

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*

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

001

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

TYPE OF WORK
 DRILL DEEPEN

TYPE OF WELL
 SINGLE ZONE MULTIPLE ZONE

OIL WELL GAS WELL OTHER

5. LEASE DESIGNATION AND SERIAL NO.
UTU-0558

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

7. UNIT AGREEMENT NAME
RED WASH UNIT

8. FARM OR LEASE NAME, WELL NO.
RW 34-34 AMU

2. NAME OF OPERATOR
QEP UINTA BASIN, INC.

Contact: Jan Nelson
E-Mail: jan.nelson@questar.com

9. API WELL NO. 4304736351

3. ADDRESS
11002 E. 17500 S. Vernal, Ut 84078

Telephone number
Phone 435-781-4331 Fax 435-781-4323

10. FIELD AND POOL, OR WILDCAT
RED WASH Undesignated

4. LOCATION OF WELL (Report location clearly and in accordance with and State requirements*)
 At Surface 634310X 858' FSL 1944' FEL, SWSE, SECTION 34, T7S, R22E
 At proposed production zone 4446849Y 40.163161 - 109.422850

11. SEC., T, R, M, OR BLK & SURVEY OR AREA
SEC.34, T7S, R22E, Mer SLB

14. DISTANCE IN MILES FROM NEAREST TOWN OR POSTOFFICE*
32 MILES +/- FROM VERNAL, UT

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)
858' +/-

16. NO. OF ACRES IN LEASE
2560

17. NO. OF ACRES ASSIGNED TO THIS WELL
40

18. DISTANCE FROM PROPOSED location to nearest well, drilling, completed, applied for, on this lease, ft

19. PROPOSED DEPTH
9900'

20. BLM/BIA Bond No. on file
ESB000024

21. ELEVATIONS (Show whether DF, RT, GR, ect.)
5207.6' GR

22. DATE WORK WILL START
ASAP

23. Estimated duration
10 days

24. Attachments

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

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

RECEIVED
MAR 01 2005

SIGNED Jan Nelson Name (printed/typed) Jan Nelson

TITLE Regulatory Affairs Analyst

DIV. OF OIL, GAS & MINING
DATE March 1, 2005

PERMIT NO. 43047-36351 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 Bradley G. Hill TITLE BRADLEY G. HILL ENVIRONMENTAL SCIENTIST III

DATE 03-10-05

*See Instructions On Reverse Side

The 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

Additional Operator Remarks

QEP, Uinta Basin Inc. proposes to drill a well to 9900' 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 QEP Uinta Basin, Inc. Standard Operating Practices for Mesa Verde Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 and 24 East.

See attached Onshore No. 1

Please be advised that QEP, Uinta Basin Inc. agrees to be responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.

Bond coverage for this well is provided by Bond No.ESB000024. The principal is QEP, Uinta Basin Inc. via surety as consent as provided for the 43 CFR 3104.2.

Qep Uinta Basin, Inc.
RW 34-34 AMU

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

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

1. Formation Tops

The estimated tops of important geologic markers are as follows:

| <i>Formation</i> | <i>Depth</i> |
|------------------|--------------|
| Uinta | Surface |
| Green River | 2920' |
| Wasatch | 6590' |
| Mesa Verde | 9250' |
| TD | 9900' |

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

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

| <i>Substance</i> | <i>Formation</i> | <i>Depth</i> |
|------------------|------------------|--------------|
| Oil/Gas | Mese Verde | 9900' |

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 4293.0 psi.

RW 34-34 AMU
858' FSL 1944' FEL
SWSE, SECTION 34, T7S, R22E,
UINTAH COUNTY, UTAH
LEASE # UTU-0558

ONSHORE ORDER NO. 1

MULTI – POINT SURFACE USE & OPERATIONS PLAN

An onsite inspection was conducted for the RW 34-34 AMU on February 23, 2005. Weather conditions were cold and muddy at the time of the onsite. In attendance at the inspection were the following individuals:

| | |
|--------------|---------------------------|
| Paul Buhler | Bureau of Land Management |
| Todd McGrath | Bureau of Land Management |
| Jan Nelson | QEP Uinta Basin, Inc. |
| Amy Garcia | QEP Uinta Basin, Inc. |

1. Existing Roads:

The proposed well site is approximately 32 miles from Vernal, Utah.

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

There will be no improvements made to existing access roads.

2. Planned Access Roads:

Please see QEP Uinta Basin Inc. Standard Operating Practices for Mesa Verde Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

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

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

Please refer to Topo Map C.

4. Location of Existing & Proposed Facilities:

Please see QEP Uinta Basin Inc. Standard Operating Practices for Mesa Verde Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

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

5. Location and Type of Water Supply:

Please see QEP Uinta Basin Inc. Standard Operating Practices for Mesa Verde Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

6. **Source of Construction Materials:**

Please see QEP Uinta Basin Inc. Standard Operating Practices for Mesa Verde Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

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

Please see QEP Uinta Basin Inc. Standard Operating Practices for Mesa Verde Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

8. **Ancillary Facilities:**

Please see QEP Uinta Basin Inc. Standard Operating Practices for Mesa Verde Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

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

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

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

A pit liner is required felt if rock encountered.

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

Please see QEP Uinta Basin Inc. Standard Operating Practices for Mesa Verde Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

Seed mix # 5

11. **Surface Ownership:**

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

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

12. **Other Information**

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

There is a Ferruginous Hawk Stipulation from March 1st to July 15th. No construction or drilling will commence during this period unless otherwise determined by a wildlife biologist that the site is inactive.

Two Erosion Control Structures.

- (1) Near stake # 3.
- (2) After backfilling reserve pit construct erosion control structure.

Proposed access route and the well pad will require paleontological monitoring.

Lessee's or Operator's Representative:

Jan Nelson
Red Wash Rep.
QEP Uinta Basin Inc.
11002 East 17500 South
Vernal, Utah 84078
(435) 781-4331

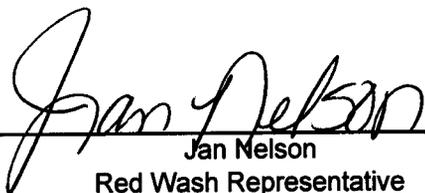
Certification:

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 Uinta Basin, Inc. will be fully responsible for the actions of their subcontractors.

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

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



Jan Nelson
Red Wash Representative

01-Mar-05

Date

! CONFIDENTIAL

QUESTAR EXPLR. & PROD.

RW #34-34 AMU

LOCATED IN UINTAH COUNTY, UTAH
SECTION 34, T7S, R22E, S.L.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY

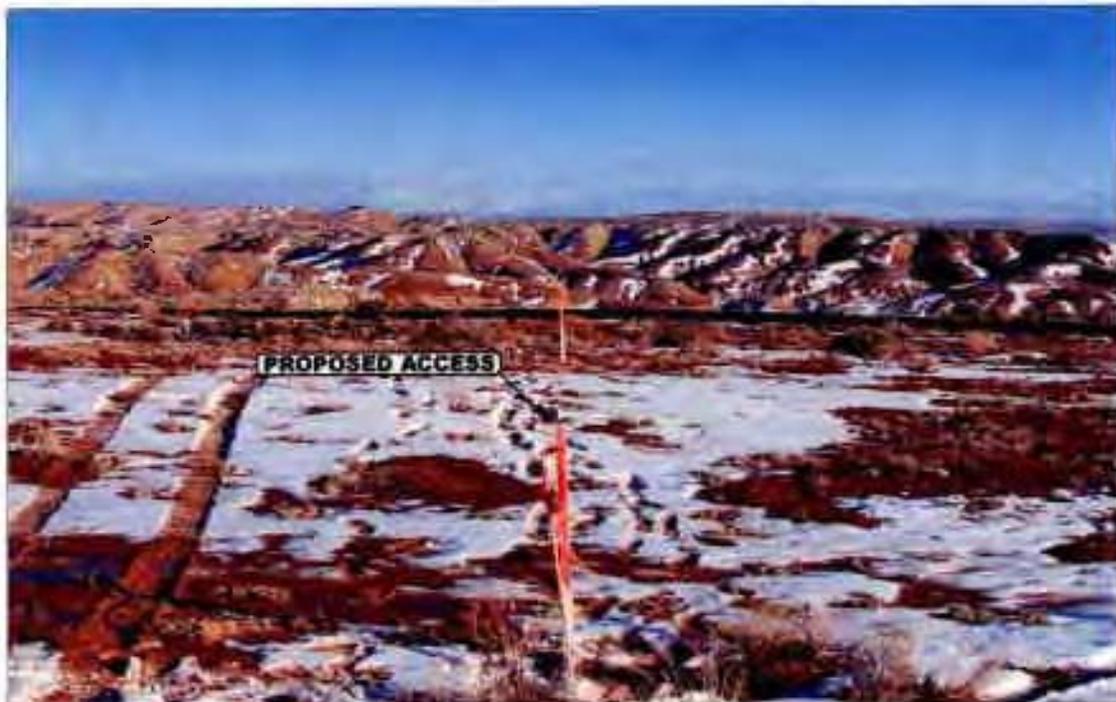


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: EASTERLY



Since 1964

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

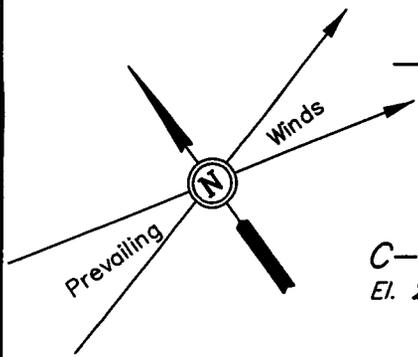
| | | | | |
|------------------------|--------------------|------------------|-------------------|-------|
| LOCATION PHOTOS | 12 MONTH | 10 DAY | 04 YEAR | PHOTO |
| TAKEN BY: D.A. | DRAWN BY: L.K. | | REVISED: 00-00-00 | |

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QUESTAR EXPLR. & PROD.

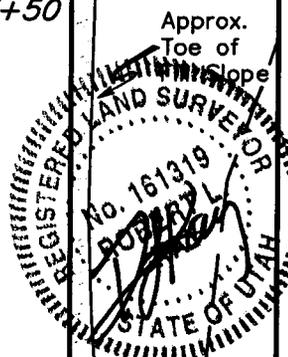
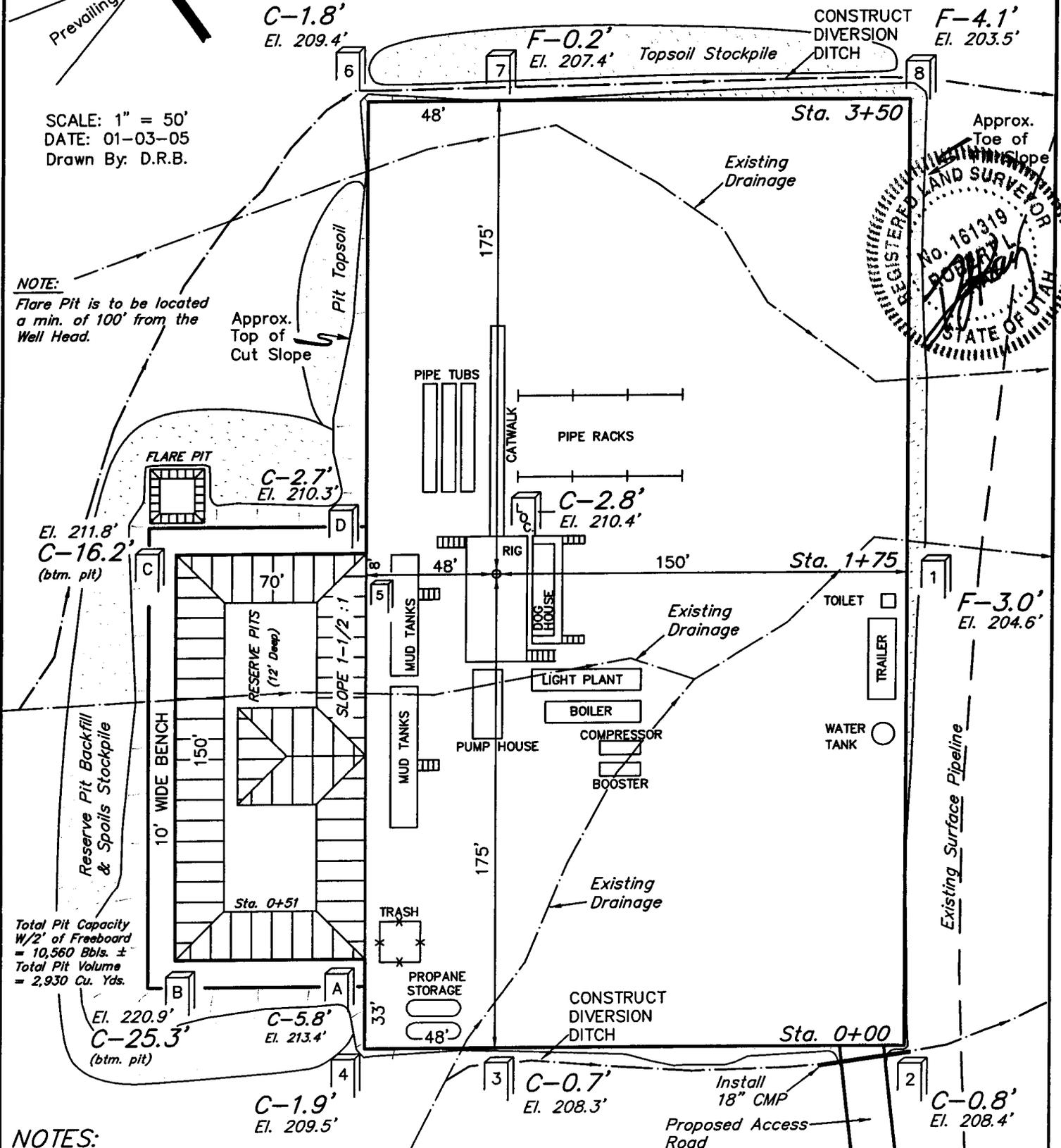
FIGURE #1

LOCATION LAYOUT FOR
RW #34-34 AMU
SECTION 34, T7S, R22E, S.L.B.&M.
858' FSL 1944' FEL



SCALE: 1" = 50'
DATE: 01-03-05
Drawn By: D.R.B.

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



Total Pit Capacity
W/2' of Freeboard
= 10,560 Bbls. ±
Total Pit Volume
= 2,930 Cu. Yds.

NOTES:

Elev. Ungraded Ground At Loc. Stake = 5210.4'
FINISHED GRADE ELEV. AT LOC. STAKE = 5207.6'

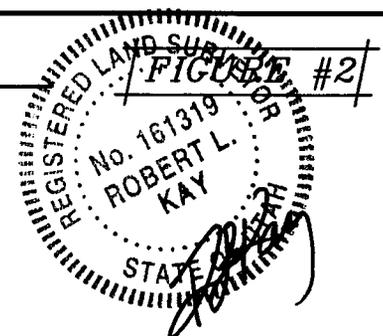
UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

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QUESTAR EXPLR. & PROD.

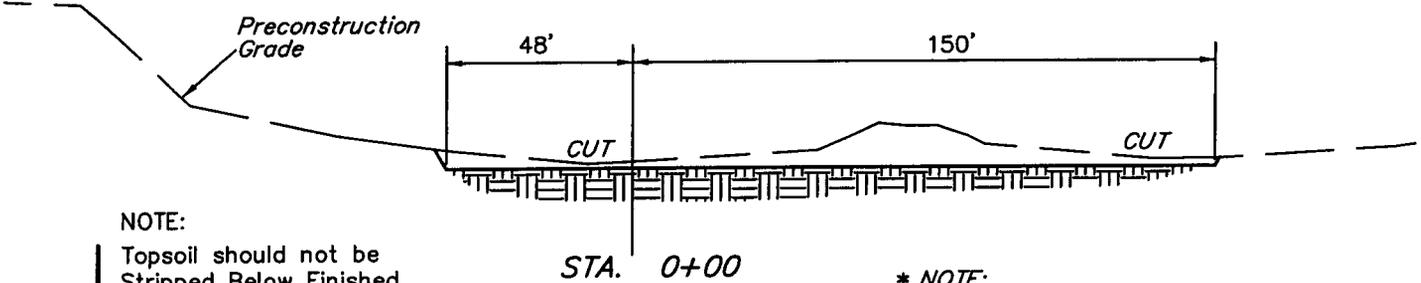
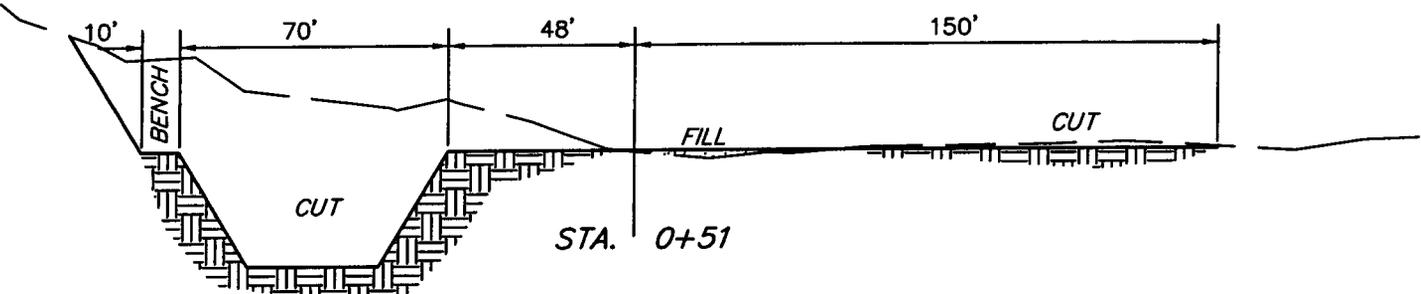
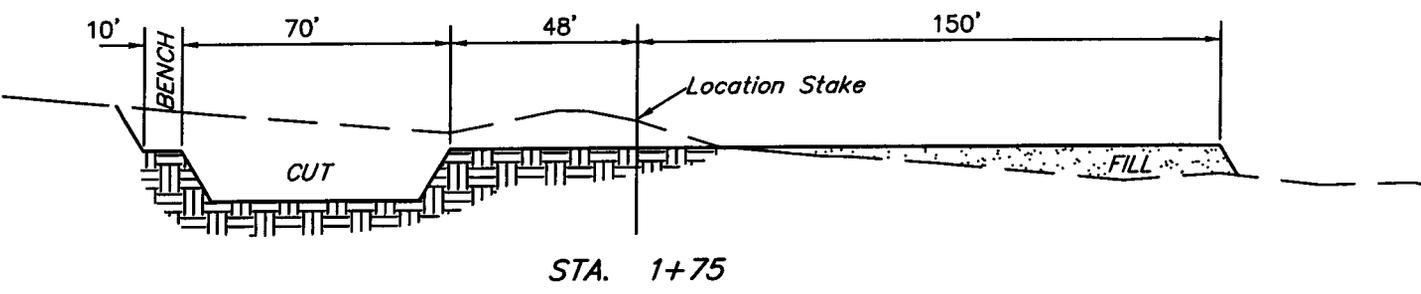
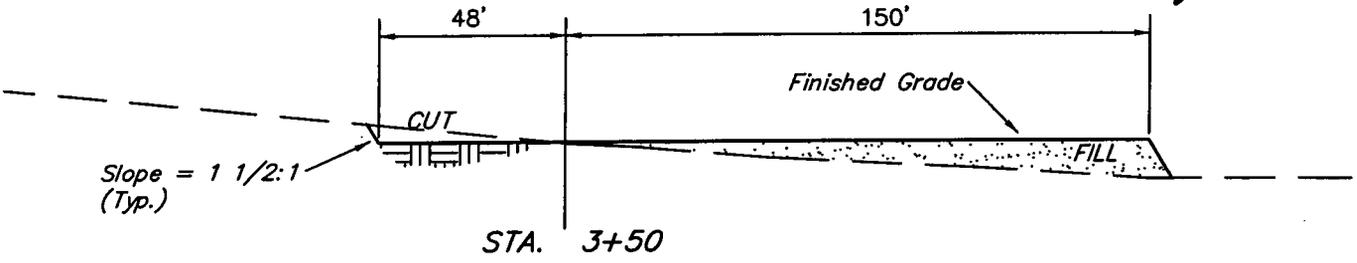
TYPICAL CROSS SECTIONS FOR

RW #34-34 AMU
SECTION 34, T7S, R22E, S.L.B.&M.
858' FSL 1944' FEL



X-Section Scale
1" = 50'

DATE: 01-03-05
Drawn By: D.R.B.



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

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

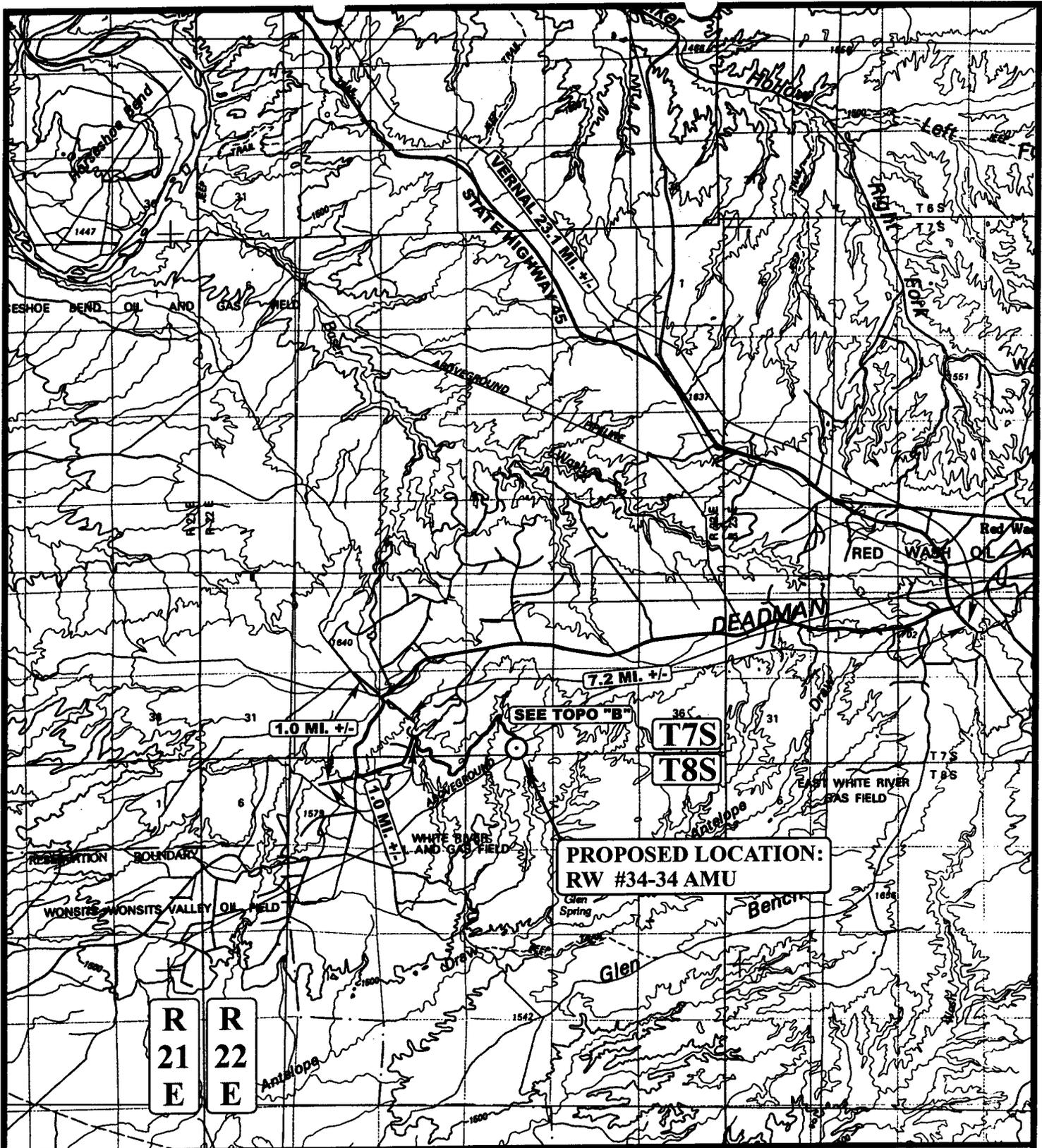
APPROXIMATE YARDAGES

| | |
|------------------------|------------------------|
| CUT | |
| (6") Topsoil Stripping | = 1,720 Cu. Yds. |
| Remaining Location | = 6,920 Cu. Yds. |
| TOTAL CUT | = 8,640 CU.YDS. |
| FILL | = 3,840 CU.YDS. |

| | |
|---|------------------|
| EXCESS MATERIAL | = 4,800 Cu. Yds. |
| Topsoil & Pit Backfill (1/2 Pit Vol.) | = 3,190 Cu. Yds. |
| EXCESS UNBALANCE (After Rehabilitation) | = 1,610 Cu. Yds. |

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

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**PROPOSED LOCATION:
RW #34-34 AMU**

LEGEND:

○ PROPOSED LOCATION

QUESTAR EXPLR. & PROD.

RW #34-34 AMU
SECTION 34, T7S, R22E, S.L.B.&M.
858' FSL 1944' FEL

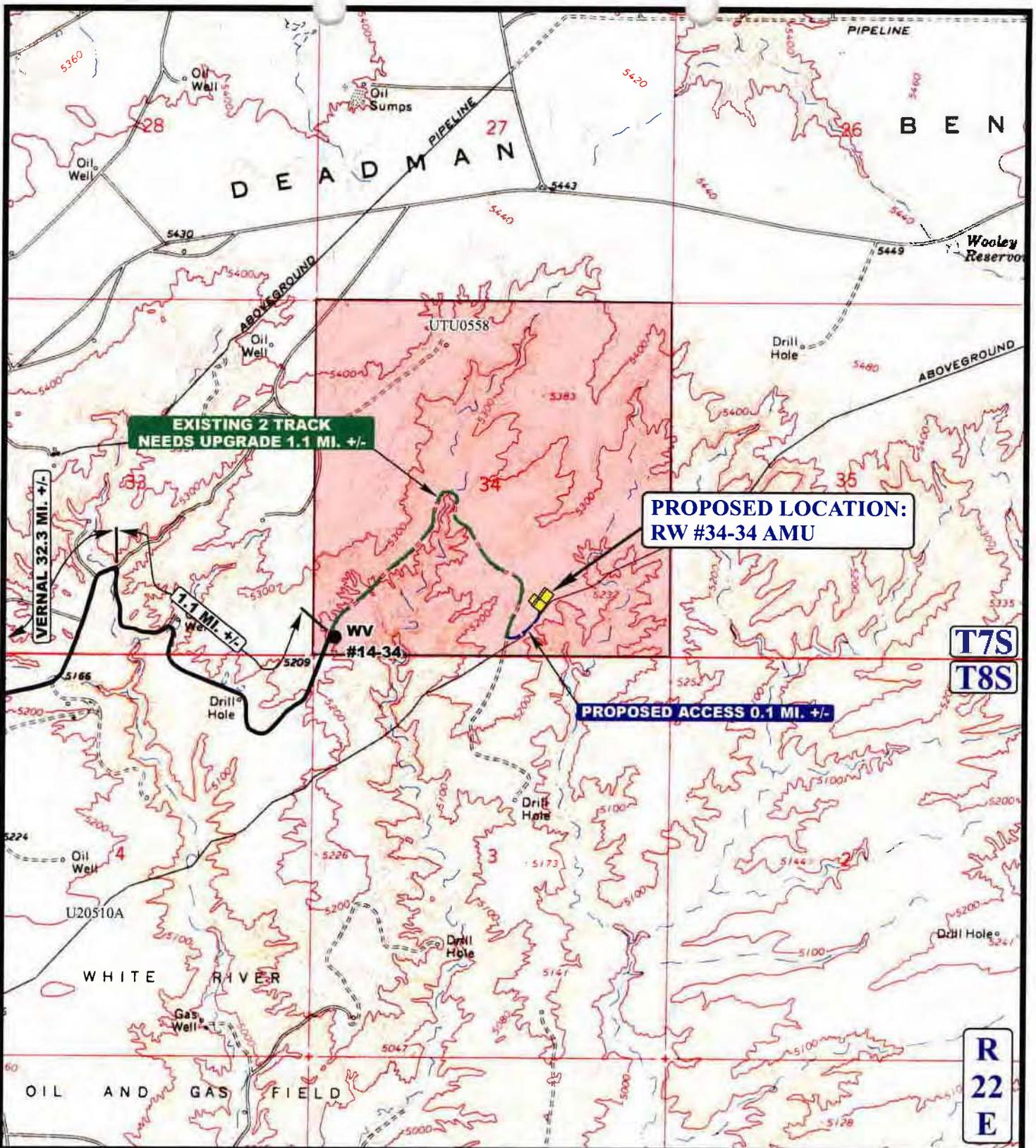
U E I S Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813



| | | | |
|------------------|----------------|-----|-------------------|
| TOPOGRAPHIC | 12 | 10 | 04 |
| MAP | MONTH | DAY | YEAR |
| SCALE: 1:100,000 | DRAWN BY: L.K. | | REVISED: 00-00-00 |



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**EXISTING 2 TRACK
NEEDS UPGRADE 1.1 MI. +/-**

**PROPOSED LOCATION:
RW #34-34 AMU**

PROPOSED ACCESS 0.1 MI. +/-

**T7S
T8S**

**R
22
E**

LEGEND:

- EXISTING ROAD
- PROPOSED ACCESS ROAD
- EXISTING 2 TRACK NEEDING UPGRADE



QUESTAR EXPLR. & PROD.

**RW #34-34 AMU
SECTION 34, T7S, R22E, S.L.B.&M.
858' FSL 1944' FEL**

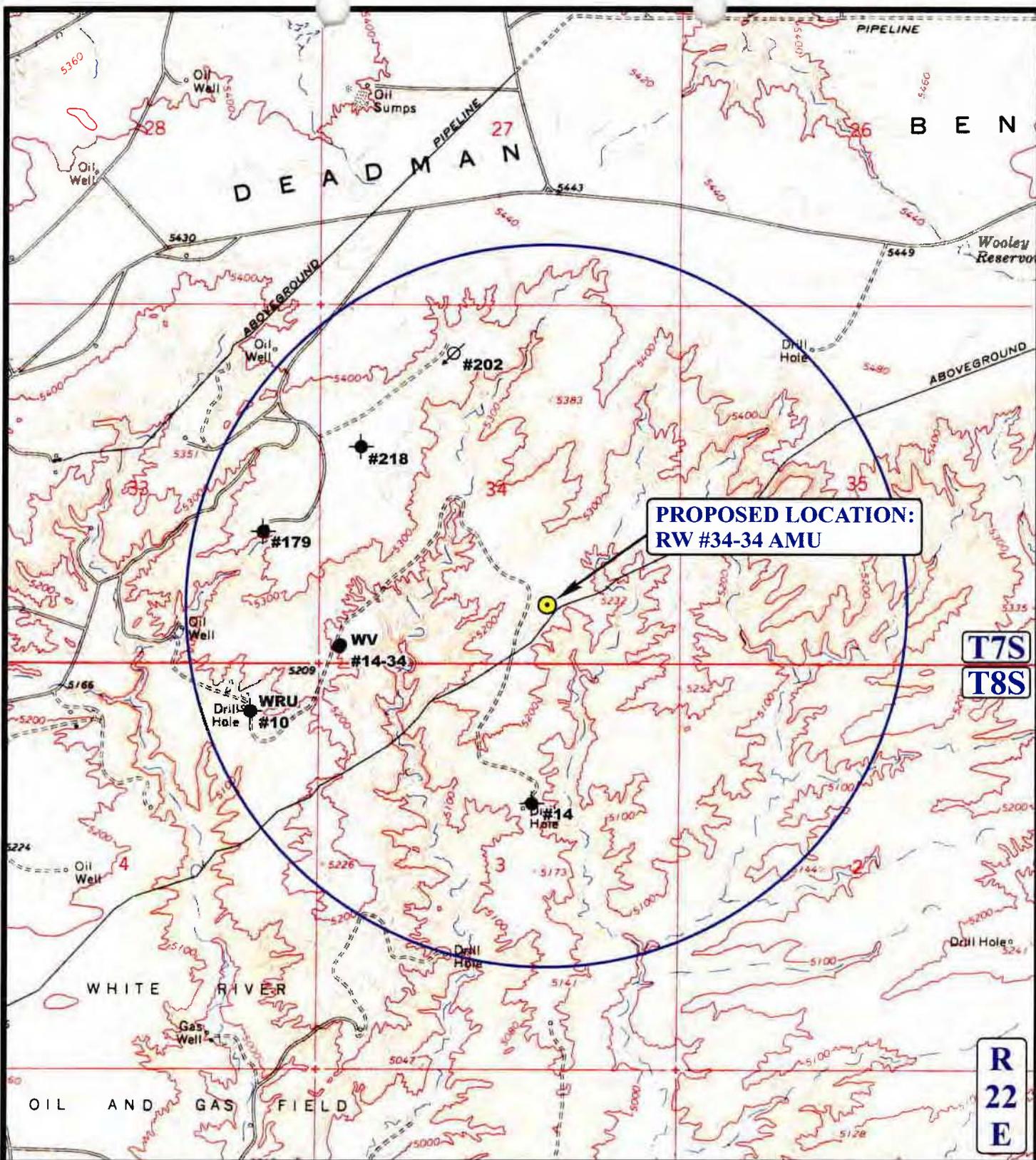


Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP
12 10 04
MONTH DAY YEAR
SCALE: 1" = 2000' DRAWN BY: L.K. REVISED: 00-00-00



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**PROPOSED LOCATION:
RW #34-34 AMU**

**T7S
T8S**

**R
22
E**

LEGEND:

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

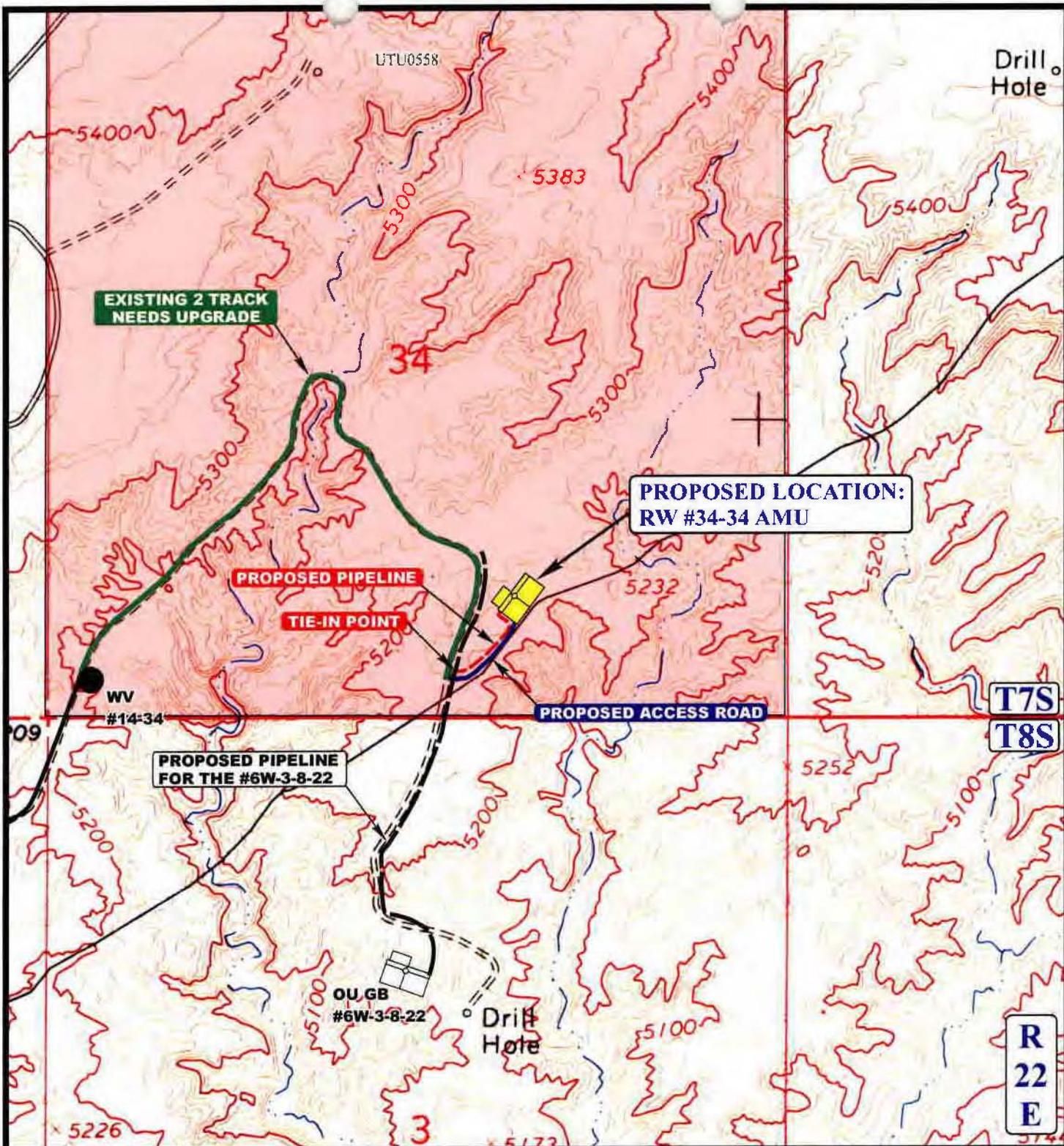
QUESTAR EXPLR. & PROD.

