - 18:00	12.00	LOC	4	HELD SAFETY MEETING// RIG UP SUBS & FROGS & DRAWORKS & BOPS & SET BUILDING & SET UP CAMPS ON LOCATION & HAULED THE OTHER MAN CAMP TO DINASOUR (100 % HAULED 40% RIGED UP)
	18:00 - 06:00	12.00	LOC	4	WAIT ON DAYLIGHT
7/15/2008	06:00 - 18:00	12.00	LOC	4	HELD SAFETY METTING // GENERAL RIG UP // PUT FLOOR TOGETHER // ALEGS // BRIDLE UP // PUT DERRICK TOGETHER & STRING UP // TOP DOG HOUSE & SET PITS & HOPPER HOUSE & DUG DITCHES AROUND RIG (65% RIGGED UP & WELDERS WORKING ON MUD TANKS
	18:00 - 06:00	12.00	LOC	4	WAIT ON DAY LIGHT

Operations Summary Report

Well Name: WV 8D-15-8-21 STO 1
Location: 15- 8-S 21-E 26
Rig Name: UNIT

Spud Date: 6/28/2008
Rig Release: 9/26/2008
Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Description of Operations
7/16/2008	06:00 - 18:00	12.00	LOC	4	HELD SAFETY MEETING & SET SHALE TANK & CHOKE HOUSE & GAS BUSTER FINISH RIG UP ON DERRICK & INSPECT IT & RAISE DERRICK & FINISH PUTTING IN SPREDDER BEAMS 80% RIG UP
	18:00 - 06:00	12.00	LOC	4	WAIT ON DAY LIGHT
7/17/2008	06:00 - 06:00	24.00	LOC	4	P/U TOP RAIL & SERVICE LOOP, RIG UP FLOOR, PULL ELECTRICAL CABLE, WELD ON MUD TANKS, BUILD BERM AROUND RIG, R/U LIGHTS 85% RIGED UP
7/18/2008	06:00 - 06:00	24.00	LOC	4	R/U TOP DRIVE & MOTOR PACKAGE, SLIP BACK DRILLING LINE, R/U BAR HOPPERS & HOPPER HOUSE, R/U GAS BUSTER & FLARE LINES, SET 4 1/2 DP TUBS, WELD ON MUD TANKS 8 WELDERS WORKING ON MUD TANKS
7/19/2008	06:00 - 06:00	24.00	LOC	3	PULL ROTARY TABLE & INSTALL ROTATING HEAD, REBUILD DRIP PAN, C/O LINERS IN MUD PUMPS, INSTALL SHAKER SLIDES & TROUGHS, PORE QUICK CERRT IN CELLER, R/U PAYSON PIT MARKERS 95% RIGGED UP 5 WELDERS WORKING ON MUD TANKS
7/20/2008	06:00 - 12:00	6.00	OTH		REBUILD FLOW LINE, INSTALL ORBIT VALVE, R/U ACCOMPANING EOUIPMENT FOR WEATHERFORD ROTATING HEAD, FILL MUT TANKS WITH WATER "NO LEAKS", TORQUE BLOTS ON BOP, FIHISH R/U CENTRIFUGES
	12:00 - 00:00	12.00	BOP	2	TEST BOP, TOP & BOTTOM & BLIND RAMS 250 LOW 5000 HIGH, KILL, HCR & CHOKE MANAFOLD LOW 250 , 5000 HIGH, TOP DRIVE & MUD LINES BACK TO THE PUMP 250 LOE 3500 HIGH; REPLACING 1 BOTTLE ON CLOSING UNIT;
	00:00 - 01:30	1.50	RIG	2	CHANGE OUR RELAY IN TOP DRIVE PANNEL
	01:30 - 02:30	1.00	BOP	2	INSTALL WEAR BUSHING
	02:30 - 06:00	3.50	TRP	1	P/U BHA
7/21/2008	06:00 - 09:00	3.00	TRP	1	P/U BHA
	09:00 - 09:30	0.50	RIG	2	REPAIR CUPLER BETWEEN A MOTOR & DRAWWARKS
	09:30 - 10:30	1.00	TRP	1	P/U BHA TAG CEMENT @ 455'
	10:30 - 11:30	1.00	OTH		C/O MOUSE HOLE, INSTALL FLOW CENSOR & STROKE COUNTERS
	11:30 - 22:30	11.00	RIG	1	WAIT ON WEATHERFORD LUBRICATOR POWER UNIT, SEE NOTE ON DAILY OPERATIONAL COMMENTS
	22:30 - 00:30	2.00	DRL	4	DRLG CEMENT & FLOAT EQUIPMENT
	00:30 - 01:00	0.50	EQT	2	CIRC & DO FIT TEST TO 11 PPG MUD
	01:00 - 03:30	2.50	RIG	2	RIG UP WEATHERFORD ROTATING POWER UNIT
	03:30 - 04:00	0.50	DRL	1	DRLG & OPEN HOLE F/ 514 T/ 551
	04:00 - 06:00	2.00	RIG	2	RIG REPAIR
7/22/2008	06:00 - 07:00	1.00	DRL	1	DRLG F/ 551 T/ 720 WOB 8/12, DHRPM 35, TDRPM 35, MOTOR .11 RPG, GPM 432, ROP 169
	07:00 - 07:30	0.50	RIG	1	RIG SERVICE
	07:30 - 16:30	9.00	DRL	1	DRLG F/ 720 T/ 1578 WOB 8/15, DHRPM 48, TDRPM 35, GPM 440, ROP 95
	16:30 - 17:00	0.50	CIRC	1	CIRC FOR SURVEY
	17:00 - 17:30	0.50	SUR	1	SURVEY @ 1544 MISS RUN
	17:30 - 18:30	1.00	DRL	1	DRLG F/ 1544 T/ 1673
	18:30 - 19:30	1.00	SUR	1	CIRC & SURVEY @ 1639 MISS RUN
	19:30 - 23:00	3.50	DRL	1	DRLG F/ 1673 T/ 1950
	23:00 - 23:30	0.50	SUR	1	CIRC & SURVEY MISS RUN
	23:30 - 01:00	1.50	DRL	1	DRLG F/ 1950 T/ 2051
	01:00 - 05:00	4.00	SUR	1	CIRC & SURVEY
	05:00 - 06:00	1.00	TRP	2	POOH
7/23/2008	06:00 - 09:00	3.00	TRP	2	POOH
	09:00 - 10:00	1.00	TRP	1	L/D 8" DC & RETRIVE SURVEY, "NO SURVEY"
	10:00 - 16:00	6.00	OTH		TRUBLE SHOOTSURVEY PROBLEMS,
	16:00 - 22:00	6.00	TRP	2	P/U MEW MONEL & TEST IN MOUSE HOLE,"OK" M/U & RIH SURVEY @ 500

Questar E & P

Operations Summary Report

Well Name: WV 8D-15-8-21 STO 1
Location: 15- 8-S 21-E 26
Rig Name: UNIT

Spud Date: 6/28/2008
Rig Release: 9/26/2008
Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Description of Operations
7/23/2008	16:00 - 22:00	6.00	TRP	2	MISS RUN, & 930' 1.9 DEG. AZ 149.1, & 1514' 1.4 DEG 124.6 AZ, & 2018 11.7 DEG 130.0 AZ
	22:00 - 02:30	4.50	CIRC	1	CIRC & WAIT ON SLICK LINE TRUCK
	02:30 - 04:30	2.00	SUR	1	R/U SLICK LINE & RUN GYRO SURVEYS EVERY 250' & R/D
	04:30 - 06:00	1.50			CIRC AFTER GYRO
7/24/2008	06:00 - 08:00	2.00	CIRC	1	CIRC AFTER GYRO SYRVEY,
	08:00 - 13:00	5.00	TRP	2	FLOW CHECK, PUMP SLUG & POOH, L/D 8" DC, MONEL & MOTOR
	13:00 - 16:30	3.50	TRP	2	CLEAM FLOOR, RIH, P/U 41 JT DP TO PLUG BACK WITH
	16:30 - 02:30	10.00	CIRC	1	CIRC & WAIT ON HALLIBURTON
	02:30 - 04:30	2.00	CMT	1	CIRC & R/U HALLIBURTON
	04:30 - 06:00	1.50	CMT	4	HOLD PJSM, PUMP 400 SX CEMENT @ 2036 , PULL 5 STD, CIRC BOTTOMS UP @ 1566
7/25/2008	06:00 - 08:30	2.50	CMT	4	PUMP 400 SX CEMENT PLUG @ 1566' PULLED 5 STANDS & CIRC BOTTOMS UP @ 1096
	08:30 - 09:30	1.00	TRP	2	POOH
	09:30 - 19:30	10.00	WOT	1	WOC
	19:30 - 22:30	3.00	WOT	1	WOC & P/U DIRECTIONAL TOOLS & RIH TO 466' MOTOR IS BENT TO 1.83 DEG.
	22:30 - 04:30	6.00	WOT	1	WOC
	04:30 - 06:00	1.50	WOT	1	RIH F/ 466 T/ 1100;
7/26/2008	06:00 - 06:30	0.50	DRL	7	DRESS OFF CEMENT F/ 1100 T/ 1125
	06:30 - 06:00	23.50	DRL	7	ATTEMPT TO KICK OFF @ 1125' ; TIME DRLG F/ 1125 T/ 1194, @ 0400 HR 40% CEMENT & 60% FORMATION
7/27/2008	06:00 - 00:00	18.00	DRL	7	SIDE TRACK F/ 1194 T/ 1233
	00:00 - 02:30	2.50	DRL	7	DRLG F/ 1233 T/ 1238
	02:30 - 03:30	1.00	RIG	2	WORK ON TOP DRIVE
	03:30 - 06:00	2.50	DRL	7	DRLG F/ 1238 T/ 1242
7/28/2008	06:00 - 13:30	7.50	DRL	7	DRLG F/ 1242 T/ 1293, WOB 4/8, DHRPM 71, TDRPM 40, MOTOR 1.86 BEND-.16 RPG. GPM 444,
	13:30 - 14:00	0.50	RIG	1	RIG SERVICE
	14:00 - 06:00	16.00	DRL	7	DRLG F/ 1293 T/ 1395 SAME AS ABOVE
7/29/2008	06:00 - 06:00	24.00	DRL	7	DRLG F/ 1395 T/ 1698 WOB20/30, DHRPM 75/91, TDRPM 35/45, MOTOR 1.86 BEND. .16 RPMPG, 444/586 GPM,
7/30/2008	06:00 - 12:00	6.00	DRL	7	DRLG F/ 1698 T/ 1860 WOB 15/30, DHRPM 93, TDRPM 40/45, GPM 586, SLIDE FOR 3.5 HR, ROT FOR 2.5 HR
	12:00 - 12:30	0.50	RIG	1	RIG SERVICE
	12:30 - 20:00	7.50	DRL	7	DRLG F/ 1860 T/ 1967
	20:00 - 21:00	1.00	CIRC	1	CIRC & BUILD TRIP SLUG
	21:00 - 21:30	0.50	OTH		FLOW CHECK & PUMP SLUG
	21:30 - 00:00	2.50	TRP	2	POOH
	00:00 - 01:00	1.00	TRP	2	C/O BIT & MOTOR
	01:00 - 06:00	5.00	TRP	2	RIH, WASH & REAM F/ 1230 T/ 1967
7/31/2008	06:00 - 15:30	9.50	DRL	7	DRLG F/ 1967 TO 2232 (ALL ROTATING & SURVEY EVERY 30')(WT 8/10 - MTR 94 / TRPM 45)
	15:30 - 16:00	0.50	RIG	1	RIG SERVICE & SERVICE TOP DRIVE (CHANGE OIL IN GEAR BOX)
	16:00 - 16:30	0.50	OTH		PASON CHANGE OUT FLOAT PADDEL ON FLOW LINE
	16:30 - 02:00	9.50	DRL	7	DRLG F/ 2232 TO 2505(ALL ROTATING & SURVEY EVERY 30')(WT 8/10 - MTR 94 / TRPM 45)
	02:00 - 03:00	1.00	RIG	2	# 3 MOTOR & TOP DRIVE MOVER (TROUBLE SHOOT FUEL LOSS PROBLEM)
	03:00 - 06:00	3.00	DRL	7	DRLG F/ 2505 TO 2560 (ALL ROTATING & SURVEY EVERY 30')(WT 8/10 - MTR 94 / TRPM 45)
8/1/2008	06:00 - 15:00	9.00	DRL	1	DRLG F/2560 TO 2795 (ALL ROTATING & SURVEY EVERY 30' & 60')(WT 12/15 - MTR 94 / TRPM 45)

Questar E & P

Operations Summary Report

Well Name: WV 8D-15-8-21 STO 1
Location: 15- 8-S 21-E 26
Rig Name: UNIT

Spud Date: 6/28/2008
Rig Release: 9/26/2008
Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Description of Operations
8/1/2008	15:00 - 15:30	0.50	RIG	1	RIG SERVICE
	15:30 - 06:00	14.50	DRL	1	DRLG F/2795 TO 3185 (ROTATE F/ 2795 TO 2858 / SLIDE 2858 TO 2873 / ROTATE F/ 2858 TO 3047 / SLIDE 3047 TO 3062 / ROTATE F/ 3062 TO & SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 45)
8/2/2008	06:00 - 17:30	11.50	DRL	1	DRLG F/ 3185 TO 3547 (ROTATE F/ 3185 TO 3454 / SLIDE 3454 TO 3469 / ROTATE F/ 3469 TO 3516 / SLIDE 3516 TO 3531 / ROTATE F/ 3531 TO 3547 & SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 45)
	17:30 - 18:00	0.50	DRL	1	RIG SERVICE
	18:00 - 06:00	12.00	DRL	1	DRLG F/ 3547 TO 3930 (ROTATE F/ 3547 TO 3827 / SLIDE 3827 TO 3837 / ROTATE F/ 3837 TO 3930 SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 45)
8/3/2008	06:00 - 14:30	8.50	DRL	1	DRLG F/ 3930 TO 4206 SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 45)
	14:30 - 15:00	0.50	RIG	1	RIG SERVICE
	15:00 - 06:00	15.00	DRL	1	DRLG F/ 4206 TO 4487 (SLIDE4206 TO 4224 ROTATE F/ 4224 TO 4330 SLIDE F/ 4330 TO 4343 ROTATE F/ 4343 TO 4353 SLIDE F/ 4353 TO 4363 ROTATE F/ 4363 TO 4393 SLIDE 4393 TO 4411ROTATE F 4411 TO 4456 SLIDE 4456 TO 4474 ROTATE 4474 TO 4474 TO 4484 SLIDE 4484 TO 4510 SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 45)
8/4/2008	06:00 - 07:30	1.50	DRL	1	DRLG F/ 4510 TO 4580 SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 45) (20 TO 50' HR ROTATING & 15 TO 20'HR SLIDING)
	07:30 - 09:00	1.50	RIG	2	WORK ON PUMP # 1 PUMP 6 SEATS & VALUES & SWAB // # 2 PUMP 4 SEATS & VALUES
	09:00 - 15:00	6.00	DRL	1	DRLG F/ SLIDE 4580 TO 4597 ROTATE F/ 4597 TO 4643 SLIDE F/ 4643 TO 4648 ROTATE F/ 4648 TO 4670 SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 60) (20 TO 50' HR ROTATING & 15 TO 20'HR SLIDING)
	15:00 - 15:30	0.50	RIG	1	RIG SERVICE & SERVICE TOP DRIVE (FUNCTION TOP PIPE RAMS)
	15:30 - 06:00	14.50	DRL	1	DRLG F/ ROTATE F/ 4670 TO 4862 SLIDE F/ 4862 TO 4886 ROTATE F/ 4886 TO 4926 SLIDE F/ 4929 TO 4958 ROTATE F/ 4958 TO 5055 SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 60) (20 TO 50' HR ROTATING & 15 TO 20'HR SLIDING)
8/5/2008	06:00 - 10:30	4.50	DRL	1	DRLG F/ ROTATE F/ 5055 to 5141 SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 60) (20 TO 50' HR ROTATING & 15 TO 20'HR SLIDING)
	10:30 - 11:00	0.50	RIG	1	RIG SERVICE & SERVICE TOP DRIVE
	11:00 - 13:30	2.50	DRL	1	DRLG F/ ROTATE F/ 5141 TO 5176 SURVEY EVERY 30' & 60')(WT 15-18/MTR 94 / TRPM 60) (20 TO 50' HR ROTATING & 15 TO 20'HR SLIDING)
	13:30 - 14:00	0.50	CIRC	1	CIRCULATE BTMS UP F/TRIP
	14:00 - 14:30	0.50	CIRC	1	PUMP DRY SLUG 35 BBLS
	14:30 - 19:00	4.50	TRP	10	SLM ON TRIP OUT (STRAP 5177.10) TAG SOME BRIDGES COMING OUT 50K OVER 4200 TO 3600
	19:00 - 20:00	1.00	TRP	1	LAY DOWN MWD TOOLS & MOTOR & MONEL
	20:00 - 22:30	2.50	TRP	1	TEST SINGLE SHOT IN MOUSE HOLE & P/UP NEW MOTOR & BIT & SURFACE TEST MOTOR
	22:30 - 01:30	3.00	TRP	10	TRIP IN & FILL PIPE @ 1000-3400-5018
	01:30 - 02:00	0.50	REAM	1	WASH REAM 160' & 20' FILL
	02:00 - 06:00	4.00	DRL	1	DRLG F/ ROTATE F/ 5055 to 5141)(WT 10-12/MTR 94 / TRPM 60)
8/6/2008	06:00 - 12:30	6.50	DRL	1	DRLG F/ ROTATE F/ 5285 to 5415)(WT 10-12/MTR 94 / TRPM 60)
	12:30 - 15:00	2.50	CIRC	1	CIRCULATE & 70 BBL SWEEP AROUND
	15:00 - 15:30	0.50	CIRC	1	PUMP DRY PILL & CHECK FOR FLOW
	15:30 - 20:00	4.50	TRP	14	SHORT TRIP 40 STANDS
	20:00 - 20:30	0.50	REAM	1	WASH & REAM 5334 TO 5415
	20:30 - 22:00	1.50	CIRC	1	CIRCULATE BTMS UP
	22:00 - 22:30	0.50	SUR	1	WIRE LINE SURVEY

Operations Summary Report

Well Name: WV 8D-15-8-21 STO 1
Location: 15- 8-S 21-E 26
Rig Name: UNIT

Spud Date: 6/28/2008
Rig Release: 9/26/2008
Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Description of Operations
8/6/2008	22:30 - 00:30	2.00	CIRC	1	CIRCULATE & CHECK FLOW & PUMP DRY SLUG
	00:30 - 05:00	4.50	TRP	2	TRIP OUT RUN CASING
	05:00 - 06:00	1.00	BOP	1	PULL WEAR BUSHING
8/7/2008	06:00 - 10:30	4.50	CSG	1	HELD SAFETY MEETING & RIG UP FRANK'S CASING CREW & LAY DOWN MACHINE
	10:30 - 11:30	1.00	CSG	2	WAIT ON FLOAT COLLAR (HALIBURTON SENT OUT THE WRONG ONE)
	11:30 - 20:00	8.50	CSG	2	RUN 9 5/8 CASING
	20:00 - 21:00	1.00	CSG	1	RIG DOWN FRANK'S CASING CREW & LAY DOWN MACHINE
	21:00 - 23:00	2.00	CIRC	1	CIRCULATE & CONDITION
	23:00 - 05:00	6.00	CSG	2	SET CAMRON PACK OFF & CEMENT ISOLOATION TOOL TEST AT 8000 PSI & TEST SEAL ASSY TO 5,000 PSI ALSO RIGGEN UP HALIBURTON (CASING STRING WT. 215,000 SETTING IN A-SECTION)(CASING SHOE DEPTH @ 5398)
	05:00 - 06:00	1.00	CMT	1	FINISH RIGGING UP HALIBURTON
8/8/2008	06:00 - 07:00	1.00	CMT	1	RIG UP HALLIBURTON CEMENT EQUIPMENT
	07:00 - 12:00	5.00	CMT	2	TEST LINE TO 6,000PSI & N2 LINE TO 8,000PSI, PUMP SPACER TRAIN 50BBLS @ 5BPM, PUMP SCAVENGER CEMENT 30BBLS @ 5BPM 14.3PPG. PUMP 1st LEAD CEMENT 160BBLS @ 5BPM 14.3PPG, PUMP 2nd LEAD CEMENT 212BBLS @ 5BPM 14.3PPG, PUMP TAIL CEMENT 60BBLS @ 5BPM 14.3PPG, DROP PLUG AND BUMP PLUG WITH 385BBLS 1400PSI HOLE FOR 30MIN, PUMP CAP CEMENT 55.2BBLS @ 3BPM 14.6PPG, PUMP 3BBLS WATER DISPLACEMENT
	12:00 - 13:00	1.00	CMT	1	RIG DOWN HALLIBURTON CEMENT EQUIPMENT
	13:00 - 13:30	0.50	RIG	2	REPLACE # 2 GEN BREAKER
	13:30 - 14:00	0.50	RIG	1	RIG SERVICE
	14:00 - 18:00	4.00	CMT	1	LAY DOWN CAMRON CEMENT ASSY & INSTALL WEAR BUSHING
	18:00 - 23:30	5.50	TRP	1	MAKE UP BIT, MOTOR, ROLLER REAMER, MONELAND INSPECT BHA, CHANGE OUT JAR
	23:30 - 02:00	2.50	TRP	2	TRIP IN @ TAG PLUG ABOVE FLOAT 5304
	02:00 - 04:30	2.50	DRL	4	TAG PLUG @ 5304 DRILL PLUG& FLOAT & CEMENT-SHOE (WT 0-5/ MTR RPMS 133/TDRPM30 // GPM 460)
	04:30 - 06:00	1.50	BOP	1	CHANGE OUT ROTATING HEAD
8/9/2008	06:00 - 06:30	0.50	DRL	1	DRILL F/ 5415 TO 5425 (ROP 20' HR // WT 8-10 // MTR 133 // TDRPM 40 // 110STKS //1500 PSI // 461GPM)
	06:30 - 08:00	1.50	CIRC	1	CIRCULATE & CONDITION F/ F.I.T. TEST
	08:00 - 08:30	0.50	EQT	2	FIT TEST 9.4PPG 1005 PSI FOR 30 MINS F/ EMW 13.0
	08:30 - 23:00	14.50	DRL	1	DRILL F/ 5425 TO 5693 (ROP 18.4' HR // WT 12-14 // MTR 133 // TDRPM 40 // 110STKS // 1700 PSI // 461GPM)
	23:00 - 00:00	1.00	SUR	1	PUMP SWEEP & CIRULATE & SURVEY
	00:00 - 06:00	6.00	DRL	1	DRILL F/ 5693 TO 5875 (ROP 20.9' HR // WT 12-14 // MTR 133 // TDRPM 45// 110STKS // 1700 PSI // 461GPM)
8/10/2008	06:00 - 07:00	1.00	FISH	6	WORK TIGHT HOLE F/ 5868 TO 5838
	07:00 - 13:30	6.50	DRL	1	DRILL F/ 5868 TO 6053 (ROP 28.4' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1700 PSI // 461GPM)
	13:30 - 14:00	0.50	RIG	1	RIG SERVICE & SERVICE TO DRIVE (FUNCTION ACR VALVE)
	14:00 - 16:30	2.50	DRL	1	DRILL F/ 6053 TO 6146 (ROP 37.2' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1700 PSI // 461GPM)
	16:30 - 18:30	2.00	CIRC	1	CIRCULATE & CONDITION HOLE
	18:30 - 20:00	1.50	DRL	1	DRILL F/ 6146 TO 6175 (ROP 19.3' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1700 PSI // 461GPM)
	20:00 - 21:00	1.00	SUR	1	CIRC. & SURVEY
	21:00 - 06:00	9.00	DRL	1	DRILL F/ 6175 TO 6400 (ROP 19.3' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1700 PSI // 461GPM)
8/11/2008	06:00 - 08:30	2.50	DRL	1	DRILL F/ 6400 TO 6550 (ROP 60' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1950 PSI // 461GPM)

Operations Summary Report

Well Name: WV 8D-15-8-21 STO 1
Location: 15- 8-S 21-E 26
Rig Name: UNIT

Spud Date: 6/28/2008
Rig Release: 9/26/2008
Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Description of Operations
8/11/2008	08:30 - 09:00	0.50	RIG	1	RIG SERVICE & SERVICE TOP DRIVE (FUNCTION LOWER PIPE RAMS)
	09:00 - 11:30	2.50	DRL	1	DRILL F/ 6550 TO 6674 (ROP 49.6' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1950 PSI // 461GPM)
	11:30 - 12:30	1.00	SUR	1	CIRCULATE & SURVEY
	12:30 - 04:30	16.00	DRL	1	DRILL F/ 6774 TO 7172 (ROP 24.8' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1950 PSI // 461GPM)
	04:30 - 05:30	1.00	SUR	1	CIRCULATE & SURVEY
	05:30 - 06:00	0.50	DRL	1	DRILL F/7172 TO 7182 (ROP 20' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1950 PSI // 461GPM) (STARTED PUMPING 25 BBL LCM SWEEPS TO CONTROLL SEEPAGE LOST APPROX. 100 BBLS IN 24 HRS)
8/12/2008	06:00 - 11:30	5.50	DRL	1	DRILL F/7182 TO 7358 (ROP 32' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1950 PSI // 461GPM)
	11:30 - 12:00	0.50	RIG	1	RIG SERVICE
	12:00 - 01:00	13.00	DRL	1	DRILL F/7358 TO 7730 (ROP 28.6' HR // WT 18-22 // MTR 133 // TDRPM 55// 110STKS // 1950 PSI // 461GPM)
	01:00 - 02:00	1.00	SUR	1	CIRULATE & SURVEY
	02:00 - 06:00	4.00	DRL	1	DRILL F/7730 TO 7780 (ROP 12.5' HR // WT 12-15 // MTR 133 // TDRPM 55// 110STKS // 1950 PSI // 461GPM)(WITH NO CURRENT LOSSES)
8/13/2008	06:00 - 11:00	5.00	DRL	1	DRILL F/7780 TO 7835 (ROP 11' HR // WT 12-15 // MTR 133 // TDRPM 55// 110STKS // 1950 PSI // 461GPM)(WITH NO CURRENT LOSSES)
	11:00 - 12:00	1.00	CIRC	1	PUMP 80 BBL LCM SWEEP & CIRCULATE IT OUT F/ TRIP
	12:00 - 12:30	0.50	SUR	1	CHECK FLOW & DROPPED SURVEY & PUMP DRY PILL
	12:30 - 19:00	6.50	TRP	10	TRIP OUT
	19:00 - 20:30	1.50	TRP	1	CHANGE OUT MOTOR & RAMER & BIT
	20:30 - 22:30	2.00	TRP	2	COULD NOT GET PASS WEAR PUSHING / PULLED WEAR PUSHING & DRAIN STACK TO SEE WHY / THE NEW BIT WAS OVER GUAGED & WOULD KNOT GO IN THE 9 5/8 CASING / CHANGED BIT
	22:30 - 01:30	3.00	TRP	2	TRIP TO THE SHOE @ 5398
	01:30 - 02:30	1.00	RIG	6	CUT DRIL LINE 125'
	02:30 - 03:00	0.50	TRP	2	TRIP IN TAG TIGHT SPOT @ 5480
	03:00 - 06:00	3.00	REAM	1	WASH & REAM THRU TIGHT SPOT 5480 TO 5900 & RAISE MUD WT 9.4 - 9.5
8/14/2008	06:00 - 22:00	16.00	REAM	1	WASH & REAM F/ 5586 T/ 6553 RAISEING MUD WT TO 9.6 PPG
	22:00 - 22:30	0.50	TRP	2	RIH F/ 6553 T/ 6813
	22:30 - 00:00	1.50	RIG	2	WORK ON TOP DRIVE MOTOR
	00:00 - 01:00	1.00	TRP	2	RIH F/ 6813 T/ 7344
	01:00 - 02:30	1.50	REAM	1	WASH & REAM F/ 7344 T/ 7835
	02:30 - 06:00	3.50	DRL	1	DRLG F/ 7835 T/ 7885 WOB 8/10, MW 9.5+, GPM 440. MOTOR .26 RPG, DHRPM 114, TDRPM 55, SPP 1968, DIFF 97, ROP 14.2
8/15/2008	06:00 - 07:00	1.00	SUR	1	SURVEY @ 7806, 2.4DEG, AIZ. 156.0
	07:00 - 14:30	7.50	DRL	1	DRLG F/ 7885 T/ 7979 WOB 5/10, MW 9.6, GPM 460, DHRPM 120, TDRPM 55, SPP 2035, DIFF112, ROP 12.5
	14:30 - 15:00	0.50	RIG	1	RIG SERVICE
	15:00 - 21:00	6.00	DRL	1	DRLG F/ 7979 T/ 8053 WOB 5/10, MW 9.6, GPM 460, DHRPM 120, TDRPM 55. SPP 2050, DIFF 110, ROP12.3
	21:00 - 22:00	1.00	SUR	1	SURVEY @ 7977, 2.4 DEG AIZ 153.4
	22:00 - 06:00	8.00	DRL	1	DRLG F/ 8053 T/ 8135 WOB 10/15, MW 9.6, GPM 460, DHRPM 120, TDRPM 40/55, DIFF 50, 2045, ROP 10.2
8/16/2008	06:00 - 16:30	10.50	DRL	1	DRLG F/8135 T/ 8195 WOB 8/15 MW 9.6, GPM 460, DHRPM 120, TDRPM 55
	16:30 - 17:30	1.00	SUR	1	SURVEY @ 8100 1.8 DEG 200.3 AIZ
	17:30 - 23:00	5.50	TRP	10	POOH
	23:00 - 00:00	1.00	TRP	2	L/D RR, MOTOR & BIT, P/U MEW MOTOR & BIT
	00:00 - 05:00	5.00	TRP	2	RIH & SAFTY WASH LAST 90'
	05:00 - 06:00	1.00	DRL	1	DRLG F/ 8195 T/ 8226 WON 10/15, MW 9.7, GPM 469, DHRPM 70, TDRPM 55,