**RW #34-34 AMU
SECTION 34, T7S, R22E, S.L.B.&M.
858' FSL 1944' FEL**

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

TOPOGRAPHIC MAP 12 10 04
 MONTH DAY YEAR
 SCALE: 1" = 2000' DRAWN BY: L.K. REVISED: 00-00-00 **C TOPO**

CONFIDENTIAL



APPROXIMATE TOTAL PIPELINE DISTANCE = 724' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE

QUESTAR EXPLR. & PROD.

RW #34-34 AMU
 SECTION 34, T7S, R22E, S.L.B.&M.
 858' FSL 1944' FEL



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



TOPOGRAPHIC MAP 12 10 04
 MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: L.K. REVISED: 00-00-00



CONFIDENTIAL

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 03/07/2005

API NO. ASSIGNED: 43-047-36351

WELL NAME: RW 34-34 AMU

OPERATOR: QEP UINTA BASIN, INC. (N2460)

CONTACT: JAN NELSON

PHONE NUMBER: 435-781-4331

PROPOSED LOCATION:

SWSE 34 070S 220E

SURFACE: 0858 FSL 1944 FEL

BOTTOM: 0858 FSL 1944 FEL

UINTAH

UNDESIGNATED (2)

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-0558

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: MVRD

COALBED METHANE WELL? NO

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

LATITUDE: 40.16316

LONGITUDE: -109.4229

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]
(No. ESB000024)
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit
(No. 43-8496)
- RDCC Review (Y/N)
(Date: _____)
- Fee Surf Agreement (Y/N)

LOCATION AND SITING:

- ___ R649-2-3.
- Unit RED WASH
- ___ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
- ___ R649-3-3. Exception
- Drilling Unit
Board Cause No: 187-07
Eff Date: 9-18-2001
Siting: Success General Siting
- ___ R649-3-11. Directional Drill

COMMENTS: Sup. Separate file

STIPULATIONS: 1-Federal Approval

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)

March 10, 2005

Memorandum

To: Assistant District Manager Minerals, Vernal District
 From: Michael Coulthard, Petroleum Engineer
 Subject: 2004 Plan of Development Red Wash 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 2004 within the Red Wash Unit, Uintah County, Utah.

| API# | WELL NAME | LOCATION |
|---------------------------|-------------------|-----------------------------|
| (Proposed PZ Green River) | | |
| 43-047-36348 | RW 12-08FG Sec 8 | T08S R24E 1703 FNL 0738 FWL |
| 43-047-36349 | RW 44-08FG Sec 8 | T08S R24E 0461 FSL 0356 FEL |
| 43-047-36350 | RW 12-17FG Sec 17 | T08S R24E 2104 FNL 0462 FWL |

(Proposed PZ Mesaverde)

| | | |
|--------------|---------------------|-----------------------------|
| 43-047-36351 | RW 34-34 AMU Sec 34 | T07S R22E 0858 FSL 1944 FEL |
| 43-047-36352 | RW 44-35 AMU Sec 35 | T07S R22E 0824 FSL 0199 FEL |
| 43-047-36354 | RW 14-35 AMU Sec 35 | T07S R22E 0506 FSL 0546 FWL |
| 43-047-36357 | RW 33-31 BMU Sec 31 | T07S R23E 2179 FSL 1964 FEL |
| 43-047-36358 | RW 13-31 BMU Sec 31 | T07S R23E 2329 FSL 0406 FWL |

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

/s/ Michael L. Coulthard

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

MCoulthard:mc:3-10-05



State of Utah

**Department of
Natural Resources**

MICHAEL R. STYLER
Executive Director

**Division of
Oil, Gas & Mining**

MARY ANN WRIGHT
Acting Division Director

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

March 10, 2005

QEP Uinta Basin, Inc.
11002 E 17500 S
Vernal, UT 84078

Re: Red Wash 34-34 AMU Well, 858' FSL, 1944' FEL, SW SE, Sec. 34,
T. 7 South, R. 22 East, Uintah County, Utah

Gentlemen:

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-36351.

Sincerely,

John R. Baza
Associate Director

pab
Enclosures

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

Operator: QEP Uinta Basin, Inc.
Well Name & Number Red Wash 34-34 AMU
API Number: 43-047-36351
Lease: UTU-0558

Location: SW SE **Sec.** 34 **T.** 7 South **R.** 22 East

Conditions of Approval

1. General

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

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

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

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

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

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

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
MAR 04 2005
SUBMITTING OFFICE
By _____

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

U DOGM

5. LEASE DESIGNATION AND SERIAL NO.
UTU-0558

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

7. UNIT AGREEMENT NAME
RED WASH UNIT

8. FARM OR LEASE NAME, WELL NO.
RW 34-34 AMU

9. API WELL NO.
43-047-36351

10. FIELD AND POOL, OR WILDCAT
RED WASH

11. SEC., T, R, M, OR BLK & SURVEY OR AREA
SEC.34, T7S, R22E, Mer SLB

12. COUNTY OR PARISH
Uintah

13. STATE
UT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

TYPE OF WORK
DRILL DEEPEN
TYPE OF WELL
 SINGLE ZONE MULTIPLE ZONE
OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
QEP UINTA BASIN, INC.
Contact: Jan Nelson
E-Mail: jan.nelson@questar.com

3. ADDRESS
11002 E. 17500 S. Vernal, Ut 84078
Telephone number
Phone 435-781-4331 Fax 435-781-4323

4. LOCATION OF WELL (Report location clearly and in accordance with and State requirements*)
At Surface 858' FSL 1944' FEL, SWSE, SECTION 34, T7S, R22E
At proposed production zone

14. DISTANCE IN MILES FROM NEAREST TOWN OR POSTOFFICE*
32 MILES +/- FROM VERNAL, UT

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
(also to nearest drig, unit line if any)
858' +/-

16. NO. OF ACRES IN LEASE
2560

17. NO. OF ACRES ASSIGNED TO THIS WELL
40

18. DISTANCE FROM PROPOSED location to nearest well, drilling, completed, applied for, on this lease, ft

19. PROPOSED DEPTH
9900'

20. BLM/BIA Bond No. on file
ESB000024

21. ELEVATIONS (Show whether DF, RT, GR, ect.)
5207.6' GR

22. DATE WORK WILL START
ASAP

23. Estimated duration
10 days

24. Attachments

The following, completed in accordance with the requirements 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 existing 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 March 1, 2005
TITLE Regulatory Affairs Analyst

(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 [Signature] TITLE Assistant Field Manager Mineral Resources
*See instructions On Reverse Side

DATE 06/15/2009

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 or any matter within its jurisdiction

CONDITIONS OF APPROVAL ATTACHED

NOTICE OF APPROVAL
RECEIVED
CONFIDENTIAL

05LW0988AE

NOS 1/28/05

JUN 11 2005

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Operator/Company: QEP Uinta Basin Inc.

Well Name/Number: RW 34-34-AMU

API Number: 43-047-36351

Location: SWSE Sec Tship Rng.: 34, T7S, R22E

Lease Number: UTU-00558

Agreement Name (If Applicable): Red Wash Unit

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

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

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

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

Please submit an electronic copy of all logs run on this well in LAS format. This submission will supersede the requirement for submittal of paper logs to the BLM. The cement bond log must be submitted in raster format (TIF, PDF or other).

In the event after-hours approvals are necessary, you must contact one of the following individuals:

Kirk Fleetwood (435) 828-7874
Petroleum Engineer

Michael Lee (435) 828-7875
Petroleum Engineer

BLM FAX Machine (435) 781-4410

Company/Operator: QEP, Uinta Basin, Inc

API Number 43-047-36351

Well Name & Number: RW 34-34 AMU

Lease number: UTU- 0558

Location: SWSW Sec, 34, T.7S. R. 22E.

Surface Ownership: BLM

Date NOS Received: 1/27/05

Date APD Received: 3/4/05

Conditions for Approval are in the APD

To clear the proposed project from a Paleontology Program perspective, provided the following mitigation is incorporated into the authorization: The access road will need to be monitored during construction by an authorized Paleontologist.

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

| | | |
|---|--|--|
| <p>SUNDRY NOTICES AND REPORTS ON WELLS</p> <p>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.</p> | | <p>5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0558</p> |
| <p>1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____</p> | | <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A</p> |
| <p>2. NAME OF OPERATOR: QEP UINTA BASIN, INC</p> | | <p>7. UNIT or CA AGREEMENT NAME: RED WASH UNIT</p> |
| <p>3. ADDRESS OF OPERATOR: 11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078</p> | | <p>8. WELL NAME and NUMBER: RW 34-34 AMU</p> |
| <p>4. LOCATION OF WELL FOOTAGES AT SURFACE: 858 FSL 1944 FEL</p> | | <p>9. API NUMBER: 4304736351</p> |
| <p>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 34 7S 22E</p> | | <p>10. FIELD AND POOL, OR WLDCAT: RED WASH</p> |
| <p>COUNTY: UINTAH</p> | | <p>STATE: UTAH</p> |

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

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

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 QEP Uinta Basin, Inc. hereby requests a 1 year extension on the RW 34-34 AMU

Approved by the
 Utah Division of
 Oil, Gas and Mining
 Date: 03-21-06
 By: *[Signature]*

| | |
|---------------------------------------|---------------------------------|
| NAME (PLEASE PRINT) <u>Jan Nelson</u> | TITLE <u>Regulatory Affairs</u> |
| SIGNATURE <i>[Signature]</i> | DATE <u>3/9/2006</u> |

(This space for State use only)

MAR 13 2006

**Application for Permit to Drill
Request for Permit Extension
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

API: 43-047-36351
Well Name: RW 34-34 AMU
Location: 858FSL 1944 FEL, SWSE, SEC. 34, T7S, R22E.
Company Permit Issued to: QEP UINTA BASIN, INC.
Date Original Permit Issued: 3/10/2005

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

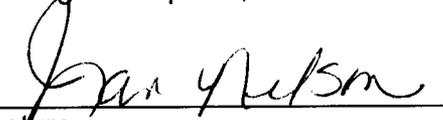
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No

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

3/9/2006

Date

Title: REGULATORY AFFAIRS

Representing: QEP UINTA BASIN, INC.

MAR 13 2006

RECEIVED

MAY 05 2006

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.

5. Lease Serial No. UTU-0558
6. If Indian, Allottee or Tribe Name N/A
7. If Unit or CA/Agreement, Name and/or No. RED WASH UNIT
8. Well Name and No. RW 34-34 AMU
9. API Well No. 43-047-36351
10. Field and Pool, or Exploratory Area RED WASH
11. County or Parish, State Uintah

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well [] Oil Well [X] Gas Well [] Other
2. Name of Operator QEP Uinta Basin, Inc. Contact: Jan Nelson
3a. Address 11002 East 17500 South, Vernal, UT 84078
3b. Phone No. (include area code) 435-781-4331
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 858' FSL 1944' FEL, SWSE, SECTION 34, T7S, R22E

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

Table with columns TYPE OF SUBMISSION and TYPE OF ACTION. Includes checkboxes for Notice of Intent, Subsequent Report, Final Abandonment Notice, Acidize, Deepen, Production (Start/Resume), Water Shut-Off, Alter Casing, Fracture Treat, Reclamation, Well Integrity, Casing Repair, New Construction, Recomplete, Other (APD EXTENSION), 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.)

QEP Uinta Basin Inc, hereby requests a 1 year extension on the APD for the RW 34-34 AMU.

BLM APD approval date: 6-15-05

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

CONDITIONS OF APPROVAL ATTACHED

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

Name (Printed/Typed) Jan Nelson Title Regulatory Affairs
Signature [Signature] Date May 5, 2006

THIS SPACE FOR FEDERAL OR STATE USE

Approved by [Signature] Title Petroleum Engineer Date MAY 17 2006

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.

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)

MAY 26 2006





**Application for Permit to Drill
Request for Permit Extension
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

API: 43-047-36351
Well Name: RW 34-34 AMU
Location: 858' FSL 1944' FEL, SWSE, SEC. 34, T7S, R22E.
Company Permit Issued to: QEP UINTA BASIN, INC.
Date Original Permit Issued: 6/15/2005

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

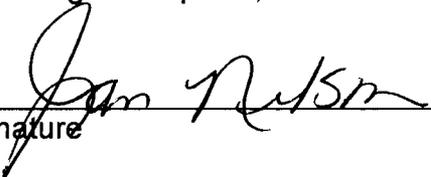
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No

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

5/5/2006

 Date

Title: REGULATORY AFFAIRS

Representing: QEP UINTA BASIN, INC.

RECEIVED
 MAY 26 2006

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

| |
|----------------|
| ROUTING |
| 1. DJJ |
| 2. CDW |

Change of Operator (Well Sold)

X - Operator Name Change/Merger

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

1/1/2007

| | |
|---|--|
| FROM: (Old Operator): N2460-QEP Uinta Basin, Inc. 1050 17th St, Suite 500 Denver, CO 80265 Phone: 1 (303) 672-6900 | TO: (New Operator): N5085-Questar E&P Company 1050 17th St, Suite 500 Denver, CO 80265 Phone: 1 (303) 672-6900 |
|---|--|

| WELL NAME | CA No. | SEC | TWN | RNG | API NO | ENTITY NO | LEASE TYPE | WELL TYPE | WELL STATUS |
|--------------------|--------|-----|-----|-----|--------|-----------|------------|-----------|-------------|
| SEE ATTACHED LISTS | | | | | * | | | | |

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/19/2007
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/16/2007
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 1/31/2005
- Is the new operator registered in the State of Utah: _____ Business Number: 764611-0143
- (R649-9-2)Waste Management Plan has been received on: IN PLACE
- Inspections of LA PA state/fee well sites complete on: n/a
- Reports current for Production/Disposition & Sundries on: n/a
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 4/23/2007 BIA
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 4/23/2007
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: _____
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: _____

DATA ENTRY:

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

BOND VERIFICATION:

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

LEASE INTEREST OWNER NOTIFICATION:

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

COMMENTS: THIS IS A COMPANY NAME CHANGE.

SOME WELL NAMES HAVE BEEN CHANGED AS REQUESTED

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)
RED WASH UNIT

4/30/2007 and 5/15/2007

| Original Well Name | Well Name & No. | Q/Q | SEC | TWP | RNG | API | Entity | Lease | Well Type | Status |
|--------------------|-----------------|------|-----|------|------|------------|--------|---------|-----------|--------|
| RWU 1 (41-26B) | RW 41-26B | NENE | 26 | 070S | 230E | 4304715135 | 5670 | Federal | OW | TA |
| RWU 3 (34-23B) | RW 34-23B | SWSE | 23 | 070S | 230E | 4304715136 | 5670 | Federal | OW | P |
| RWU 4 (41-22B) | RW 41-22B | NENE | 22 | 070S | 230E | 4304715137 | 5670 | Federal | OW | TA |
| RWU 5 (41-23B) | RW 41-23B | NENE | 23 | 070S | 230E | 4304715138 | 5670 | Federal | OW | P |
| RWU 8 (32-22B) | RW 32-22B | SWNE | 22 | 070S | 230E | 4304715139 | 5670 | Federal | OW | P |
| RWU 9 (43-23B) | RW 43-23B | NESE | 23 | 070S | 230E | 4304715140 | 5670 | Federal | OW | P |
| RWU 10 (12-23B) | RW 12-23B | SWNW | 23 | 070S | 230E | 4304715141 | 5670 | Federal | OW | TA |
| RWU 11 | RW 34-27B | SWSE | 27 | 070S | 230E | 4304715142 | 99996 | Federal | WI | A |
| RWU 13 (14-22B) | RW 14-22B | SWSW | 22 | 070S | 230E | 4304715143 | 5670 | Federal | OW | TA |
| RW 14-13B | RW 14-13B | SWSW | 13 | 070S | 230E | 4304715144 | 99996 | Federal | WI | A |
| RWU 15 (32-17C) | RW 32-17C | SWNE | 17 | 070S | 240E | 4304715145 | 5670 | Federal | OW | P |
| RWU 17 (41-20B) | RW 41-20B | NENE | 20 | 070S | 230E | 4304715146 | 5670 | Federal | WI | A |
| RWU 19 (34-26B) | RW 34-26B | SWSE | 26 | 070S | 230E | 4304715148 | 5670 | Federal | GW | S |
| RWU 21 (32-14B) | RW 32-14B | SWNE | 14 | 070S | 230E | 4304715150 | 5670 | Federal | OW | P |
| RWU 23 (21-23B) | RW 21-23B | SENW | 23 | 070S | 230E | 4304715151 | 99996 | Federal | WI | A |
| RWU 24 (34-14B) | RW 34-14B | SWSE | 14 | 070S | 230E | 4304715152 | 5670 | Federal | OW | S |
| RWU 26 (23-22B) | RW 23-22B | NESW | 22 | 070S | 230E | 4304715153 | 5670 | Federal | OW | TA |
| RWU 27 (43-14B) | RW 43-14B | NESE | 14 | 070S | 230E | 4304715154 | 5670 | Federal | OW | TA |
| RWU 28 (43-22B) | RW 43-22B | NESE | 22 | 070S | 230E | 4304715155 | 5670 | Federal | OW | P |
| RWU 29 (32-23B) | RW 32-23B | SWNE | 23 | 070S | 230E | 4304715156 | 5670 | Federal | OW | P |
| RW 23-13B | RW 23-13B | NESW | 13 | 070S | 230E | 4304715157 | 5670 | Federal | GW | TA |
| RWU 31 (34-22B) | RW 34-22B | SWSE | 22 | 070S | 230E | 4304715158 | 5670 | Federal | OW | P |
| RWU 33 (14-14B) | RW 14-14B | SWSW | 14 | 070S | 230E | 4304715160 | 5670 | Federal | GW | TA |
| RWU 34 (23-14B) | RW 23-14B | NESW | 14 | 070S | 230E | 4304715161 | 99996 | Federal | WI | A |
| RW 43-13B | RW 43-13B | NESE | 13 | 070S | 230E | 4304715162 | 5670 | Federal | OW | TA |
| RWU 36 (32-13B) | RW 32-13B | SWNE | 13 | 070S | 230E | 4304715163 | 5670 | Federal | GW | P |
| RWU 38 (14-23B) | RW 14-23B | SWSW | 23 | 070S | 230E | 4304715165 | 5670 | Federal | OW | P |
| RWU 39 (14-24A) | RW 14-24A | SWSW | 24 | 070S | 220E | 4304715166 | 5670 | Federal | OW | TA |
| RWU 40 (21-24B) | RW 21-24B | NENW | 24 | 070S | 230E | 4304715167 | 5670 | Federal | OW | TA |
| RWU 41 (34-13B) | RW 34-13B | SWSE | 13 | 070S | 230E | 4304715168 | 5670 | Federal | OW | P |
| RWU 42 (21-29C) | RW 21-29C | NENW | 29 | 070S | 240E | 4304715169 | 5670 | Federal | GW | P |
| RWU 43 (12-17B) | RW 12-17B | SWNW | 17 | 070S | 230E | 4304715170 | 5670 | Federal | OW | P |
| RWU 44 (32-33C) | RW 32-33C | SWNE | 33 | 070S | 240E | 4304715171 | 5670 | Federal | GW | P |
| RWU 45 (23-30B) | RW 23-30B | NESW | 30 | 070S | 230E | 4304715172 | 5670 | Federal | OW | TA |
| RWU 46 (41-21C) | RW 41-21C | NENE | 21 | 070S | 240E | 4304715173 | 5670 | Federal | GW | TA |
| RWU 48 (32-19B) | RW 32-19B | SWNE | 19 | 070S | 230E | 4304715174 | 99996 | Federal | WI | I |
| RWU 49 (12-29B) | RW 12-29B | SWNW | 29 | 070S | 230E | 4304715175 | 5670 | Federal | OW | TA |
| RWU 50 (14-23A) | RW 14-23A | SWSW | 23 | 070S | 220E | 4304715176 | 5670 | Federal | OW | P |
| RWU 52 (14-18B) | RW 14-18B | SWSW | 18 | 070S | 230E | 4304715178 | 5670 | Federal | OW | TA |
| RWU 53 (41-25A) | RW 41-25A | NENE | 25 | 070S | 220E | 4304715179 | 5670 | Federal | OW | TA |
| RWU 56 (41-28B) | RW 41-28B | NENE | 28 | 070S | 230E | 4304715182 | 99996 | Federal | WI | A |

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)
RED WASH UNIT

4/30/2007 and 5/15/2007

| Original Well Name | Well Name & No. | Q/Q | SEC | TWP | RNG | API | Entity | Lease | Well Type | Status |
|--------------------|-----------------|------|-----|------|------|------------|--------|---------|-----------|--------|
| RWU 57 (12-18C) | RW 12-18C | SWNW | 18 | 070S | 240E | 4304715183 | 5670 | Federal | OW | P |
| RWU 63 (21-22B) | RW 21-22B | NENW | 22 | 070S | 230E | 4304715186 | 5670 | Federal | GW | TA |
| RWU 64 (32-27B) | RW 32-27B | SWNE | 27 | 070S | 230E | 4304715187 | 5670 | Federal | OW | TA |
| RWU 66 (34-18B) | RW 34-18B | SWSE | 18 | 070S | 230E | 4304715189 | 5670 | Federal | OW | P |
| RWU 67 (42-22B) | RW 42-22B | SENE | 22 | 070S | 230E | 4304715190 | 5670 | Federal | OW | TA |
| RWU 69 (21-27B) | RW 21-27B | NENW | 27 | 070S | 230E | 4304715191 | 5670 | Federal | OW | TA |
| RWU 70 (23-22A) | RW 23-22A | NESW | 22 | 070S | 220E | 4304715192 | 5670 | Federal | OW | P |
| RWU 71 (21-18C) | RW 21-18C | NENW | 18 | 070S | 240E | 4304715193 | 5670 | Federal | OW | P |
| RWU 72 (23-27B) | RW 23-27B | NESW | 27 | 070S | 230E | 4304715194 | 5670 | Federal | OW | TA |
| RWU 74 (12-13B) | RW 12-13B | SWNW | 13 | 070S | 230E | 4304715196 | 5670 | Federal | GW | S |
| RWU 75 (21-26B) | RW 21-26B | NENW | 26 | 070S | 230E | 4304715197 | 5670 | Federal | OW | TA |
| RWU 76 (32-18C) | RW 32-18C | SWNE | 18 | 070S | 240E | 4304715198 | 5670 | Federal | GW | P |
| RWU 77 (21-13B) | RWU 77 (21-13B) | NENW | 13 | 070S | 230E | 4304715199 | 5670 | Federal | OW | P |
| RWU 78 (32-28B) | RW 32-28B | SWNE | 28 | 070S | 230E | 4304715200 | 5670 | Federal | OW | P |
| RWU 79 (12-27B) | RW 12-27B | SWNW | 27 | 070S | 230E | 4304715201 | 5670 | Federal | OW | TA |
| RWU 80 (14-27B) | RW 14-27B | SWSW | 27 | 070S | 230E | 4304715202 | 5670 | Federal | OW | S |
| RWU 81 (41-31B) | RW 41-31B | NENE | 31 | 070S | 230E | 4304715203 | 5670 | Federal | OW | P |
| RWU 83 (41-27A) | RW 41-27A | NENE | 27 | 070S | 220E | 4304715205 | 5670 | Federal | OW | P |
| RWU 84 (44-14B) | RW 44-14B | SESE | 14 | 070S | 230E | 4304715206 | 5670 | Federal | GW | P |
| RWU 88 (23-18B) | RW 23-18B | NESW | 18 | 070S | 230E | 4304715210 | 5670 | Federal | WI | A |
| RWU 90 (43-21B) | RW 43-21B | NESE | 21 | 070S | 230E | 4304715211 | 5670 | Federal | OW | P |
| RWU 92 (11-23B) | RW 11-23B | NWNW | 23 | 070S | 230E | 4304715212 | 5670 | Federal | OW | TA |
| RWU 94 (12-22A) | RW 12-22A | SWNW | 22 | 070S | 220E | 4304715213 | 5670 | Federal | OW | P |
| RWU 23-18C (97) | RW 23-18C | NESW | 18 | 070S | 240E | 4304715216 | 99996 | Federal | WI | I |
| RWU 99 (12-22B) | RW 12-22B | SWNW | 22 | 070S | 230E | 4304715218 | 5670 | Federal | OW | P |
| RWU 100-A (43-21A) | RW 43-21A | NESE | 21 | 070S | 220E | 4304715219 | 5670 | Federal | WI | A |
| RWU 101 (34-21B) | RW 34-21B | SWSE | 21 | 070S | 230E | 4304715220 | 5670 | Federal | OW | P |
| RWU 102 (41-24A) | RW 41-24A | SENE | 24 | 070S | 220E | 4304715221 | 5670 | Federal | WI | A |
| RWU 103 (34-15B) | RW 34-15B | SWSE | 15 | 070S | 230E | 4304715222 | 5670 | Federal | OW | P |
| RWU 108 (32-21B) | RW 32-21B | SWNE | 21 | 070S | 230E | 4304715226 | 5670 | Federal | OW | P |
| RWU 109 (21-28B) | RW 21-28B | NENW | 28 | 070S | 230E | 4304715227 | 5670 | Federal | OW | P |
| RWU 110 (23-23A) | RW 23-23A | NESW | 23 | 070S | 220E | 4304715228 | 5670 | Federal | OW | P |
| RWU 111 (32-24A) | RW 32-24A | SWNE | 24 | 070S | 220E | 4304715229 | 5670 | Federal | OW | S |
| RWU 112 (32-28A) | RW 32-28A | SWNE | 28 | 070S | 220E | 4304715230 | 5670 | Federal | OW | S |
| RWU 115 (21-19B) | RW 21-19B | NENW | 19 | 070S | 230E | 4304715233 | 5670 | Federal | OW | P |
| RWU 119 (43-29A) | RW 43-29A | NESE | 29 | 070S | 220E | 4304715236 | 5670 | Federal | OW | P |
| RWU 120 (23-28B) | RW 23-28B | NESW | 28 | 070S | 230E | 4304715237 | 5670 | Federal | OW | TA |
| RW 13-13B | RW 13-13B | NWSW | 13 | 070S | 230E | 4304715238 | 5670 | Federal | GW | P |
| RWU 122 (24-14B) | RW 24-14B | SESW | 14 | 070S | 230E | 4304715239 | 5670 | Federal | OW | P |
| RWU 125 (34-19B) | RW 34-19B | SWSE | 19 | 070S | 230E | 4304715242 | 5670 | Federal | OW | TA |
| RWU 126 (41-29A) | RW 41-29A | NENE | 29 | 070S | 220E | 4304715243 | 5670 | Federal | OW | P |

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)
RED WASH UNIT

4/30/2007 and 5/15/2007

| Original Well Name | Well Name & No. | Q/Q | SEC | TWP | RNG | API | Entity | Lease | Well Type | Status |
|--------------------|-----------------|------|-----|------|------|------------|--------|---------|-----------|--------|
| RWU 127 (12-19B) | RW 12-19B | SWNW | 19 | 070S | 230E | 4304715244 | 5670 | Federal | OW | S |
| RWU 129 (14-15B) | RW 14-15B | SWSW | 15 | 070S | 230E | 4304715246 | 5670 | Federal | OW | P |
| RWU 133 (41-34B) | RW 41-34B | NENE | 34 | 070S | 230E | 4304715250 | 5670 | Federal | OW | P |
| RWU 136 (43-19B) | RW 43-19B | NESE | 19 | 070S | 230E | 4304715252 | 5670 | Federal | OW | TA |
| RWU 137 (34-28B) | RW 34-28B | SWSE | 28 | 070S | 230E | 4304715253 | 5670 | Federal | GW | TA |
| RWU 138 (41-30B) | RW 41-30B | NENE | 30 | 070S | 230E | 4304715254 | 5670 | Federal | OW | P |
| RWU 140 (24-22B) | RW 24-22B | SESW | 22 | 070S | 230E | 4304715255 | 5670 | Federal | OW | P |
| RWU 141 (11-27B) | RW 11-27B | NWNW | 27 | 070S | 230E | 4304715256 | 5670 | Federal | OW | TA |
| RWU 143 (33-14B) | RW 33-14B | NWSE | 14 | 070S | 230E | 4304715257 | 5670 | Federal | OW | P |
| RWU 144 (21-18B) | RW 21-18B | NENW | 18 | 070S | 230E | 4304715258 | 5670 | Federal | OW | TA |
| RW 24-13B | RW 24-13B | SESW | 13 | 070S | 230E | 4304715259 | 5670 | Federal | OW | TA |
| RWU 147 (22-22B) | RW 22-22B | SENW | 22 | 070S | 230E | 4304715260 | 5670 | Federal | OW | TA |
| RWU 148 (13-22B) | RW 13-22B | NWSW | 22 | 070S | 230E | 4304715261 | 99996 | Federal | WI | A |
| RWU 150 (31-22B) | RW 31-22B | NWNE | 22 | 070S | 230E | 4304715263 | 99996 | Federal | WI | I |
| RWU 151 (42-14B) | RW 42-14B | SENE | 14 | 070S | 230E | 4304715264 | 5670 | Federal | OW | P |
| RWU 153 (14-29B) | RW 14-29B | SWSW | 29 | 070S | 230E | 4304715265 | 5670 | Federal | OW | P |
| RWU 156 (23-15B) | RW 23-15B | NESW | 15 | 070S | 230E | 4304715267 | 99990 | Federal | WI | A |
| RWU 158 (32-30B) | RW 32-30B | SWNE | 30 | 070S | 230E | 4304715268 | 5670 | Federal | OW | P |
| RWU 160 (32-15B) | RW 32-15B | SWNE | 15 | 070S | 230E | 4304715270 | 5670 | Federal | OW | P |
| RWU 161 (14-20B) | RW 14-20B | SWSW | 20 | 070S | 230E | 4304715271 | 99996 | Federal | WI | I |
| RWU 162 (12-20B) | RW 12-20B | SWNW | 20 | 070S | 230E | 4304715272 | 5670 | Federal | OW | P |
| RWU 164 (12-28B) | RW 12-28B | SWNW | 28 | 070S | 230E | 4304715274 | 5670 | Federal | OW | P |
| RWU 165 (32-26B) | RW 32-26B | SWNE | 26 | 070S | 230E | 4304715275 | 5670 | Federal | GW | TA |
| RWU 167 (23-21B) | RW 23-21B | NESW | 21 | 070S | 230E | 4304715277 | 5670 | Federal | OW | S |
| RWU 168 (23-24B) | RW 23-24B | NESW | 24 | 070S | 230E | 4304715278 | 5670 | Federal | OW | TA |
| RWU 172 (21-30B) | RW 21-30B | NENW | 30 | 070S | 230E | 4304715280 | 5670 | Federal | OW | TA |
| RWU 174 (21-20B) | RW 21-20B | NENW | 20 | 070S | 230E | 4304715281 | 5670 | Federal | WI | A |
| RWU 176 (31-28B) | RW 31-28B | NWNE | 28 | 070S | 230E | 4304715283 | 5670 | Federal | OW | TA |
| RWU 177 (42-28B) | RW 42-28B | SENE | 28 | 070S | 230E | 4304715284 | 5670 | Federal | OW | TA |
| RW 22-13B | RW 22-13B | SENW | 13 | 070S | 230E | 4304715285 | 5670 | Federal | OW | TA |
| RWU 180 (31-23B) | RW 31-23B | NWNE | 23 | 070S | 230E | 4304715287 | 5670 | Federal | OW | TA |
| RWU 181 (34-30B) | RW 34-30B | SWSE | 30 | 070S | 230E | 4304715288 | 5670 | Federal | OW | P |
| RW 33-13B | RW 33-13B | NWSE | 13 | 070S | 230E | 4304715289 | 5670 | Federal | WI | A |
| RWU 184 (23-26B) | RW 23-26B | NESW | 26 | 070S | 230E | 4304715290 | 5670 | Federal | GW | S |
| RWU 188 (23-20B) | RW 23-20B | NESW | 20 | 070S | 230E | 4304715291 | 5670 | Federal | OW | TA |
| RWU 192 (41-33A) | RW 41-33A | NENE | 33 | 070S | 220E | 4304715294 | 5670 | Federal | OW | P |
| RWU 193 (43-24B) | RW 43-24B | NESE | 24 | 070S | 230E | 4304715295 | 5670 | Federal | GW | TA |
| RWU 194 (12-14B) | RW 12-14B | SWNW | 14 | 070S | 230E | 4304715296 | 5670 | Federal | OW | S |
| RWU 196 (23-17C) | RW 23-17C | NESW | 17 | 070S | 240E | 4304715298 | 5670 | Federal | GW | TA |
| RWU 199 (43-22A) | RW 43-22A | NESE | 22 | 070S | 220E | 4304715301 | 99996 | Federal | WI | A |
| RWU 201 (32-28C) | RW 32-28C | SWNE | 28 | 070S | 240E | 4304715302 | 5670 | Federal | GW | P |