Operations Summary Report

Well Name: WV 8D-15-8-21 STO 1
Location: 15- 8-S 21-E 26
Rig Name: UNIT

Spud Date: 6/28/2008
Rig Release: 9/26/2008
Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Description of Operations
8/16/2008	05:00 - 06:00	1.00	DRL	1	DIFF 120, SPP 2186, ROP31
8/17/2008	06:00 - 17:30	11.50	DRL	1	DRLG F/ 8226 T/ 8471 WOB 10/15, MW 9.7+, GPM 460. DHRPM 69, TDRPM 60, DIFF 100, SPP 2007, ROP 21.3
	17:30 - 18:00	0.50	RIG	1	RIG SERVICE
	18:00 - 20:00	2.00	DRL	1	DRLG F/ 8471 T/ 8502 WOB 15, MW 9.8, GPM 460, DHRPM 60, TDRPM 60, DIFF 120, SPP 2040, ROP 15.5
	20:00 - 22:30	2.50	SUR	1	SURVEY @ 8442 2.0 DEG AIZ 183.2 HAD 1 MISS RUN
	22:30 - 03:00	4.50	DRL	1	DRLG F/ 8502 T/ 8596 WOB 15/18, MW 9.8, GPM 482, DHRPM 72, TDRPM 65, DIFF 150, SPP 2290, ROP 20
	03:00 - 04:00	1.00	SUR	1	SURVEY @ 8536 DEG 2.4 AIZ 153.8
	04:00 - 06:00	2.00	DRL	1	DRLG F/ 8596 T/ 8659 WOB 18, MW 9.8, GPM 482, TDRPM 65, DIFF 101, SPP 2400, ROP 31.5
8/18/2008	06:00 - 12:30	6.50	DRL	1	DRLG F/ 8659 T/ 8752, WOB 15, MW 9.8, GPM 503, DHRPM 75, TDRPM 66, DIFF 125, SPP 2390, ROP 14.3
	12:30 - 13:00	0.50	RIG	1	RIG SERVICE
	13:00 - 18:00	5.00	DRL	1	DRLG F/ 8752 T/ 8846, WOB 15, MW 9.8, GPM 503, DHRPM 75, TDRPM 66, DIFF 145, SPP 2460, ROP 22.4
	18:00 - 19:00	1.00	SUR	1	SURVEY @ 8785 DEG 0.9, AZI 196.4
	19:00 - 00:00	5.00	DRL	1	DRLG F/ 8864 T/ 9002 WOB 22, MW 9.8, GPM 503, DHRPM 75, TDRPM 66, DIFF 165, SPP 2480
	00:00 - 01:00	1.00	SUR	1	SURVEY @ 8942 DEG 0.6 AZI 223.6
	01:00 - 06:00	5.00	DRL	1	DRLG F/ 9002 T/ 9128 WOB 22/25, MW 9.8+, GPM 503, DHRPM 75, TDRPM 66, DIFF 100, SPP 2490, ROP 25.2
8/19/2008	06:00 - 11:00	5.00	DRL	1	DRLG F/ 9128 T/ 9220 WOB 22/25, MW 9.8+, GPM 502, DHRPM 75, TDRPM 66, DIFF145, SPP 2430, ROP 18.4
	11:00 - 11:30	0.50	RIG	1	RIG SERVICE
	11:30 - 15:00	3.50	DRL	1	DRLG F/ 9220 T/ 9315 WOB 22/25, MW 9.8+, GPM 502, DHRPM 75, TDRPM 65, DIFF 140, SPP 2420, ROP 27.
	15:00 - 15:30	0.50	OTH		C/O ROTATING HEAD
	15:30 - 17:30	2.00	RIG	2	C/O WASH PIPE ON SWIVEL
	17:30 - 06:00	12.50	DRL	1	DRLG F/ 9315 T/ 9566 WOB 20/25, MW 9.7, GPM 502, DHRPM 75, TDRPM 65, DIFF 122, SPP 2480, ROP 20
8/20/2008	06:00 - 08:00	2.00	DRL	1	DRLG F/ 9566 T/ 9596 WOB 20/22, MW 9.7+, GPM 502, DHRPM 75, TDRPM 66, DIFF 145, SPP 2500, ROP 15
	08:00 - 08:30	0.50	RIG	1	RIG SERVICE
	08:30 - 09:30	1.00	SUR	1	SURVEY @ 9522
	09:30 - 23:30	14.00	DRL	1	DRLG F/ 9596 T/ 9939 WOB 20, MW 9.9, MOTOR .15, GPM 502, DHRPM 75, TDRPM 66, DIFF 377, SPP 2537, BACK GROUND GAS 800 UNITS, NO FLARE, ROP 24.5
	23:30 - 00:00	0.50	CIRC	1	CIRC FOR SURVEY
	00:00 - 01:00	1.00	SUR	1	SURVEY @ 9833 DEG 2.9, AZI 157.2
	01:00 - 06:00	5.00	DRL	1	DRLG F/ 9938 T/ 10,000 WOB 15/18, MW 9.9, GPM502, DHRPM75, TDRPM 66/70, DIFF 90, SPP 2650, BGG 839 UNITS, ROP 12.4
8/21/2008	06:00 - 06:30	0.50	DRL	1	DRLG F/ 10,000 T/ 10011 WOB 18, GPM 502, MOTOR .15, DHRPM 75, TDRPM 70, DIFF 159, SPP 2780, BGG 650, ROP 22.0
	06:30 - 07:00	0.50	CIRC	1	CIRC BOTTOMS UP, MIX TRIP SLUG
	07:00 - 07:30	0.50	SUR	1	FLOW CHECK & DROP SURVEY
	07:30 - 13:00	5.50	TRP	2	POOH, L/D MOTOR & BIT
	13:00 - 13:30	0.50	OTH		PULL WEAR BUSHING
	13:30 - 21:00	7.50	BOP	2	R/U & TEST BOP, R/D TESTER. LOWER KELLY VALVE,UPPER KELLY, DART VALVE,TIW,PIPE RAMS ,INSIDE OUT SIDE, CHOKE MANIFLOD, BLINE RAMS ,SUPER CHOKE, LOW 250, HIGH 5,000#, ANNULAR 250 LOW, HIGH 2,500, BACK TO PUMPS 3,000#, RCOVERY TIME ON ACCUMULATOR 1MIN 50 SEC

Operations Summary Report

Well Name: WV 8D-15-8-21 STO 1
Location: 15- 8-S 21-E 26
Rig Name: UNIT

Spud Date: 6/28/2008
Rig Release: 9/26/2008
Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Description of Operations
8/21/2008	21:00 - 21:30	0.50	OTH		INSTALL WEAR BUSHING
	21:30 - 22:00	0.50	RIG	1	RIG SERVICE
	22:00 - 06:00	8.00	RIG	2	WORK ON TOP DRIVE MOTOR & SEALS IN UPPER & LOWER HYD MOTORS ON TOP DRIVE
8/22/2008	06:00 - 08:30	2.50	RIG	2	WORK ON TOP DRIVE HYD MOTORS
	08:30 - 10:30	2.00	TRP	2	RIH
	10:30 - 11:00	0.50	RIG	1	RIG SERVICE
	11:00 - 15:00	4.00	TRP	2	RIH, WORK TIGHT HOLE @ 1947
	15:00 - 15:30	0.50	REAM	1	WASH & REAM F/ 9881 T/ 10011
	15:30 - 06:00	14.50	DRL	1	DRLG F/ 10011 T/ 10430 WOB 8/15, MW 9.9+, GPM 419, MOTOR .24 RPG, DHRPM 100, TDRPM 60, DIFF 150, SPP 2020, BGG 4800 U, ROP 28.9
8/23/2008	06:00 - 14:30	8.50	DRL	1	DRLG F/ 10430 T/ 10537 WOB 15/18, MW 10.1+, GPM 419, MOTOR .24 RPG, DHRPM 100, TDRPM 60, DIFF 103, SPP 1990, BGG 3660 U, ROP 12.5
	14:30 - 15:00	0.50	RIG	1	RIG SERVICE
	15:00 - 16:00	1.00	SUR	1	SURVEY @ 10471 DEG 1.0, AZ 150.38
	16:00 - 06:00	14.00	DRL	1	DRLG F/ 10537 T/ WOB 20, MW 10.2, GPM 419, DHRPM 100, TDRPM 60, DIFF 200, SPP 2140, BGG 3144, ROP
8/24/2008	06:00 - 11:00	5.00	DRL	1	DRLG F/ 10748 T/ 10802 WOB 18/25, MW 8.3, GPM 419,MOTOR .24 RPG, DHRPM 100, TDRPM 60, DIFF 175, SPP 2100, BGG 1066, ROP 10.8
	11:00 - 12:30	1.50	CIRC	1	CIRC BOTTOMS UP & BUILD TRIP SLUG
	12:30 - 13:00	0.50	OTH		FLOW CHECK , DROP SURVEY @ 10770, 1.1 DEG, 184.7 AZ
	13:00 - 18:00	5.00	TRP	2	POOH
	18:00 - 21:30	3.50			C/O BIT & MOTOR & RIH
	21:30 - 22:30	1.00	RIG	6	CUT DRLG LINE
	22:30 - 01:00	2.50	TRP	1	RIH T/ 10602
	01:00 - 02:30	1.50	REAM	1	WASH & REAM F/ 10602 T/ 10802
	02:30 - 06:00	3.50	DRL	1	DRLG F/ 10802 T/ 10871 WOB 15, MW 10.3, GPM 436, MOTOR .22 RPG, DHRPM 96, TDRPM 60, DIFF 174, SPP 2260, BGG 850, ROP
8/25/2008	06:00 - 10:30	4.50	DRL	1	DRLG F/ 10871 T/ 11001 WOB 8/18, MW 10.2+, GPM 426, MOTOR .22 GPR, DHRPM 96, TDRPM 60, DIFF 230, SPP 2335, ROP 28.8
	10:30 - 11:00	0.50	RIG	1	RIG SERVICE
	11:00 - 06:00	19.00	DRL	1	DRLG F/ 11001 T/ 11446 WOB15/18, MW 10.3, 426 GPM, DHRPM 96, TDRPM 60, DIFF 230, SPP 22325, ROP 23.4
8/26/2008	06:00 - 12:00	6.00	DRL	1	DRLF F/ 11446 T/ 11566 WOB 15/20, MW 10.4+, GPM 423, MOTOR .22, DHRPM 93, TDRPM 60, DIFF 110, SPP 2290, BGG 2304, ROP 20
	12:00 - 12:30	0.50	RIG	1	RIG SERVICE
	12:30 - 13:00	0.50	DRL	1	DRLG F/ 11566 T/ 11585 WOB 20/25, MW 10.4+, GPM 423,
	13:00 - 14:00	1.00	CIRC	1	CIRC & BULD TRIP SLUG
	14:00 - 14:30	0.50	OTH		FLOW CHECK & DROP SURVEY
	14:30 - 19:00	4.50	TRP	10	POOH
	19:00 - 20:30	1.50	RIG	2	C/O HYDRAULIC HOES ON TOP DRIVE
	20:30 - 22:00	1.50	TRP	10	POOH
	22:00 - 03:30	5.50	TRP	10	C/O BIT & RIH
	03:30 - 04:00	0.50	REAM	1	SAFTY WASH F/ 10150 T/ 11585
	04:00 - 06:00	2.00	DRL	1	DRLG F/ 11585 T/11611 WOB 8/10, MW 10.4+, GPM 418, MOTOR .22 RPG, DHRPM 92, TDRPM 60, DIFF 50, SPP 2170, ROP 13
8/27/2008	06:00 - 10:00	4.00	DRL	1	DRLG F/ 11611 T/ 11715 WOB 8/15, MW 14+, GPM 418, MOTOR .22 RPG, DHRPM 92, TDRPM 60, DIFF 141, SPP 2244, BGG 2870, ROP 26
	10:00 - 13:00	3.00	CIRC	1	TOOK 18 BBL KICK & CIRC OUT GAS 40 ft FLARE mAX GAS 8050 UT
	13:00 - 13:30	0.50	RIG	1	RIG SERVICE
	13:30 - 02:00	12.50	DRL	1	DRLG F/ 11715 T/ 11866 WOB 15, MW 10.5, GPM 418, DHRPM 92, TDRPM 60, DIFF 182, SPP2245, ROP 14.3
	02:00 - 03:00	1.00	CIRC	1	CIRC & BUILD ECD PILL & SPOT

Operations Summary Report

Well Name: WV 8D-15-8-21 STO 1
Location: 15- 8-S 21-E 26
Rig Name: UNIT

Spud Date: 6/28/2008
Rig Release: 9/26/2008
Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Description of Operations
8/27/2008	03:00 - 03:30	0.50	OTH		FLOW CHECK
	03:30 - 06:00	2.50	TRP	2	POOH
8/28/2008	06:00 - 10:30	4.50	TRP	2	TRIP OUT & LAY DOWN MOTOR & BIT (FUNCTION BLIND RAMS & UPPER PIPE RAMS)
	10:30 - 11:00	0.50	RIG	1	RIG SERVICE & SERVICE TOP DRIVE
	11:00 - 12:00	1.00	TRP	1	WAIT ON MOTOR & IMPREG BIT
	12:00 - 18:00	6.00	ISP	1	INSPECT BHA (LAY DOWN 2 JOINTS HWDP HAD WASH PIN & BOX)
	18:00 - 20:00	2.00	TRP	2	TRIP IN & FILL PIPE EVERY 3 ROWS TO@ 5820
	20:00 - 20:30	0.50	CIRC	1	CIRCULAUTE BTMS UP @ 5802 (10-15' FLAIR)
	20:30 - 23:30	3.00	TRP	2	STAGE IN THE HOLE F/ 5802 TO 11597 & STAGE OUT ECD PILL(60-80'FLAIR)
	23:30 - 05:00	5.50	REAM	1	WASH & REAM F/ 11,597 TO 11,866 (WT 2-4K / MTR 377 / TDRP 40-45 / GPM 377 /) RAISE MUD WT 10.8
	05:00 - 06:00	1.00	DRL	1	WASH & REAM F/ 11,597 TO 11,866 (WT 2-4K / MTR 377 / TDRP 40-45 / GPM 377 /) RAISE MUD WT 11 PGM
8/29/2008	06:00 - 11:30	5.50	DRL	1	DRLG F/11,866' TO 11,878' (12 FT. AT 2.1 FPH)
	11:30 - 12:00	0.50	RIG	1	RIG SERVICE
	12:00 - 17:30	5.50	DRL	1	DRLG. F/ 11,878' TO 11,909' (31 FT. AT 5.6 FPH)
	17:30 - 23:30	6.00	CIRC	2	LOST CIRCULATION AT 11,909' MIXING AND PUMPING LCM SWEEPS,CONTINUED TO TAKE FLUID AND COULD NOT GAIN ON VOLUME.
	23:30 - 00:00	0.50	TRP	2	PULL 5 STD'S DRILL PIPE TO GET ABOVE LOSS ZONE
	00:00 - 03:30	3.50	CIRC	2	BUILDING VOLUME,RAISE WEIGHT IN PRE-MIX,PUMPING 5 BBL'S EVERY 15 MIN AND ROTATING PIPE
	03:30 - 06:00	2.50			DRILL F/ 11909 TO 11918 (9 FT @ 3.6 FTH) LOST APPROX 670 BBLS IN 24 HRS BUILD VOLUME 11% LCM IN SYSTEM
8/30/2008	06:00 - 17:30	11.50	DRL	1	DRLG. F / 11,918' TO 11,971' (53 FT. @4.6 FPH)WOB 12/14,RPM 62,SPM 100 AT 2750 PSI,419 GPM
	17:30 - 18:00	0.50	RIG	1	RIG SERVICE
	18:00 - 04:00	10.00	DRL	1	DRLG. F / 11,971' TO 12,050' (79 FT. @7.9 FPH)WOB 12/14,RPM 62,SPM 100 AT 2750 PSI,419 GPM
	04:00 - 06:00	2.00	CIRC	5	CIRCULATE UP SAMPLES AT 12,050'
8/31/2008	06:00 - 07:30	1.50	CIRC	5	CIRC. BTMS UP - PUMP & SPOT ECD PILL
	07:30 - 08:30	1.00	TRP	2	TRIP OUT TO 10,567' (15 STD'S)
	08:30 - 10:30	2.00	CIRC	1	CIRC. BTM'S UP
	10:30 - 12:30	2.00	TRP	2	TRIP OUT TO CSG. SHOE
	12:30 - 13:00	0.50	RIG	1	RIG SERVICE & FLOW CHECK
	13:00 - 16:30	3.50	TRP	2	FINISH TRIP OUT - L.DOWN MTR. & MONEL & D.COLLAR
	16:30 - 02:30	10.00	LOG	1	HOLD SAFETY MTG. W/ ALL PERSONNEL & RIG UP & LOG WITH HALIBURTON,LOGGERS DEPTH AT 12,038',HAD TOOL FAILURE 2000 FT OFF BTM,P.O.O.H WITH TOOLS AND REPLACE BAD TOOLS,RUN BACK IN AND COMPLETE LOGGING RUN.
	02:30 - 06:00	3.50	TRP	2	PICK UP RR BIT # 12 AND TRIP IN
9/1/2008	06:00 - 07:00	1.00	RIG	6	SLIP & CUT DRILLING LINE
	07:00 - 08:00	1.00	CIRC	1	CIRC. BTMS UP AT CASING SHOE (5400')
	08:00 - 11:30	3.50	TRP	2	TRIP IN HOLE (STAGE IN)
	11:30 - 12:00	0.50	RIG	1	RIG SERVICE
	12:00 - 14:00	2.00	CIRC	1	CIRC. BTMS UP AND GAS OUT (60'-80' FLARE)
	14:00 - 14:30	0.50	CIRC	1	SPOT 100 BBL ECD PILL AT 13 PPG. W/ 15% LCM
	14:30 - 16:00	1.50	TRP	3	LAY DOWN 45 JT'S DRILL PIPE (SAFETY MTG W/ ALL PERSONNEL)
	16:00 - 17:00	1.00	CIRC	1	CIRC. GAS OUT
	17:00 - 01:00	8.00	TRP	3	PUMP PILL & L.D.D.P
	01:00 - 01:30	0.50	OTH		PULL WEAR BUSHING
	01:30 - 02:00	0.50	RIG	7	HELD SAFETY MTG. WITH ALL PERSONNEL
	02:00 - 04:30	2.50	CSG	1	RIG UP CASING CREW

Operations Summary Report

Well Name: WV 8D-15-8-21 STO 1
Location: 15- 8-S 21-E 26
Rig Name: UNIT

Spud Date: 6/28/2008
Rig Release: 9/26/2008
Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Description of Operations
9/1/2008	04:30 - 06:00	1.50	CSG	2	MAKE UP SHOE TRACK & RUN 7" CASING
	06:00 -				NOTIFY JAMEY WITH BLM ON RUNNING 7" CASING AND CEMENTING ON 8/31/2008 AT 0845 HR'S ON VOICE MAIL MESSAGE.
9/2/2008	06:00 - 06:30	0.50	RIG	7	HELD SAFETY MTG. W/ DAYLIGHT CREW & ALL CASING PERSONNEL
	06:30 - 15:00	8.50	CSG	2	FINISH RUNNING 7" CASING(77 JT'S 29#LT&C,HCP 110,205 JT'S 26# LT&C,HCP-110 LANDED AT 12,039.15,ST.WT,252,000#
	15:00 - 16:00	1.00	CSG	1	RIG DOWN CASING CREW
	16:00 - 20:00	4.00	CIRC	1	CIRCULATE GAS OUT
	20:00 - 20:30	0.50	CSG	1	RIG DOWN FILL TOOL
	20:30 - 23:00	2.50			PULL LANDING JT. - INSTALL CASING ISOLATION BUSHING & ISOLATION TOOL
	23:00 - 02:00	3.00	CMT	1	RIG UP CEMENTERS
	02:00 - 02:30	0.50	RIG	7	SAFETY MTG. WITH CEMENTERS & RIG PERSONNEL
	02:30 - 04:30	2.00	CMT	2	SWAP CEMENT LINES FROM C SECTION TO B SECTION
	04:30 - 05:00	0.50	CMT	2	RETEST CEMENT NITROGEN LINES,CEMENT TO 6000 PSI & 8000 PSI ON N2
	05:00 - 06:00	1.00	CMT	2	CEMENT 7" CASING
9/3/2008	06:00 - 10:30	4.50	CMT	2	FINISH CEMENTING 7" CASING,HAD CEMENT TO SURFACE AFTER PUMPING 340 BBL'S OF DISPLACEMENT MUD,HAD RETURNS THROUGHOUT JOB,WENT 2.5 BBL'S OVER DISPLACEMENT AND BUMP PLUG,TEST CASING FOR 30 MIN. FLOATS NOT HOLDING,PUMP BACK UP TO 600 PSI WAIT 5 MIN. STILL NOT HOLDING,PRESSURE BACK UP 600 PSI AND LEAVE PRESSURE ON CASING.
	10:30 - 11:30	1.00	CMT	1	RIG DOWN HALIBURTON
	11:30 - 17:00	5.50	WOT	1	OPEN VALVE ON CEMENT HEAD,TOTAL BBL'S BACK 6.0,MONITOR CASING FOR RETURNS FOR ONE HR. NO GAIN ON FLUID
	17:00 - 18:00	1.00	WOT	1	RIG DOWN CAMERONS CEMENT ISOLATION TOOL
	18:00 - 06:00	12.00	BOP	1	GET BOPS READY TO CHANGE OUT RAMS ON 13 5/8 STACK , PUT VBR RAMS IN TOP & BOTTOM PIPE RAMS & GET PITS SYSTEM READY FOR OIL BASE MUD (NOTIFY JAMIE SPARKER @ 8:20 PM ABOUT TESTING BOPS LEFT VOICE MAIL9-2-2008)
9/4/2008	06:00 - 10:00	4.00	BOP	1	NIPPLE UP BOPE AND CHANGE OUT TOP PIPE RAMS TO VARIABLES
	10:00 - 15:00	5.00	BOP	2	TEST BOPE,TOP,BOTTOM,PIPE RAMS,BLIND RAMS TO 250 PSI LOW FOR 5 MIN.HIGH TO 10,000 PSI FOR 10 MIN.UPPER & LOWER TOP DRIVE VALVES,DART & SAFETY VALVEAT 250 LOW AT 5 MIN. HIGH 10,000 PSI AT 10 MIN.CHOKE LINE AND MANIFOLD 250 LOW AT 5 MIN. HIGH 10,000 PSI 10 MIN.ANNULAR 250 LOW AT 5 MIN. HIGH AT 5000 PSI AT 10 MIN.SURFACE CASING TO 1500 PSI AT 30 MIN.SURFACE LINES TO 3000 PSI
	15:00 - 15:30	0.50	BOP	2	REPLACE SEALS ON DOOR HINGE TOP PIPE RAMS ODS
	15:30 - 16:00	0.50	OTH		SET WEAR BUSHING
	16:00 - 21:00	5.00	OTH		PUT FLOW LINE TOGETHER,PICK UP IN CELLAR INSTALL GRADING,PICK UP 4" HANDLING SUBS,STRAP BHA AND LOAD RACKS
	21:00 - 22:00	1.00	OTH		RIG UP PICK UP MACHINE
	22:00 - 06:00	8.00	TRP	5	PICK UP BHA AND 4" DRILL PIPE
9/5/2008	06:00 - 11:30	5.50	TRP	5	PICK UP 4" DRILL PIPE
	11:30 - 12:30	1.00	CSG	1	RIG DOWN PICK UP MACHINE
	12:30 - 13:30	1.00	DRL	4	DRILL CEMENT & FLOAT EQUIPMENT (11,941' TO 12,039')
	13:30 - 14:30	1.00	CIRC	1	CIRCULATE AND EVAN MUD WT. OUT
	14:30 - 15:00	0.50	EQT	2	PERFORM F.I.T EMW = 15.5 PPG AT 1255 PSI,(FORMATION HELD PRESSURE) AT 12,049'
	15:00 - 15:30	0.50	RIG	1	RIG SERVICE
	15:30 - 06:00	14.50			DRLG. F/ 12,050' TO 12,368' (318' @ 21.9 FPH)WOB 12/14,RPM 58,78 SPM,3080 PSI
9/6/2008	06:00 - 10:00	4.00	DRL	1	DRLG. FROM 12,368' TO 12,530'(162'@40.5 FPH)