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)
RED WASH UNIT

4/30/2007 and 5/15/2007

| Original Well Name | Well Name & No. | Q/Q | SEC | TWP | RNG | API | Entity | Lease | Well Type | Status |
|--------------------|------------------|------|-----|------|------|------------|--------|---------|-----------|--------|
| RWU 202 (21-34A) | RW 21-34A | NENW | 34 | 070S | 220E | 4304715303 | 99996 | Federal | WI | I |
| RWU 204 (23-25A) | RW 23-25A | NESW | 25 | 070S | 220E | 4304715305 | 5670 | Federal | OW | P |
| RWU 205 (23-21C) | RW 23-21C | NESW | 21 | 070S | 240E | 4304715306 | 5670 | Federal | GW | TA |
| RWU 2 (14-24B) | RW 14-24B | SWSW | 24 | 070S | 230E | 4304716472 | 99996 | Federal | WI | A |
| RWU 7 (41-27B) | RW 41-27B | NENE | 27 | 070S | 230E | 4304716473 | 99996 | Federal | WI | I |
| RWU 16 (43-28B) | RW 43-28B | NESE | 28 | 070S | 230E | 4304716475 | 99996 | Federal | WI | I |
| RWU 25 (23-23B) | RW 23-23B | NESW | 23 | 070S | 230E | 4304716476 | 99996 | Federal | WI | A |
| RWU 59 (12-24B) | RW 12-24B | SWNW | 24 | 070S | 230E | 4304716477 | 99996 | Federal | WI | A |
| RWU 61 (12-27A) | RW 12-27A | SWNW | 27 | 070S | 220E | 4304716478 | 99996 | Federal | WI | I |
| RWU 91 (33-22B) | RW 33-22B | NWSE | 22 | 070S | 230E | 4304716479 | 99996 | Federal | WI | A |
| RWU 93 (43-27B) | RW 43-27B | NESE | 27 | 070S | 230E | 4304716480 | 99996 | Federal | WI | I |
| RWU 6 (41-21B) | RW 41-21B | NENE | 21 | 070S | 230E | 4304716482 | 99996 | Federal | WI | A |
| RWU 68 (41-13B) | RW 41-13B | NENE | 13 | 070S | 230E | 4304716485 | 99996 | Federal | WI | I |
| RWU 170 (41-15B) | RW 41-15B | NENE | 15 | 070S | 230E | 4304716495 | 99996 | Federal | WI | I |
| RWU 173 (21-21B) | RW 21-21B | NENW | 21 | 070S | 230E | 4304716496 | 99996 | Federal | WI | A |
| RWU 182 (14-21B) | RW 14-21B | SWSW | 21 | 070S | 230E | 4304716497 | 99996 | Federal | WI | A |
| RWU 185 (41-1B) | RW 41-14B | NENE | 14 | 070S | 230E | 4304716498 | 99996 | Federal | WI | A |
| RWU 212 (41-8F) | RW 41-8F | NENE | 08 | 080S | 240E | 4304720014 | 5670 | Federal | GW | P |
| RWU 213 (41-33B) | RW 41-33B | NENE | 33 | 070S | 230E | 4304720060 | 99996 | Federal | WD | A |
| RWU 215 (43-28A) | RW 43-28A | NESE | 28 | 070S | 220E | 4304730058 | 99996 | Federal | WD | A |
| RWU 216 (21-27A) | RW 21-27A | NENW | 27 | 070S | 220E | 4304730103 | 99996 | Federal | WI | A |
| RWU 219 (44-21C) | RW 44-21C | SESE | 21 | 070S | 240E | 4304730149 | 5670 | Federal | GW | S |
| RWU 220 (22-23B) | RW 22-23B | SENW | 23 | 070S | 230E | 4304730192 | 5670 | Federal | OW | TA |
| RWU 221 (13-27B) | RW 13-27B | NWSW | 27 | 070S | 230E | 4304730199 | 5670 | Federal | OW | TA |
| RWU 222 (31-27B) | RW 31-27B | NWNE | 27 | 070S | 230E | 4304730200 | 5670 | Federal | GW | TA |
| RWU 224 (44-22B) | RW 44-22B | SESE | 22 | 070S | 230E | 4304730202 | 5670 | Federal | GW | TA |
| RWU 225 (13-23B) | RW 13-23B | NWSW | 23 | 070S | 230E | 4304730212 | 5670 | Federal | GW | TA |
| RWU 226 (24-23B) | RW 24-23B | SESW | 23 | 070S | 230E | 4304730249 | 5670 | Federal | GW | S |
| RWU 227 (14-26B) | RW 14-26B | SWSW | 26 | 070S | 230E | 4304730257 | 5670 | Federal | OW | TA |
| RWU 228 (21-34B) | RW 21-34B | NENW | 34 | 070S | 230E | 4304730258 | 5670 | Federal | OW | P |
| RWU 229 (43-26B) | RW 43-26B | NESE | 26 | 070S | 230E | 4304730259 | 5670 | Federal | OW | TA |
| RWU 230 (14-18C) | RW 14-18C | SWSW | 18 | 070S | 240E | 4304730309 | 5670 | Federal | OW | P |
| RWU 231 (21-35B) | RW 21-35B | NENW | 35 | 070S | 230E | 4304730310 | 5670 | Federal | OW | TA |
| RWU 232 (12-26B) | RW 12-26B | SWNW | 26 | 070S | 230E | 4304730311 | 5670 | Federal | OW | TA |
| RWU 233 (12-25B) | RW 12-25B | SWNW | 25 | 070S | 230E | 4304730312 | 5670 | Federal | OW | TA |
| RWU 234 (32-24B) | RW 32-24B | SWNE | 24 | 070S | 230E | 4304730313 | 5670 | Federal | OW | P |
| RWU 235 (34-18C) | RW 34-18C | SWSE | 18 | 070S | 240E | 4304730314 | 5670 | Federal | OW | S |
| RWU 236 (21-19C) | RW 21-19C | NENW | 19 | 070S | 240E | 4304730340 | 5670 | Federal | GW | P |
| RWU 237 (14-25B) | RW 14-25B | SWSW | 25 | 070S | 230E | 4304730341 | 5670 | Federal | OW | P |
| RWU 238 (32-35B) | RW 32-35B | SWNE | 35 | 070S | 230E | 4304730342 | 5670 | Federal | OW | TA |
| RWU 239 (41-35B) | RW 41-35B | NENE | 35 | 070S | 230E | 4304730343 | 5670 | Federal | OW | TA |

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)
RED WASH UNIT

4/30/2007 and 5/15/2007

| Original Well Name | Well Name & No. | Q/Q | SEC | TWP | RNG | API | Entity | Lease | Well Type | Status |
|----------------------|-----------------|------|-----|------|------|------------|--------|---------|-----------|--------|
| RWU 240 (12-36B) | RW 12-36B | SWNW | 36 | 070S | 230E | 4304730344 | 5670 | Federal | OW | S |
| RWU 241 (22-14B) | RW 22-14B | SENW | 14 | 070S | 230E | 4304730345 | 5670 | Federal | OW | P |
| RW 42-13B | RW 42-13B | SENE | 13 | 070S | 230E | 4304730346 | 5670 | Federal | OW | P |
| RWU 243 (42-18C) | RW 42-18C | SENE | 18 | 070S | 240E | 4304730347 | 5670 | Federal | OW | TA |
| RWU 244 (23-19C) | RW 23-19C | NESW | 19 | 070S | 240E | 4304730348 | 5670 | Federal | GW | P |
| RWU 246 (22-18C) | RW 22-18C | SENW | 18 | 070S | 240E | 4304730387 | 5670 | Federal | OW | P |
| RWU 247 (22-17C) | RW 22-17C | SENW | 17 | 070S | 240E | 4304730388 | 5670 | Federal | GW | P |
| RWU 258 (34-22A) | RW 34-22A | SWSE | 22 | 070S | 220E | 4304730458 | 5670 | Federal | WI | A |
| RWU 262 (22-26B) | RW 22-26B | SENW | 26 | 070S | 230E | 4304730517 | 5670 | Federal | GW | TA |
| RWU 263 (24-26B) | RW 24-26B | SESW | 26 | 070S | 230E | 4304730518 | 99996 | Federal | WI | I |
| RWU 264 (31-35B) | RW 31-35B | NWNE | 35 | 070S | 230E | 4304730519 | 99996 | Federal | WI | A |
| RWU 265 (44-26B) | RW 44-26B | SESE | 26 | 070S | 230E | 4304730520 | 5670 | Federal | GW | P |
| RWU 266 (33-26B) | RW 33-26B | NWSE | 26 | 070S | 230E | 4304730521 | 99996 | Federal | WI | I |
| RWU 269 (13-26B) | RW 13-26B | NWSW | 26 | 070S | 230E | 4304730522 | 99996 | Federal | WI | A |
| RWU 273 (42-27B) | RW 42-27B | SENE | 27 | 070S | 230E | 4304731051 | 5670 | Federal | OW | TA |
| RWU 279 (11-36B) | RW 11-36B | NWNW | 36 | 070S | 230E | 4304731052 | 99996 | Federal | WI | A |
| RWU 276 (44-27B) | RW 44-27B | SESE | 27 | 070S | 230E | 4304731053 | 5670 | Federal | OW | TA |
| RWU 272 (44-23B) | RW 44-23B | SESE | 23 | 070S | 230E | 4304731054 | 5670 | Federal | GW | P |
| RWU 278 (11-26) | RW 11-26 | NWNW | 26 | 070S | 230E | 4304731076 | 5670 | Federal | GW | TA |
| RWU 275 (31-26B) | RW 31-26B | NWNE | 26 | 070S | 230E | 4304731077 | 99996 | Federal | WI | A |
| RWU 280 (11-35B) | RW 11-35B | NWNW | 35 | 070S | 230E | 4304731079 | 5670 | Federal | OW | P |
| RWU 282 (42-26B) | RW 42-26B | SENE | 26 | 070S | 230E | 4304731080 | 5670 | Federal | GW | TA |
| RWU 271 (42-35B) | RW 42-35B | SENE | 35 | 070S | 230E | 4304731081 | 5670 | Federal | WI | I |
| RWU 270 (22-35B) | RW 22-35B | SENW | 35 | 070S | 230E | 4304731082 | 5670 | Federal | OW | P |
| RWU 284 (33-23B) | RW 33-23B | NWSE | 23 | 070S | 230E | 4304731476 | 5670 | Federal | GW | TA |
| RWU 285 (11-24B) | RW 11-24B | NWNW | 24 | 070S | 230E | 4304731477 | 5670 | Federal | OW | P |
| RWU 286 (42-21B) | RW 42-21B | SENE | 21 | 070S | 230E | 4304731478 | 5670 | Federal | OW | P |
| RW 44-13B | RW 44-13B | SESE | 13 | 070S | 230E | 4304731512 | 5670 | Federal | OW | TA |
| RWU 288 (24-27) | RW 24-27 | SESW | 27 | 070S | 230E | 4304731513 | 5670 | Federal | OW | TA |
| RWU 289 (13-24B) | RW 13-24B | NWSW | 24 | 070S | 230E | 4304731517 | 5670 | Federal | OW | P |
| RWU 292 (42-23B) | RW 42-23B | SENE | 23 | 070S | 230E | 4304731576 | 5670 | Federal | GW | TA |
| RWU 295 (11-22B) | RW 11-22B | NWNW | 22 | 070S | 230E | 4304731577 | 5670 | Federal | GW | TA |
| RWU 296 (12-35B) | RW 12-35B | SWNW | 35 | 070S | 230E | 4304731578 | 5670 | Federal | OW | S |
| RWU 297 (24-15B) | RW 24-15B | SESW | 15 | 070S | 230E | 4304731579 | 5670 | Federal | OW | P |
| RWU 293 (22-22A) | RW 22-22A | SENW | 22 | 070S | 220E | 4304731581 | 5670 | Federal | OW | TA |
| RWU 294 (24-18C) | RW 24-18C | SESW | 18 | 070S | 240E | 4304731582 | 5670 | Federal | GW | P |
| RWU 298 (22-27B) | RW 22-27B | SENW | 27 | 070S | 230E | 4304731679 | 5670 | Federal | OW | TA |
| RWU 301 (43-15B) | RW 43-15B | NESE | 15 | 070S | 230E | 4304731682 | 5670 | Federal | GW | TA |
| RWU 302 (22-24B) | RW 22-24B | SENW | 24 | 070S | 230E | 4304731683 | 5670 | Federal | GW | TA |
| RWU 303 (34-17B) | RW 34-17B | SWSE | 17 | 070S | 230E | 4304731819 | 5670 | Federal | OW | P |
| RED WASH 305 (41-4F) | RW 41-4F | C-NE | 04 | 080S | 240E | 4304732538 | 5670 | Federal | GW | TA |

RED WASH UNIT

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

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)
RED WASH UNIT

4/30/2007 and 5/15/2007

| Original Well Name | Well Name & No. | Q/Q | SEC | TWP | RNG | API | Entity | Lease | Well Type | Status |
|--------------------|-----------------|------|-----|------|------|------------|--------|---------|-----------|--------|
| RWU 41-24A | RW 41-24A | NENE | 24 | 070S | 220E | 4304733769 | 5670 | Federal | OW | P |
| RWU 42-30B | RW 42-30B | SENE | 30 | 070S | 230E | 4304733771 | 5670 | Federal | OW | P |
| RWU 44-30B | RWU 44-30B | SESE | 30 | 070S | 230E | 4304733772 | 5670 | Federal | OW | P |
| RWU 11-30B | RW 11-30B | NWNW | 30 | 070S | 230E | 4304733785 | 5670 | Federal | WI | A |
| RWU 22-25A | RW 22-25A | SENE | 25 | 070S | 220E | 4304733786 | 5670 | Federal | OW | P |
| RWU 31-30B | RW 31-30B | NWNE | 30 | 070S | 230E | 4304733788 | 5670 | Federal | WI | A |
| RWU 33-30B | RW 33-30B | NWSE | 30 | 070S | 230E | 4304733790 | 5670 | Federal | WI | A |
| RED WASH U 34-27C | RW 34-27C | SWSE | 27 | 070S | 240E | 4304735045 | 5670 | Federal | GW | P |
| RWU 34-22C | RW 34-22C | SWSE | 22 | 070S | 240E | 4304735098 | 5670 | Federal | GW | P |
| RW 12G-20C | RW 12G-20C | SWNW | 20 | 070S | 240E | 4304735239 | 14011 | Federal | GW | S |
| RW 43G-08F | RW 43G-08F | NESE | 08 | 080S | 240E | 4304735655 | | Federal | GW | APD |
| RW 22G-09F | RW 22G-09F | SENE | 09 | 080S | 240E | 4304735656 | 15636 | Federal | GW | OPS |
| RWU 34-23AG | RW 34-23AG | SWSE | 23 | 070S | 220E | 4304735668 | 5670 | Federal | OW | P |
| RWU 34-27AG | RWU 34-27AD | SWSE | 27 | 070S | 220E | 4304735669 | 5670 | Federal | OW | DRL |
| RWU 32-27AG | RWU 32-27AG | SWNE | 27 | 070S | 220E | 4304735670 | 5670 | Federal | OW | S |
| RW 14-34AMU | RW 14-34AMU | SWSW | 34 | 070S | 220E | 4304735671 | 14277 | Federal | GW | P |
| RW 12-08FG | RW 12-08FG | SWNW | 08 | 080S | 240E | 4304736348 | | Federal | GW | APD |
| RW 44-08FG | RW 44-08FG | SESE | 08 | 080S | 240E | 4304736349 | 15261 | Federal | GW | P |
| RW 12-17FG | RW 12-17FG | SWNW | 17 | 080S | 240E | 4304736350 | | Federal | GW | APD |
| RW 34-34 AMU | RW 34-34 AD | SWSE | 34 | 070S | 220E | 4304736351 | | Federal | GW | APD |
| RW 44-35 AMU | RW 44-35 AMU | SESE | 35 | 070S | 220E | 4304736352 | | Federal | GW | APD |
| RW 14-35 AMU | RW 14-35 AMU | SWSW | 35 | 070S | 220E | 4304736354 | | Federal | GW | APD |
| RW 33-31 BMU | RW 33-31 BD | NWSE | 31 | 070S | 230E | 4304736357 | | Federal | GW | APD |
| RW 13-31 BMU | RW 13-31 BD | NWSW | 31 | 070S | 230E | 4304736358 | | Federal | GW | APD |
| RW 32-15FG | RW 32-15FG | SWNE | 15 | 080S | 240E | 4304736443 | | Federal | GW | APD |
| RW 21-26AG | RW 21-26AD | NENW | 26 | 070S | 220E | 4304736768 | | Federal | OW | APD |
| RW 43-26AG | RW 43-26AG | NESE | 26 | 070S | 220E | 4304736769 | | Federal | OW | APD |
| RW 43-23AG | RW 43-23AG | NESE | 23 | 070S | 220E | 4304736770 | | Federal | OW | APD |
| RW 41-26AG | RW 41-26AG | NENE | 26 | 070S | 220E | 4304736818 | | Federal | OW | APD |
| RW 04-25BG | RW 04-25B | NWSW | 25 | 070S | 230E | 4304736982 | | Federal | OW | APD |
| RW 01-25BG | RW 01-25BG | NWNW | 25 | 070S | 230E | 4304736983 | | Federal | OW | APD |
| RW 04-26BG | RW 04-26BG | SESW | 26 | 070S | 230E | 4304736984 | | Federal | OW | APD |
| RW 01-26BG | RW 01-26BG | SWNW | 26 | 070S | 230E | 4304736985 | | Federal | OW | APD |
| RW 01-35BG | RW 01-35BG | SWNW | 35 | 070S | 230E | 4304736986 | | Federal | OW | APD |

RED WASH UNIT

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

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

FORM 9

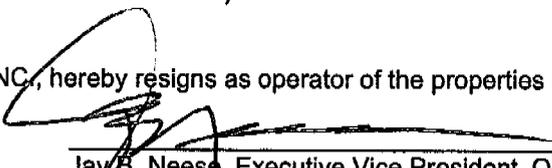
| | | |
|--|--|---|
| SUNDRY NOTICES AND REPORTS ON WELLS | | 5. LEASE DESIGNATION AND SERIAL NUMBER: see attached |
| Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: see attached |
| | | 7. UNIT or CA AGREEMENT NAME: see attached |
| 1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____ | 8. WELL NAME and NUMBER: see attached | |
| 2. NAME OF OPERATOR: QUESTAR EXPLORATION AND PRODUCTION COMPANY | | 9. API NUMBER: attached |
| 3. ADDRESS OF OPERATOR: 1050 17th Street Suite 500 <small>CITY</small> Denver <small>STATE</small> CO <small>ZIP</small> 80265 | PHONE NUMBER: (303) 308-3068 | 10. FIELD AND POOL, OR WILDCAT: |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: attached | | COUNTY: Uintah |
| QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: | | STATE: UTAH |

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

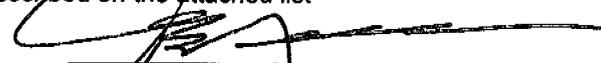
| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|--|
| <input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>1/1/2007</u> | <input type="checkbox"/> ACIDIZE | <input type="checkbox"/> DEEPEN | <input type="checkbox"/> REPERFORATE CURRENT FORMATION |
| | <input type="checkbox"/> ALTER CASING | <input type="checkbox"/> FRACTURE TREAT | <input type="checkbox"/> SIDETRACK TO REPAIR WELL |
| <input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____ | <input type="checkbox"/> CASING REPAIR | <input type="checkbox"/> NEW CONSTRUCTION | <input type="checkbox"/> TEMPORARILY ABANDON |
| | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS | <input type="checkbox"/> OPERATOR CHANGE | <input type="checkbox"/> TUBING REPAIR |
| | <input type="checkbox"/> CHANGE TUBING | <input type="checkbox"/> PLUG AND ABANDON | <input type="checkbox"/> VENT OR FLARE |
| | <input type="checkbox"/> CHANGE WELL NAME | <input type="checkbox"/> PLUG BACK | <input type="checkbox"/> WATER DISPOSAL |
| | <input type="checkbox"/> CHANGE WELL STATUS | <input type="checkbox"/> PRODUCTION (START/RESUME) | <input type="checkbox"/> WATER SHUT-OFF |
| | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE | <input checked="" type="checkbox"/> OTHER: <u>Operator Name Change</u> |
| | <input type="checkbox"/> CONVERT WELL TYPE | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION | |
| | | | |
| | | | |
| | | | |

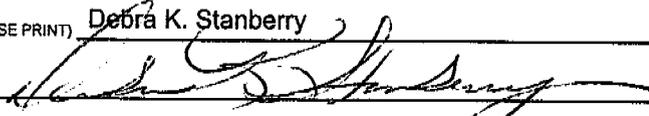
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective January 1, 2007 operator of record, QEP Uinta Basin, Inc., will hereafter be known as QUESTAR EXPLORATION AND PRODUCTION COMPANY. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible for operations of the properties described on the attached list. All operations will continue to be covered by bond numbers:
 Federal Bond Number: 965002976 (BLM Reference No. ESB000024)
 Utah State Bond Number: 965003033
 Fee Land Bond Number: 965003033
 Current operator of record, QEP UINTA BASIN, INC., hereby resigns as operator of the properties as described on the attached list.


 Jay B. Neese, Executive Vice President, QEP Uinta Basin, Inc.

Successor operator of record, QUESTAR EXPLORATION AND PRODUCTION COMPANY, hereby assumes all rights, duties and obligations as operator of the properties as described on the attached list


 Jay B. Neese, Executive Vice President
 Questar Exploration and Production Company

| | |
|---|---|
| NAME (PLEASE PRINT) <u>Debra K. Stanberry</u> | TITLE <u>Supervisor, Regulatory Affairs</u> |
| SIGNATURE  | DATE <u>3/16/2007</u> |

(This space for State use only)

RECEIVED
APR 19 2007

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

| | |
|--|--|
| 1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____ | 5. LEASE DESIGNATION AND SERIAL NUMBER: see attached |
| 2. NAME OF OPERATOR: QUESTAR EXPLORATION AND PRODUCTION COMPANY | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: see attached |
| 3. ADDRESS OF OPERATOR 1050 17th Street Suite 500 <small>CITY</small> Denver <small>STATE</small> CO <small>ZIP</small> 80265 | 7. UNIT or CA AGREEMENT NAME: see attached |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: attached | 8. WELL NAME and NUMBER: see attached |
| PHONE NUMBER: (303) 308-3068 | 9. API NUMBER: attached |
| QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: | 10. FIELD AND POOL, OR WILDCAT: |

COUNTY: **Uintah**
STATE: **UTAH**

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|--|--|
| <input checked="" type="checkbox"/> NOTICE OF INTENT <small>(Submit in Duplicate)</small> Approximate date work will start: <u>1/1/2007</u> | <input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE | <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION | <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: <u>Well Name Changes</u> |
| <input type="checkbox"/> SUBSEQUENT REPORT <small>(Submit Original Form Only)</small> Date of work completion: _____ | | | |

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

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

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

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RECEIVED
APR 19 2007
DIV. OF OIL, GAS & MINING



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

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



IN REPLY REFER TO
3180
UT-922

April 23, 2007

Questar Exploration and Production Company
1050 17th Street, Suite 500
Denver, Colorado 80265

Re: Red Wash Unit
Uintah County, Utah

Gentlemen:

On April 12, 2007, we received an indenture dated April 6, 2007, whereby QEP Uinta Basin, Inc. resigned as Unit Operator and Questar Exploration and Production Company was designated as Successor Unit Operator for the Red Wash Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective April 23, 2007. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Red Wash Unit Agreement.

Your nationwide oil and gas bond No. ESB000024 will be used to cover all federal operations within the Red Wash Unit.

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

Sincerely,

/s/ Greg J. Noble

Greg J. Noble
Acting Chief, Branch of Fluid Minerals

Enclosure

bcc: Field Manager - Vernal (w/enclosure)
SITLA
Division of Oil, Gas & Mining
File - Red Wash Unit (w/enclosure)
Agr. Sec. Chron
Reading File
Central Files

UT922:TAThompson:tt:4/23/07

RECEIVED

APR 30 2007

DIV. OF OIL, GAS & MINING

CONDITIONS OF APPROVAL

QEP Uinta Basin, Inc.

Notice of Intent APD Extension

Lease: UTU-0558 (43-047-36351)
Well: RW 34-34 AMU
Location: SWSE Sec 34-T07S-R22E

An extension for the referenced APD is granted with the following conditions:

1. The extension and APD shall expire on 06/15/2007
2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Roger Hall of this office at (435) 781-4470 or email Roger_Hall@blm.gov.

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

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTU-0558

SUNDRY NOTICES AND REPORTS ON WELLS

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

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.

7. UNIT or CA AGREEMENT NAME:
RED WASH UNIT

1. TYPE OF WELL OIL WELL GAS WELL OTHER _____

8. WELL NAME and NUMBER:
RW 34-34 AMU

2. NAME OF OPERATOR:
QEP UINTA BASIN, INC

9. API NUMBER:
4304736351

3. ADDRESS OF OPERATOR:
1571 E. 1700 S. CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER:
(435) 781-4031

10. FIELD AND POOL, OR WILDCAT:
RED WASH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 858 FSL 1944 FEL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 34 7S 22E

STATE: UTAH

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

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

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

QEP Uinta Basin, Inc. hereby requests a 1 year extension on the RW 34-34 AMU.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 03-20-07

By: [Signature]

3-21-07
Rm

NAME (PLEASE PRINT) Laura Bills

TITLE Regulatory Assistant

SIGNATURE [Signature]

DATE 3/15/2007

(This space for State use only)

RECORDED

MAR 19 2007

**Application for Permit to Drill
Request for Permit Extension
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

API: 43-047-36351
Well Name: RW 34-34 AMU
Location: 858 FSL 1944 FEL, SWSE, SEC. 34 T7S R22E.
Company Permit Issued to: QEP UINTA BASIN, INC.
Date Original Permit Issued: 3/10/2005

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

Aura Bills
Signature

3/15/2007
Date

Title: REGULATORY ASSISTANT

Representing: QEP UINTA BASIN, INC.

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DIV. OF OIL, GAS & MINING

Form 3160-5
June 1990

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0125
Expires: March 31, 1993

CONFIDENTIAL

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

1. Lease Designation and Serial No.
UTU-0558

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

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

8. Well Name and No.
RW 34-34 AMU

9. API Well No.
43-047-36351

10. Field and Pool, or Exploratory Area
UNDESIGNATED

11. County or Parish, State
UINTAH, UTAH

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Gas
 Well Well Other

2. Name of Operator
QUESTAR EXPLORATION & PRODUCTION, CO.

3. Address and Telephone No. **1571 E. 1700 S. - VERNAL, UT 84078-8526**
 Contact: **Dahn.Caldwell@questar.com**
435-781-4342 Fax 435-781-4357

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
858' FSL, 1944' FEL, SWSE, SEC 34-T7S-R22E

II CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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

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

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

On 6/7/07 - Drilled 40' of 26" conductor hole. Set 40' of 20" conductor pipe. Cement w/ Ready Mix.

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JUN 12 2007
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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** *Dahn F. Caldwell* **Office Administrator II** Date **6/8/07**

(This space for Federal or State office use)

Approved by: _____ Title _____ Date _____

Comments of approval, if any _____

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

CONFIDENTIAL

OPERATOR: **Questar Exploration & Production, Co.**
ADDRESS: **1571 East 1700 South**
Vernal, Utah 84078-8526 (435)781-4342

ENTITY ACTION FORM - FORM 6

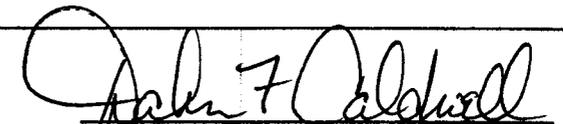
| Action Code | Current Entity No. | New Entity No. | API Number | Well Name | QQ | SC | TP | RG | County | Spud Date | Effective Date |
|------------------------------------|--------------------|----------------|--------------|--------------|------|----|----|-----|--------|-----------|--|
| A | 99999 | 16177 | 43-047-36351 | RW 34-34 AMU | SWSE | 34 | 7S | 22E | Uintah | 6/7/07 | 6/14/07 |
| WELL 1 COMMENTS: WSMVD <i>MVRD</i> | | | | | | | | | | | <p>CONFIDENTIAL</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">RECEIVED JUN 13 2007 DIV. OF OIL, GAS & MINING</p> |
| WELL 2 COMMENTS: | | | | | | | | | | | |
| WELL 3 COMMENTS: | | | | | | | | | | | |
| WELL 4 COMMENTS: | | | | | | | | | | | |
| WELL 5 COMMENTS: | | | | | | | | | | | |

ACTION CODES (See instructions on back of form)

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

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

(3/89)


Signature

Office Administrator II 6/8/07
Title Date

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

CONFIDENTIAL

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.

5. Lease Serial No.

UTU-0558

6. If Indian, Allottee or Tribe Name

N/A

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

RED WASH UNIT

8. Well Name and No.

RW 34-34AMU

9. API Well No.

43-047-36351

10. Field and Pool, or Exploratory Area

UNDESIGNATED

11. County or Parish, State

UINTAH

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

QUESTAR EXPLORATION & PRODUCTION, CO.

3a. Address

11002 E. 17500 S. VERNAL, UT 84078

3b. Phone No. (include area code)

435-781-4331

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

858' FSL 1944' FEL SWSE SECTION 34, T7S, R22E

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

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

13. Describe Proposed or Completed 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 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.

QUESTAR EXPLORATION AND PRODUCTION COMPANY IS REQUESTS PERMISSION TO MODIFY THE PAD LAYOUT IN ORDER TO ACCOMMODATE THE LARGER DRILLING RIG. A REVISED LOCATION LAYOUT IS ATTACHED.

QUESTAR EXPLORATION AND PRODUCTION COMPANY IS REQUESTING TO CHANGE THE WELL NAME FROM RW 34-34AMU TO RW 34-34AD.

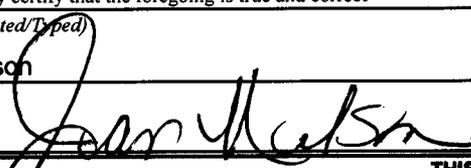
FOR TECHNICAL QUESTIONS, PLEASE CONTACT JIM DAVIDSON, CHIEF DRILLING ENGINEER FOR QEP, AT (303) 308-3090.

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

Name (Printed/Typed)

Jan Nelson

Signature



Title

Regulatory Affairs

Date

September 12, 2007

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

Title

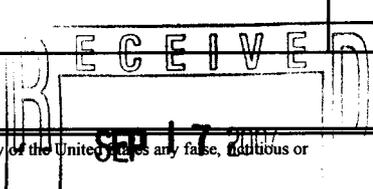
Date

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

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)



DIV OF OIL, GAS & MIN

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:

| <u>Formation</u> | <u>Depth</u> |
|------------------|--------------|
| Uinta | Surface |
| Green River | 3,276' |
| Wasatch | 6,526' |
| Mesaverde | 9,276' |
| Sego | 11,601' |
| Castlegate | 11,756' |
| Blackhawk | 12,111' |
| Mancos Shale | 12,570' |
| Mancos B | 12,985' |
| Frontier | 15,866' |
| Dakota Silt | 16,778' |
| Dakota | 16,988' |
| Morrison | 17,478' |
| TD | 17,725' |

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

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

| <u>Substance</u> | <u>Formation</u> | <u>Depth</u> |
|------------------|------------------|--------------|
| Gas | Wasatch | 6,526' |
| Gas | Mesaverde | 9,276' |
| Gas | Blackhawk | 12,111' |
| Gas | Mancos Shale | 12,570' |
| Gas | Mancos B | 12,985' |
| Gas | Dakota | 16,988' |

DRILLING PROGRAM

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 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 before 1989 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 7" 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 7" 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.