Questar E & P

Operations Summary Report

Well Name: WV 8D-15-8-21 STO 1
Location: 15- 8-S 21-E 26
Rig Name: UNIT

Spud Date: 6/28/2008
Rig Release: 9/26/2008
Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Description of Operations
9/6/2008	10:00 - 11:00	1.00	CIRC	1	CIRCULATE BTMS UP
	11:00 - 11:30	0.50	TRP	2	PULL 6 STD'S OUT TO 7" CASING SHOE
	11:30 - 12:00	0.50	EQT	2	PERFORM F.I.T,EMW 15.5 PPG,HELD PRESSURE AT 1270 PSI
	12:00 - 12:30	0.50	RIG	1	RIG SERVICE
	12:30 - 13:00	0.50	TRP	2	TRIP BACK TO BTM.
	13:00 - 17:30	4.50	LOC	7	CLEAN PRE-MIX TANK,PILL & TRIP TANK AND DISPLACE OIL MUD IN HOLE
	17:30 - 23:30	6.00	TRP	2	PUMP PILL & TRIP OUT
	23:30 - 06:00	6.50	TRP	2	PICK UP MUD MTR. & BIT #14 AND T.I.H
9/7/2008	06:00 - 07:30	1.50	CIRC	1	CIRCULATE BTMS UP
	07:30 - 08:00	0.50	TRP	2	FINISH TRIP I N
	08:00 - 08:30	0.50	DRL	1	DRLG. F/ 12,530' TO 12,537'
	08:30 - 09:00	0.50	OTH		FLOW CHECK,CLEAN UP SHAKERS
	09:00 - 12:00	3.00	OTH		ATTEMPT TO GET BIT DRILLING,NO GO
	12:00 - 14:00	2.00	CIRC	1	CIRCULATE,CHECKING ON MUD MTR'S. AVAILABLITY
	14:00 - 19:30	5.50	TRP	2	TRIP OUT
	19:30 - 20:30	1.00	TRP	1	LAY DOWN MUD MTR. MONEL,WASHED OUT IN MIDDLE OF COLLAR CRACK WAS 8" LONG AND VERTICAL,P/U ANOTHER MONEL,
	20:30 - 01:00	4.50	TRP	2	TRIP IN HOLE
	01:00 - 06:00	5.00	DRL	1	DRLG. F/ 12,537' TO 12,724'(35.2 FPH)WOB 14,RPM 70,SPM 66,277GPM
9/8/2008	06:00 - 12:30	6.50	DRL	1	DRLG. F/12,724' TO 12,974' (200'@30.7FPH)WOB 14,RPM 70,SPM 64,PSI 3050
	12:30 - 17:00	4.50	WCL	1	TOOK 50 BBL.GAIN,SHUT WELL IN,RAISE MUD WEIGHT AND CIRCULATE OUT GAS.
	17:00 - 06:00	13.00	DRL	1	DRLG. F/12,974' TO 13,225' (251'@19.3.FPH)WOB 14,RPM 70,SPM 64,PSI 3050
9/9/2008	06:00 - 08:30	2.50	DRL	1	DRLG. F/13,225' TO 13,301' (76'@30.4FPH)WOB 15,RPM 70,SPM 64 269 GPM
	08:30 - 09:00	0.50	RIG	1	RIG SERVICE
	09:00 - 06:00	21.00	DRL	1	DRLG. F/13,301' TO 13,850' (549'@26.1FPH)WOB 15,RPM 70,SPM 64 269 GPM
9/10/2008	06:00 - 13:00	7.00	DRL	1	DRLG. F/13,850' TO 13,983' (133' @ 19.0 FPH)WOB 17,RPM 70,SPM 52
	13:00 - 13:30	0.50	RIG	1	RIG SERVICE
	13:30 - 14:30	1.00	CIRC	1	CIRCULATE BTM'S UP
	14:30 - 15:00	0.50	SUR	1	DROP SURVEY
	15:00 - 15:30	0.50	CIRC	1	PUMP ECD PILL
	15:30 - 17:00	1.50	TRP	2	TRIP OUT 28 STD'S
	17:00 - 17:30	0.50	OTH		FLOW CHECK & PUMP PILL
	17:30 - 19:00	1.50	CIRC	1	CIRCULATE BTM'S
	19:00 - 00:30	5.50	TRP	2	PUMP PILL & TRIP OUT
	00:30 - 06:00	5.50			PICK UP BIT & MUD MTR. & T.I.H
9/11/2008	06:00 - 08:00	2.00	TRP	2	RIH TO 11550 FILL PIPE
	08:00 - 09:00	1.00	CIRC	1	CIRC ECD PILL
	09:00 - 09:30	0.50	TRP	1	RIH TO 12039 (SHOE)
	09:30 - 11:00	1.50	CIRC	1	CIRC ECD PILL, 4,200 UT GAS, 20' FLARE
	11:00 - 11:30	0.50	TRP	2	RIH TO 13000
	11:30 - 13:00	1.50	CIRC	1	CIRC BOTTOM OF ECD PILL OUT, 6,600 UT GAS, 50' FLARE, 33 BBL GANE
	13:00 - 13:30	0.50	TRP	2	RIH TO 13882
	13:30 - 15:00	1.50	CIRC	1	CIRC FLANGE ON ROTATING HEAD LEAKING, CLOSED ANNULAR & CIRC THROUGH CHOKE WHILE TIGHTING BOLTS ON FLANGE, 6,700 UT GAS, 50' FLARE, 30 BBL GANE
	15:00 - 15:30	0.50	REAM	1	WASH 150' TO BOTTOM
	15:30 - 06:00	14.50	DRL	1	DRLG F/ 13983 T/ 14294 WOB 8/10, MOTOR .52 GPR, GPM 193, DHRPM 100, TDRPM 45, DIFF 390, SPP 2615, ROP 21.4
9/12/2008	06:00 - 12:30	6.50	DRL	1	DRLG F/ 14294 T/ 14488 WOB 10/15, GPM 193, DHRPM 100, TDRPM 45, DIFF 432, SPP 2650, ROP 29.8
	12:30 - 13:00	0.50	RIG	1	RIG SERVICE
	13:00 - 06:00	17.00	DRL	1	DRLG F/ 14488 T/ 15165 WOB 10/15, GPM 193, DHRPM 100, TDRPM 45, DIFF7

Operations Summary Report

Well Name: WV 8D-15-8-21 STO 1
Location: 15- 8-S 21-E 26
Rig Name: UNIT

Spud Date: 6/28/2008
Rig Release: 9/26/2008
Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Description of Operations
9/12/2008	13:00 - 06:00	17.00	DRL	1	700, SPP 2879, ROP 39.8
9/13/2008	06:00 - 11:00	5.00	DRL	1	DRLG F/ 15165 T/15353 WOB 10/17, GPM 193, DHRPM 100, TDRPM 45, DIFF 550, SPP 2950, ROP 37.6
	11:00 - 12:00	1.00	CIRC	1	CIRC & BUILD ECD PILL
	12:00 - 12:30	0.50	OTH		DROP SURVEY
	12:30 - 14:00	1.50	CIRC	1	CIRC BOTTOMS UP
	14:00 - 15:00	1.00	CIRC	1	SOPT ECD PILL
	15:00 - 18:00	3.00	TRP	2	POOH
	18:00 - 18:30	0.50	OTH		FLOW CHECK @ 12030 NO FLOW
	18:30 - 19:30	1.00	RIG	6	CUT DRLG LINE
	19:30 - 20:00	0.50	CIRC	1	CIRC BOTTOMS UP
	20:00 - 01:30	5.50	TRP	2	POOH
	01:30 - 02:00	0.50	TRP	2	C/O BIT & MOTOR
	02:00 - 06:00	4.00	TRP	2	RIH
9/14/2008	06:00 - 09:00	3.00	TRP	2	RIH TO 12815
	09:00 - 10:00	1.00	CIRC	1	CIRC OUT 1/2 ECD PILL
	10:00 - 11:00	1.00	TRP	2	RIH F/ 12815 T/ 15353
	11:00 - 13:00	2.00	CIRC	1	CIRC OUT ECD PILL & BOTTOMS UP
	13:00 - 06:00	17.00	DRL	1	DRLG F/ 15353 T/ 16037 WOB 8/12, MOTOR HUNT .25 RPG, GPM 209, DHRPM 54, TDRPM 45, DIFF 253, SPP 2850, ROP 40.2
9/15/2008	06:00 - 15:30	9.50	DRL	1	DRLG F/ 16037 T/ 16139 WOB 10/15, GPM 188, DHRPM 49, TDRPM 44, DIFF 300, SPP 2900, ROP 10.7
	15:30 - 16:00	0.50	RIG	1	RIG SERVICE
	16:00 - 18:00	2.00	DRL	1	DRLG F/ 16139 T/ 16150 WOB 10/17, GPM 192, DHRPM 50, TDRPM 50, DIFF 350, SPP 3000, ROP 5.5
	18:00 - 21:30	3.50	CIRC	1	CIRC & BUILD ECD PILL & SPOT
	21:30 - 06:00	8.50	TRP	12	POOH
9/16/2008	06:00 - 07:00	1.00	TRP	13	POOH
	07:00 - 08:00	1.00	TRP	2	C/O MOTOR & BIT
	08:00 - 12:30	4.50	TRP	2	RIH TO 12555
	12:30 - 14:30	2.00	CIRC	1	CIRC OUT PATR OF ECD PILL, LOST PARTIAL RETURNS REDUCED PUMP TO 20 SPM
	14:30 - 15:00	0.50	TRP	2	POOH TO 12000'
	15:00 - 19:00	4.00	CIRC	1	CIRC @ 20 SPM REDUCING MW FROM 15.8 TO 14 .7 GAS 4200 UT 30' FLARE
	19:00 - 19:30	0.50	TRP	2	RIH F/ 12000 T/ 12655
	19:30 - 22:30	3.00	CIRC	1	CIRC BOTTOMS UP
	22:30 - 00:30	2.00	TRP	2	RIH F/ 12655 T/ 16000
	00:30 - 02:30	2.00	CIRC	1	CIRC BOTTOMS UP
	02:30 - 06:00	3.50	DRL	1	DRLG F/ 16150 T/ 16293 WOB 8/10, MOTOR .65, GPM 184, DHRPM 103, TDRPM 44, DIFF 450 , SPP 2800, ROP 40.8
9/17/2008	06:00 - 07:30	1.50	DRL	1	DRLG F/ 16293 T/ 16324 WOB 8/10, GPM 188, DHRPM 105,TDRPM 15 DIFF 350, SPP 2850, ROP 20.6
	07:30 - 08:00	0.50	RIG	1	RIG SERCICE
	08:00 - 00:30	16.50	DRL	1	DRLG F/ 16324 T/ 16680 WOB 8/15, GPM 184, MW 14.7+, DHRPM 103, TDRPM 20, DIFF 350, SPP 2837, ROP 21.5
	00:30 - 03:30	3.00	CIRC	1	CIRC & BUILD ECD PILL & SPOT, 1.5 # OVER
	03:30 - 06:00	2.50	TRP	2	POOH
9/18/2008	06:00 - 12:00	6.00	TRP	10	POOH
	12:00 - 13:30	1.50	TRP	10	CRETRIVE SURVEY (MISS RUN) L/D BIT & MOTOR, P/U BIT & TORQUE BUSTER
	13:30 - 18:30	5.00	TRP	10	RIH
	18:30 - 20:30	2.00	CIRC	1	CIRC BOTTOMS UP @ 12000
	20:30 - 22:30	2.00	TRP	10	RIH

Questar E & P

Operations Summary Report

Well Name: WV 8D-15-8-21 STO 1
Location: 15- 8-S 21-E 26
Rig Name: UNIT

Spud Date: 6/28/2008
Rig Release: 9/26/2008
Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Description of Operations
9/18/2008	22:30 - 00:00	1.50	CIRC	1	CIRC & WASH 90' TO BOTTOM
	00:00 - 06:00	6.00	DRL	1	DRLG F/ 16680 T/ 16730 WOB 10/13, GPM 205, TDRPM 50, SPP 2575, ROP 8.3
9/19/2008	06:00 - 13:30	7.50	DRL	1	DRLG F/ 16730 T/ 16785 WOB 10/15, GPM 205, TDRPM 45/55, SPP 2565, ROP 7.8
	13:30 - 14:00	0.50	RIG	1	RIG SERVICE
	14:00 - 06:00	16.00	DRL	1	DRLG F/ 16730 T/ 16857 WOB 15/25, GPM 205, TDRPM 45/55, SPP 2500, ROP 9
9/20/2008	06:00 - 10:00	4.00	DRL	1	DRLG F/ 16857 T/ 16879 WOB 20/30, GPM 209, TDRPM 45/55, SPP 2550, ROP 5.5
	10:00 - 11:00	1.00	SUR	1	DROP SURVEY & FLOW CHECK
	11:00 - 12:00	1.00	CIRC	1	CIRC & SPOT ECD PILL
	12:00 - 20:00	8.00	TRP	10	POOH
	20:00 - 20:30	0.50	TRP	10	C/O BIT & P/U MOTOR
	20:30 - 01:00	4.50	TRP	10	RIH
	01:00 - 02:30	1.50	CIRC	1	CIRC ECD PILL
	02:30 - 05:00	2.50	TRP	10	RIH
	05:00 - 06:00	1.00	CIRC	1	CIRC ECD PILL & WASH TO BOTTOM
9/21/2008	06:00 - 07:00	1.00	CIRC	1	CIRC BOTTOMS UP & ECD PILL OUT
	07:00 - 08:00	1.00	OTH		C/O ROTATING HEAD
	08:00 - 14:00	6.00	DRL	1	DRLG F/ 16879 T/ 16906 BIT TRY CONE, WOB 18, MOTOR .26, GPM 197, DHRPM 51, TDRPM 36, DIFF 125, SPP 2900, ROP 4.5
	14:00 - 14:30	0.50	RIG	1	RIG SERVICE
	14:30 - 04:00	13.50	DRL	1	DRLG F/ 16909 T/ 16971
	04:00 - 06:00	2.00	CIRC	1	CIRC BOTTOMS UP
9/22/2008	06:00 - 08:00	2.00	TRP	14	SHORT TRIP 15 STANDS
	08:00 - 11:00	3.00	CIRC	1	CIRC FOR LOGS, BUILD ECD PILL
	11:00 - 11:30	0.50	CIRC	1	SOPT ECD PILL
	11:30 - 20:00	8.50	TRP	2	POOH FOR LOGS & SLM 16965
	20:00 - 06:00	10.00	LOG	1	PJSM, RIG UP SCHLUMBERGER & RUN # 1 PFX, # 2 OBIL
9/23/2008	06:00 - 18:30	12.50	LOG	1	RUN LOG # 2 OBMI & RIG DOWN SCHLUMBERGER
	18:30 - 03:30	9.00	TRP	2	RIH BROKE CIRC @ 12000 & CIRCBOTTOMS UP, 13,500 CIRC, 15000
	03:30 - 06:00	2.50	CIRC	1	CIRC BOTTOMS UP
9/24/2008	06:00 - 11:30	5.50	CIRC	1	CIRC & LOWER MW TO 14.8 & PUMP ECD PILL, 1# OVER
	11:30 - 03:00	15.50	TRP	3	L/D DP & BHA
	03:00 - 04:30	1.50	OTH		PULL WEAR RING
	04:30 - 06:00	1.50	CSG	1	PJSM & R/U CASING CREW
9/25/2008	06:00 - 09:00	3.00	OTH		WAIT ON CAMERON HAND & DIFFERANT TOOL TO PULL WEAR BUSHING
	09:00 - 09:30	0.50	RIG	7	HELD SAFETY MEETING WITH CASING CREW & LAY DOWN CREW
	09:30 - 11:00	1.50	CSG	1	FINISH RIGGING UP CASING CREW
	11:00 - 15:30	4.50	CSG	2	RUN 4 1/2 PRODUCTION CASING & STAGING OUT ECD PILL & STIPPING MUD WT. BACK TO 14.7
	15:30 - 17:00	1.50	CIRC	1	INSTALL ROTATING HEAD & CIRULATE BTMS UP 6,000'
	17:00 - 17:30	0.50	CSG	2	RUN 4 1/2 PRODUCTION CASING & STAGING OUT ECD PILL & STIPPING MUD WT. BACK TO 14.7
	17:30 - 18:30	1.00	CSG	1	CHANGE OUT DIES ON CASING ELEVATORS THEY WERE SLIPPING
	18:30 - 22:30	4.00	CSG	2	RUN 4 1/2 PRODUCTION CASING & STAGING OUT ECD PILL & STIPPING MUD WT. BACK TO 14.7 @ DEPTH 12,000
	22:30 - 00:00	1.50	CSG	1	REPAIR FILL TOOL & WORK ON SLIPS & ELEVATORS
	00:00 - 01:30	1.50	CSG	2	RUN 4 1/2 PRODUCTION
	01:30 - 03:00	1.50	CIRC	1	RUN 4 1/2 PRODUCTION CASING & STAGING OUT ECD PILL & STIPPING MUD WT. BACK TO 14.7 @ DEPTH 14,500
	03:00 - 05:30	2.50	CSG	2	RUN 4 1/2 PRODUCTION
	05:30 - 06:00	0.50	CIRC	1	RUN 4 1/2 PRODUCTION CASING & STAGING OUT ECD PILL & STIPPING MUD WT. BACK TO 14.7 @ DEPTH 16,971