DRILLING PROGRAM

4. **Casing Design:**

| Hole Size | Csg. Size | Top (MD) | Bottom (MD) | Wt. | Grade | Thread | Cond. |
|-----------|-----------|----------|-------------|---------------|---------|----------|-------|
| 26" | 20" | sfc | 40-60' | Steel | Cond. | None | Used |
| 17-1/2" | 13-3/8" | sfc | 500' | 54.5 | K-55 | STC | New |
| 11" | 9-5/8" | sfc | 8500' | 47 | HCP-110 | SLIJ II* | New |
| 8-1/2" | 7" | 8100' | 13,000' | 29* SDrift | HCP-110 | LTC | New |
| 6-1/8" | 4-1/2" | sfc | 13,700' | 15.1 | P-110 | LTC | New |
| 6-1/8" | 4-1/2" | 13,700' | 17,475' | 15.1 | Q-125 | LTC | New |

* Flush Joint

| 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" | 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. |

* Special Drift

MINIMUM DESIGN FACTORS:

COLLAPSE: 1.125

BURST: 1.10

TENSION: 1.80

Area Fracture Gradient: 0.9 psi/foot

Maximum anticipated mud weight: 15.4 ppg

Maximum surface treating pressure: 12,500 psi

DRILLING PROGRAM

5. **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. The blooie line shall be at least 6” in diameter and extend at least 100’ from the well bore into the reserve/blooie pit.
- G. Blooie line ignition shall be provided by a continuous pilot (ignited when drilling below 500’).
- H. Compressor shall be tied directly to the blooie line through a manifold.
- I. A mister with a continuous stream of water shall be installed near the end of the blooie lines for dust suppression.

Surface hole will be drilled with air, air/mist, foam, or mud depending on hole conditions. Drilling below surface casing will be with water based drilling fluids consisting primarily of fresh water, bentonite, lignite, caustic, lime, soda ash and polymers. No chromates will be used. Oil based drilling mud will be used to drill the final section of the hole. The water based and oil based drilling system specifics are attached to this APD. Maximum anticipated mud weight is 15.4 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.

6. **Testing, logging and coring program**

- A. Cores – none anticipated
- B. DST – none anticipated
- C. Logging – Mud logging – 4500’ to TD
GR-SP-Induction, Neutron Density, FMI

DRILLING PROGRAM

- 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.

7. **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% CaCl₂
Slurry wt: 15.6 ppg, slurry yield: 1.20 ft³/sx, slurry volume: 17-1/2" hole + 100% excess.

9-5/8" Intermediate Casing: sfc - 8500' (MD)

Lead Slurry: 0' – 8,100'. 1208 sks (316 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 ft³/sk (unfoamed), Slurry volume: 12-1/4" hole + 35 % excess.

Tail Slurry: 8,100' – 8,500'. 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 ft³/sk, Slurry volume: 12-1/4" hole + 35% excess.

7" Intermediate Casing: 8,000 - 13,000' (MD)

Foamed Lead Slurry 2: 8,000' – 13,000'. 499 sks (792 cu ft) 50/50 Poz Premium + 20% SSA-1 + 3 % silicalite compacted + 3% Silicalite Compacted + 0.5% Halad 344 + 0.2% Halad 413 + 0.1% HR-12 + 0.7% Super CBL + 0.2% Suspend Slurry wt: 14.0 ppg,, Slurry yield: 1.59 ft³/sk, Slurry volume: 8-1/2" hole + 25% excess.

4-1/2" Production Casing: sfc - 17,725' (MD)

Lead/Tail Slurry: 6,700 - 17,725'. 941 sks (1402 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 ft³/sk, Slurry volume: 6-1/8" hole + 35% in open hole section.

DRILLING PROGRAM

*Final cement volumes to be calculated from caliper log with an attempt to be made to circulate cement to the surface on the intermediate string and 5,000' 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.

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 13,000 psi. Maximum anticipated bottom hole temperature is 305° F.

9. ADDITIONAL INFORMATION FOR OIL BASE MUD:

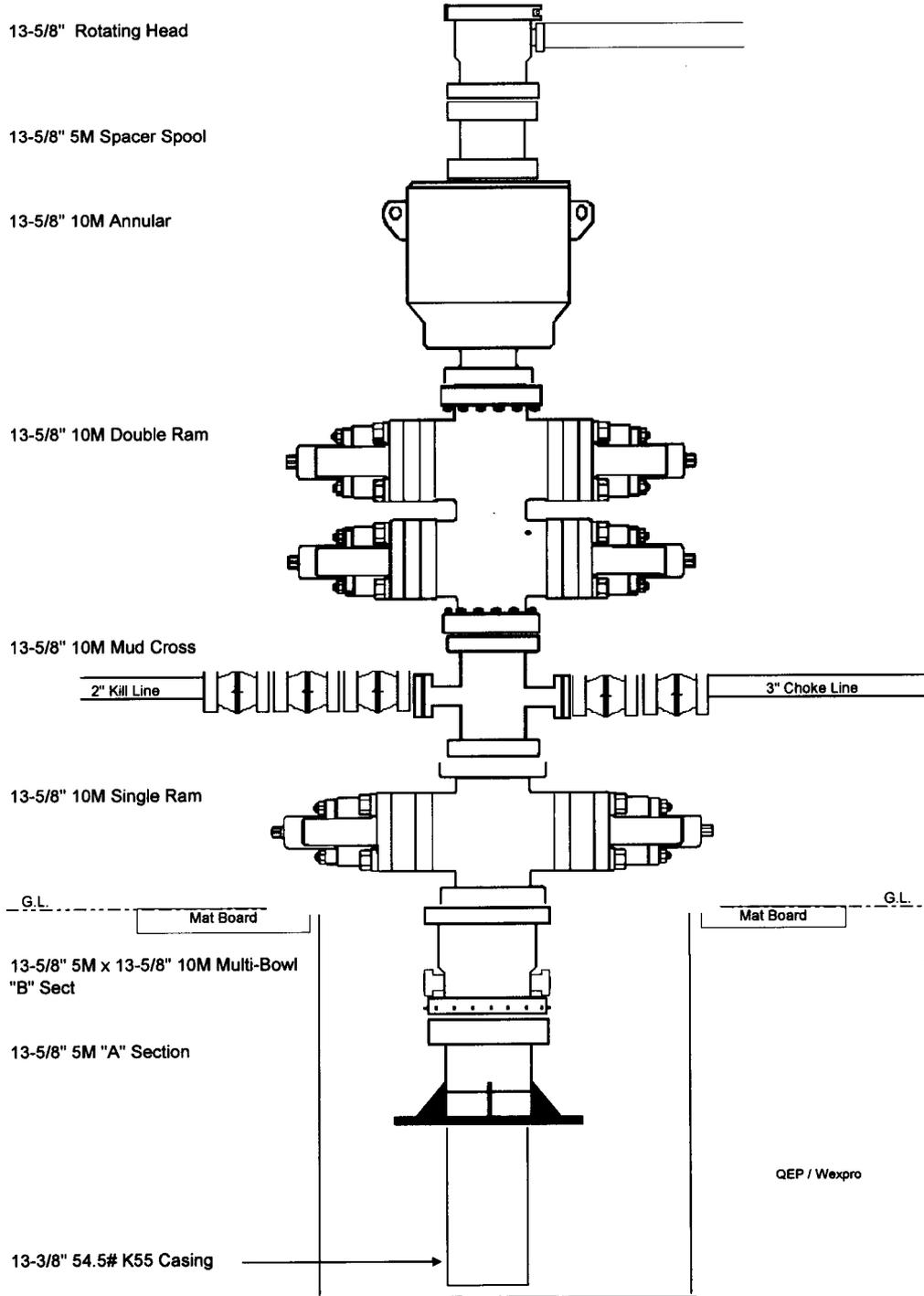
- A. See attached diagram of well pad layout. A reserve pit will be constructed for this location. This pit will be constructed so that a minimum of two vertical feet of freeboard exists above the top of the pit at all times and at least one-half of the holding capacity will be below ground level. The 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.

DRILLING PROGRAM

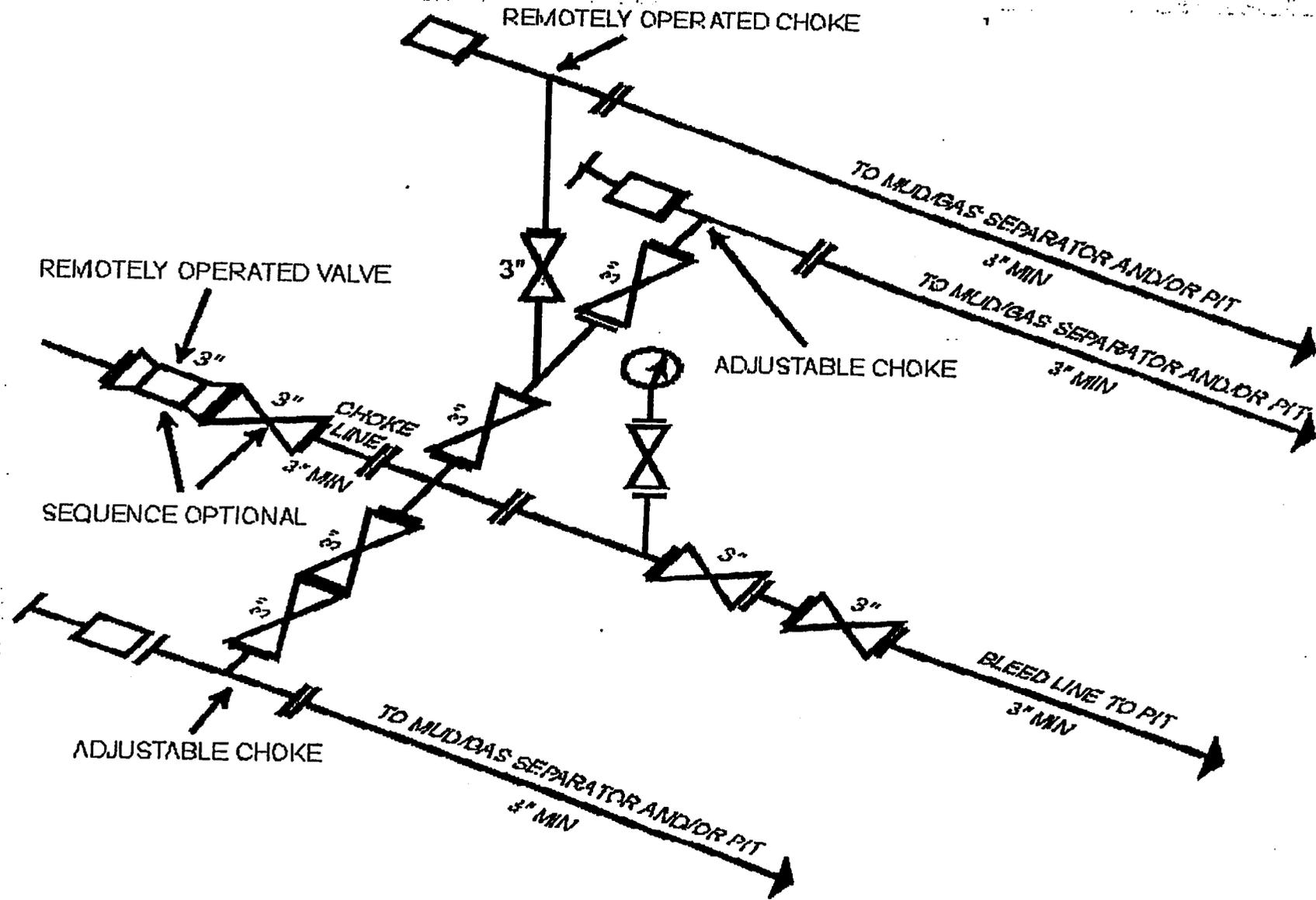
- C.** Plastic material will underlay the rig, oil base mud/diesel storage tanks and mud pits. All tanks on location will be placed inside of berms. Any oily waste fluids and sediments generated at the work site during drilling operations or when cleaning the fluid containment system after drilling will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

DRILLING PROGRAM

BOP Requirements:



Attachment I. Diagrams of Choke Manifold Equipment

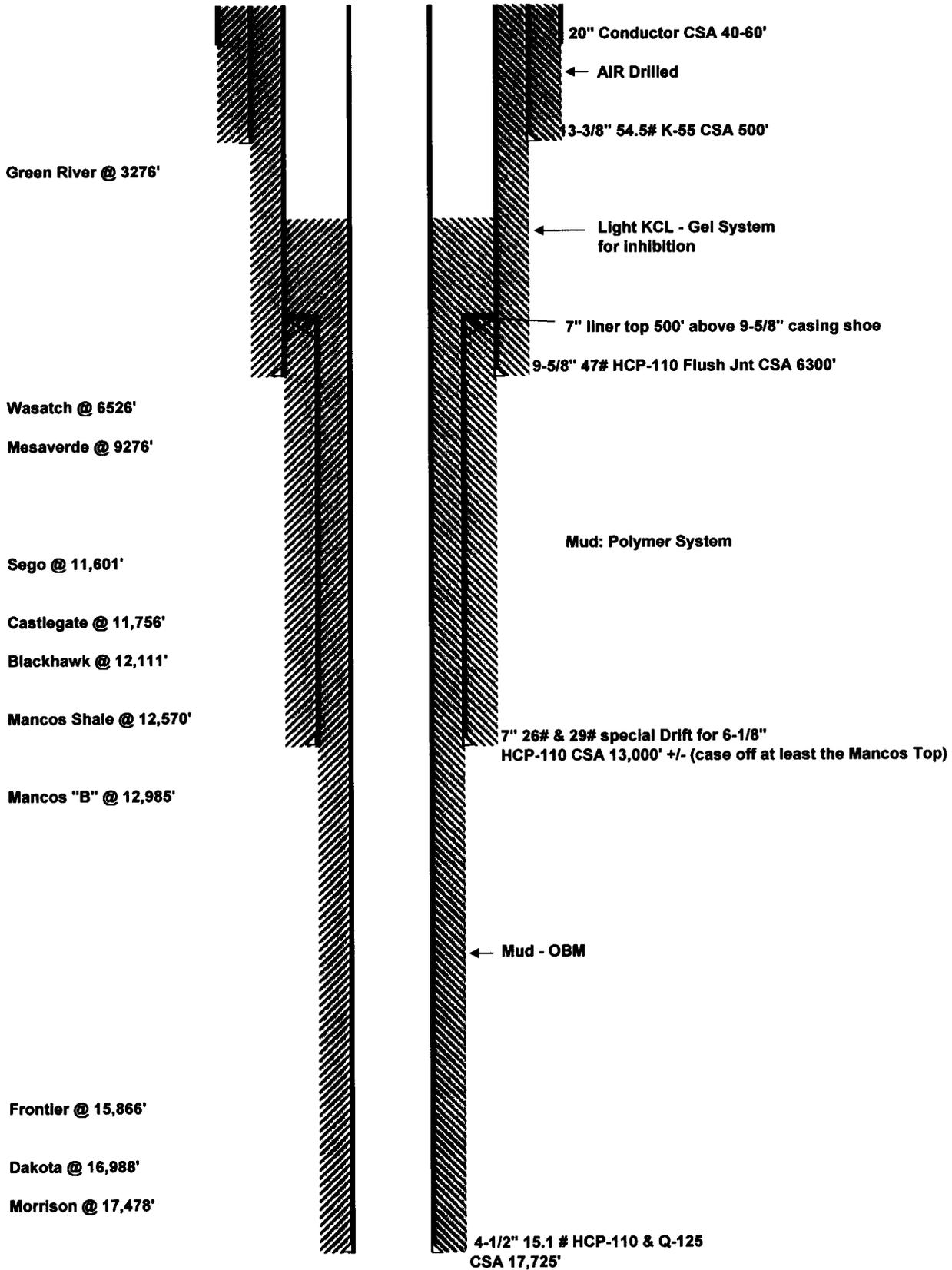


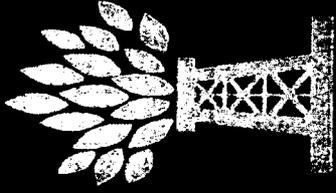
I-4 10M and 15M Choke Manifold Equipment -- Configuration of chokes may vary

[54 FR 39528, Sept. 27, 1989]

Last Updated March 25, 1997 by John Broderick

RW 34-34 AD





NEBPARK

D R I L L I N G F L U I D S , L L C

**Questar
Exploration &
Production Company**

RW 34-34 AD

***Sec 34-T7S-R22E
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

September 6, 2007

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

RE: RW 34-34 AD
Sec 34-T7S-R22E
Uintah Co, Utah

Mr. Davidson:

Newpark Drilling Fluids, LP is pleased to present the enclosed revised recommended drilling fluids program for the RW 34-34 AD well to be drilled in Uintah County, Utah.

The Surface Interval will be drilled with air to a depth of 500 ft.

For the Intermediate Interval, it is recommended to drill out with 3% KCL water pumping NewGel sweeps as needed for hole cleaning. At 5500-6000 ft before drilling to intermediate casing depth at 6300', mud up to a 3% KCL/Polymer system. Trona water flows in this area may require a mud weight of 9.5 ppg to control. Use this fluid to casing point at 6,300 ft.

In the Liner interval, drill out with the fluid from the previous interval. Consider continuing additions of KCL, maintaining 3% until drilling into the Mesa Verde. After drilling the Mesa Verde, allow the KCL to deplete through dilution allowing the system to convert to a NewPHPA/Polymer system.

Mud weight in this interval is expected to be in the 13.5-14.5 ppg range at the 13,300 ft liner interval T.D.

In the Production interval, displace to a 13.5-14.5 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 65-70 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 facility, 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
RW 34-34 AD
Sec 34-TTS-R22E
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 |
| 3,276' | Green River Mahogany | KCL/NewPHPA Hole size: 11 0" Casing: 9 5/8" Flush Joint Drill out with water, adding KCL for 2-3%. Pump pre-hydrated NewGel sweeps for hole cleaning. For seepage, incorporate fine LCM into the NewGel sweeps. Begin mud up operations at +/- 5500 ft or before drilling into the Wasatch. It is recommended to have the KCL % at 3.0 or > before drilling into the Wasatch. Maintain the fluid loss at 8 mis with AquaBloc/NewPac. Maintain rheology control with NewEdge, CFL II, and DrillThin. Maintain hardness at 100 mg/l or > with Lime/Gyp additions. As seepage is encountered, pump LCM sweeps as conditions dictate. Mud weight at T.D. is expected to be in the 9.4-9.6 ppg range | 8.6 9.0 | Vis (sec/qt): 28-40 PV (cp): 0-12 YP (#s/100ft ²): 0-10 FL (ml/30 min): 8-10 LGS %: 3-5 pH: 10.0-10.5 |
| 6,300' | Intermediate T.D. | | 9.5 | Cl (mg/l): 11-15K KCL %: 2.5-3.0 |
| 6,526' 9,276' | Wasatch Mesa Verde | NewPHPA Hole size: 8 5" Liner: 7" | 9.8 | Vis (sec/qt): 40-45 PV (cp): 12-20 |
| 11,601' | Sego Bucktongue | Drill out, running fresh water, consider maintaining the KCL at 3 % until the Mesa Verde top at 9,967' Maintain properties as recommended and increasing the PHPA concentration to 1.0 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 | 10.4 11.4 | YP (#s/100ft ²): 10-12 FL (ml/30 min): 6-8 |
| 11,756' 12,111' | Castlegate Blackhawk | | 11.6 | LGS %: 3-5 pH: 10.0-10.5 |
| 12,570' | Mancos Shale | | 13.5 | Cl (mg/l): 11-15K |
| 13,000'+/- | Liner T.D. | | 13.5 | KCL %: 0 |
| 12,985' | Mancos B | OptiDrill OBM Hole size: 7 0" Casing: 4-1/2" | 13.5 | PV (cp): 25-35 YP (lbs/100ft ²): 8-10 HPHT (mls/30 min.): <20 O/W : 80:20 - 85:15 |
| 15,866' 16,988' | Frontier equiv Dakota Silt Dakota | 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. | | ES: 500+ Lime: 2-4 ppb LGS %: < 6 |
| 17,725' | Total Depth | | 15.5 | |



Newpark Drilling Fluids, LP

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Project Summary

Qestar
Exploration & Production
RW 34-34 AD
Sec 34-T7S-R22E
Uintah, County Utah

DRILLING FLUID PROPERTIES

Surface Hole: Air Drilled

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

Intermediate Hole: KCL Water NewGel Sweeps - KCL/PHPA

| Hole Size (in) | MD (ft) | Mud Weight (ppg) | Plastic Viscosity (cp) | Yield Point (lb/100ft ²) | API Fluid Loss (ml/30min) | KCL (%) | LGS Solids (%) |
|----------------|---------------|------------------|------------------------|--------------------------------------|---------------------------|---------|----------------|
| 11" | 500-5,500' | 8.5-8.6 | NA | NA | NA | 2-3 | < 1% |
| 11" | 5,500'-6,300' | 8.6-9.4 | 8-12 | 10-12 | 8-10 | 3.0 | 3-6 |

Liner Interval: NewPHPA

| Hole Size (in) | MD (ft) | Mud Weight (ppg) | Plastic Viscosity (cp) | Yield Point (lb/100ft ²) | API Fluid Loss (ml/30min) | KCL (%) | LGS Solids (%) |
|----------------|----------------|------------------|------------------------|--------------------------------------|---------------------------|---------|----------------|
| 8 1/2" | 6,300'-9,967' | 9.5-10.0 | 8-12 | 10-12 | 6-8 | 3.0 | 3-6 |
| 8 1/2" | 9,967'-13,000' | 13.0-13.5 | 15-25 | 10-15 | 6-8 | 0 | 3-6 |

Production Interval: OptiDrill OBM

| Hole Size (in) | MD (ft) | Mud Weight (ppg) | Plastic Viscosity (cp) | Yield Point (lb/100ft ²) | O/W Ratio (%) | HPHT Fluid Loss (ml/30min) | CaCL (mg/l) X 10,000 | Electrical Stability (mv) | LGS Solids (%) |
|----------------|-----------------|------------------|------------------------|--------------------------------------|---------------|----------------------------|----------------------|---------------------------|----------------|
| 7.0" | 13,000'-17,725' | 15.0-15.5 | 25-35 | 8-12 | 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.



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Intermediate Interval

11" Hole (500'- 6,300')

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Sec 34-T7S-R22E
Uintah, County Utah

| Intermediate Interval Drilling Fluid Properties | | | | | | | | | |
|--|------------------|--------------------|------------------------|--------------------------------------|-----------|---------------------------|-----------------|--------------------|---------|
| Depth Interval (TVD) | Mud Weight (ppg) | Viscosity (sec/qt) | Plastic Viscosity (cp) | Yield Point (lb/100ft ²) | pH | API Fluid Loss (ml/30min) | Hardness (Mg/l) | Low Gravity Solids | KCL % |
| 500'-5,500' | 8.5-8.6 | 27-28 | NA | NA | 10.0-10.5 | NA | 100+ | < 1.0 | 2.0-3.0 |
| 5,500'-6,300' | 9.0-9.5 | 38-45 | 10-15 | 8-12 | 10.0-10.5 | 8-10 | 100+ | 3-6 | 3.0+ |

- Drill out mixing KCL for 3%. Pump pre-hydrated NewGel sweeps for additional hole cleaning and as hole conditions dictate. Add LCM to the sweeps for seepage.
- Mud up at 5,500 ft + to a KCL/Polymer system with properties as outlined above.
- If seepage is encountered, pump LCM sweeps as needed.
- Before drilling into the Wasatch, increase the KCL concentration to 3% or better.
- If Trona water is encountered, treat with Lime as needed for a 10.2 pH and 100 mg/l hardness.
- Mud weight at Intermediate T.D. is expected to be in the 9.2-9.4 ppg range.

| Challenges: | Strategies: |
|----------------------------------|--|
| Bit Balling | Use New Ease 203 (1-2 gal. down the drill pipe on connections) SAPP and Soap Sticks to prevent balling and to increase penetration rates. |
| Water Flows (Trona) | If water flows become excessive, mud up and increase mud weight as needed for control. Treat carbonate contamination with Lime/ Calcium Chloride as needed. |
| Lost Circulation | 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. If losses are not controlled with sweeps consider 10-15% LCM in active system. If losses are severe the use of a DynaPlug Squeeze is strongly recommended. |
| Differential Sticking | Maintain mud weight as low as possible. Control Low Gravity Solids below 6%, and control fluid loss at 8-10 ml/30 min. |
| Increase ROP with PDC Bits | Pump 20-40 bbl. Sweeps with NewEase 203, New100N, DynaDet, and SAPP. (FlexDrill Sweeps) |
| Hole Instability/Sloughing Shale | Consider additions of Asphalt at 4-6 ppb and/or Potassium Silicate at 1-2 ppb. |



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Intermediate Interval

11" Hole (500'- 6,300')

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Uintah, County Utah

Offset Data:

Some wells in this area have experienced losses in the Green River and Wasatch formations. LCM sweeps are strongly recommended for this reason. Mud weights should be kept as low as practical but increases to 9.5 ppg may be required to control the Trona Water flows which can be encountered from 3,000-4,000'.

Fluid Recommendations:

- Drill out cement, float collar and new formation. Test the integrity of the casing seat and squeeze if necessary.
- Close in pits and begin additions of **KCL, building to 3%**. Maintain **3% KCL** throughout the interval.
- If a Trona Water flow is encountered additions of **Lime** and/or **Calcium Chloride** should be used to adjust alkalinities as needed. An increase of mud weight to 9.5 may be necessary to control water flows in this area.
- The use of a premix tank is highly recommended. Pre-Hydrate **NewGel** for use as sweeps and for viscosity when a mud up is started at +/- 5,500'. 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 **3% KCL** water for viscosity and rheology control.
- At 5,500'-6,000' (before intermediate T.D.) begin a mud up. Add pre-hydrated **NewGel** from the premix tank to the active system to increase funnel viscosity to 35-40 sec/qt. Maintain viscosity with pre-hydrated **NewGel** as needed. The system should be monitored and additions of **KCL** be adjusted to maintain **3% KCL**.
- Rheology can be enhanced with additions of .25-1.0 ppb **Flowzan** as needed.
- Reduce Fluid Loss to 8-10CC/30min with additions of 0.5-1.0 ppb **NewPAC** and/or 2-4 ppb **Aqua Bloc** by 5,500' and lower to 6-8 CC/30min prior to TD at 11,900'.
- 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**"
- If an increase in mud weight is necessary 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 losses become severe, LCM sweeps of **Cedar Fiber** and **FiberSeal** should be considered 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 **DynaPlug** 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.



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Liner Interval

8 1/2" Hole (6,300' - 13,000')

Questar
Exploration & Production
RW 34-34 AD
Sec 34-T7S-R22E
Uintah, County Utah

Liner Interval Drilling Fluid Properties

| Depth Interval (TVD) | Mud Weight (ppg) | Viscosity (sec/qt) | Plastic Viscosity (cp) | Yield Point (lb/100ft ²) | pH | API Fluid Loss (ml/30min) | Hardness (Mg/l) | Low Gravity Solids |
|----------------------|------------------|--------------------|------------------------|--------------------------------------|-----------|---------------------------|-----------------|--------------------|
| 6,300'-13,000' | 13.5-14.0 | 40-50 | 18-25 | 10-15 | 10.0-10.5 | 6-8 | 100+ | 3-6 |

- After drilling out, consider continuing additions of KCL until drilling into the Mesa Verde at 9,967' +/- . After drilling into the Mesa Verde , 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 Liner Interval T.D. is expected to be in the 12.0-12.5 ppg range.

| <i>Challenges:</i> | <i>Strategies:</i> |
|----------------------------------|--|
| 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 DynaPlug 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 ml/30 min. |
| Increase ROP with PDC Bits | Pump 20-40 bbl. Sweeps with NewEase 203 , New100N , DynaDet , and SAPP . (FlexDrill Sweeps) |



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Liner Interval

8 1/2" Hole (6,300'-13,000')

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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 kept as low as practical but increases to 12.5 ppg may be required by Liner TD at 13,000'.

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.
- Consider continuing additions of **KCL** until drilling into the **Mesa Verde** at **9,967'+/-**. Allow **KCL** to naturally dissipate by dilution with fresh water. 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 **NewPAC** with **DynaPlex** for fluid loss control Lower API filtrate to 6-8 cc's with additions of **NewPAC** and **DynaPlex**.
- 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 **DynaPlug** 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.



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Production Interval

6 1/8" Hole (13,000'-17,725')

Questar
Exploration & Production
RW 34-34 AD
Sec 34-T7S-R22E
Uintah, County Utah

Production Interval Drilling Fluid Properties

| Depth Interval (TVD) | Mud Weight (ppg) | Plastic Viscosity (cp) | Yield Point (lb/100ft ²) | O/W Ratio % | HTHP Fluid Loss (ml/30min) | Excess Lime (PPB) | Electrical Stability (MV) | Low Gravity Solids | CaCl Mg/l Water |
|----------------------|------------------|------------------------|--------------------------------------|-------------|----------------------------|-------------------|---------------------------|--------------------|-----------------|
| 13,000'-17,725' | 15.0-15.5 | 25-35 | 8-10 | 85:15 | 12-15 | 2-4 | 500+ | < 6 | 300K |

Drilling Fluid Recommendations: (13,000'-17,725')

- Displace to a OptiDrill OBM after finishing the liner job at 13,300'.
- 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 seepage 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 | <ul style="list-style-type: none"> • 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 OptiDrill (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 Di-aseal 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 | <ul style="list-style-type: none"> • 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. |



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Production Interval

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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.



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Production Interval
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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 |



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OILFIELD WASTE MANAGEMENT PROPOSAL

For

Questar Market Resources

SOLI-BOND® Processing and Disposal of Drilling Waste

Batch Treatment

Wells: RWU 34-34AD

Section 34

T7S – R22E

Uintah County, Utah

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SOLI-BOND® Processing and Disposal of Drilling Waste
BATCH TREATMENT
QUESTAR • RW 34-27ADR
Uintah County, Utah

OVERVIEW

Soli-Bond, Inc. (SBI) proposes to utilize the SOLI-BOND® Process for the treatment of **Drilling Waste** on the **RW-34-34AD** in Uintah County, Utah, which will be followed by onsite disposal of the processed material.

This proposal will serve to delineate the specifications and criteria for achieving the project objectives as required by **Questar Market Resources** (Client) and the appropriate regulatory entities.

GENERAL DESCRIPTION OF THE SOLI-BOND® PROCESS

The SOLI-BOND® Process involves the controlled addition of a non-toxic, chemically reactive, portland-cement-based reagent or reagents to a waste, followed by the mixing of the reagent with the waste to form homogeneous slurry similar to viscous mortar. Oily substances that may be present in the waste are broken up into small droplets or particles and dispersed throughout the reagent/waste mixture during the mixing phase of the process. After the mixing phase, an irreversible chemical reaction begins to occur between the reagent and water present (or added) in the waste, ultimately causing the reagent/waste mixture to be transformed into a solid granular material with a “soil-like” consistency, typically within 48 hours after processing. Any dispersed particles of oily substances within the processed material are *physically* locked in place or “micro-encapsulated” in their isolated state inside the reacted cementitious matrix, preventing them from re-coalescing and suddenly being released to the environment at significant rates. The same irreversible reaction *chemically* stabilizes various metals that may be present in the waste, primarily by transforming them into less soluble metal hydroxides and other chemical species, thus greatly reducing their mobility and availability to the surrounding environment as well. In summary The SOLI-BOND® Process reduces the leaching rate of target constituents of concern from a waste form to such a degree that they can no longer cause harm to health or the environment. The SOLI-BOND® Process is a waste treatment method more generally known as Solidification/Stabilization (S/S). S/S has been recognized and prescribed by the United States Environmental Protection Agency for many years as an effective technology for the treatment of waste containing various metals as well as non-volatile and semi-volatile organic substances.

INNOCUOUS WASTE APPLICATIONS

The SOLI-BOND® Process can also be applied to solidify innocuous oilfield wastes such as spent water based drilling fluids and physically unstable water based drill cuttings to avoid the increased difficulties typically associated with the disposal of liquid or semi-solid wastes. Irreversibly transforming the *physical* properties of an innocuous waste, from a liquid or semi-solid state that’s structurally unstable, into a solid, granular material with load bearing capability, can be the sole reason for using The SOLI-BOND® Process. In addition, the chemically driven transformation into a dry solid occurs quickly, with minimal volume addition and the process can accommodate waste with high fluid content. For oilfield waste pit applications, the process provides more rapid solidification of the pit contents, more room for the prescribed depth of soil cover and can greatly reduce the waiting period for the pit contents to dry sufficiently for pit closure as opposed to that required for conventional closure methods.

SOLI-BOND® Processing and Disposal of Drilling Waste
BATCH TREATMENT
QUESTAR • RW 34-27ADR
Uintah County, Utah

SITE AND APPLICATION DESCRIPTION

The subject work site is an area constructed for the drilling and production of the gas well covered in this proposal. The well plan contemplates the use of an oilbase drilling fluid during the drilling of the production section of the well. As this section of the well is drilled, cuttings will be generated, transported to the surface within the drilling fluid, then mechanically separated from the drilling fluid as waste. These separated cuttings are expected to contain elevated levels of adhered/absorbed hydrocarbons due to their prior contact with the oilbase drilling fluid. These “oilbase cuttings” will be collected in steel catch tanks provided by the Client as drilling progresses and then placed in the separate oil base cuttings pit.

In addition to the “oilbase cuttings” described above, oily waste fluids and sediments may be generated at the work site during drilling operations and after drilling is completed the drilling fluid containment system will be cleaned thus generating some oily cleaning waste as well. It is these oilbase cuttings, waste fluids and sediments and cleaning waste that comprise all the waste to be treated and disposed of under this proposal.