Questar E & P

Operations Summary Report

Well Name: WV 8D-15-8-21 STO 1
Location: 15- 8-S 21-E 26
Rig Name: UNIT

Spud Date: 6/28/2008
Rig Release: 9/26/2008
Rig Number: 232

Date	From - To	Hours	Code	Sub Code	Description of Operations
9/26/2008	06:00 - 07:30	1.50	CSG	1	RIG DOWN CASING & LAY DOWN CREW
	07:30 - 09:00	1.50	CMT	1	RIG UP HALIBERTON SWEDGE & CEMENT HEAD
	09:00 - 11:00	2.00	CIRC	1	CIRULATE GAS OUT BEFORE CEMENTING (CIRCULATE RATE 4 BBLS MIN & HAD 20-25' FLARE)
	11:00 - 11:30	0.50	RIG	7	HELD SAFETY MEETING HALIBURTON
	11:30 - 14:00	2.50	CMT	2	PRESSURE TEST LINES @ 12000 PSI & PUMP 40 BBL SPACER & 695 SX CLASS G PREMIUM CEMENT (DENSITY-15 LB - 211.6 BBLS) DISPLACEMENT 241.5 BBLS 8.3 H2O (BUMP PLUG & FLOATS HELD)
	14:00 - 15:00	1.00	CMT	1	RIG DOWN HALIBURTON
	15:00 - 03:00	12.00	WOT	1	WAIT ON CEMENT & GET STACK READY TO LIFT (CLEAN PITS W/ BADGER & FLUSH OUT CHOKE HOUSE & BUSTER)
	03:00 - 05:00	2.00	BOP	1	SLACK OFF STRING WT. R/DOWN FLOOR & LIFT ROTARY TABLE & REMOVE ROTATING HEAD& PUT TABLE & FLOOR TOGETHER TO LIFT STACK
	05:00 - 06:00	1.00	BOP	1	HOLD SAFETY MEETING WITH QUICK TEST & R/UP JACKS TO LIFT STACK
9/27/2008	06:00 - 09:00	3.00	BOP	1	LIFT STACK & SET SLIPS @ STRING WT 200K & SET STACK BACK DOWN RIG DOWN QUICK TEST JACKS & CASING ELEVATORS & BAIL (RELEASE RIG 0900 AM / 9-26-2008)
	09:00 - 17:00	8.00	LOC	4	REVIEW JSA & RIG DOWN TOP DRIVE & FLOOR
	17:00 - 18:00	1.00	LOC	4	READY TO LAY DERRICK OVER
	18:00 - 06:00	12.00	LOC	3	WAIT ON DAY LIGHT & HAD JDS ROUSTABOUT CLEAN SUBS

Questar E & P

Operations Summary Report – COMPLETION

Well Name: WV 8D-15-8-21 STO 1
Location: 15- 8-S 21-E 26
Rig Name:

Spud Date: 6/28/2008
Rig Release:
Rig Number:

Date	From - To	Hours	Code	Sub Code	Description of Operations
9/30/2008	08:00 - 15:00	7.00	LOG	2	MIRU OWP ELU. MU AND RIH WITH CCL/GR/CBL/VDL LOGGING TOOLS AND TAG CORRELATED PBTD AT 16,901' (FC @ 17,003'). PRESSURE UP TO 4,000 PSI AND LOG UP TO 6,500'. BLEED PRESSURE TO ZERO AND POOH. RDMO ELU. EST. TOC AT 7,420'.
10/2/2008	06:00 - 07:00	1.00	WHD	1	NU 4 1/16" 15K FRAC TREE AND SCHOONER HCR. SET FRAC STAND.
	07:00 - 16:00	9.00	DRL	6	MIRU IPS CTU AND FLOW BACK TANKS. MU QES 2 7/8" MOTOR/JARS AND 3.625" 5-BLADE JUNK MILL. RIH AND TAG FILL AT 16,900'. INCREASE RATE TO 1.75 BPM AND CLEAN OUT TO FC AT 16,961' (CTM). PUMP 10 BBL SWEEP AND POOH. RDMO CTU.
10/13/2008	07:00 - 12:00	5.00	PERF	2	MIRU OWP ELU. MU AND RIH WITH 2 1/2" GUNS AND PERF STAGE 1 FROM 16,572' TO 16,932'. 500 PSI WHEN THE GUNS WERE FIRED AND 800 PSI WITH GUNS ON THE SURFACE.
10/17/2008	06:00 - 13:15	7.25	STIM	2	MIRU HES FRAC EQUIPMENT. 7 HOUR DELAY DUE TO HES PROBLEMS.
	13:15 - 14:00	0.75	STIM	3	FRAC STAGE #1 WITH 1,438 BBLS 35# HYBOR-G CARRYING 65,783 LBS# 30/60 SINTERLITE SAND. AVG RATE= 41.3 BPM. AVG PSI= 10,576.
	14:00 - 16:45	2.75	PERF	2	PERF STG #2 WITH 1- 4' & 5- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 16,490' WITH 8,000 PSI. SHOOT 42 HOLES FROM 15,965' TO 16,465'.
	16:45 - 18:30	1.75	STIM	3	FRAC STAGE #2 WITH 2,716 BBLS SLICKWATER CARRYING 41,890 LBS# 30/60 SINTERLITE SAND. AVG RATE= 32.7 BPM. AVG PSI= 9,882. SCREENED OUT IN FLUSH STAGE.
	18:30 - 21:00	2.50	OTH		FLOWED CSG BACK TO TANK ON 14/64" CHOKE AND 8,000 PSI FOR 300 BBLS. LOAD CSG WITH 252 BBLS SLICKWATER AT 11.4 BPM AND 9,100 PSI.
	21:00 - 06:00	9.00	WOT	4	SDFN
10/18/2008	05:30 - 09:20	3.83	PERF	2	PERF STG #3 WITH 1- 4' & 5- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CBP AT 15,880' WITH 8,000 PSI. SHOOT 42 HOLES FROM 15,266' TO 15,848'.
	09:20 - 10:45	1.42	STIM	3	FRAC STAGE #3 WITH 2,393 BBLS SLICKWATER CARRYING 37,112 LBS# 30/60 SINTERLITE SAND. AVG RATE= 37.9 BPM. AVG PSI= 10,567.
	10:45 - 15:30	4.75	PERF	2	PERF STG #4 WITH 2- 4' & 3- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 15,130' WITH 8,200. PSI. SHOOT 42 HOLES FROM 14,749' TO 15,102'. ONE GUN MIS-FIRED. RBIH AND SHOOT TOP PERF.
	15:30 - 17:00	1.50	STIM	3	FRAC STAGE #4 WITH 2,394 BBLS SLICKWATER CARRYING 26,878 LBS# 30/60 SINTERLITE SAND. AVG RATE= 31.8 BPM. AVG PSI= 11,128.
	17:00 - 22:30	5.50	PERF	2	PERF STG #5 WITH 2- 4' & 3- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 14,660' WITH 8,000 PSI. SHOOT 42 HOLES FROM 14,133' TO 14,637'. THREE GUNS MIS-FIRED. POOH AND PICK UP NEW GUNS AND RBIH AND SHOOT PERFS. SDFN
10/19/2008	05:45 - 06:45	1.00	STIM	3	FRAC STAGE #5 WITH 2,430 BBLS SLICKWATER CARRYING 40,317 LBS# 30/50 TLC AND 30/60 SINTERLITE SAND. AVG RATE= 44.9 BPM. AVG PSI= 9,987.
	06:45 - 10:30	3.75	PERF	2	PERF STG #6 WITH 2- 4' & 3- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 13,880' WITH 7,300 PSI. SHOOT 42 HOLES FROM 13,345' TO 13,858'.
	10:30 - 11:40	1.17	STIM	3	FRAC STAGE #6 WITH 2,434 BBLS SLICKWATER CARRYING 40,222 LBS# 30/60 SINTERLITE SAND. AVG RATE= 44.6 BPM. AVG PSI= 9,538.
	11:40 - 15:30	3.83	PERF	2	PERF STG #7 WITH 1- 4' & 5- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 13,190' WITH 7,000 PSI. SHOOT 42 HOLES FROM 12,680' TO 13,171'. THREE GUNS MIS-FIRED. POOH AND PICK UP NEW GUNS AND RBIH AND SHOOT PERFS.
	15:30 - 16:45	1.25	STIM	3	FRAC STAGE #7 WITH 2,438 BBLS SLICKWATER CARRYING 39,988 LBS# 30/60 SINTERLITE SAND. AVG RATE= 45.0 BPM. AVG PSI= 7,804.
	16:45 - 18:25	1.67	PERF	2	PERF STG #8 WITH 2- 4' & 3- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 12,320' WITH 5,700 PSI. SHOOT 42 HOLES FROM

Questar E & P

Operations Summary Report

Well Name: WV 8D-15-8-21 STO 1
Location: 15- 8-S 21-E 26
Rig Name:

Spud Date: 6/28/2008
Rig Release:
Rig Number:

Date	From - To	Hours	Code	Sub Code	Description of Operations
10/19/2008	16:45 - 18:25	1.67	PERF	2	12,100' TO 12,293'.
	18:25 - 19:35	1.17	STIM	3	FRAC STAGE #8 WITH 2,406 BBLS SLICKWATER CARRYING 41,604 LBS# 30/60 SINTERLITE SAND. AVG RATE= 45.9 BPM. AVG PSI = 6,600
	19:35 - 21:15	1.67	PERF	2	PERF STG #9 WITH 10- 1' GUNS LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CBP AT 11,520' WITH 4,800 PSI. SHOOT 30 HOLES FROM 11,225' TO 11,504'.
	21:15 - 05:45	8.50	STIM	3	SDFN
10/20/2008	05:50 - 07:00	1.17	STIM	3	FRAC STAGE #9 WITH 2,539 BBLS SLICKWATER CARRYING 60,508 LBS# 30/50 SB EXCEL SAND. AVG RATE= 43.9 BPM. AVG PSI= 7,188.
	07:00 - 08:50	1.83	PERF	2	PERF STG #10 WITH 8- 1' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 11,100' WITH 3,700 PSI. SHOOT 24 HOLES FROM 10,822' TO 11,077'.
	08:50 - 10:00	1.17	STIM	3	FRAC STAGE #10 WITH 2,196 BBLS SLICKWATER CARRYING 42,717 LBS# 30/50 SB EXCEL SAND. AVG RATE= 41.9 BPM. AVG PSI= 7,479.
	10:00 - 11:50	1.83	PERF	2	PERF STG #11 WITH 12- 1' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CBP AT 10,190' WITH 3,700 PSI. SHOOT 36 HOLES FROM 9,610' TO 10,169'.
	11:50 - 13:00	1.17	STIM	3	FRAC STAGE #11 WITH 2,734 BBLS SLICKWATER CARRYING 70,144 LBS# 30/50 SB EXCEL SAND. AVG RATE= 45.2 BPM. AVG PSI= 6,125.
	13:00 - 14:45	1.75	PERF	2	PERF STG #12 WITH 6- 1' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 9,120' WITH 3,000 PSI. SHOOT 18 HOLES FROM 8,633' TO 9,094'.
	14:45 - 15:00	0.25	STIM	3	FRAC STAGE #12 WITH 744 BBLS X-LINK GEL CARRYING 51,010 LBS# 30/50 SB EXCEL SAND. AVG RATE= 51.7 BPM. AVG PSI = 7,142.
	15:00 - 16:30	1.50	PERF	2	PERF STG #13 WITH 5- 1' GUNS LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 7,575' WITH 2,500 PSI. SHOOT 15 HOLES FROM 6,717' TO 7,563'.
	16:30 - 17:00	0.50	STIM	3	FRAC STAGE #13 WITH 538 BBLS X-LINK GEL CARRYING 25,309 LBS# 30/50 SB EXCEL SAND. AVG RATE= 39.0 BPM. AVG PSI = 7,063.
	17:00 - 19:00	2.00	LOC	4	RDMO OWP ELU AND HES FRAC EQUIPMENT. SPOT DRILL OUT EQUIPMENT.
	19:00 - 05:45	10.75	STIM	3	SDFN
10/21/2008	06:00 - 21:00	15.00	LOC	4	MIRU IPS CTU, GCDOE AND SPIRIT FLUIDS. LOAD CT WITH 90* WATER. MU QES 2 7/8" MOTOR/JARS AND 3.55" 5-BLADE JUNK MILL. TEST STACK TO 8,000 PSI. RIH AND DRILL OUT 12 PLUGS IN 8 HOURS TO PBTD DEPTH OF 17,004'. PUMP FINAL SWEEP AND POOH. RDMO IPS CTU, GCDOE & SPIRIT FLUIDS.
	21:00 - 06:00	9.00	PTST	2	FLOWING TO SALES THROUGH IPS FBE.
10/22/2008	06:00 - 06:00	24.00	PTST	2	FLOWING TO SALES THROUGH IPS FBE.
10/23/2008	06:00 - 06:00	24.00	PTST	2	FLOWING TO SALES THROUGH IPS FBE.
10/24/2008	06:00 - 06:00	24.00	PTST	2	RDMO IPS FBE. FLOWING TO SALES THROUGH PRODUCTION EQUIPMENT.

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

FORM 6

ENTITY ACTION FORM

Operator: Questar Exploration and Production Co.
Operator Account Number: N 5085
Address: 11002 E. 17500 S.
City: Vernal
State: UT Zip: 84078
Phone Number: (435) 781-~~4300~~ 4342

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304738737	WV 16C-14-8-21		SESE	14	080S	210E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
D	14864	17123				11/1/2007	
Comments:	WMMFD --- 1/29/2009						

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739039	WV 13A-15-8-21		SWSW	15	080S	210E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
D	17040	17123				11/1/2007	
Comments:	WMMFD --- 1/29/2009						

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739040	WV 8D-15-8-21		SENE	15	080S	210E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
D	16957	17123				11/1/2007	
Comments:	WMMFD --- 1/29/2009						

RECEIVED
JAN 26 2009
DIV. OF OIL, GAS & MINING

ACTION CODES:
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)

CONFIDENTIAL

DAHN CALDWELL
Name (Please Print)
Dahn Caldwell
Signature
Office Admin
Title
1/20/09
Date

(5/2000)

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

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-0807

6. If Indian, Allottee or Tribe Name
UTE TRIBE

SUBMIT IN TRIPLICATE – *Other instructions on page 2.*

7. If Unit of CA/Agreement, Name and/or No.
WONSITS VALLEY UNIT

1. Type of Well
☐ Oil Well ☑ Gas Well ☐ Other

8. Well Name and No.
WV 8D-15-8-21

2. Name of Operator
QUESTAR EXPLORATION & PRODUCTION CO. CONTACT: Mike Stahl

9. API Well No.
43-047-39040

3a. Address
11002 EAST 17500 SOUTH, VERNAL, UTAH 84078

3b. Phone No. *(include area code)*
(303) 308-3613

10. Field and Pool or Exploratory Area
WONSITS VALLEY

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
2609' FSL 298' FEL, NESE, SECTION 15, T8S, R21E

11. Country or Parish, State
UINTAH, UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other COMMINGLING
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ 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 must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

In Compliance with the Administrative Utah code for drillling and operating practice R649-3-22, completion into two or more pools. Questar Exploration & Production Company hereby requests the commingling of production between intervals in the WV 8D-15-8-21. Questar considers this commingling to be in the public interest in that it promotes maximum ultimate economic recevery, prevents waste, provides for orderly and efficient production of oil and gas and presents no detrimental effects from commingling the gas streams.

Questar requests approval for the commingling of production of the Dakota and Wasatch intervals. Based upon offset production logs, the proposed initial allocation is as follows: Dakota - 10% ; Mancos - 40% ; Mesa Verde - 40% ; Wasatch - 10%.

On an annual basis the gas will be sampled and a determination will be made of the BTU content and gas constituents. These annual samples can be used to determine if the gas allocation is changing over time. If these samples do not indicate that any adjustments in allocation are necessary they may be discontinues after the fifth anniversary of the initial production.

COPY SENT TO OPERATOR
Date: 4.14.2009
Initials: KS

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*
Laura Bills

Title Associate Regulatory Affairs Analyst

Signature Laura Bills

Date 03/12/2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title Pet. Eng.

Date 4/13/09

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 DOGM

Federal Approval Of This Action Is Necessary

RECEIVED
MAR 16 2009
DIV. OF OIL, GAS & 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.

(Instructions on page 2)

CONFIDENTIAL

AFFIDAVIT OF NOTICE

STATE OF COLORADO)
) ss:
COUNTY OF DENVER)

Nathan C. Koeniger, being duly sworn, deposes and says:

1. That I am employed by Questar Exploration and Production Company in the capacity as a Landman. My business address is:

   Independence Plaza
   1050 17th Street, Suite 500
   Denver, CO 80265

2. In my capacity as a Landman, pursuant to the provisions of Utah Administrative Rule 649-3-22, I have provided a copy of Questar Exploration and Production Company's application for completion of the WV 8D-15-8-21 well into two or more pools, in the form of Utah Division of Oil, Gas and Mining's Form 9 Sundry Notice, to owners of all contiguous oil and gas leases or drilling units overlying the pools which are the subject of that application.

3. In my capacity as a Landman, I am authorized to provide such notice of Questar Exploration and Production Company's application to contiguous owners and to make this affidavit on this 4th day of March 2009.

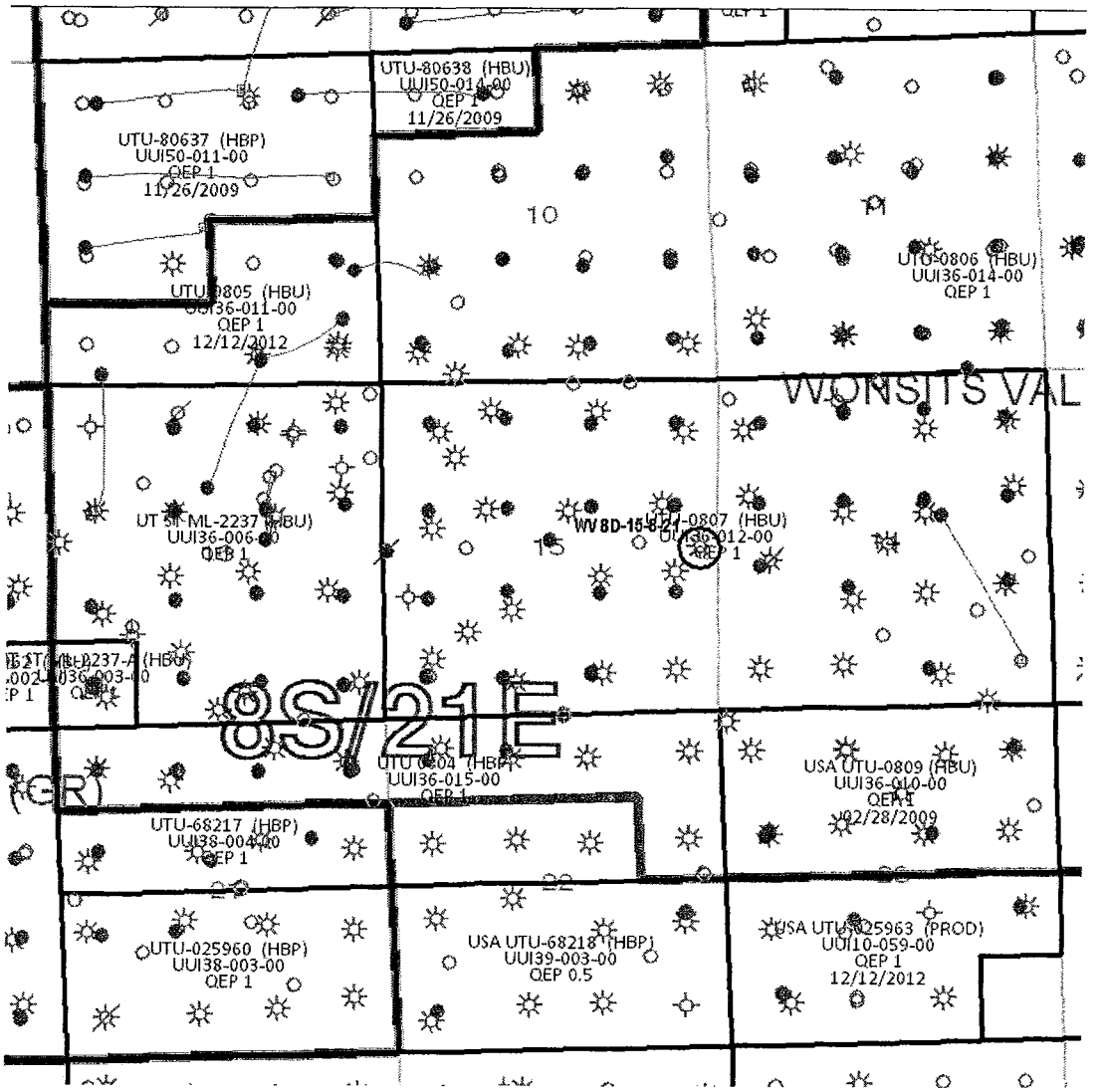
Printed Name: Nathan C. Koeniger

The foregoing instrument was sworn to and subscribed before me this 4th day of March 2009, by Nathan C. Koeniger.

Notary Public

MY COMMISSION EXPIRES: 7/7/11

THERESA CHATMAN
--NOTARY PUBLIC--
STATE OF COLORADO



T8S-R21E

○ Commingled well

Tw / Kmv
COMMINGLED PRODUCTION
Uinta Basin—Uintah County, Utah

Well: WV 8D-15-8-21
Lease: UTU 0807

QUESTAR
Exploration and Production
1050 17th St., # 500 Denver, CO 80265

Geologist:
Landman: Nate Koeniger/Chad Matney/Birgit Roesink
Date: February 17, 2009

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):	**TO:** (New Operator):
N5085-Questar Exploration and Production Company	N3700-QEP Energy Company
1050 17th St, Suite 500	1050 17th St, Suite 500
Denver, CO 80265	Denver, CO 80265
Phone: 1 (303) 308-3048	Phone: 1 (303) 308-3048

CA No. **Unit:** **WONSITS VALLEY**

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

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/28/2010
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/28/2010
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 6/24/2010
4a. Is the new operator registered in the State of Utah: Business Number: 764611-0143
5a. (R649-9-2)Waste Management Plan has been received on: Requested
5b. Inspections of LA PA state/fee well sites complete on: n/a
5c. Reports current for Production/Disposition & Sundries on: ok
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 8/16/2010 BIA not yet
7. **Federal and Indian Units:**
   The BLM or BIA has approved the successor of unit operator for wells listed on: 8/16/2010
8. **Federal and Indian Communization Agreements ("CA"):**
   The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
9. **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:

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

BOND VERIFICATION:

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

LEASE INTEREST OWNER NOTIFICATION:

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

COMMENTS:

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.

5. LEASE DESIGNATION AND SERIAL NUMBER: See attached

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: See attached

7. UNIT or CA AGREEMENT NAME: See attached

1 TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER: See attached

2 NAME OF OPERATOR: Questar Exploration and Production Company N5085

9. API NUMBER: Attached

3 ADDRESS OF OPERATOR: 1050 17th Street, Suite 500 CITY Denver STATE CO ZIP 80265

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		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 6/14/2010	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Operator Name Change
	☐ CONVERT WELL TYPE	☐ 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~~ 965010695

Fee Land Bond Number: ~~965003033~~ 965010695

BIA Bond Number: ~~799446~~ 965010693

The attached document is an all inclusive list of the wells operated by Questar Exploration and Production Company. As of June 14, 2010 QEP Energy Company assumes all rights, duties and obligations as operator of the properties as described on the list

NAME (PLEASE PRINT) Morgan Anderson TITLE Regulatory Affairs Analyst

SIGNATURE Morgan Anderson DATE 6/23/2010

(This space for State use only)

RECEIVED
JUN 2 8 2010
DIV. OF OIL, GAS & MINING

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

(5/2000) (See Instructions on Reverse Side)

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

well_name	sec	twp	rng	api	entity	mineral lease	type	stat	C
WV 43	11	080S	210E	4304715471	5265	Federal	OW	P	
WV 48	10	080S	210E	4304715476	5265	Federal	OW	P	
WV 53	10	080S	210E	4304720003	5265	Federal	OW	P	
WV 55	14	080S	210E	4304720005	5265	Federal	OW	P	
WV 62	10	080S	210E	4304720024	5265	Federal	OW	P	
WV 65	15	080S	210E	4304720041	5265	Federal	OW	P	
WV 83 WG	23	080S	210E	4304720205	17123	Federal	GW	P	
WV 103	14	080S	210E	4304730021	5265	Federal	OW	P	
WV 104	15	080S	210E	4304730022	5265	Federal	OW	P	
WV 105	10	080S	210E	4304730023	5265	Federal	OW	P	
WV 109	15	080S	210E	4304730045	5265	Federal	OW	P	
WV 110	14	080S	210E	4304730046	5265	Federal	OW	P	
WV 112	15	080S	210E	4304730048	5265	Federal	OW	P	
WV 124	15	080S	210E	4304730745	5265	Federal	OW	P	
WV 128	10	080S	210E	4304730798	5265	Federal	OW	P	
WV 132	15	080S	210E	4304730822	5265	Federal	OW	P	
WV 136	21	080S	210E	4304731047	5265	Federal	OW	S	
WV 137	11	080S	210E	4304731523	5265	Federal	OW	P	
WV 133	15	080S	210E	4304731706	5265	Federal	OW	P	
WV 144	10	080S	210E	4304731807	5265	Federal	OW	P	
WV 145	18	080S	220E	4304731820	17123	Federal	GW	P	
WV 121	14	080S	210E	4304731873	5265	Federal	OW	TA	
WV 135-2	21	080S	210E	4304732016	5265	Federal	OW	P	
WV 130	22	080S	210E	4304732307	5265	Federal	OW	P	
WV 119	21	080S	210E	4304732461	5265	Federal	OW	P	
WV 54 WG	07	080S	220E	4304732821	17123	Federal	GW	P	
WV 69 WG	18	080S	220E	4304732829	17123	Federal	GW	P	
WV 38 WG	08	080S	220E	4304732831	17123	Federal	GW	P	
WV 49 WG	08	080S	220E	4304732832	17123	Federal	GW	P	
WV 138 WG	18	080S	220E	4304733054	17123	Federal	GW	P	
WV 14 WG	12	080S	210E	4304733070	17123	Federal	GW	P	
WV 11 WG	12	080S	210E	4304733085	17123	Federal	GW	P	
WV 81 WG	24	080S	210E	4304733086	17123	Federal	GW	S	
WV 146 WG	19	080S	220E	4304733128	17123	Federal	GW	P	
WV 1W-14-8- 21	14	080S	210E	4304733220	17123	Federal	GW	P	
WV 5W-13- 8-21	13	080S	210E	4304733221	17123	Federal	GW	P	
WVFU 46 WG	07	080S	220E	4304733241	17123	Federal	GW	P	
WV 9W-14-8-21	14	080S	210E	4304733269	17123	Federal	GW	P	
WV 7W-13-8-21	13	080S	210E	4304733270	17123	Federal	GW	P	
WV 1W-18-8-22	18	080S	220E	4304733294	17123	Federal	GW	P	
WV 11W-8-8-22	08	080S	220E	4304733295	17123	Federal	GW	P	
WV 3W-8-8-22	08	080S	220E	4304733493	17123	Federal	GW	S	
WV 5W-7-8-22	07	080S	220E	4304733494	17123	Federal	GW	S	
WV 11W-7-8-22	07	080S	220E	4304733495	17123	Federal	GW	P	
WV 13W-7-8-22	07	080S	220E	4304733496	17123	Federal	GW	P	
WV 1W-7-8-22	07	080S	220E	4304733501	17123	Federal	GW	P	
WV 3W-7-8-22	07	080S	220E	4304733502	17123	Federal	GW	P	
WV 7WRG-7-8-22	07	080S	220E	4304733503	5265	Federal	OW	P	
WV 16W-9-8-21	09	080S	210E	4304733529	17123	Federal	GW	P	