Based on Client information and allowing for well bore washout, decompression/expansion of the drilled cuttings and the adhered/absorbed drilling fluids (“WEF”), the total volume of waste to treat was estimated as follows:

RWU 34-34AD

| | |
|--|----------------------|
| 4,725 feet of 6.125 inch diameter hole x WEF factor of 3: | 517 |
| Estimated additional sediments and cleaning waste: | <u>10,500</u> |
| Total Estimated Barrels of Waste to Treat: | 11,017 |

SBI proposes to apply the SOLI-BOND® Process to the oilbase cuttings and other indicated waste from the well during drilling operations to achieve the following objectives:

- Permanently reduce the leaching rate of target constituents of concern from the treated material to within prescribed limits.
- Irreversibly solidify the physically unstable waste to allow onsite disposal and support of soil cover without subsidence.
- Accomplish treatment with minimal volume addition to minimize disposal cell size and facilitate required minimum space for soil cover.
- Achieve rapid solidification of the waste to allow prompt final disposal.

PRELIMINARY ACTIVITIES

SBI personnel collected a sample of waste similar in characteristics to the waste to be generated on the subject project. The waste sample was used to conduct bench scale SOLI-BOND® processing, which has been carried out to determine effective reagent formulations, reagent/waste mix ratios, pricing and other aspects of this proposal.

OPERATIONAL PLAN

SBI jobsite operations will be conducted as follows:

SOLI-BOND® Processing and Disposal of Drilling Waste
BATCH TREATMENT
QUESTAR • RW 34-27ADR
Uintah County, Utah

- After drilling the oilbase section of the well, SBI will install the SOLI-BOND® Waste Processing System at the well site. The “oilbase cuttings” will be treated “in-situ” in the existing lined pit.
- SBI will mobilize personnel to the jobsite to process the waste that has accumulated in the lined oil base cuttings pit.
- Upon arrival at the jobsite, the SBI Site Foreman will conduct a Jobsite Safety Assessment with SBI crew, discussing all potential jobsite safety hazards, required personal safety gear and accident avoidance and conduct safety meetings with SBI crew prior to each day’s work throughout the project.
- SBI and Client Representative will verify the volume of waste to treat in each batch prior to process operations.
- SBI crew will then process the waste with the SOLI-BOND® Waste Processing System.
- Waste processing will be performed during eight (8) hour daylight shifts. After daily onsite process operations are completed SBI personnel will prepare a SBI field ticket for Client Representative signature, indicating the volume of waste processed (in barrels).
- Components of The SOLI-BOND® Waste Processing System may remain at the jobsite until all waste to treat has been processed.
- After all waste is processed from the well, a composite sample of the processed material will be collected for laboratory analysis to verify that it complies with criteria under the section herein entitled “Performance Criteria.”
- SBI will utilize the existing lined pit as an on-site disposal cell sized to accommodate the processed oilbase cuttings and four (4) feet of soil cover after final reclamation of the drill site. Client has provided a plastic liner for the disposal cell, including installation. After achievement of performance criteria is verified, SBI will backfill the cell to the adjacent surface elevation thus constituting final disposal of the processed material. SBI will then demobilize equipment and personnel thus concluding SBI’s onsite operations.
- A SBI Waste Treatment and Disposal Report suitable for submittal to the appropriate regulatory agencies will then be prepared documenting all pertinent aspects of the project and will be submitted to the Client.

PERFORMANCE CRITERIA

The treated waste will comply with the following criteria:

1. Leachable Oil and Grease less than 10 mg/L.
2. Leachable Total Dissolved Solids to be less than 5000 mg/L and/or leachable salts below acceptable site-specific guidelines.

Compliance with the performance criteria will be certified by an accredited testing laboratory utilizing the appropriate tests as prescribed and will be documented in a final report submitted to Client and the appropriate regulatory agencies as required.

SCHEDULE (All time/days are estimates and may change due to jobsite conditions)

SOLI-BOND® Processing and Disposal of Drilling Waste
BATCH TREATMENT
 QUESTAR • RW 34-27ADR
 Uintah County, Utah

| ITEM / SERVICE (Based on estimated 11,017 total barrels of waste to process) | ESTIMATED DAYS |
|---|-------------------|
| Mobilization And Setup | 1 |
| Estimated SOLI-BOND® PWD Waste Processing System Rental Days | 15 |
| Process Material, Backfill Cell | 12 |
| Takedown and Demobilization | 1 |

ITEMS FURNISHED with SOLI-BOND® PWD Waste Processing System

Equipment

- SB-2-7 Processor
- SOLI-BOND® Reagent Storage Silo w/ Discharge Auger
- Back Hoe Loader
- Ancillary Equipment
- First Aid and Safety Equipment
- SBI Crew Transportation

Personnel

- *SBI Site Foreman*
- *SBI Operator Material*
- Fuel necessary to operate Soli-Bond’s motorized equipment.

Miscellaneous

- SBI Equipment Cleaning.
- One Laboratory Analysis of Processed Material. (for parameters indicated herein)
- SBI Waste Treatment and Disposal Report.

CLIENT RESPONSIBILITY

- Client will provide SBI with a written work order or other Client recognized document to contract SBI to perform the work as described herein.
- Client will provide SBI with a list of any Client requirements related to performing and being compensated for the work described herein.
- Client will provide “all weather” ingress and egress to the site.
- Client will provide process add-mix water.
- Client agrees that delays or interruptions in SBI’s work described herein caused by “Acts of Nature” or events under the responsibility of the Client or Client contractors (excluding SBI and it’s contractors) may result in additional charges to Client.

QUESTAR EXPLR. & PROD.

RW #34-34 AD

LOCATED IN UINTAH COUNTY, UTAH
SECTION 34, T7S, R22E, S1.B.&M.

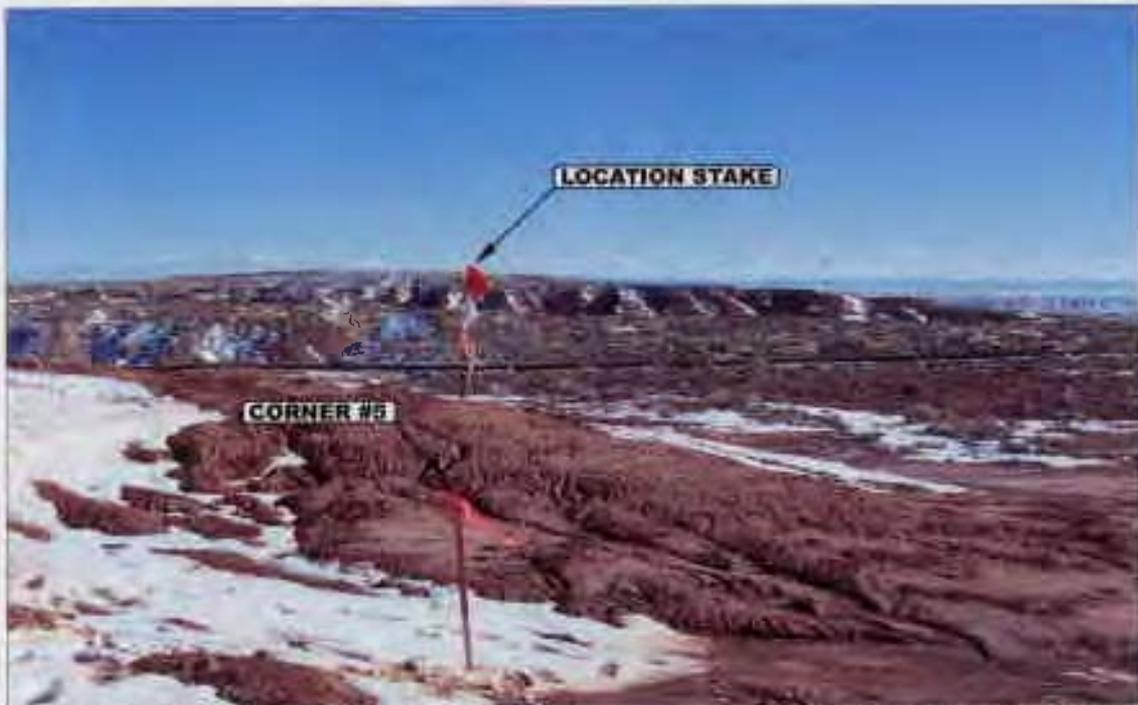


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY

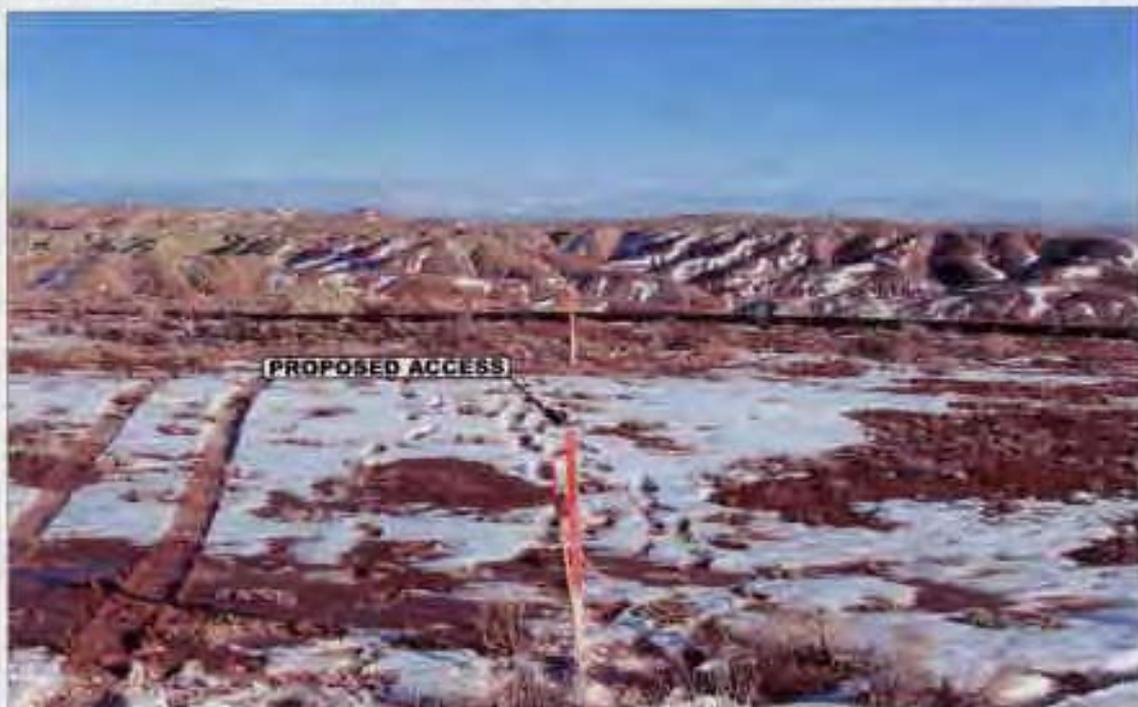


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: EASTERLY



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

LOCATION PHOTOS

12 10 04
MONTH DAY YEAR

PHOTO

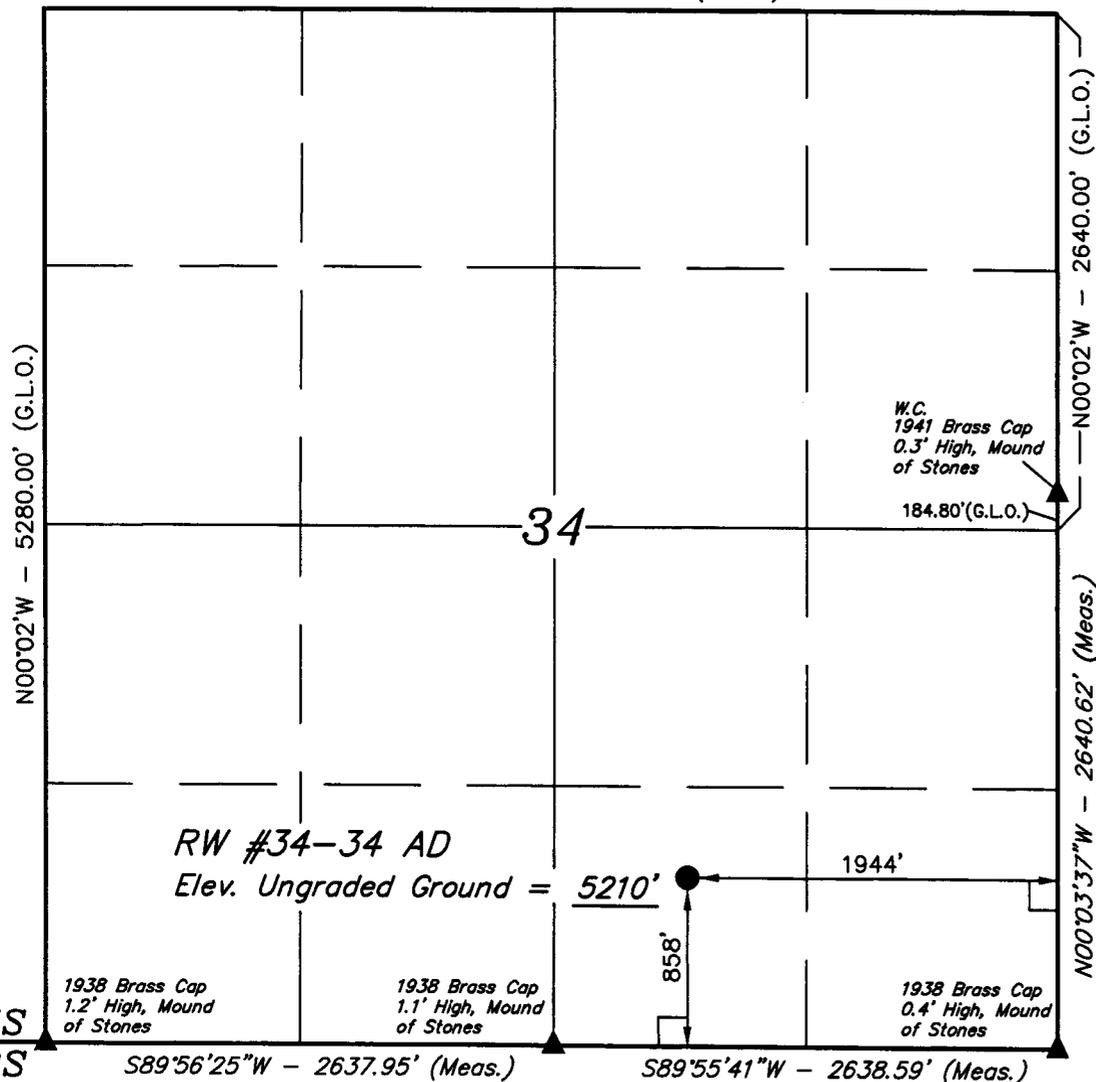
TAKEN BY: D.A. | DRAWN BY: L.K. | REV C.C.: 08-31-07

T7S, R22E, S.L.B.&M.

QUESTAR EXPLR. & PROD.

Well location, RW #34-34 AD, located as shown in the SW 1/4 SE 1/4 of Section 34, T7S, R22E, S.L.B.&M. Uintah County, Utah

S89°55'W - 5253.60' (G.L.O.)

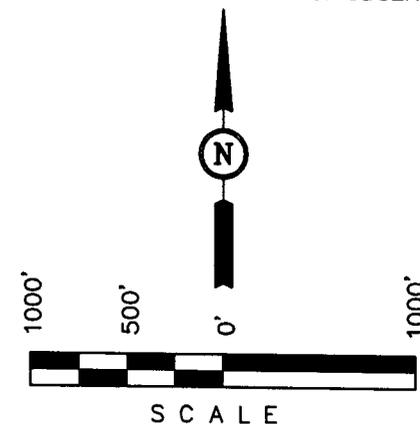


BASIS OF ELEVATION

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.

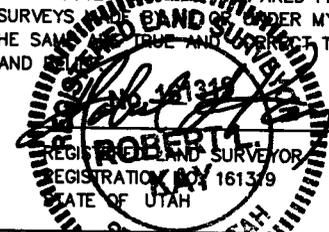
BASIS OF BEARINGS

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 AND UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



REVISED: 08-28-07 S.L.

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

LEGEND:

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

(NAD 83)
 LATITUDE = 40°09'47.18" (40.163106)
 LONGITUDE = 109°25'25.00" (109.423611)
 (NAD 27)
 LATITUDE = 40°09'47.31" (40.163142)
 LONGITUDE = 109°25'22.53" (109.422925)

| | | |
|---------------------------|--------------------------------|-------------------------|
| SCALE 1" = 1000' | DATE SURVEYED: 12-13-04 | DATE DRAWN: 01-03-05 |
| PARTY D.A. T.C. D.R.B. | REFERENCES G.L.O. PLAT | |
| WEATHER COLD | FILE QUESTAR EXPLR. & PROD. | |

QUESTAR EXPLR. & PROD.

FIGURE #1

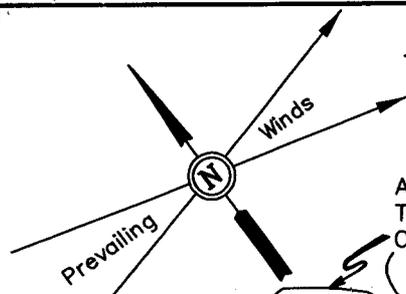
LOCATION LAYOUT FOR

RW #34-34 AD

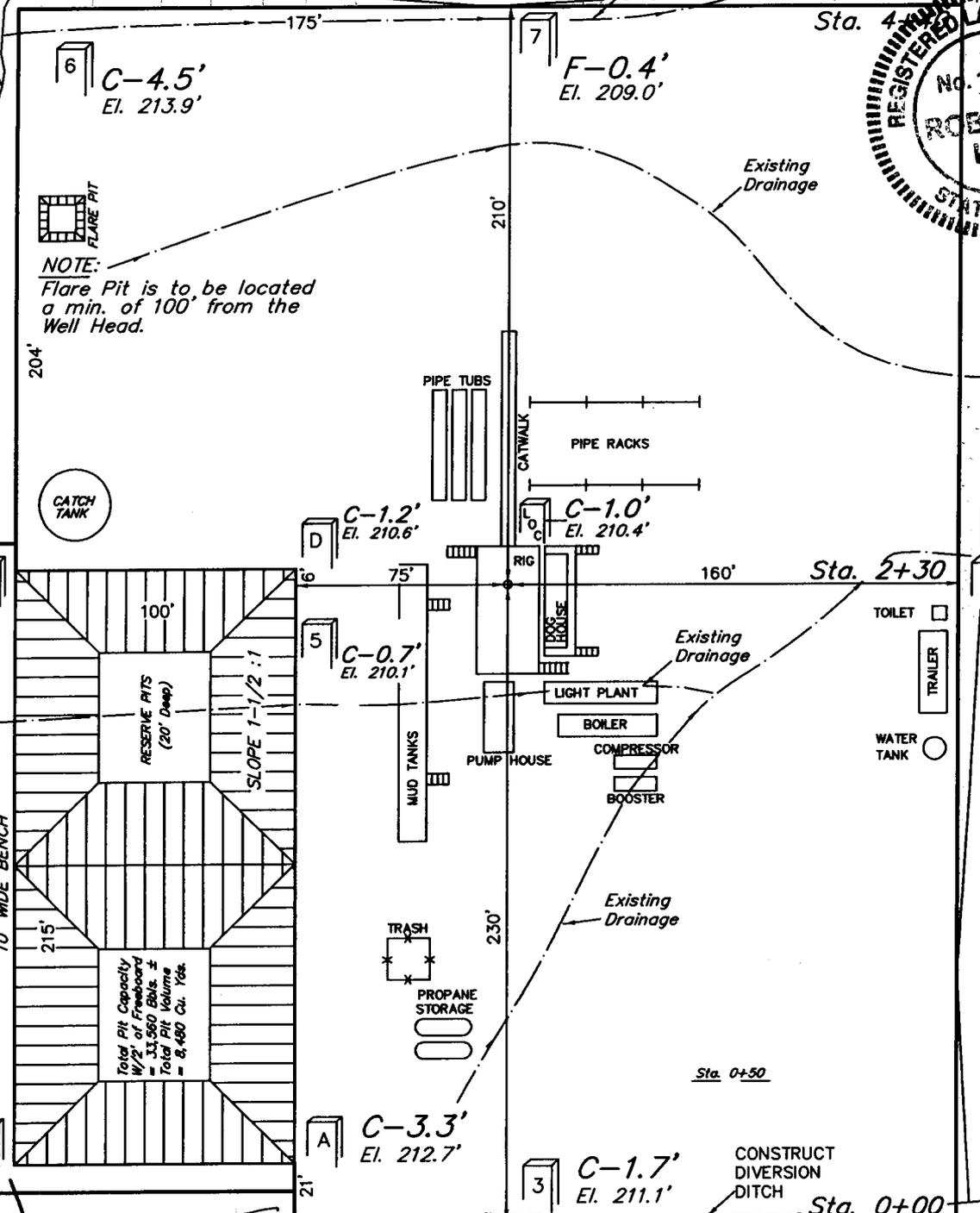
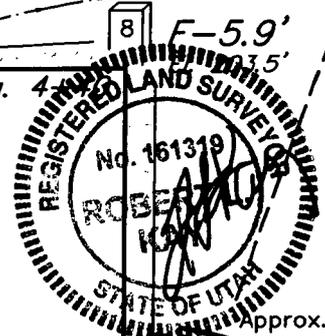
SECTION 34, T7S, R22E, S.L.B.&M.

SCALE: 1" = 60'
DATE: 08-28-07
Drawn By: S.L.

Approx. Top of Cut Slope 858' FSL 1944' FEL



Topsoil Stockpile CONSTRUCT DIVERSION DITCH



EI. 217.9'
C-28.5'
(Btm. Pit)

EI. 226.1'
C-36.7'
(Btm. Pit)

C-3.3'
EI. 212.7'

C-3.1'
EI. 212.5'

F-5.6'
EI. 203.8'

C-3.5'
EI. 212.9'

F-0.4'
EI. 209.0'

C-1.2'
EI. 210.6'

C-1.0'
EI. 210.4'

C-0.7'
EI. 210.1'

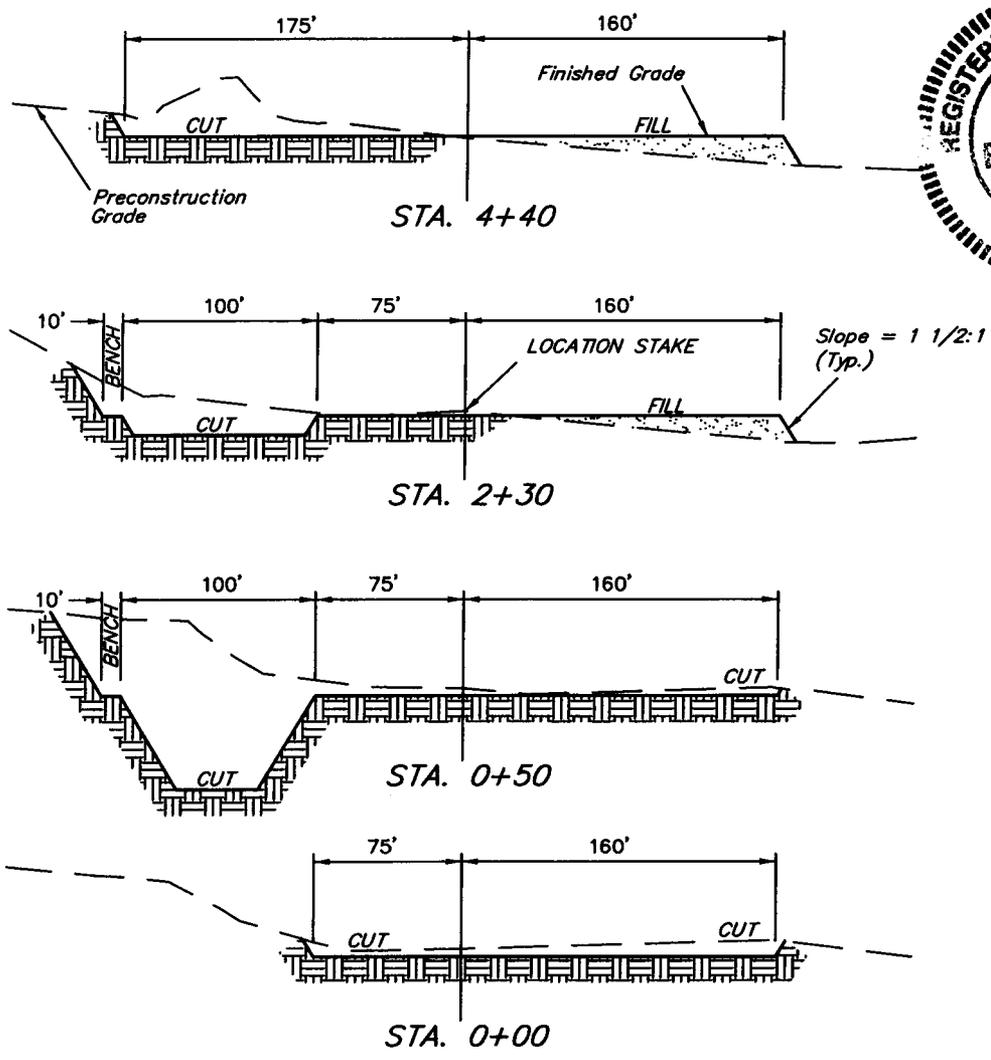
C-1.7'
EI. 211.1'

NOTES:
Elev. Ungraded Ground At Loc. Stake = 5210.4'
FINISHED GRADE ELEV. AT LOC. STAKE = 5209.4'

QUESTAR EXPLR. & PROD.
TYPICAL CROSS SECTIONS FOR
RW #34-34 AD
SECTION 34, T7S, R22E, S.L.B.&M.
858' FSL 1944' FEL

/ **FIGURE #2** /

1" = 20'
 X-Section Scale
 1" = 50'
 DATE: 08-28-07
 Drawn By: S.L.



APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ±3.783 ACRES
 PROPOSED ROSD = ±0.413 ACRES

 TOTAL = ±4.196 ACRES

* NOTE:
 FILL QUANTITY INCLUDES
 5% FOR COMPACTION

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

APPROXIMATE YARDAGES

CUT
 (6") Topsoil Stripping = 3,170 Cu. Yds.
 Remaining Location = 20,980 Cu. Yds.

 TOTAL CUT = 24,150 CU.YDS.
 FILL = 6,440 CU.YDS.

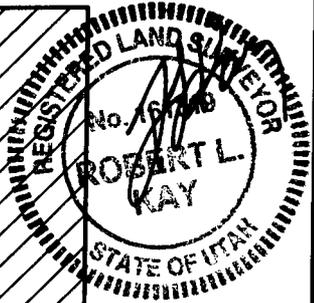
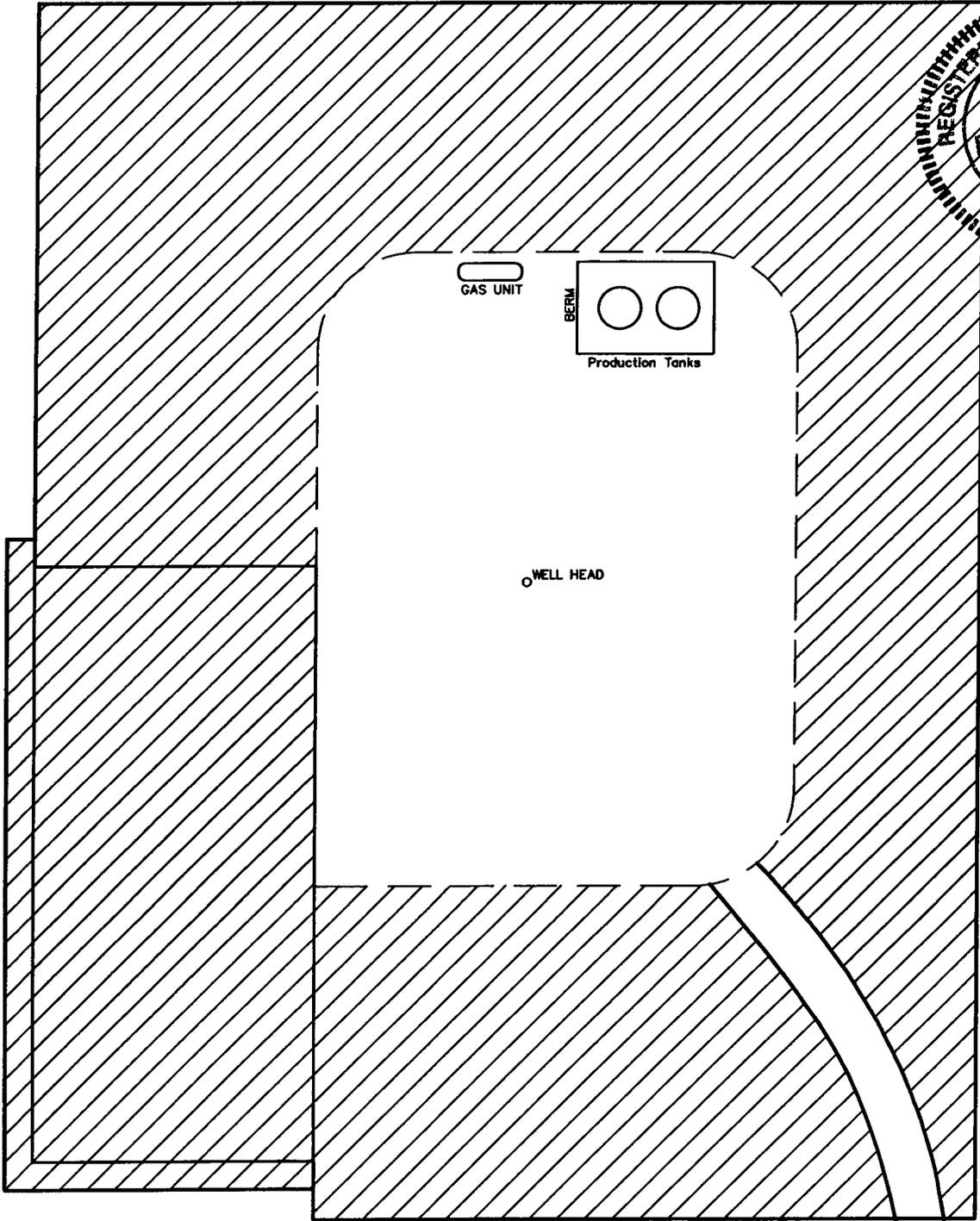
EXCESS MATERIAL = 17,710 Cu. Yds.
 Topsoil & Pit Backfill = 7,410 Cu. Yds.
 (1/2 Pit Vol.)
 EXCESS UNBALANCE = 10,300 Cu. Yds.
 (After Interim Rehabilitation)

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

QUESTAR EXPLR. & PROD.
INTERIM RECLAMATION PLAN FOR
RW #34-34 AD
SECTION 34, T7S, R22E, S.L.B.&M.
858' FSL 1944' FEL

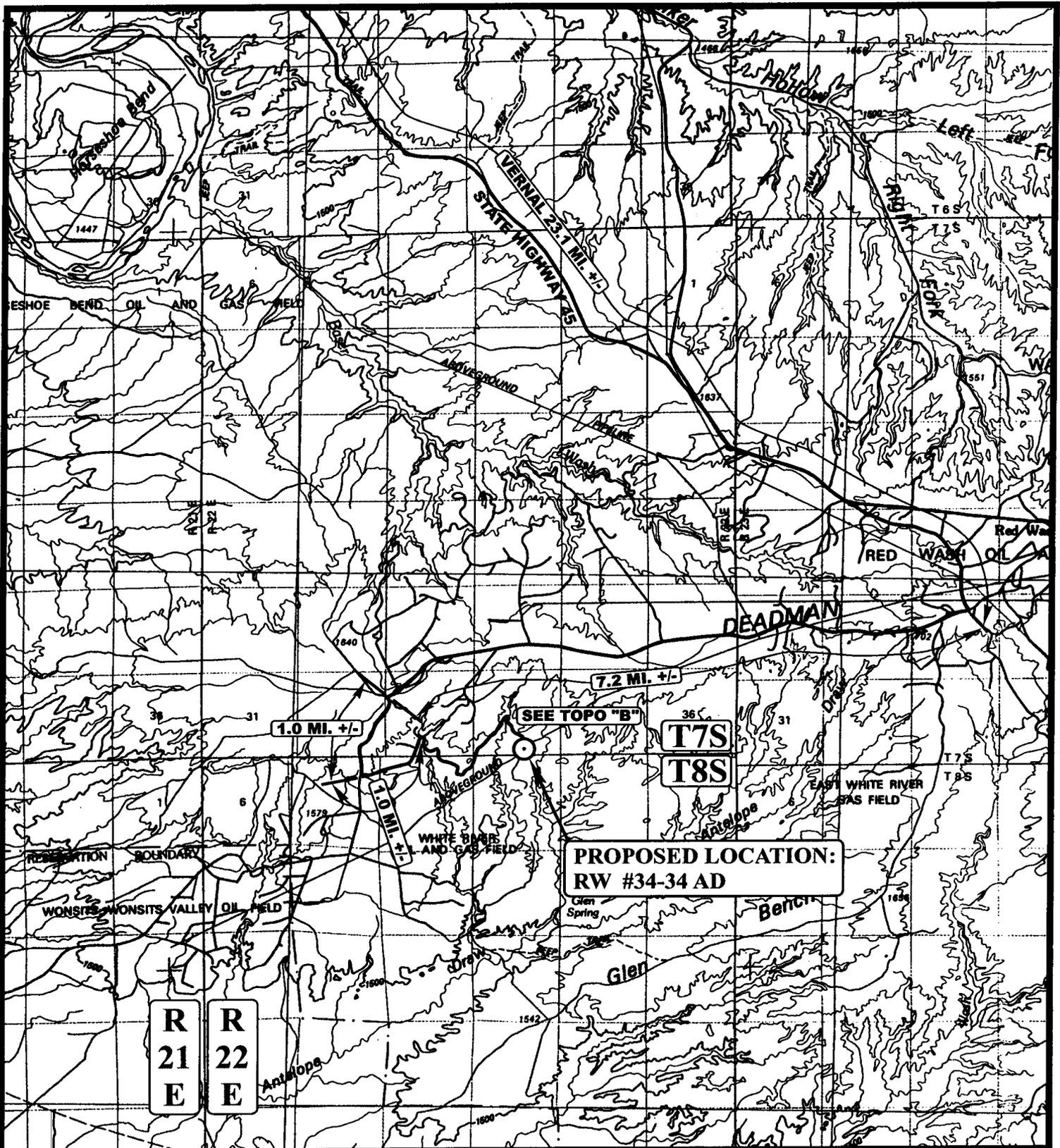
FIGURE #3

SCALE: 1" = 60'
DATE: 08-28-07
Drawn By: S.L.



 INTERIM RECLAMATION

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



LEGEND:

○ PROPOSED LOCATION

QUESTAR EXPLR. & PROD.

RW #34-34 AD
 SECTION 34, T7S, R22E, S.L.B.&M.
 858' FSL 1944' FEL

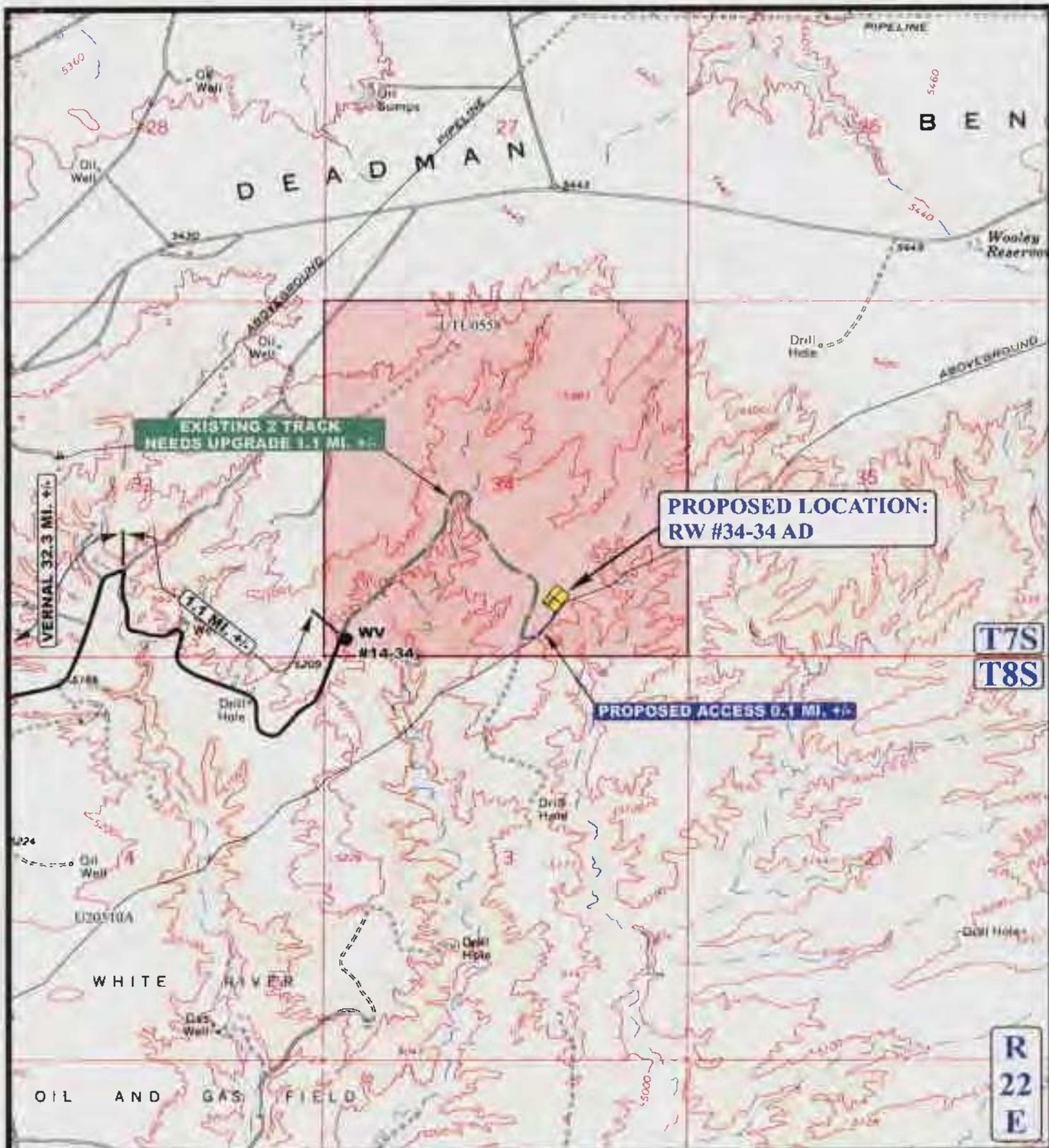


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 (435) 789-1017 * FAX (435) 789-1813



| | | | |
|------------------|----------------|-----|--------------------|
| TOPOGRAPHIC | 12 | 10 | 04 |
| MAP | MONTH | DAY | YEAR |
| SCALE: 1:100,000 | DRAWN BY: L.K. | | REV C.C.: 08-31-07 |





LEGEND:

- EXISTING ROAD
- PROPOSED ACCESS ROAD
- EXISTING 2 TRACK NEEDING UPGRADE

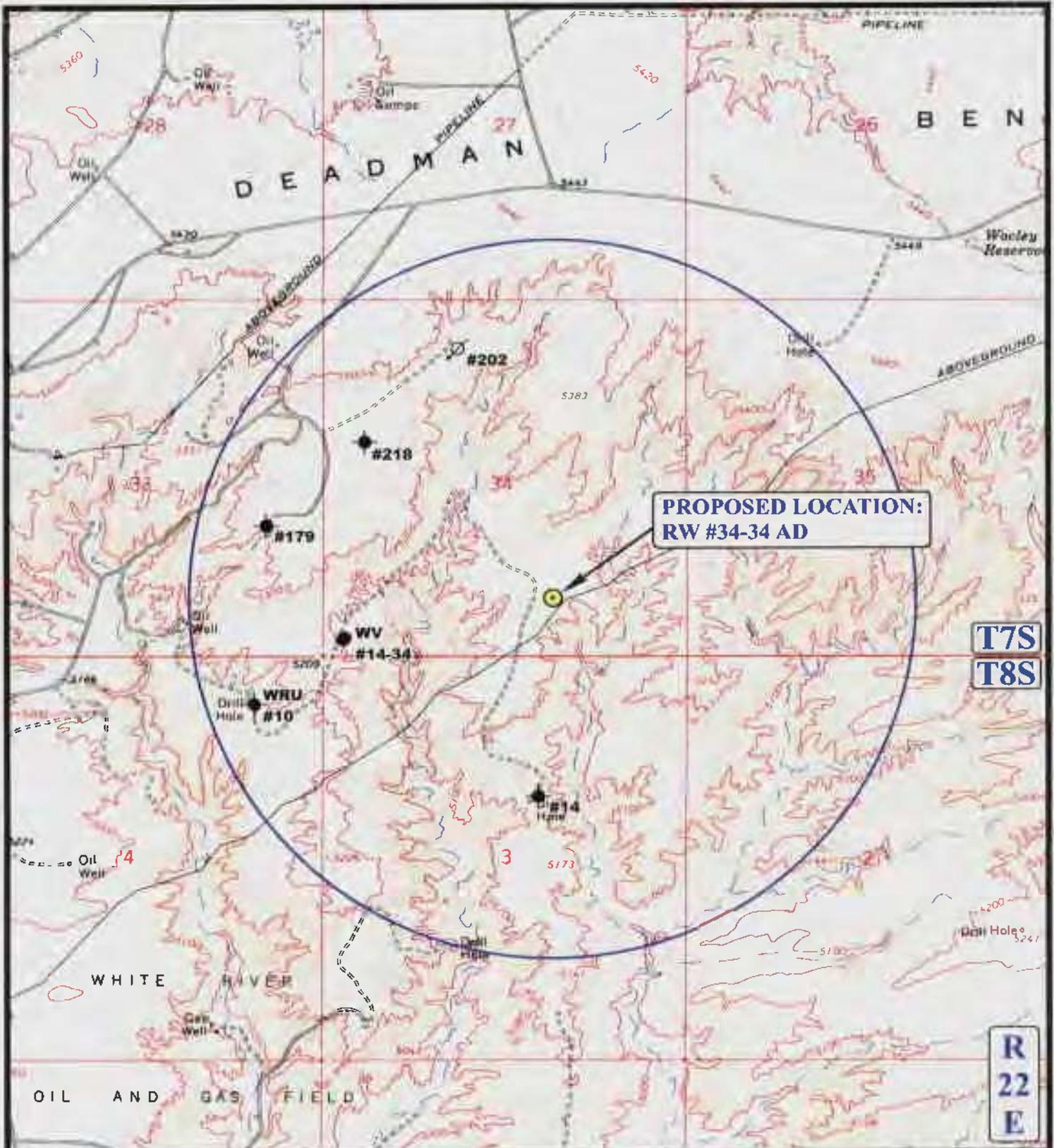
QUESTAR EXPLR. & PROD.

RW #34-34 AD
SECTION 34, T7S, R22E, S.L.B.&M.
858' FSL 1944' FEL

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



TOPOGRAPHIC MAP **12 10 04**
 MONTH DAY YEAR
 SCALE: 1" = 2000' DRAWN BY: L.K. REV C.C.: 08-31-07 **B TOPO**



**PROPOSED LOCATION:
RW #34-34 AD**

**T7S
T8S**

**R
22
E**

LEGEND:

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



QUESTAR EXPLR. & PROD.

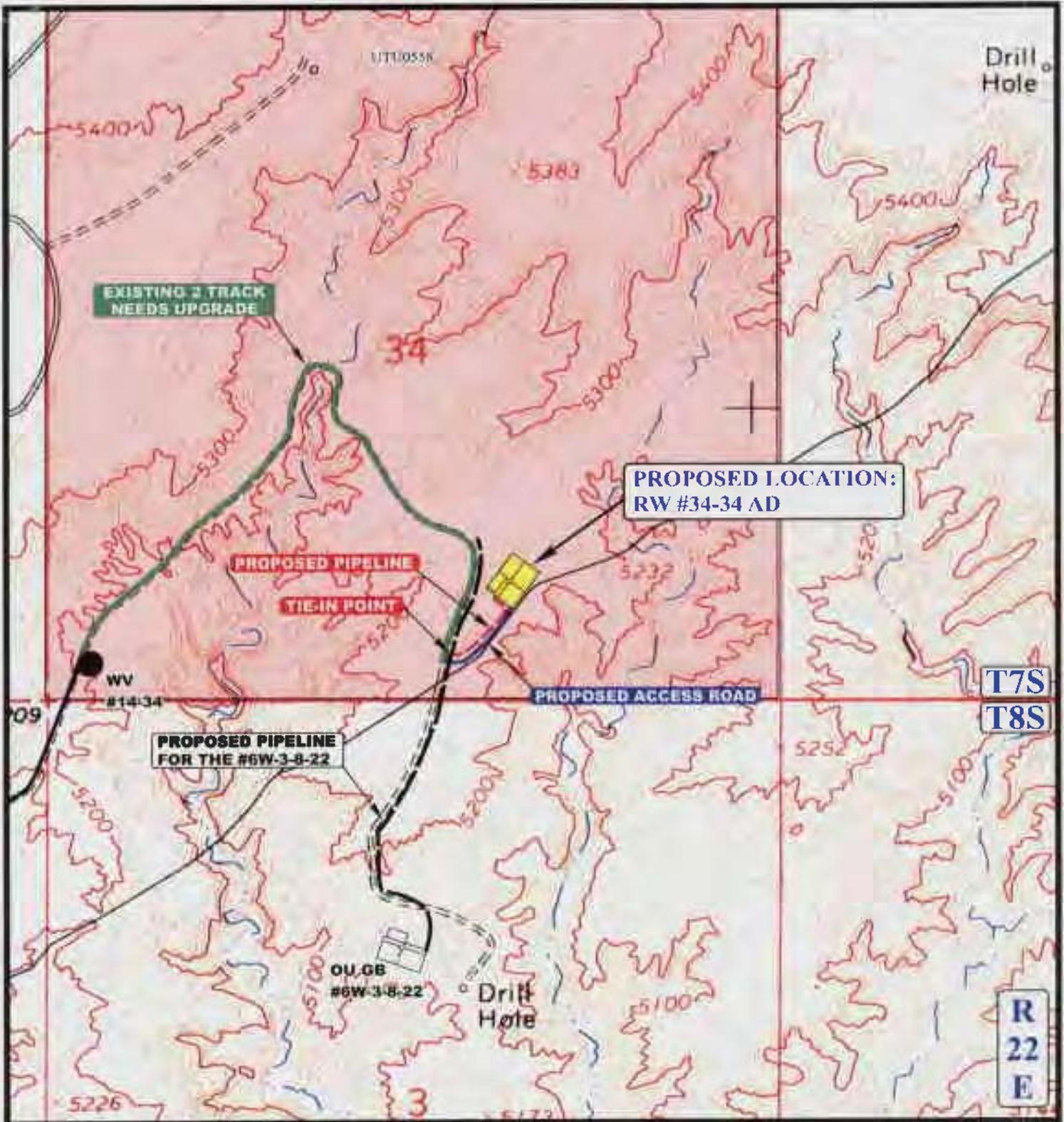
**RW #34-34 AD
SECTION 34, T7S, R22E, S.L.B.&M.
858' FSL 1944' FEL**



Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
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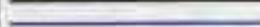
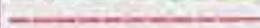
TOPOGRAPHIC MAP 12 10 04
MONTH DAY YEAR
SCALE: 1" = 2000' DRAWN BY: L.K. REV C.C.: 08-31-07





APPROXIMATE TOTAL PIPELINE DISTANCE = 724' +/-

LEGEND:

-  PROPOSED ACCESS ROAD
-  EXISTING PIPELINE
-  PROPOSED PIPELINE

QUESTAR EXPLR. & PROD.

RW #34-34 AD
SECTION 34, T7S, R22E, S.I.B.&M.
858' FSL 1944' FEL



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

TOPOGRAPHIC MAP 12 10 04
MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: L.K. REV C.C.: 08-31-07



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Serial No.

UTU-0558

6. If Indian, Allottee or Tribe Name

N/A

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

RED WASH UNIT

8. Well Name and No.

RW 34-34AD

9. API Well No.

43-047-36351

10. Field and Pool, or Exploratory Area

UNDESIGNATED

11. County or Parish, State

UINTAH

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

QUESTAR EXPLORATION & PRODUCTION, CO.

3a. Address

11002 E. 17500 S. VERNAL, UT 84078

3b. Phone No. (include area code)

435-781-4331

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

858' FSL 1944' FEL SWSE SECTION 34, T7S, R22E

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|--|--|---|--|---|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input type="checkbox"/> Other _____ |
| | <input checked="" type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | |
| | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | |

13. Describe Proposed or Completed 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 recomplate 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 PLAN THAT WAS APPROVED ON SEPTEMBER 13, 2007. THE MAJOR CHANGES ARE AS FOLLOWS.

ELIMINATE THE 7" LINER AND RUN 7" CASING BACK TO SURFACE
CHANGE THE HOLE SIZE FROM 11" FOR THE 9 5/8" CASING TO 12- 1/4"
CHANGE BOTTOM HOLE PRESSURE TO 11,000 PSI.

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

ATTACHED IS A REVISED DRILLING PLAN AND WELLBORE DIAGRAM.

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

Name (Printed/Typed)

Jan Nelson

Signature

Title

Regulatory Affairs

Date

November 2, 2007

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

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

NOV 05 2007

DRILLING PROGRAM

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

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

1. **Formation Tops**

The estimated tops of important geologic markers are as follows:

| <u>Formation</u> | <u>Depth</u> |
|------------------|--------------|
| Uinta | Surface |
| Green River | 3,276' |
| Wasatch | 6,526' |
| Mesaverde | 9,276' |
| Sego | 11,601' |
| Castlegate | 11,756' |
| Blackhawk | 12,111' |
| Mancos Shale | 12,570' |
| Mancos B | 12,985' |
| Frontier | 15,866' |
| Dakota Silt | 16,778' |
| Dakota | 16,988' |
| Morrison | 17,478' |
| TD | 17,725' |

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

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

| <u>Substance</u> | <u>Formation</u> | <u>Depth</u> |
|------------------|------------------|--------------|
| Gas | Wasatch | 6,526' |
| Gas | Mesaverde | 9,276' |
| Gas | Blackhawk | 12,111' |
| Gas | Mancos Shale | 12,570' |
| Gas | Mancos B | 12,985' |
| Gas | Dakota | 16,988' |

DRILLING PROGRAM

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 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 before 1989 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 7" 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 7" 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.

DRILLING PROGRAM

4. **Casing Design:**

| Hole Size | Csg. Size | Top (MD) | Bottom (MD) | Wt. | Grade | Thread | Cond. |
|-----------|-----------|----------|-------------|---------------|---------|----------|-------|
| 26" | 20" | sfc | 40-60' | Steel | Cond. | None | Used |
| 17-1/2" | 13-3/8" | sfc | 500' | 54.5 | K-55 | STC | New |
| 12-1/4" | 9-5/8" | sfc | 8500' | 47 | HCP-110 | SLIJ II* | New |
| 8-1/2" | 7" | sfc | 9000' | 26 | HCP-110 | LTC | New |
| 8-1/2" | 7" | 9000' | 13,000' | 29* SDrift | HCP-110 | LTC | New |
| 6-1/8" | 4-1/2" | sfc | 13,700' | 15.1 | P-110 | LTC | New |
| 6-1/8" | 4-1/2" | 13,700' | 17,475' | 15.1 | Q-125 | LTC | New |

* Flush Joint

| 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 | 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. |

* Special Drift

MINIMUM DESIGN FACTORS:

COLLAPSE: 1.125
 BURST: 1.10
 TENSION: 1.80

DRILLING PROGRAM

Area Fracture Gradient: 0.9 psi/foot
Maximum anticipated mud weight: 15.4 ppg
Maximum surface treating pressure: 12,500 psi

5. 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. The blooie line shall be at least 6” in diameter and extend at least 100’ from the well bore into the reserve/blooie pit.
- G. Blooie line ignition shall be provided by a continuous pilot (ignited when drilling below 500’).
- H. Compressor shall be tied directly to the blooie line through a manifold.
- I. A mister with a continuous stream of water shall be installed near the end of the blooie lines for dust suppression.

Surface hole will be drilled with air, air/mist, foam, or mud depending on hole conditions. Drilling below surface casing will be with water based drilling fluids consisting primarily of fresh water, bentonite, lignite, caustic, lime, soda ash and polymers. No chromates will be used. Oil based drilling mud will be used to drill the final section of the hole. The water based and oil based drilling system specifics are attached to this APD. Maximum anticipated mud weight is 15.4 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.

6. Testing, logging and coring program

- A. Cores – none anticipated
- B. DST – none anticipated

DRILLING PROGRAM

- C. Logging – Mud logging – 4500' 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.

7. 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% CaCl₂
Slurry wt: 15.6 ppg, slurry yield: 1.20 ft³/sx, slurry volume: 17-1/2" hole + 100% excess.

9-5/8" Intermediate Casing: sfc - 6300' (MD)

Lead Slurry: 0' – 5,900'. 1697 sks (444 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 ft³/sk (unfoamed), Slurry volume: 12-1/4" hole + 35 % excess.

Tail Slurry: 5,900' – 6,300'. 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 ft³/sk, Slurry volume: 12-1/4" hole + 35% excess.

7" Intermediate Casing: sfc - 13,000' (MD)

Foamed Lead Slurry 2: 5,500' – 13,000'. 748 sks (1189 cu ft) 50/50 Poz Premium + 20% SSA-1 + 3 % silicalite compacted + 3% Silicalite Compacted + 0.5% Halad 344 + 0.2% Halad 413 + 0.1% HR-12 + 0.7% Super CBL + 0.2% Suspend Slurry wt: 14.0 ppg., Slurry yield: 1.59 ft³/sk, Slurry volume: 8-1/2" hole + 25% excess.

4-1/2" Production Casing: sfc - 17,725' (MD)

Lead/Tail Slurry: 6,700 - 17,725'. 941 sks (1402 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 ft³/sk, Slurry volume: 6-1/8" hole + 35% in open hole section.

DRILLING PROGRAM

*Final cement volumes to be calculated from caliper log with an attempt to be made to circulate cement to the surface on the intermediate string and 5,000' 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.

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 11,000 psi based on P* pressure data from wells completed in the Dakota. Maximum anticipated bottom hole temperature is 305° F. A mud weight of 15 ppg is anticipated to be required based on hole stability.

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

DRILLING PROGRAM

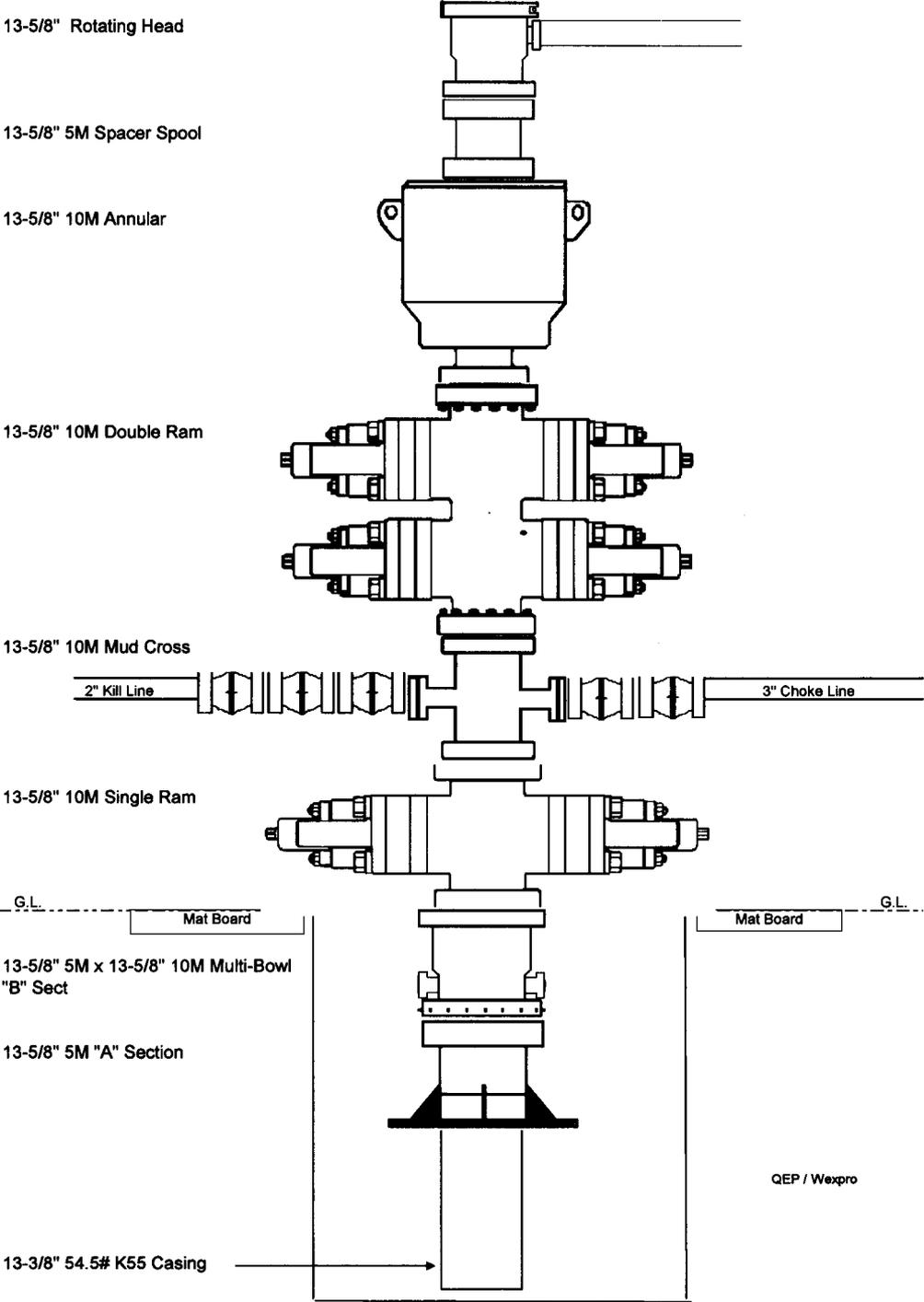
cleaner and/or centrifuge. These separated cuttings will be collected in a steel catch tank once they leave the closed circulating system and transported and placed into the cuttings half of the reserve pit.

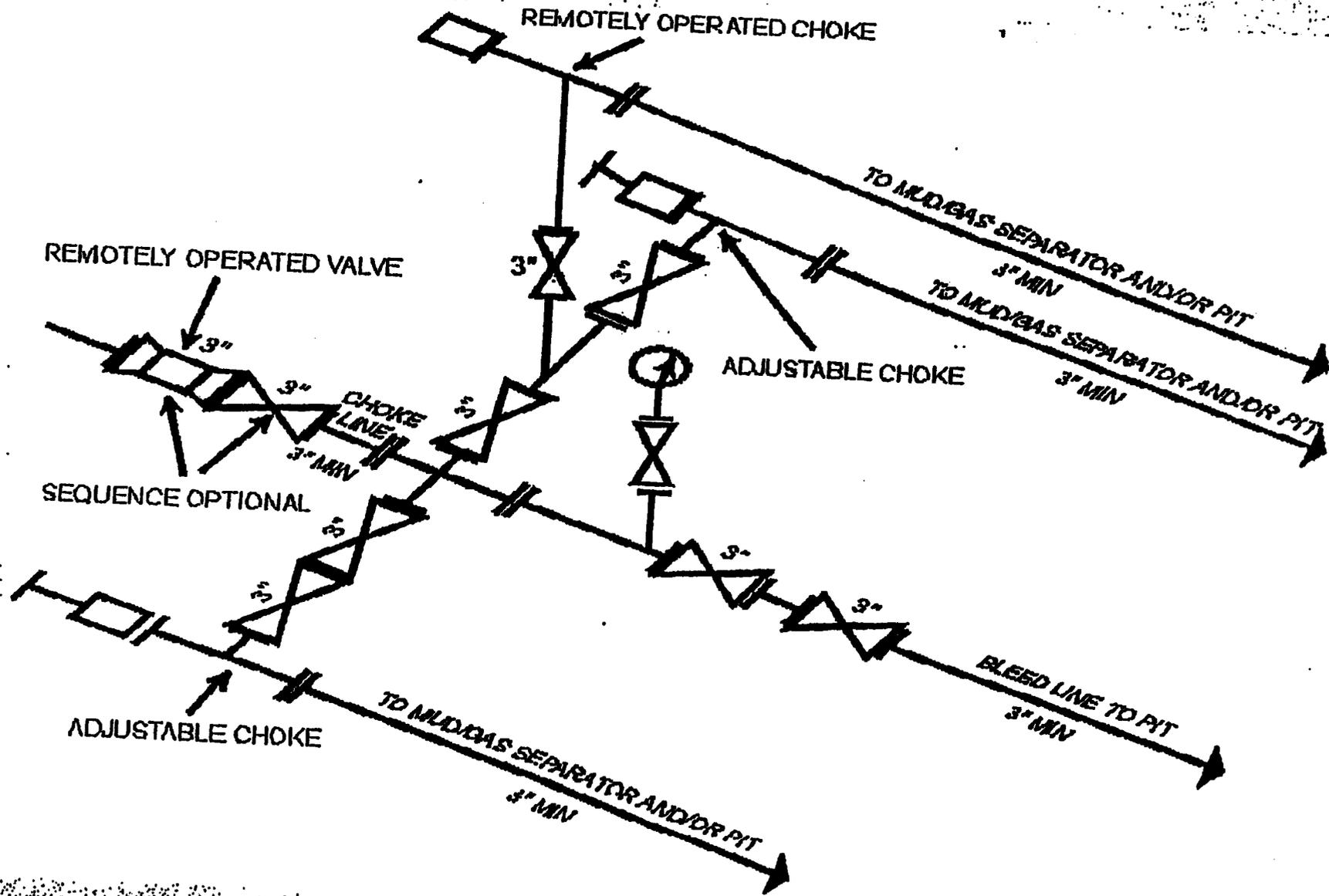
- C.** Plastic material will underlay the rig, oil base mud/diesel storage tanks and mud pits. All tanks on location will be placed inside of berms. Any oily waste fluids and sediments generated at the work site during drilling operations or when cleaning the fluid containment system after drilling will 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
RW 34-34AD

DRILLING PROGRAM

BOP Requirements:

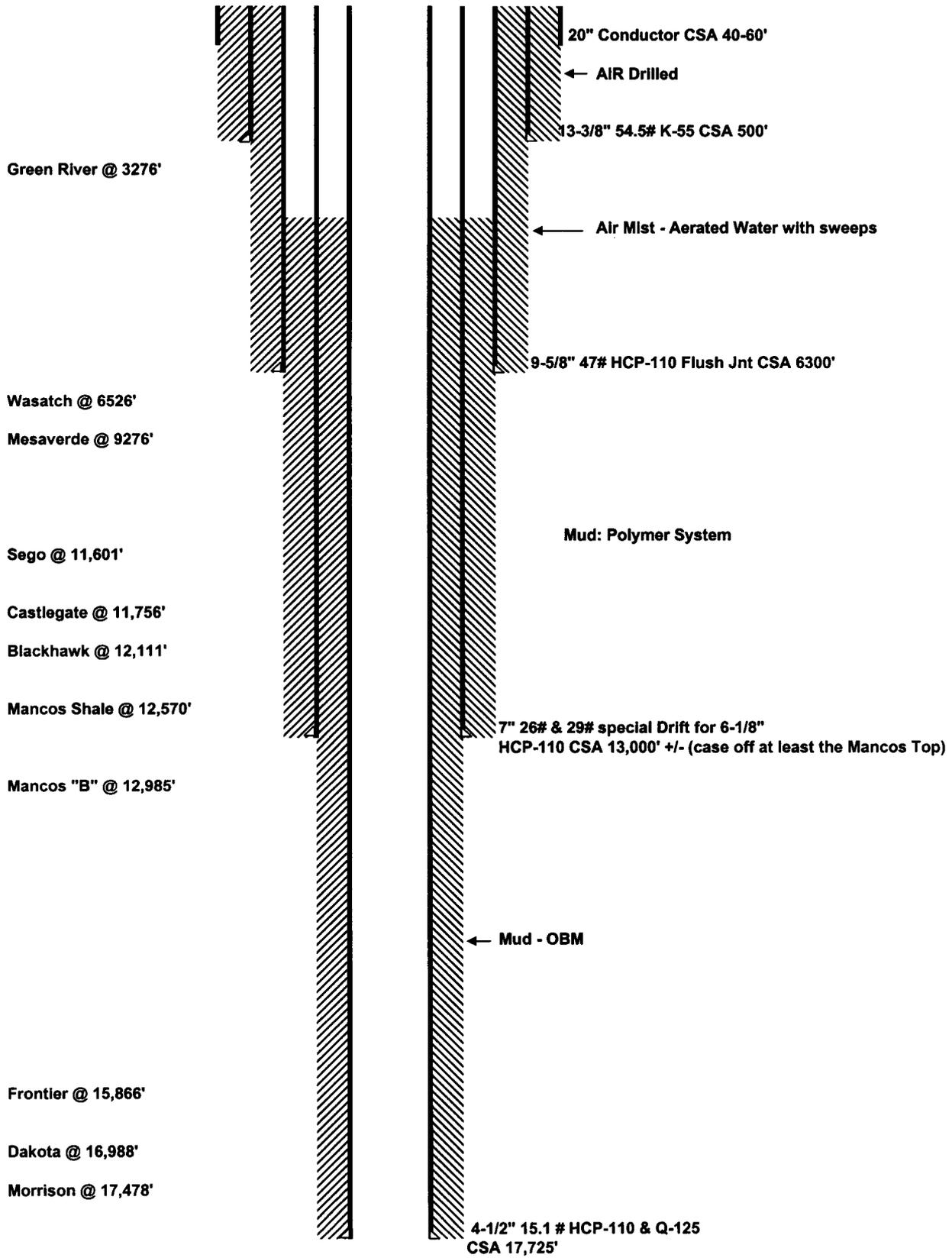




I-4 10M and 15M Choke Manifold Equipment -- Configuration of chokes may vary

[34 PR 39528, Sept. 27, 1969]

RW 34-34 AD



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

5. Lease Serial No.
UTU-0558

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
QUESTAR EXPLORATION & PRODUCTION, CO.

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
858' FSL 1944' FEL SWSE SECTION 34, T7S, R22E

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

8. Well Name and No.
RW 34-34AD

9. API Well No.
43-047-36351

10. Field and Pool, or Exploratory Area
UNDESIGNATED

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 |
|--|--|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize |
| <input type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing |
| <input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Casing Repair |
| | <input checked="" type="checkbox"/> Change Plans |
| | <input type="checkbox"/> Convert to Injection |
| | <input type="checkbox"/> Deepen |
| | <input type="checkbox"/> Fracture Treat |
| | <input type="checkbox"/> New Construction |
| | <input type="checkbox"/> Plug and Abandon |
| | <input type="checkbox"/> Plug Back |
| | <input type="checkbox"/> Production (Start/Resume) |
| | <input type="checkbox"/> Reclamation |
| | <input type="checkbox"/> Recomplete |
| | <input type="checkbox"/> Temporarily Abandon |
| | <input type="checkbox"/> Water Disposal |
| | <input type="checkbox"/> Water Shut-Off |
| | <input type="checkbox"/> Well Integrity |
| | <input type="checkbox"/> Other _____ |

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/BLA. 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 OIL BASE MUD PROGRAM FROM 500' TO 6,300' IN ORDER TO ENHANCE DRILLING EFFICIENCY AND CAPTURE COST SAVINGS.