Bonds: BLM = ESB000024
BIA = 956010693
State = 965010695

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

well_name	sec	twp	rng	api	entity	mineral lease	type	stat	C
WV 1W-12-8-21	12	080S	210E	4304733531	17123	Federal	GW	S	
WV 1W-13-8-21	13	080S	210E	4304733532	17123	Federal	GW	S	
WV 3W-18-8-22	18	080S	220E	4304733533	17123	Federal	GW	P	
WV 9W-12-8-21	12	080S	210E	4304733534	17123	Federal	GW	P	
WV 11W-12-8-21	12	080S	210E	4304733535	17123	Federal	GW	P	
WV 11W-13-8-21	13	080S	210E	4304733536	17123	Federal	GW	P	
WV 13W-12-8-21	12	080S	210E	4304733537	17123	Federal	GW	S	
WV 13W-18-8-22	18	080S	220E	4304733538	17123	Federal	GW	P	
WV 16G-9-8-21	09	080S	210E	4304733565	5265	Federal	OW	P	
WV 1W-21-8-21	21	080S	210E	4304733602	17123	Federal	GW	P	
WV 3W-13-8-21	13	080S	210E	4304733603	17123	Federal	GW	S	
WV 3W-22-8-21	22	080S	210E	4304733604	17123	Federal	GW	P	
WV 3W-24-8-21	24	080S	210E	4304733605	17123	Federal	GW	P	
WV 13W-14-8-21	14	080S	210E	4304733607	17123	Federal	GW	P	
WV 1W-24-8-21	24	080S	210E	4304733613	17123	Federal	GW	P	
WV 11W-18-8-22	18	080S	220E	4304733626	17123	Federal	GW	P	
WV 2W-10-8-21	10	080S	210E	4304733655	17123	Federal	GW	P	
WV 4W-11-8-21	11	080S	210E	4304733657	17123	Federal	GW	P	
WV 12W-10-8-21	10	080S	210E	4304733659	17123	Federal	GW	S	
WV 12G-10-8-21	10	080S	210E	4304733660	5265	Federal	OW	P	
WV 15W-9-8-21	09	080S	210E	4304733661	17123	Federal	GW	P	
WV 15G-9-8-21	09	080S	210E	4304733662	5265	Federal	OW	P	
WV 2W-13-8-21	13	080S	210E	4304733791	17123	Federal	GW	P	
WV 6W-13-8-21	13	080S	210E	4304733792	17123	Federal	GW	P	
WV 8W-13-8-21	13	080S	210E	4304733793	17123	Federal	GW	P	
WV 10W-1-8-21	01	080S	210E	4304733794	17123	Federal	GW	TA	
WV 10W-13-8-21	13	080S	210E	4304733795	17123	Federal	GW	P	
WV 12W-7-8-22	07	080S	220E	4304733808	17123	Federal	GW	P	
WV 6W-8-8-22	08	080S	220E	4304733811	17123	Federal	GW	P	
WV 7W-8-8-22	08	080S	220E	4304733812	17123	Federal	GW	P	
WV 10W-7-8-22	07	080S	220E	4304733813	17123	Federal	GW	P	
WV 12W-8-8-22	08	080S	220E	4304733815	17123	Federal	GW	P	
WV 14W-7-8-22	07	080S	220E	4304733816	17123	Federal	GW	P	
WV 16W-7-8-22	07	080S	220E	4304733817	17123	Federal	GW	P	
WV 6W-7-8-22	07	080S	220E	4304733828	17123	Federal	GW	P	
WV 6W-18-8-22	18	080S	220E	4304733842	17123	Federal	GW	P	
WV 6WC-18-8-22	18	080S	220E	4304733843	17123	Federal	GW	P	
WV 6WD-18-8-22	18	080S	220E	4304733844	17123	Federal	GW	P	
WV 5W-23-8-21	23	080S	210E	4304733860	17123	Federal	GW	P	
WV 7W-23-8-21	23	080S	210E	4304733861	17123	Federal	GW	P	
WV 8W-12-8-21	12	080S	210E	4304733862	17123	Federal	GW	P	
WV 10W-12-8-21	12	080S	210E	4304733863	17123	Federal	GW	P	
WV 14W-12-8-21	12	080S	210E	4304733864	17123	Federal	GW	P	
WV 16W-12-8-21	12	080S	210E	4304733865	17123	Federal	GW	P	
WV 1W-15-8-21	15	080S	210E	4304733902	17123	Federal	GW	S	
WV 1W-22-8-21	22	080S	210E	4304733903	17123	Federal	GW	S	
WV 1W-23-8-21	23	080S	210E	4304733904	17123	Federal	GW	P	
WV 6W-11-8-21	11	080S	210E	4304733906	17123	Federal	GW	P	
WV 7W-24-8-21	24	080S	210E	4304733908	17123	Federal	GW	P	

Bonds: BLM = ESB000024
BIA = 956010693
State = 965010695

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

well_name	sec	twp	rng	api	entity	mineral lease	type	stat	C
WV 10W-11-8-21	11	080S	210E	4304733910	17123	Federal	GW	P	
WV 11W-15-8-21	15	080S	210E	4304733911	17123	Federal	GW	P	
WV 13W-11-8-21	11	080S	210E	4304733913	17123	Federal	GW	S	
WV 13W-15-8-21	15	080S	210E	4304733914	17123	Federal	GW	P	
WV 15W-10-8-21	10	080S	210E	4304733916	17123	Federal	GW	P	
WV 15W-15-8-21	15	080S	210E	4304733917	17123	Federal	GW	P	
WV 5W-14-8-21	14	080S	210E	4304733953	17123	Federal	GW	P	
WV 7W-14-8-21	14	080S	210E	4304733955	17123	Federal	GW	P	
WV 8W-11-8-21	11	080S	210E	4304733957	17123	Federal	GW	S	
WV 8W-14-8-21	14	080S	210E	4304733958	17123	Federal	GW	P	
WV 9W-15-8-21	15	080S	210E	4304733959	17123	Federal	GW	P	
WV 12W-13-8-21	13	080S	210E	4304733961	17123	Federal	GW	P	
WV 14W-13-8-21	13	080S	210E	4304733962	17123	Federal	GW	P	
WV 15W-14-8-21	14	080S	210E	4304733963	17123	Federal	GW	P	
WV 2W-18-8-22	18	080S	220E	4304733986	17123	Federal	GW	P	
WV 8W-18-8-22	18	080S	220E	4304733989	17123	Federal	GW	P	
WV 10W-18-8-22	18	080S	220E	4304733991	17123	Federal	GW	P	
WV 12W-18-8-22	18	080S	220E	4304733993	17123	Federal	GW	S	
WV 14W-18-8-22	18	080S	220E	4304733995	17123	Federal	GW	P	
WV 8W-1-8-21	01	080S	210E	4304734009	17123	Federal	GW	OPS	C
WV 4W-17-8-22	17	080S	220E	4304734038	17123	Federal	GW	P	
WV 12G-1-8-21	01	080S	210E	4304734108	5265	Federal	OW	TA	
WV 2W-14-8-21	14	080S	210E	4304734140	17123	Federal	GW	P	
GH 2W-21-8-21	21	080S	210E	4304734141	17123	Federal	GW	P	
WV 2W-23-8-21	23	080S	210E	4304734142	17123	Federal	GW	P	
WV 3W-21-8-21	21	080S	210E	4304734143	17123	Federal	GW	P	
WV 4W-13-8-21	13	080S	210E	4304734144	17123	Federal	GW	P	
WV 4W-21-8-21	21	080S	210E	4304734145	17123	Federal	GW	P	
WV 4W-22-8-21	22	080S	210E	4304734146	17123	Federal	GW	P	
WV 16W-11-8-21	11	080S	210E	4304734155	5265	Federal	GW	P	
WV 3W-19-8-22	19	080S	220E	4304734187	17123	Federal	GW	P	
WV 4W-23-8-21	23	080S	210E	4304734188	17123	Federal	GW	P	
WV 6W-23-8-21	23	080S	210E	4304734189	17123	Federal	GW	S	
WV 2W-15-8-21	15	080S	210E	4304734242	17123	Federal	GW	P	
WV 2W-22-8-21	22	080S	210E	4304734243	17123	Federal	GW	P	
WV 4W-14-8-21	14	080S	210E	4304734244	17123	Federal	GW	S	
WV 6W-12-8-21	12	080S	210E	4304734245	5265	Federal	GW	TA	
WV 7W-15-8-21	15	080S	210E	4304734246	17123	Federal	GW	P	
WV 8W-15-8-21	15	080S	210E	4304734247	17123	Federal	GW	P	
WV 12W-12-8-21	12	080S	210E	4304734248	17123	Federal	GW	TA	
WV 14W-15-8-21	15	080S	210E	4304734249	17123	Federal	GW	P	
WV 16W-10-8-21	10	080S	210E	4304734250	17123	Federal	GW	P	
WV 16W-15-8-21	15	080S	210E	4304734251	17123	Federal	GW	P	
WV 3W-12-8-21	12	080S	210E	4304734267	17123	Federal	GW	OPS	C
WV 4D-12-8-21	12	080S	210E	4304734268	17123	Federal	GW	OPS	C
WV 6W-14-8-21	14	080S	210E	4304734271	17123	Federal	GW	S	
WV 9W-11-8-21	11	080S	210E	4304734274	17123	Federal	GW	OPS	C
WV 10W-14-8-21	14	080S	210E	4304734275	17123	Federal	GW	P	
WV 11W-14-8-21	14	080S	210E	4304734277	17123	Federal	GW	P	

Bonds: BLM = ESB000024
BIA = 956010693
State = 965010695

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

well_name	sec	twp	rng	api	entity	mineral lease	type	stat	C
WV 12W-14-8-21	14	080S	210E	4304734279	17123	Federal	GW	TA	
WV 14M-11-8-21	11	080S	210E	4304734280	17123	Federal	GW	P	
WV 14W-14-8-21	14	080S	210E	4304734281	17123	Federal	GW	S	
WV 16G-14-8-21	14	080S	210E	4304734283	5265	Federal	OW	P	
WV 3MU-15-8-21	15	080S	210E	4304734289	17123	Federal	GW	P	
WV 4MU-15-8-21	15	080S	210E	4304734291	17123	Federal	GW	P	
WV 5MU-15-8-21	15	080S	210E	4304734293	17123	Federal	GW	P	
WV 6W-15-8-21	15	080S	210E	4304734294	17123	Federal	GW	P	
WV 10W-15-8-21	15	080S	210E	4304734295	17123	Federal	GW	P	
WV 4W-24-8-21	24	080S	210E	4304734330	17123	Federal	GW	P	
WV 8M-23-8-21	23	080S	210E	4304734339	17123	Federal	GW	P	
WV 8W-24-8-21	24	080S	210E	4304734340	17123	Federal	GW	P	
WV 2W-8-8-22	08	080S	220E	4304734468	17123	Federal	GW	P	
WV 8W-7-8-22	07	080S	220E	4304734469	17123	Federal	GW	S	
WV 8W-22-8-21	22	080S	210E	4304734564	17123	Federal	GW	P	
WV 14MU-10-8-21	10	080S	210E	4304735879	17123	Federal	GW	P	
WV 13MU-10-8-21	10	080S	210E	4304736305	17123	Federal	GW	P	
WV 3D-13-8-21	13	080S	210E	4304737923	17123	Federal	GW	OPS	C
WV 14DML-12-8-21	12	080S	210E	4304737924	17123	Federal	GW	P	
WV 15AML-12-8-21	12	080S	210E	4304737925	17123	Federal	GW	OPS	C
WV 13DML-10-8-21	10	080S	210E	4304737926	17123	Federal	GW	P	
WV 4DML-15-8-21	15	080S	210E	4304737927	17123	Federal	GW	P	
WV 11AD-14-8-21	14	080S	210E	4304738049	17123	Federal	GW	P	
WV 6-24-8-21	24	080S	210E	4304738663	17123	Federal	GW	P	
WV 2ML-24-8-21	24	080S	210E	4304738664		Federal	GW	APD	C
WV 16C-14-8-21	14	080S	210E	4304738737	17123	Federal	GW	P	
WV 7BML-24-8-21	24	080S	210E	4304738970		Federal	GW	APD	C
WV 7AML-12-8-21	12	080S	210E	4304739035		Federal	GW	APD	C
WV 14BML-12-8-21	12	080S	210E	4304739036		Federal	GW	APD	C
WV 14B-13-8-21	13	080S	210E	4304739037		Federal	GW	APD	C
WV 4B-14-8-21	14	080S	210E	4304739038		Federal	GW	APD	C
WV 13A-15-8-21	15	080S	210E	4304739039	17123	Federal	GW	P	
WV 8D-15-8-21	15	080S	210E	4304739040	17123	Federal	GW	P	
WV 4BD-23-8-21	23	080S	210E	4304739041	17123	Federal	GW	P	
WV 7CML-11-8-21	11	080S	210E	4304739042		Federal	GW	APD	C
WV 7BD-23-8-21	23	080S	210E	4304739044	17123	Federal	GW	P	
WV 2CML-7-8-22	07	080S	220E	4304739155		Federal	GW	APD	C
WV 13AD-8-8-22R(RIGSKID)	08	080S	220E	4304739321	17123	Federal	GW	P	
WV 2B-22-8-21	22	080S	210E	4304740262		Federal	GW	APD	C
WV 8D-22-8-21	22	080S	210E	4304740263		Federal	GW	APD	C
WV 7A-24-8-21	24	080S	210E	4304740331		Federal	GW	APD	C

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

TAKE PRIDE IN AMERICA

IN REPLY REFER TO:
3100
(UT-922)

JUL 28 2010

Memorandum

To: Vernal Field Office, Price Field Office, Moab Field Office

From: Chief, Branch of Minerals Roger L Bankert

Subject: Name Change Recognized

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

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

cc: MMS
UDOGM