ATTACHED IS A REVISED DRILLING FLUIDS PROGRAM AND WELLBORE DIAGRAM.

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

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

**RECEIVED
OCT 11 2007**

DIV. OF OIL, GAS & MINING

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

| | |
|---|------------------------------------|
| Name (Printed/Typed) Jan Nelson | Title Regulatory Affairs |
| Signature <i>Jan Nelson</i> | Date October 8, 2007 |

THIS SPACE FOR FEDERAL OR STATE USE

| | | |
|----------------------------------|-------|------|
| Approved by <i>Jan Nelson</i> | Title | Date |
|----------------------------------|-------|------|

| | |
|---|--------|
| Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. | Office |
|---|--------|

Title 18 U.S.C. Section 1001, 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)

CONFIDENTIAL



D R I L L I N G F L U I D S , L L C

**Questar
Exploration &
Production Company**

RW 34-34 AD

Revised 9/28/07

***Sec 34-T7S-R22E
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

September 28, 2007

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

RE: RW 34-34 AD
Sec 34-T7S-R22E
Uintah Co, Utah

Mr. Davidson:

Newpark Drilling Fluids, LP is pleased to present the enclosed revised recommended drilling fluids program for the RW 34-34 AD well to be drilled in Uintah County, Utah. This revised program is for drilling with Air/Water in the 1st intermediate T.D. at 6300 ft, then to +/- 8000 ft depending on hole conditions.

The Surface Interval will be drilled with air to a depth of 500 ft.

For the Intermediate Interval, an optional Air/Mist drilling program is recommended. Offset wells in the area have drilled with air to a depth of 1500-1700 ft +/- or until water intrusions were noted. After changing to Air/Water, due to hole stability problems on offset wells, it is recommended to add KCL to the water for 2-3% KCL and maintain a Potassium Silicate concentration in the water for 0.25-0.50 % Silicate. (Approximately 3 sks per 100 ft drilled).

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 ppg to control. Mud weight at interval T.D. at 6,300' is expected to be in the 8.8-9.0 ppg range.

In the Liner interval, drill out with the Air/Water from the previous interval, continuing additions of KCL, and maintaining 3% through the Wasatch. At 7,500' - 8,000' depending upon hole conditions, begin a mud-up for a KCL/Polymer mud system for properties as outlined in the following program. After drilling into the Mesa Verde, allow the KCL to deplete through dilution allowing the system to convert to a NewPHPA/Polymer system. Mud weight in this interval is expected to be in the 11.2-11.4 ppg range at the 13,000 ft liner interval T.D.

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 65-70 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 facility, 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
RW 34-34 AD
Sec 34-T7S-R22E
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 |
| 3,276' | Green River Mahogany | Air/KCL Water Hole size: 11.0" / Casing: 9 5/8" Flush Joint Drill out with Air, maintaining 2100 +/- cfm. When water is encountered reduce air to +/- 1400 cfm and load the hole with KCL brine at 2-3% KCL. For increased hole stability mix Potassium Silicate for 0.2-0.5% (approximately 3 ske/100 ft.) Pump pre-hydrated NewGel or Flowzan 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. | Air 8.8 | Vis (sec/qt): Water PV (cp): NA YP (#s/100ft ²): NA FL (ml/30 min): NC LGS %: < 1% pH: 10.5-10.8 |
| 6,300' | Intermediate T.D. | Mud weight at T.D. is expected to be in the 8.8-9.0 ppg range | 8.8 | CI (mg/l): 11-15K KCL %: 2.5-3.0 |
| 6,526' 9,276' | Wasatch Mesa Verde | Air/KCL Water Hole size: 8.5" / Liner: 7" Drill out with the fluid from the previous interval, maintaining 2-3% KCL without Silicate additions. | 8.8 | Vis (sec/qt): 40-45 PV (cp): 12-20 |
| 10,500' 11,601' | Sego Bucktongue | NewPHPA/Polymer (7500'-8000') 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. | 10.0 | YP (#s/100ft ²): 10-12 FL (ml/30 min): 6-8 |
| 11,756' 12,111' | Castlegate Blackhawk | 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. | 11.0 | LGS %: 3-5 pH: 10.0-10.5 |
| 12,570' | Mancos Shale | 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. | 11.2 | CI (mg/l): 11-15K |
| 13,000'+/- | Liner T.D. | | 11.2 | KCL %: 0 |
| 12,985' | Mancos B | OptiDrill OBM Hole size: 7.0" / 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 OptiVls RM and OptiVls. | 11.2 | PV (cp): 15-25 YP (lbs/100ft ²): 8-10 HPHT (mls/30 min.): <20 O/W : 80:20 - 85:15 |
| 15,866' | Frontier equiv. Dakota Silt | CO ₂ in the gas stream while drilling under balanced will require additional Lime, emulsifiers and wetting agent | | ES: 500+ |
| 16,988' | Dakota | | | Lime: 2-4 ppb |
| 17,725' | Total Depth | Maintain mud weight as needed for well control. Spot high weight ECD pills for trips, logs, and casing operations. | 15.5 | 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
RW 34-34 AD
Sec 34-T7S-R22E
Uintah, County Utah

DRILLING FLUID PROPERTIES

Surface Hole: Air Drilled

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

Intermediate Hole: Air/KCL Water

| Hole Size (In) | MD (ft) | Mud Weight (ppg) | Plastic Viscosity (cp) | Yield Point (lb/100ft ²) | API Fluid Loss (ml/30min) | KCL (%) | LGS Solids (%) |
|----------------|------------|------------------|------------------------|--------------------------------------|---------------------------|---------|----------------|
| 11" | 500-6,300' | 8.5-8.6 | NA | NA | NA | 2-3 | < 1% |

Liner Interval: NewPHPA

| Hole Size (In) | MD (ft) | Mud Weight (ppg) | Plastic Viscosity (cp) | Yield Point (lb/100ft ²) | API Fluid Loss (ml/30min) | KCL (%) | LGS Solids (%) |
|----------------|----------------|------------------|------------------------|--------------------------------------|---------------------------|---------|----------------|
| 8 1/2" | 6,300'-8,000' | 8.5-8.8 | NA | NA | NC | 3.0 | < 1% |
| 8 1/2 " | 8,000'-13,000' | 11.2-11.4 | 12-18 | 12-15 | 6-8 | 0 | 3-6 |

Production Interval: OptiDrill OBM

| Hole Size (In) | MD (ft) | Mud Weight (ppg) | Plastic Viscosity (cp) | Yield Point (lb/100ft ²) | O/W Ratio (%) | HPHT Fluid Loss (ml/30min) | CaCL (mg/l) X 10,000 | Electrical Stability (mv) | LGS Solids (%) |
|----------------|-----------------|------------------|------------------------|--------------------------------------|---------------|----------------------------|----------------------|---------------------------|----------------|
| 7.0 " | 13,000'-17,725' | 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

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Intermediate Interval

11" Hole (500' - 6,300')

Questar
Exploration & Production
RW 34-34 AD
Sec 34-T7S-R22E
Uintah, County Utah

| 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 | KCL % |
| 500'-1,800' +/- | AIR | NA | NA | NA | NA | NA | NA | NA | 2.0-3.0 |
| 1,800'+/--6,300' | 8.6-8.8 | 27-28 | NA | NA | 10.5-10.8 | NA | <100 | < 1.0 | 2.0-3.0 |

- Drill out with Air/Mist maintaining 3% KCL and 1% Potassium Silicate in the mist water.
- When water is encountered, load the hole with 3% KCL water and begin aerated water drilling.
- While drilling with aerated begin additions FlexFirm ka (Potassium Silicate) for 0.2-0.5% (mix at 3 sks per 100 ft)
- Pump pre-hydrated NewGel sweeps for increased hole cleaning, and 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.
- Offset information indicates the 1st major loss zone to be at +/- 3600 ft.

| <i>Challenges:</i> | <i>Strategies:</i> |
|----------------------------------|---|
| 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, mud up and increase mud weight as needed for control. Treat carbonate contamination with Lime/ Calcium Chloride as needed. |
| 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 | Maintain KCL at 3% and Potassium Silicate at 0.2-0.5% |



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

Intermediate Interval

11" Hole (500' - 6,300')

Questar
Exploration & Production
RW 34-34 AD
Sec 34-T7S-R22E
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.

Fluid Recommendations:

- Drill out cement, float collar and new formation. Test the integrity of the casing seat and squeeze if necessary.
- Drill out with Air/KCL Mist pumping +/- 2400 cfm air.
- When water is encountered, close in pits and begin Aerated water drilling. Bring KCL content to 3% and maintain 0.2-0.5% Potassium Silicate. (Mix 3 sks per 100 ft drilled.)
- 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 3% KCL water 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 **DynaPlug 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 6,300' (intermediate T.D.) short trip, check hole conditions. If hole conditions dictate, add pre-hydrated **New-Gel** 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.



Newpark Drilling Fluids, LP

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

Liner Interval

8 1/2" Hole (6,300' - 13,000')

Questar
Exploration & Production
RW 34-34 AD
Sec 34-T7S-R22E
Uintah, County Utah

| Liner Interval Drilling Fluid Properties | | | | | | | | |
|---|------------------|--------------------|------------------------|--------------------------------------|-----------|---------------------------|-----------------|--------------------|
| Depth Interval (TVD) | Mud Weight (ppg) | Viscosity (sec/qt) | Plastic Viscosity (cp) | Yield Point (lb/100ft ²) | pH | API Fluid Loss (ml/30min) | Hardness (Mg/l) | Low Gravity Solids |
| 6,300'-8,000' | 8.8-9.0 | 27-28 | NA | NA | 10.0-10.5 | NA | 100+ | < 1% |
| 8,000'-13,000' | 11.2-11.4 | 45-50 | 10-18 | 12-14 | 10.0-10.5 | 6-8 | 100+ | 4-6 |

- Drill out with aerated water continuing additions of KCL until mud-up at 7500'-8000'. 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 Liner Interval T.D. is expected to be in the 11.2-11.4 ppg range.

| <i>Challenges:</i> | <i>Strategies:</i> |
|----------------------------------|--|
| 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 DynaPlug 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 ml/30 min. |
| Increase ROP with PDC Bits | Pump 20-40 bbl. Sweeps with NewEase 203 , New100N , DynaDet , and SAPP . (FlexDrill Sweeps) |



Newpark Drilling Fluids, LP

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Liner Interval

8 1/2" Hole (6,300'-13,000')

Questar
Exploration & Production
RW 34-34 AD
Sec 34-T7S-R22E
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 kept as low as practical but increase to 11.2 ppg may be required by Liner TD at 13,000'.

- Loss zones on offset wells were at 9200 ft and 9500 ft.

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.
- Continue drilling with the aerated water from the previous interval until mud up at +/- 7500 ft or as hole conditions dictate. After mud-up allow the KCL to naturally dissipate by dilution with fresh water. 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 **NewPAC** with **DynaPlex** for fluid loss control Lower API filtrate to 6-8 cc's with additions of **NewPAC** and **DynaPlex**.
- 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 **DynaPlug** 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.



Newpark Drilling Fluids, LP

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(303) 623-2205 FAX (720) 904-7970

Production Interval

6 1/8" Hole (13,000'-17,725')

Questar
Exploration & Production
RW 34-34 AD
Sec 34-T7S-R22E
Uintah, County Utah

Production Interval Drilling Fluid Properties

| Depth Interval (TVD) | Mud Weight (ppg) | Plastic Viscosity (cp) | Yield Point (lb/100ft ²) | O/W Ratio % | HTHP Fluid Loss (ml/30min) | Excess Lime (PPB) | Electrical Stability (MV) | Low Gravity Solids | CaCl Mg/l Water |
|----------------------|------------------|------------------------|--------------------------------------|-------------|----------------------------|-------------------|---------------------------|--------------------|-----------------|
| 13,000'-17,725' | 15.0-15.5 | 25-35 | 8-10 | 85:15 | 12-15 | 2-4 | 500+ | < 6 | 300K |

Drilling Fluid Recommendations: (13,000'-17,725')

- Displace to a OptiDrill OBM after finishing the liner job at 13,300'.
- 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 seepage 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 | <ul style="list-style-type: none"> • 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 OptiDrill (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 | <ul style="list-style-type: none"> • 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. |



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Production Interval

6 1/8" Hole (13,000'-17,725')

Questar
Exploration & Production
RW 34-34 AD
Sec 34-T7S-R22E
Uintah, County Utah

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.



Newpark Drilling Fluids, LP

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Production Interval
6 1/8" Hole (13,000'-17,725')

Questar
Exploration & Production
RW 34-34 AD
Sec 34-T7S-R22E
Uintah, County Utah

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

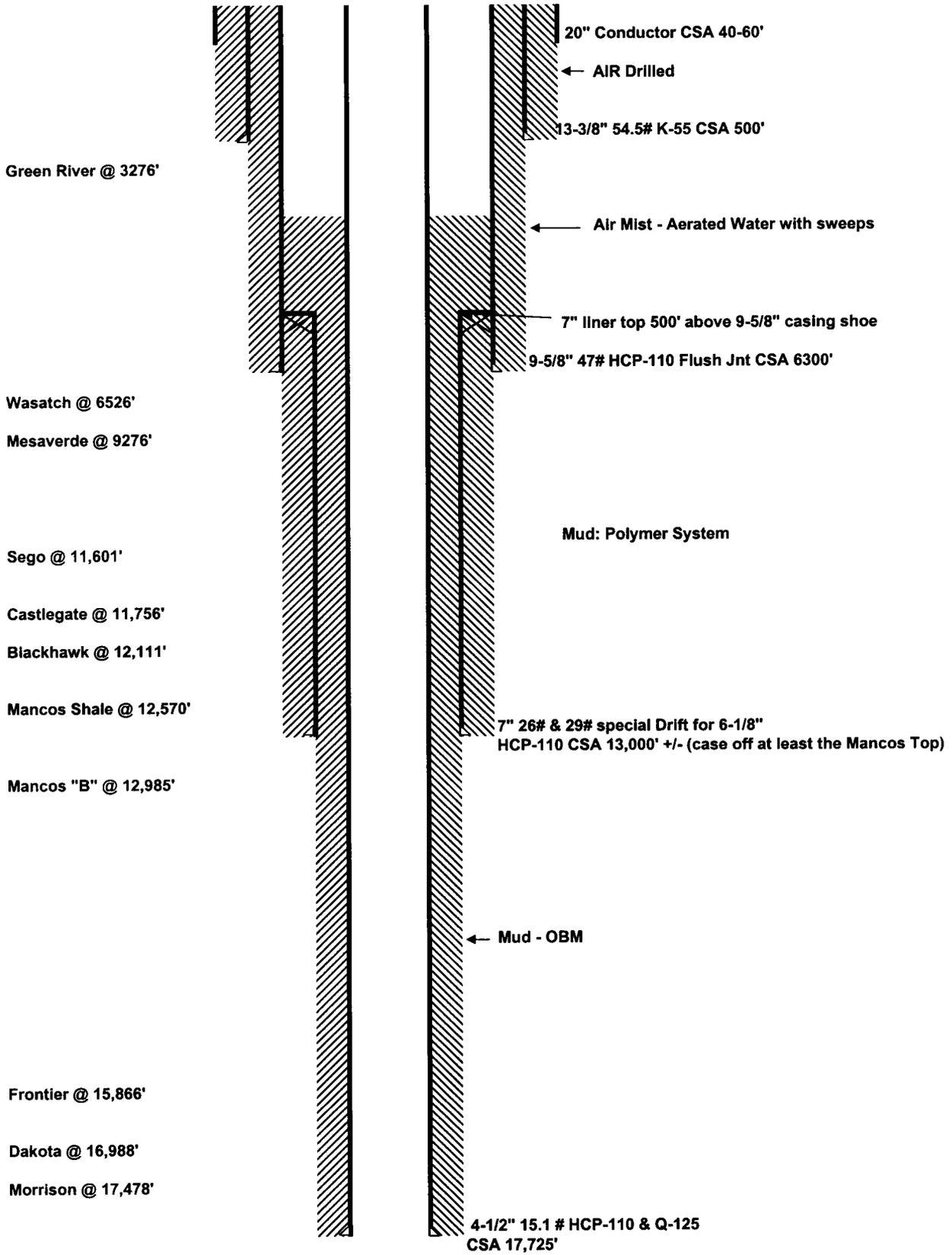
| Product | Function | Concentration |
|-------------------------------|---------------------------------|------------------------|
| NewBar | Weighting material | As needed |
| OptiVis | Organophilic Clay / Viscosifier | 2-4 ppb |
| OptiMul | Primary Emulsifier | 2.0 ppb |
| OptiPlus | Secondary Emulsifier | 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 |



Newpark Drilling Fluids, LP

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RW 34-34 AD



| Well: | | API Number: | Commenced: |
|-------------------|---------------|-------------|------------|
| WV 5W-36-7-21 | drlg rpts/wcr | 4304734099 | 05/29/2003 |
| WV 4D-12-8-21 | drlg rpts/wcr | 4304734268 | 09/26/2003 |
| WV 9W-11-8-21 | drlg rpts/wcr | 4304734274 | 09/26/2003 |
| Brennan 1 | wcr | 4304715417 | 07/19/2003 |
| WV 8W-1-8-21 | drlg rpts/wcr | 4304734009 | 06/16/2003 |
| OU SG 4W-11-8-22 | drlg rpts/wcr | 4304735071 | 06/11/2005 |
| OU SG 5W-11-8-22 | drlg rpts/wcr | 4304735072 | 06/11/2005 |
| OU SG 14W-11-8-22 | drlg rpts/wcr | 4304735114 | 06/16/2005 |
| OU SG 13W-11-8-22 | drlg rpts/wcr | 4304735377 | 06/16/2005 |
| GH 16W-19-8-21 | drlg rpts/wcr | 4304735325 | 06/27/2005 |
| OU GB 8MU 10-8-22 | drlg rpts/wcr | 4304735422 | 03/22/2006 |
| WV 3DML-13-8-21 | drlg rpts/wcr | 4304737923 | 09/27/2006 |
| GB 12SG-29-8-22 | drlg rpts/wcr | 4304738766 | 04/25/2007 |
| GB 4SG-36-8-21 | drlg rpts/wcr | 4304738764 | 05/03/2007 |
| BZ 10D-16-8-24 | drlg rpts/wcr | 4304737671 | 05/09/2007 |
| RW 34-34AD | drlg rpts/wcr | 4304736351 | 06/07/2007 |
| RWS 14D-6-9-24 | drlg rpts/wcr | 4304737414 | 07/20/2007 |

NOTICE

Utah Oil and Gas Conservation General Rule R649-3-21 states that,

- A well is considered completed when the well has been adequately worked to be capable of producing oil or gas or when well testing as required by the division is concluded.
- Within 30 days after the completion or plugging of a well, the following shall be filed:
 - Form 8, Well Completion or Recompletion Report and Log
 - A copy of electric and radioactivity logs, if run
 - A copy of drillstem test reports,
 - A copy of formation water analyses, porosity, permeability or fluid saturation determinations
 - A copy of core analyses, and lithologic logs or sample descriptions if compiled
 - A copy of directional, deviation, and/or measurement-while-drilling survey for each horizontal well

Failure to submit reports in a timely manner will result in the issuance of a Notice of Violation by the Division of Oil, Gas and Mining, and may result in the Division pursuing enforcement action as outlined in Rule R649-10, Administrative Procedures, and Section 40-6-11 of the Utah Code.

As of the mailing of this notice, the division has not received the required reports for

Operator: Questar Exploration & Production Co Today's Date: 11/27/2007

Well: API Number: Drilling Commenced:

See Attachment

To avoid compliance action, required reports should be mailed within 7 business days to:

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

If you have questions or concerns regarding this matter, please call (801) 538-5284.

cc: Well File
Compliance File

CONFIDENTIAL

43-047-36351

Questar E & P Page 1 of 7

Operations Summary Report

Well Name: RW 34-34AD Spud Date: 11/22/2007
 Location: 34- 7-S 22-E 26 Rig Release:
 Rig Name: UNIT Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|-------|------|----------|---|
| 10/17/2007 | 06:00 - 11:30 | 5.50 | 03 | A | DRILL TO 540, RUN 13 3/8 CASING 502' |
| | 11:30 - 14:30 | 3.00 | 05 | H | CEMENT SURVFACE CASING CREW |
| 11/2/2007 | 07:00 - 19:00 | 12.00 | 01 | A | RECEIVED 28 LOADS- BOTTOM SUB, 2 LOADS OF MATTING BOARDS, 2 SUB SPEADERS, BOTH DOG HOUSES, CHOKE MANIFOLD, VOLUME TANK, 2 SUIT CASE SKIDS, BOTH PUMPS, BOTH WATER TANKS, 1 MOTOR, FUEL TANK, HOPPER HOUSE, CAT WALK, MIDDLE PIECES OF DERRICK, KOOMY HOUSE, 2 JUCK TUBS, MISC. PIECES TRUCK, PUMP PARTS HOUSE, BOILER, ANNULAR AND OTHER PIECES. SET MATTING BOARDS, DRILLER SIDE SUB, AND PART OF OFF DRILLER SIDE SUB, SET IN CHOKE HOUSE AND SHAKER PIT (ONLY HAVE 6 HANDS PUTTING RIG TOGETHER) |
| | 19:00 - 06:00 | 11.00 | | | WAIT ON DAY LIGHT TO START TO RIG UP |
| 11/3/2007 | 07:00 - 19:00 | 12.00 | | | RECEIVED 13 LOADS TODAYTOP SUB, 3 LOADS OF DERRICK, DRILLING LINE, WIND WALLS, FLOOR PLATES, BLOCKS, DERRICK STAND, SCR HOUSE, TOP DRIVE SCR, BOPE (SINGLE, DOUBLE GATE, MUD CROSS), PIPE RACKS, SUCTION TANK (BAR LINE INSN'T GOING TO WORK TO MUCH RESRICTION), ALSO GOING TO RE DO FLOW LINE TO DRILL WITH AIR, SO IT WON'T WASH OUT 90'S), ----SET TOP SUB AND SPREADERS SET IN, SET IN SHKERS, SUCTION TANK(PUT UP ALL HAND RAILS UP), HAVE PUSHER, 2 DRILLERS, 4 HANDS) |
| | 19:00 - 06:00 | 11.00 | | | WAIT ON DAT LIGHT TO SET IN RIG |
| 11/4/2007 | 07:00 - 19:00 | 12.00 | 01 | | RECEIVED TOP DRIVE AND PIECES, MOTOR, --SET IN LOW PRESSURE HOUSE, PARTS HOUSE, MUD PUMPS, WINTERIZATION HOUSES, SCR HOUSE, WATER TANKS, (CAN'T SENT ANY MORE OF PACKAGE #1 MOTOR HASN'T SHOWED UP YET TOTAL OF MISSING LOADS 4-- DRAW TOOL,#1 MOTOR, WIRE TRAY AND SOME MISC. LOAD. WORKING ON FLOW LINE TO DRILL WITH AIR |
| | 19:00 - 06:00 | 11.00 | 14 | E | WAIT ON DAY LIGHT |
| 11/5/2007 | 06:00 - 18:00 | 12.00 | 01 | A | SET IN FLOW LINE, GRASS HOPPER, MOTOR SHEDS, ASSEMBLE DERRICK (HAVN'T PUT A-LEGS ON YET), SET IN OFF DRILLER DOG HOUSE, LIGHT POLES AND SHAKE SLIDES ON MUD TANKS, PULL CORDS TO GRASS HOPPER, HAVE TWO FULL CREWS TODAY |
| | 18:00 - 06:00 | 12.00 | 11 | F | WAIT ON DAY LIGHTS TO START PUTTING EQUIPMENT TOGETHER |
| 11/6/2007 | 06:00 - 18:00 | 12.00 | 01 | A | SET IN FUEL TANK, BOILER, GAS BUSTER, DRAWWORKS, PUT A-LEGS ON DERRICK, ISTALL BRIDEL LINE, KELLY HOSE, FABING ON HOPPER LINES, TOP DRIVE SADDLE, GAS BUSTER RETURN, STAND FOR FLOW LINE, |
| | 18:00 - 06:00 | 12.00 | 11 | F | WAIT ON DAY LIGHT TO RIG UP |
| 11/7/2007 | 06:00 - 15:00 | 9.00 | 01 | | TIE ON TO DERRICK WITH CRANES AND RAISE DERRICK TO FLOOR, FIRST 2 PINS TOOK 3 HOURS TO PIN (TIGHT HOLE FOR PIN), TRIED TO UN PIN A-LEGS HAD TO LAY DOWN A LEGS TO GET PINS OUT OF DERRICK, TOOK 1 1/2 HR.S TO PIN 4 PINS ON A- LEGS, 1 HR RAISE DERRICK BOARD AND PIN SET IN SUIT CASE FOR KOOMY HOUSE, STAIRS AND LANDINGS, SET IN SOLIDS CONTROL EQUIPMENT AND BAR HOPPERS, FABING LINES FROM FLOW LINE TO BUSTER AND MUD CLEANER |
| | 15:00 - 18:00 | 3.00 | 01 | | SET IN FLOW EXTENTION, KOOMY HOUSE, HAVING PROBLEMS WITH COMMUNICATION WITH SCR HOUSE TO CONTROL PANEL ON FLOOR,(THEY TOOK THE PANEL THAT WAS ON THIS RIG DOWN IN OKC AND PUT IT ON A RIG SOME WHERE ELSE, THIS CONTROL PANEL WAS IN THE CASPER YARD) |
| 11/8/2007 | 06:00 - 18:00 | 12.00 | 01 | A | FABING GAS BUSTER LINES, FINISH RIGGING UP SOLIDS CONTROL, SET IN REST OF STAIRS, RECEIVED TWO LOADS OF COLLARS, AND PIPE TUB OF DRILL PIPE,SET REST OF FLOOR PLATES IN, STRUNG UP DERRICK WITH STRING UP CREW |
| | 18:00 - 06:00 | 12.00 | | | WAIT ON DAY LIGHT TO RIG UP NEW RIG |
| 11/9/2007 | 06:00 - 18:00 | 12.00 | 01 | A | FOUND PROBLEM IN SCR CONTROL PANEL, SPOOL DRILLING LINE ONTO |

Printed: 12/3/2007 10:38:10 AM

RECEIVED

DEC 03 2007

DIV. OF OIL, GAS & MINING

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|-------|------|----------|--|
| 11/9/2007 | 06:00 - 18:00 | 12.00 | 01 | A | DRUM AND CINCHED DOWN ON DEAD MAN, DO DERRICK INSPECTION, HELD DERRICK OFF STAND, RAISED DERRICK (COULD ONLY PIN 1 PIN ON EACH SIDE- THEY HAD THE SAME PROBLEM ON 327-THE RIG THAT CAME OUT OF THE YARD BEFORE THIS ONE, ALSO THEY ONLY PINNED TWO PINS IN OKC YARD) HOOK UP MUD LINE HOSE FROM SHED TO SUB, RAISE CHOKE MANIFOLD UP ONE HOLE, SET IN FLARE BOX AND PUT HAND RAILS UP AROUND RIG, FILL WATER TANK WITH WATER(REPAIR WATER LEAKS (ALOT OF LEAKS), RECEIVED 3 LOADS OF PIPE (DON'T HAVE HARD BANDING ON JT'S OF PIPE)--UNITS HEAD WELDER SHOULD BE HERE TODAY TO FIX DERRICK PIN HOLES |
| | 18:00 - 06:00 | 12.00 | 08 | E | WAIT ON DAY LIGHT TO CONTNUE RIGGING UP |
| 11/10/2007 | 06:00 - 11:30 | 5.50 | 08 | E | COULDN'T GET DERRICK PINNED (HAD TO GET HYDRILIC JACKS AND PUSH DERRICK OUT TO GET TO PIN). COULDN'T CUT OUT AND WELD DERRICK EARS WHILE STANDING(UNIT WELDER), GOING TO CUT OUT EARS ON NEXT MOVE AND WELD WHEN DERRICK IS ON GROUND, |
| | 11:30 - 15:30 | 4.00 | 01 | A | RUN MUD PUMPS WITH OMRON REP. ON LOCATION, WORK ON STEAM SYSTEM, RIG UP AIR TUGGERS, UNBRIDLED DERRICK RECEIVED 2 LOADS OF DRILL PIPE, FINISHED WITH FLOW LINE TO GAS BUSTER LINE, BUILDING RETURN LINE FROM BUSTER AND TARGET T'S FOR CHOKE LINES, |
| | 15:30 - 18:00 | 2.50 | 08 | | LEVEL DERRICK HAD TO TAKE 1/2" SHIMS OUT OF OFF DRILLER SIDE AND PUT IN 2 1/4" OF SHIMS ON DRILLER SIDE (DERRICK WAS 7" TO DRILLER SIDE AND 4" TOWARD DRAWWORKS) |
| | 18:00 - 06:00 | 12.00 | 11 | F | WAIT ON DAYLIGHTS |
| 11/11/2007 | 06:00 - 13:00 | 7.00 | 01 | A | INSTALL RAILING FOR BOPE HANDLING SYSTEM AND CRAWLERS, RIG UP TONGS, PLACE WIRE LINE MACHINE ON FLOOR, CUT BOARDS FOR RACKING AREA, RAISE CHOKE MANIFOLD, FABING FLARE LINES, GAS BUSTER VENT LINE, WORK ON STEAM SYSTEM AROUND RIG |
| | 13:00 - 20:00 | 7.00 | 08 | | TRY TO CENTER DERRICK OVER WELL, FROM MAIN SUPPORT BRACE TO TOP OF CRAZY WHEEL BRACE IS 2 1/2 INCHES DIFFERANCE--ODS 53 3/4" DS 51 1/4", HAVE 2 1/4" SHIMS ON MAIN SUPPORTS DRILLER SIDE |
| | 20:00 - 06:00 | 10.00 | 08 | | WAIT ON DAY LIGHTS (UNIT SHUT DOWN FOR THE NIGHT, NEEDS WELDER TO WELD PLATE FOR PORTA POWER TO PICK ADJUSTER LEVEL) |
| 11/12/2007 | 06:00 - 09:30 | 3.50 | 08 | | CENTER BLOCKS OVER WELL, WAS GETTING CLOSE, WIND BREEZE CAME UP PUSHING BLOCKS, SO STARTED PICKING UP TOP DRIVE |
| | 09:30 - 18:00 | 8.50 | 01 | A | WELD COMPENSATER PLATES TO BLOCKS, PICK UP SWIVEL, TOP DRIVE RAIL, |
| | 18:00 - 06:00 | 12.00 | 12 | D | WAIT ON DAY LIGHTS |
| 11/13/2007 | 06:00 - 18:00 | 12.00 | 01 | A | FINISH RIG UP TOP DRIVE RAIL, STRING OUT CORDS AND PUT IN SADDLE, HANG SADDLE, PICK TOP DRIVE TO FLOOR, INSTALL COMPENSATOR RAMS, AND HOOK UP CONTROLL PANEL, SET IN STEAM HEATERS, SET IN AIR PACKAGE (BASIC), CONTINUE FABING CHOKE MANIFOLD LINES |
| | 18:00 - 06:00 | 12.00 | 08 | E | WAIT ON DAY LIGHTS |
| 11/14/2007 | 06:00 - 09:30 | 3.50 | 01 | A | SCREW SWIVEL TO TOP DRIVE, (CHILLER OUT IN TOP DRIVE SCR HOUSE), INSTALL TORQUE BUSHING, STRING CORDS TO TOP DRIVE HOUSE, |
| | 09:30 - 14:30 | 5.00 | 01 | A | RIG TOP DRIVE DRILLER CONTROLL PANEL, ASSEMBLE TOP DRIVE HYDRILIC LINES, PUT 10" FLARE LINES TOGETHER, PLUMB DIESEL TO BOILER, FIRE BOILER |
| | 14:30 - 18:00 | 3.50 | 01 | A | RIG UP TOP DRIVE ELECTRIC LINES, INSTAL TURN BUCKLES, CENTER RAIL, INSTALL FORCED AIR HEATER TUBES, CUT BOARDS FOR RACKING BOARD |
| | 18:00 - 06:00 | 12.00 | 01 | A | INSTALL STAND PIPE MANIFOLD, PUT TARP ON TOP DRIVE WIRES, PRESSURE TEST STEM LINES (FIX LEAKS) TIGHTEN BOLTS ON STAND PIPE, |
| 11/15/2007 | 06:00 - 11:00 | 5.00 | 01 | A | PUT UNION ON SWIVEL (NEED TO BUILD GOOSE NECK TO HOLD HOSE |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|---------------|---------------|---------------|------|---|--|
| 11/15/2007 | 06:00 - 11:00 | 5.00 | 01 | A | AWAY FROM UNIT), LAY OUT 4" FLARE LINES, SWITCH AROUND HYDRILIC LINE AND ANTI FREEZE (BOTH ARE CONTAMINATED), TOP DRIVE BLEW A SEAL IN INTENSIFIER |
| | 11:00 - 15:00 | 4.00 | 01 | A | SET IN 400 BBL TANK FOR NACL WATER AND UNLOAD 500 BBL ROLL TANKS FOR INVERT, CUT CONDUCTOR AND HAMMER OFF CEMENT, RIG UP HYDRALIC LINES TO BOPE LIFT |
| | 15:00 - 16:30 | 1.50 | 08 | | RE-TEST INTENSIFIER (REBUILT SEALS LEAKED STILL) |
| | 16:30 - 18:00 | 1.50 | 14 | | MAKE FINAL CUT AND TWO HOLE WELL HEAD WITH CAMERON, LEVEL HEAD AND WELD HEAD, FABBING FINISHED GAS BUSTER RETURN, ALMOST DONE WITH 4" LINES, |
| | 18:00 - 20:00 | 2.00 | 08 | E | STRETCH PIT LINER OUT FOR INVERT TANKS |
| | 20:00 - 22:30 | 2.50 | 14 | | STACK SINGLE GATE AND MUD CROSS AND DOUBLE GATE |
| | 22:30 - 06:00 | 7.50 | 08 | | WAIT ON TOP DRIVE UNIT-INSTALL FLOOR MATS AND FRONT WIND WALLS, HOOK UP STEAM HEATER ON RIG FLOOR, CLEAN OUT TRASH OUT OF MUD TANKS, |
| | 11/16/2007 | 06:00 - 07:30 | 1.50 | 08 | |
| 07:30 - 10:30 | | 3.00 | 08 | | RIG UP AND TORQUE SWIVEL AND TOP DRIVE |
| 10:30 - 12:00 | | 1.50 | 08 | | SET 500 BBL INVERT MUD TANKS |
| 12:00 - 13:30 | | 1.50 | 08 | | REPAIR EATON WATER COOLING SYSTEM |
| 13:30 - 15:00 | | 1.50 | 08 | | DISASSMBLE PUMP SKID OFF OF TOP DRIVE UNIT |
| 15:00 - 18:00 | | 3.00 | 08 | | HOOK UP FLARE LINES, MAKE UP HYDRILIC LINES FOR BOPE, START TIGOA FORCED AIR HEATER, AND GEL MUD TANK GATES |
| 18:00 - 20:00 | | 2.00 | 08 | | RIG UP STEAM LINES IN PUMP SHED, INSTALL HYDRAULIC FITTINGS ON BOPE FOR KOOMY |
| 20:00 - 23:00 | | 3.00 | 08 | | CHANGE OUT TOP DRIVE CHILLER UNIT WITH BOOM TRUCK |
| 23:00 - 00:00 | | 1.00 | 08 | | FINISH HOOKING UP STEAM LINES IN PUMP SHED, BUILD BURM AROUND INVERT STORAGE TANKS |
| 00:00 - 03:00 | | 3.00 | 08 | | CHANGE HOOKS ON TONG HANGING LINES, AND ADD WEIGHT TO COUNTER WEIGHTS |
| 11/17/2007 | 03:00 - 06:00 | 3.00 | 01 | A | ROLL UP PIT LINEER, RIG UP DRILLRS STEAM HEATER, WORK ON COLLING LEAK ON DRAW WORKS, HANG BAILS ON TOP DRIVE |
| | 06:00 - 08:00 | 2.00 | 08 | | BREAK OUT UNION OUT OF SWIVEL/WORK ON COOLANT LINES ON DRAW-WORKS |
| | 08:00 - 14:00 | 6.00 | 08 | | HELP WELDERS ON FLARE LINES AND BUILD BLOW DOWN LINE ON BOILER |
| | 14:00 - 18:00 | 4.00 | 14 | | PICK UP ANNULAR, BLEW HOSE ON SNUBBING IN TRUCK (BOP LIFT SYSTEM WON'T PICK UP ANN.), SNUBBING TRUCK BLEW HYDRILIC LINE |
| 11/18/2007 | 18:00 - 03:00 | 9.00 | 14 | | INSTALL SPACER SPOOL AND ROT.HEAD, HAD B.C QUICK TEST TORQUE ALL CONECTIONS, PUT OIL IN KOOMY, AND CONNECT KOOMY LINES, FILL MUD TANKS HALF FULL AND INSTALL WALK WAYS IN SUB (SCAFOLDING) |
| | 03:00 - 06:00 | 3.00 | 01 | A | PUT BRACE IN FOR TOP DRIVE RAIL AND PICK UP TOOLS AROUND RIG |
| | 06:00 - 07:00 | 1.00 | 01 | A | PUT ELECTIRIC MOTOR ON AGITATOR, TEST ALL MUD LINES (FIX LEAKS), AND CHECKED ALL AGITATORS |
| | 07:00 - 15:00 | 8.00 | 14 | | PUT CHOKE LINE IN (NOT TIGHT), CHANGE AROUND BLIND AND PIPE RAMS, FUNCTION TEST RAMS |
| | 15:00 - 18:00 | 3.00 | 01 | A | HOOK UP KELLY HOSE ADJUST TRACK, PUT VALVE IN FLOW LINE FOR TRIP TANK RETURN, UNLOAD MUD PRODUCTS, |
| | 18:00 - 21:00 | 3.00 | 01 | A | STRAIGHTEN UPTOPTRACK IN DERRRICK, |
| | 21:00 - 03:00 | 6.00 | 01 | A | HOOK UP FILLUP IN LINE, STAND PIPE, GAUGE ELEVATORS, GROUND BUILDINGS, BRING SUBS TO RIG FLOOR, BUILD LINE AND HANGNG CABLES FOR MUD BOX, BUILD LINE AND HANG PIPE SPINNERS, |
| 03:00 - 06:00 | 3.00 | 01 | A | BUILD BLEED OFF LINE ON #2 MUD PUMP, --WELD FABBED 1 EXTENTION-SLIDE FOR SHAKERS, FINISHED CELLER GRATTING, | |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|-------|------|----------|---|
| 11/19/2007 | 06:00 - 07:00 | 1.00 | 01 | A | PUT SAFETY LINE ON TOP DRIVE SERVICE LOOP IN DERRICK |
| | 07:00 - 09:00 | 2.00 | 01 | A | MOVE SCAFFOLDING FOR WELDER, PULL FLOOR PLATE AND PREPARE TO LOWER BOP HANDLING RAIL |
| | 09:00 - 12:30 | 3.50 | 08 | | FIX COOLANT LINE ON TOP DRIVE |
| | 12:30 - 13:30 | 1.00 | 01 | A | ADJUST COUNTER BALANCE ON TOP DRIVE |
| | 13:30 - 15:30 | 2.00 | 01 | A | LOWER BOP HANDLING RAIL AND LOAD OUT KELLY PIECES |
| | 15:30 - 18:00 | 2.50 | 01 | A | RE SET ROTATING HEAD AND SPACER SPOOL (TURN WHERE IT WOULD FACE STRAIGHT |
| | 18:00 - 21:00 | 3.00 | 01 | A | FINISH TIGHENING ROTATING HEAD AND ADJUST TOP DRIVE TRACK |
| | 21:00 - 21:30 | 0.50 | 01 | A | GET MEASURE MENT OF BOPE EQUIPMENT, AND RIG UP GERONIMO LINE |
| | 21:30 - 00:00 | 2.50 | 01 | A | MAKE CABLES TO CENTER BOPE, RIG UP CABLES IN SUB, PULL BOPE TO CENTER |
| | 00:00 - 02:30 | 2.50 | 01 | A | RIG UP PULLEY IN DERRRICK FOR WIRE LINE MACHINE, AND PULL CORD |
| | 02:30 - 04:30 | 2.00 | 01 | A | SET IN YELLOW DOGS AND RUN POWER CORDS |
| | 04:30 - 05:30 | 1.00 | 01 | A | ADJUST COUNTRER WEIGHT ON DERRRICK CLIMBER |
| | 05:30 - 06:00 | 0.50 | 01 | A | CHECK ALL SAFETY EQUIPMENT, AND FILL, UNLOAD WESTERN CHEMICAL BARRELS |
| 11/20/2007 | 06:00 - 18:00 | 12.00 | 01 | A | HOOK UP GERONIMO LINE, HELP WELDERS INSTALL ORBIT VALVE, TAKE OUT SCM BOARD IN TOP DRIVE HOUSE AND TROUBLE SHOOT COM BOARDS IN TOP DRIVE HOUSE, HOOK UP PASON AND INTER COM TO DERRICK, RIG UP YELLOW DOG, AND ROLL #2 MUD PUMP CHECK OILING IN PUMP CHECKED O.K. |
| | 18:00 - 21:00 | 3.00 | 01 | A | PRESSURE TEST MUD LINES TO 1000 PSI FIX LEAKS, TIGHTEN CAPS ON PUNPS, UNIONS, ECT. |
| | 21:00 - 23:00 | 2.00 | 01 | A | BUILD ROTATING MANIFOLD, HOOK UP OILER BOX AND HOOK UP FILL UP LINES |
| | 23:00 - 00:00 | 1.00 | 01 | A | REPLACE SHEIVE ON BOPE SNUB, AND RIG UP AND BLOW DOWN KELLY HOSE |
| | 00:00 - 02:30 | 2.50 | 01 | A | PUT 6" DRAIN IN BOTTOM OF GAS BUSTER, TURN FLAPPER IN VENT LINE, AND INSTALL BOLTS IN FLANGES IN BUSTER |
| | 02:30 - 04:00 | 1.50 | 01 | A | ADD GROUND RODS AND CABLES WHERE NEEDED AROUND RIG, BUILD HOESE FOR TRIP TANK |
| | 04:00 - 06:00 | 2.00 | 01 | A | RE ADJUST GERONIMO LINE, REBUILD AIR MANIFOLD, BLOW DOWN MUD LINES THRU PUMPS, REPLACE LAYDOWN LINE, CLEAN AND PUT AWAY TOOLS,WELD-- FLOW LINE FINISHED, HAVE BAR LINE ON TANKS, AND TROUGHS TO BUILD TO PIT, SAFETY ITEMS AROUND RIG |
| 11/21/2007 | 06:00 - 18:00 | 12.00 | 01 | A | HOOK UP LINE FOR TRIP TANK, AND INSTALL COM, CHECK OIL LEVELS IN PUMPS, AND DRAW-WORKS, INSTALLRETURN LINES IN FLARE BOX, MAKE UP BAR MANIFOLD, RIG UP AIR FOR AIR JAMMERS, REPLACED ECM BOARD IN TOP DRIVE HOUSE, WORK ON TOP DRIVE COUNTER BALANCE, INSTALL FOOTING ON WELL HEAD (READY TO CEMENT CELLER) |
| | 18:00 - 21:30 | 3.50 | 01 | A | PUT DIFFERNT SIZE CABLE ON BOPE CENTERING, AND SNUB CENTER AND PUT UP SUB TARP AND INSTALL PASON EQUIPMENT ON THE END OF DRUM SHAFT |
| | 21:30 - 23:00 | 1.50 | 01 | A | BUILD DIRT BURM OVER GAS BUSTER LINES AND INSTALL TARGET T ON THE END OF FLOW LINE AND INSTALL DIFFERNT TROUGHS FOR CENTER FUGES AND PUT DRAIN ON GAS BUSTER |
| | 23:00 - 01:30 | 2.50 | 01 | A | INSTALL MOUSE HOLE AND FIND BHA X-OVERS AND PICK TO RIG FLOOR AND RE PLUMB T-BLOCK ON CHOKE MANIFOLD TO |
| | 01:30 - 03:00 | 1.50 | 01 | A | REPAIR STEM LEAKS AROUND RIG AND PICK UP TRASH AND TOOLS AROUND RIG, |
| | 03:00 - 06:00 | 3.00 | 01 | A | RACK BHA AND STRAP AND HOUSE KEEPING AROUND RIG |
| 11/22/2007 | 06:00 - 14:00 | 8.00 | 01 | A | (CALLED AND NOTIFIED BLM OF BOP TEST- RAY ARNOLD) FUNCTION TEST |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|-------|------|----------|---|
| 11/22/2007 | 06:00 - 14:00 | 8.00 | 01 | A | BOPS REPAIR HYD. LEAKS FILL BOTTOM OF CELLAR W/ CMT TO BASE RING. CALB. PASON MUD VOLUME SYSTEM WITH MUD TANKS, ADJUST LINK TILT ON TOP DRIVE, START RIGGING UP YELLOW DOGS TO PUMP WATER FROM UP RIGHT TANKS OR WAIST PIT & FAB. & INSTALL SHAKER CUTTING SLIDES CONT. TO FRAB. & INSTALL BARITE LINES ON SUCTION TANKS INSTALL ROT. MOUSE HOLE |
| | 14:00 - 18:00 | 4.00 | 01 | A | RIG UP & P/UP TESTING EQUIPMENT |
| | 18:00 - 06:00 | 12.00 | 08 | D | P/T BOPS ATT. TO TEST UPPER RAMS OBSERVE LOWER RAMS LEAKING @ DOOR REPLACE DAMAGED BONNET RUBBERS ATT. TO TEST U.RAMS BLIND RAMS LEAKING @ DOORS RE-TIGHTEN BONNET BOLTS & RETEST SAME LEAK ATT. PULL OUT TEST JOINT DRAWWORKS WOULD NOT WORK SHUT OFF POWER & RE-BOOT SYSTEM STILL NOT OPERATING CALLED UNIT TECHNICIAN & ELE. DISCUSS OVER PHONE THE PROBLEM THEY WAS UNABLE TO FIX PROBLEM OVER THE PHONE AT THE MOMENT THE TECHICAN AND ELE. IS IN ROUTE TO THE RIG SITE. |
| 11/23/2007 | 06:00 - 18:30 | 12.50 | 08 | | WAIT ON UNITS ELECTRICAN ARRIVED @ 1330 HRS TROUBLE SHOOT FOUND LOOSE CONNECTION TO POWER SUPPLY GOING TO DRILLER CONSOLE SWITCH PANEL (DC MODULE WAS NOT GETTING POWER) PULL OUT TEST JOINT & CHANGE OUT BONNET SEAL RUBBERS ON BLIND RAMS DOORS. |
| | 18:30 - 22:30 | 4.00 | 08 | D | TEST BOPS ANN. LOW 250 PSI HIGH TEST 3500 PSI, ALL RELATED BOPS & EQUIPMENT TESTED W/ LOW 250 PSI & HIGH 5000 PSI (SHELL TESTED BOPS & CHOKE MANIFOLD TO 10000 PSI) P/TEST SUFACE CASING 1500 PSI |
| | 22:30 - 03:00 | 4.50 | 15 | | PICK UP BHA & NEW DRILL PIPE |
| 11/24/2007 | 03:00 - 06:00 | 3.00 | 19 | C | ATTEMPT TO TORQUE UP BHA CONNECTIONS M/UP TONG LINE ON CAT HEAD WAS TO LONG RECUT & ATT. TO TORQUE UP FIRST CONNECTION BLOW HYDRAULIC HOSE ON M/UP CAT HEAD CYLINDER REPLACE HYD. HOSE |
| | 06:00 - 11:00 | 5.00 | 08 | | M/UP BIT ON NEW SUBS & COLLARS (M/UP & BREAK OUT NEW CONNECTION TWICE DUE TO NEW BHA) |
| | 11:00 - 15:00 | 4.00 | 06 | J | P/UP NEW DRILL PIPE TORQUE UP BREAK LOOSE & RE-TORQUE ALL CONNECTION (TOTAL DRILL PIPE P/UP & IN DERRICK 2104') |
| 11/25/2007 | 03:00 - 06:00 | 3.00 | 08 | | DRAWWORKS STOP WORKING (LOST POWER SUPPLY TO DC MODULE) |
| | 06:00 - 14:00 | 8.00 | 08 | | REPAIR DRAWWORKS LOST POWER TO DC MODULE |
| | 14:00 - 06:00 | 16.00 | 06 | | P/UP NEW 5' DRILL PIPE TORQUE UP & BREAK OUT & RE-TORGUE ALL CONNECT. |
| 11/26/2007 | 06:00 - 20:00 | 14.00 | 06 | | AND RACK BACK IN DERRICK (TOTAL 53 STDS IN DERRICK) |
| | 20:00 - 21:00 | 1.00 | 25 | | PICK UP NEW HWDP & TORQUE UP & BREAK OUT & M/UP RIH W/ 12 1/4 BHA TAG TOP OF CMT. 469' |
| | 21:00 - 06:00 | 9.00 | 08 | | DRILL OUT CMT. F/ 469' TO TOP OF L/C @ 476' BRAKES SYSTEM NOT WORKING UNABLE TO MAINTAIN CORRECT BIT WT |
| 11/27/2007 | 06:00 - 06:00 | 24.00 | 08 | | ATT. TO WORK STRING AND ADJUST AIR RELAY VALVE TO CONTROL DRILL STRING SPEED (CALL UNITS SUP. & MECH.) WAIT ON MECH. ON UNITS TIME (DRAWWORKS NOT WORKING PROPERLY BRAKES NOT HOLDING TROUBLE SHOOT FOR THE PAST 24 HOURS WITH RIG SUP. & TOOLPUSHER REPLACE HYD HOSES THAT WAS LEAKING GOING TO HYD. BRAKE CONTROL & BOTH AIR RELAY VALVE & CONTROL VALVE ON DRILLER CONSOLE ATT. TO WORK STRING STILL BRAKE NOT HOLDING STRING WT PROPERLY (WAIT ON UNITS HEAD MECHANIC) |
| 11/28/2007 | 06:00 - 13:00 | 7.00 | 08 | | REPAIR DRAWWORKS - REMOVE QUICK RELEASE @ EATON BRAKE TO STOP AIR FROM DUMPING QUICKLY PER EATONS RECOMONDATION WHICH WAS CAUSING THE BRAKE TO OPERATE ERRATICLY REPLACED H-4 VALVE REPLACED RELAY VALVE , EXTENDED BRAKE HANDLE 6" |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|---------------|---------------|-------|------|---|---|
| 11/28/2007 | 13:00 - 15:30 | 2.50 | 02 | D | DRILL OUT SHOE TRACK & 15' 12 1/4 HOLE |
| | 15:30 - 16:00 | 0.50 | 08 | E | FIT EQUIVALENT TEST TO 10.5 PPG |
| | 16:00 - 16:30 | 0.50 | 25 | | HOLD SAFETY MEETING W/ BASIC AIR CREW & RIG CREWS |
| | 16:30 - 18:00 | 1.50 | 05 | A | DRILL OUT RAT HOLE F/ SHOE TO 540' |
| | 18:00 - 18:30 | 0.50 | 25 | | HOLD SAFETY MEETING W/ BASIC AIR CREW & RIG CREWS |
| | 18:30 - 22:30 | 4.00 | 03 | A | DRILL F/ 540' TO 676' (136' @ 34' FPH) 2000 +/- CFM, ATT. TO MAINTAIN 20 WOB |
| | 22:30 - 23:00 | 0.50 | 25 | | STOP DRILLING PICK UP & WORK ON BASIC (AIR) PUMP |
| | 23:00 - 02:30 | 3.50 | 03 | A | DRILL F/ 676' TO 817' (141' @ 41' FPH) 2000 +/- CFM WOB 20 |
| | 02:30 - 03:00 | 0.50 | 25 | | PICK UP & WORK ON BASIC (AIR) PUMP |
| | 03:00 - 06:00 | 3.00 | 03 | A | DRILL F/ 817' TO 940' (123' @ 41' FPH) 2000 +/- CFM WOB 20 |
| 11/29/2007 | 06:00 - 13:30 | 7.50 | 03 | A | DRILL F/ 940' TO 1284' (344' @ 45.8 ' FPH) WOB 15-20 CFM 1950 +/- |
| | 13:30 - 16:00 | 2.50 | 05 | | CIR. HOLE CLEAN FLOW LINE & FLARE BOX FULL OF CUTTING REMOVE CUTTING |
| 11/30/2007 | 16:00 - 06:00 | 14.00 | 03 | A | DRILL F/ 1284' TO 1820' (536' @ 38.2' FPH) WOB 10 CFM 2000 +/- |
| | 06:00 - 07:30 | 1.50 | 02 | | DRILL F/ 1815' TO 1861' (46' @ 30.6 FPH) WOB 15 2000 +/- CFM |
| | 07:30 - 10:00 | 2.50 | 06 | | TRIP TO 1420' |
| | 10:00 - 12:00 | 2.00 | 06 | | TRIP IN HOLE REAMED LAST TWO STDS |
| | 12:00 - 18:00 | 6.00 | 02 | | AIR DRILL 12 1/4" HOLE F/ 1861' TO 2085' (224' @ 37.3) WOB 15 2000 +/- CFM |
| | 18:00 - 19:00 | 1.00 | 02 | | AIR DRILL 12 1/4" HOLE F/ 2085' TO 2149' (64' @ 64') WOB 25-34 2000 +/- CFM |
| | 19:00 - 20:00 | 1.00 | 02 | | RIG SERVICE |
| | 20:00 - 00:00 | 4.00 | 02 | | AIR DRILL 12 1/4" HOLE F/ 2149' TO 2384' (235' @ 59') WOB 22-32 2000 +/- CFM |
| | 00:00 - 01:00 | 1.00 | 08 | E | STOP DRILLING BOLT FELL OUT OF DERRICK (INSPECTED DERRICK FOUND BOLT WORK LOOSE ON TOP DRIVE RAIL) TOP CLAMP INSTALL BOLT TORQUE SAME AND FOUND TO MORE LOOSE ON CLAMP |
| | 01:00 - 04:30 | 3.50 | 03 | A | AIR DRILL 2384' TO 2527' (143' @ 41') WOB 20- 32 2000 +/- CFM |
| 04:30 - 05:30 | 1.00 | 02 | | MAKE CONNECTION ATT. TO CIR. HOLE PACKED OFF, BLEED PRESSURE OFF ATT. TO ROTATE STRING TOP DRIVE STOP WORKING, SET DRILL PIPE SLIPS TURN STRING FREED & CIR. FOR 15-MIN. (FOUND TOP DRIVE BREAKER OFF IN SCR HOUSE) | |
| 12/1/2007 | 05:30 - 06:00 | 0.50 | 05 | | CIR. HOLE CLEAN @ 2527' |
| | 06:00 - 07:00 | 1.00 | 02 | | AIR DRILLED F/ 2527' TO 2622' (95' @ 95' FPH) WOB 20TO 35 2100 +/- CFM |
| | 07:00 - 16:00 | 9.00 | 06 | | MAKED A CONNECTION ATT. TO CIR HOLE PACKED OFF BACK REAM (SLOWLY TO 2574' UNTIL ESTABLISH CIR. (TIGHT HOLE @ 2598' & 2586') |
| | 16:00 - 19:00 | 3.00 | 05 | | WORK STRING & CIR. HOLE CLEAN @ 2574' |
| | 19:00 - 20:00 | 1.00 | 03 | | REAM BACK TO BOTTOM F/ 2574' TO 2622' (OBSERVED TRONA WATER FLOW) |
| 12/2/2007 | 20:00 - 20:30 | 0.50 | 02 | | ATT. TO DRILL TAG BOTTOM STRING STALLED OUT PICK UP OFF BOTTOM OBSERVED FOR RETURNS ONLY (WATER NO FOAM RETURNS) |
| | 20:30 - 00:00 | 3.50 | 25 | | SAFETY MEETING WITH CREW & LINE UP STAND PIPE MANIFOLD ON AIR & MUD PUMPS ATT. TO PUMP WITH MUD PUMPS (BLOW POP OFF VALVE) ATT. TO RUN # 2 MUD PUMP W/ 80 SPM (PUMP AIR LOCK) WORK ON BOTH PUMPS REPAIR # 1 MUD PUMP & CIR. W/ #2 PUMP THROUGH BLEED OFF LINE TO TANKS TO GET AIR OUT OF SYSTEM (NOTE: MUD PROBLEM WAS DUE TO TRYING TO PUMP WATER FROM THE WATER PIT WHICH WAS CON. W/ FOAM (DISCUSS W/ MUD E. TO TRANFER PIT WATER TO TANK # 4 AND TREAT FIRST AND AFTER TRANSFER TO SUCTION TANK |
| | 00:00 - 06:00 | 6.00 | 02 | | DRILL F/ 2670' TO 2830' (160' @ 27' FPH) NOTE: TOP DRIVE GETTING HOT CAUSING TO P/U OFF BOTTOM & RE-SET BREAKER) TOP DRIVE ENG. IS ON SITE TROUBLE SHOOTING THE PROBLEM |
| | 06:00 - 10:30 | 4.50 | 05 | | MAKE MOUSEHOLE CONNECTION & ATT. TO CIR. HOLE PACKED OFF WORK STRING ATT. TO ESTABLISH CIR. W. NO SUCCESS |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|-----------|---------------|-------|------|--------------------------------|--|
| 12/2/2007 | 10:30 - 17:30 | 7.00 | 03 | | BACK REAM F/ 2814' TO 2754' DUMPED 5 GAL POLYMER, 3 GAL. SOAP |
| | 17:30 - 18:00 | 0.50 | 05 | | PRESSURED UP TO 1250 PSI W/ AIR |
| | 18:00 - 20:00 | 2.00 | 05 | | PIPE CAME FREE & GOT RETURNS CIR HOLE CLEAN W/ 194 GPM RESERVE |
| | 20:00 - 20:30 | 0.50 | 05 | | PIT WATER & 1600 CFM OF AIR @ 400 PSI WHILE MUDDING UP |
| | 20:30 - 22:00 | 1.50 | 05 | | CIR. W/ # 2 PUMP @ 45 SPM AIR 400 CFM STD PIPE 352 PSI |
| | 22:00 - 03:00 | 5.00 | 05 | | SHUT AIR OFF BROUGHT # 1 & # 2 PUMPS ON LINE @ 40 SPM 8.4 PPG @ 352 GPM |
| | 03:00 - 06:00 | 3.00 | 08 | | GOT RETURNS FLUSHING AIR OUT OF HOLE @ PUMPS # 1 & # 2 @ 45 SPM 397 GPM |
| 12/3/2007 | 06:00 - 18:00 | 12.00 | 05 | | CIR. & RAISE MUD WT |
| | 18:00 - 00:00 | 6.00 | 05 | | TOP DRIVE STOP ROTATING LOST POWER TO UNIT STILL CIR. HOLE & RAISE MUD WT. |
| | 00:00 - 01:30 | 1.50 | 06 | | BUILD MUD & CIR. RAISE MUD WT TO 9.2 PPG |
| | 01:30 - 06:00 | 4.50 | 03 | | CONT. TO CIR. & INCREASE MUD WT TO 9.5 PPG |
| | | | | | PUMP PILL TOO H PULLED TIGHT @ 2445' |
| | | | | BACK REAMING F/ 2445' TO 2105' | |

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Page 1 of 14

Operations Summary Report

Well Name: RW 34-34AD
Location: 34- 7-S 22-E 26
Rig Name: UNIT

Spud Date: 11/22/2007
Rig Release:
Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|-------|------|----------|---|
| 10/17/2007 | 06:00 - 11:30 | 5.50 | 03 | A | DRILL TO 540, RUN 13 3/8 CASING 502' |
| | 11:30 - 14:30 | 3.00 | 05 | H | CEMENT SURFACE CASING CREW |
| 11/2/2007 | 07:00 - 19:00 | 12.00 | 01 | A | RECEIVED 28 LOADS- BOTTOM SUB, 2 LOADS OF MATTING BOARDS, 2 SUB SPEADERS, BOTH DOG HOUSES, CHOKE MANIFOLD, VOLUME TANK, 2 SUIT CASE SKIDS, BOTH PUMPS, BOTH WATER TANKS, 1 MOTOR, FUEL TANK, HOPPER HOUSE, CAT WALK, MIDDLE PIECES OF DERRICK, KOOMY HOUSE, 2 JUCK TUBS, MISC. PIECES TRUCK, PUMP PARTS HOUSE, BOILER, ANNULAR AND OTHER PIECES. SET MATTING BOARDS, DRILLER SIDE SUB, AND PART OF OFF DRILLER SIDE SUB, SET IN CHOKE HOUSE AND SHAKER PIT (ONLY HAVE 6 HANDS PUTTING RIG TOGETHER) |
| | 19:00 - 06:00 | 11.00 | | | WAIT ON DAY LIGHT TO START TO RIG UP |
| 11/3/2007 | 07:00 - 19:00 | 12.00 | | | RECEIVED 13 LOADS TODAYTOP SUB, 3 LOADS OF DERRICK, DRILLING LINE, WIND WALLS, FLOOR PLATES, BLOCKS, DERRICK STAND, SCR HOUSE, TOP DRIVE SCR, BOPE (SINGLE, DOUBLE GATE, MUD CROSS), PIPE RACKS, SUCTION TANK (BAR LINE INSN'T GOING TO WORK TO MUCH RESRICTION), ALSO GOING TO RE DO FLOW LINE TO DRILL WITH AIR, SO IT WON'T WASH OUT 90'S), ---SET TOP SUB AND SPREADERS SET IN, SET IN SHKERS, SUCTION TANK(PUT UP ALL HAND RAILS UP), HAVE PUSHER, 2 DRILLERS, 4 HANDS) |
| | 19:00 - 06:00 | 11.00 | | | WAIT ON DAT LIGHT TO SET IN RIG |
| 11/4/2007 | 07:00 - 19:00 | 12.00 | 01 | | RECEIVED TOP DRIVE AND PIECES, MOTOR, ---SET IN LOW PRESSURE HOUSE, PARTS HOUSE, MUD PUMPS, WINTERIZATION HOUSES, SCR HOUSE, WATER TANKS, (CAN'T SENT ANY MORE OF PACKAGE #1 MOTOR HASN'T SHOWED UP YET TOTAL OF MISSING LOADS 4-- DRAW TOOL,#1 MOTOR, WIRE TRAY AND SOME MISC. LOAD. WORKING ON FLOW LINE TO DRILL WITH AIR |
| | 19:00 - 06:00 | 11.00 | 14 | E | WAIT ON DAY LIGHT |
| 11/5/2007 | 06:00 - 18:00 | 12.00 | 01 | A | SET IN FLOW LINE, GRASS HOPPER, MOTOR SHEDS, ASSEMBLE DERRICK (HAVN'T PUT A-LEGS ON YET), SET IN OFF DRILLER DOG HOUSE, LIGHT POLES AND SHAKE SLIDES ON MUD TANKS, PULL CORDS TO GRASS HOPPER, HAVE TWO FULL CREWS TODAY |
| | 18:00 - 06:00 | 12.00 | 11 | F | WAIT ON DAY LIGHTS TO START PUTTING EQUIPMENT TOGETHER |
| 11/6/2007 | 06:00 - 18:00 | 12.00 | 01 | A | SET IN FUEL TANK, BOILER, GAS BUSTER, DRAWWORKS, PUT A-LEGS ON DERRICK, ISTALL BRIDEL LINE, KELLY HOSE, FABING ON HOPPER LINES, TOP DRIVE SADDLE, GAS BUSTER RETURN, STAND FOR FLOW LINE, |
| | 18:00 - 06:00 | 12.00 | 11 | F | WAIT ON DAY LIGHT TO RIG UP |
| 11/7/2007 | 06:00 - 15:00 | 9.00 | 01 | | TIE ON TO DERRICK WITH CRANES AND RAISE DERRICK TO FLOOR, FIRST 2 PINS TOOK 3 HOURS TO PIN (TIGHT HOLE FOR PIN), TRIED TO UN PIN A-LEGS HAD TO LAY DOWN A LEGS TO GET PINS OUT OF DERRICK, TOOK 1 1/2 HR.S TO PIN 4 PINS ON A- LEGS, 1 HR RAISE DERRICK BOARD AND PIN SET IN SUIT CASE FOR KOOMY HOUSE, STAIRS AND LANDINGS, SET IN SOLIDS CONTROL EQUIPMENT AND BAR HOPPERS, FABING LINES FROM FLOW LINE TO BUSTER AND MUD CLEANER |
| | 15:00 - 18:00 | 3.00 | 01 | | |
| 11/8/2007 | 06:00 - 18:00 | 12.00 | 01 | A | SET IN FLOW EXTENTION, KOOMY HOUSE, HAVING PROBLEMS WITH COMMUNICATION WITH SCR HOUSE TO CONTROL PANEL ON FLOOR,(THEY TOOK THE PANEL THAT WAS ON THIS RIG DOWN IN OKC AND PUT IT ON A RIG SOME WHERE ELSE, THIS CONTROL PANEL WAS IN THE CASPER YARD) FABING GAS BUSTER LINES, FINISH RIGGING UP SOLIDS CONTROL, SET IN REST OF STAIRS, RECEIVED TWO LOADS OF COLLARS, AND PIPE TUB OF DRILL PIPE,SET REST OF FLOOR PLATES IN, STRUNG UP DERRICK WITH STRING UP CREW |
| | 18:00 - 06:00 | 12.00 | | | WAIT ON DAY LIGHT TO RIG UP NEW RIG |
| 11/9/2007 | 06:00 - 18:00 | 12.00 | 01 | A | FOUND PROBLEM IN SCR CONTROL PANEL, SPOOL DRILLING LINE ONTO |

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Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|-------|------|----------|---|
| 11/9/2007 | 06:00 - 18:00 | 12.00 | 01 | A | DRUM AND CINCHED DOWN ON DEAD MAN, DO DERRICK INSPECTION, HELD DERRICK OFF STAND, RAISED DERRICK (COULD ONLY PIN 1 PIN ON EACH SIDE- THEY HAD THE SAME PROBLEM ON 327-THE RIG THAT CAME OUT OF THE YARD BEFORE THIS ONE, ALSO THEY ONLY PINNED TWO PINS IN OKC YARD) HOOK UP MUD LINE HOSE FROM SHED TO SUB, RAISE CHOKE MANIFOLD UP ONE HOLE, SET IN FLARE BOX AND PUT HAND RAILS UP AROUND RIG, FILL WATER TANK WITH WATER(REPAIR WATER LEAKS (ALOT OF LEAKS), RECEIVED 3 LOADS OF PIPE (DON'T HAVE HARD BANDING ON JT'S OF PIPE)---UNITS HEAD WELDER SHOULD BE HERE TODAY TO FIX DERRICK PIN HOLES |
| 11/10/2007 | 18:00 - 06:00 | 12.00 | 08 | E | WAIT ON DAY LIGHT TO CONTNUE RIGGING UP |
| | 06:00 - 11:30 | 5.50 | 08 | | COULDN'T GET DERRICK PINNED (HAD TO GET HYDRILIC JACKS AND PUSH DERRICK OUT TO GET TO PIN), COULDN'T CUT OUT AND WELD DERRICK EARS WHILE STANDING(UNIT WELDER), GOING TO CUT OUT EARS ON NEXT MOVE AND WELD WHEN DERRICK IS ON GROUND, |
| | 11:30 - 15:30 | 4.00 | 01 | A | RUN MUD PUMPS WITH OMRON REP. ON LOCATION, WORK ON STEAM SYSTEM, RIG UP AIR TUGGERS, UNBRIDLED DERRICK RECEIVED 2 LOADS OF DRILL PIPE, FINISHED WITH FLOW LINE TO GAS BUSTER LINE, BUILDING RETURN LINE FROM BUSTER AND TARGET T'S FOR CHOKE LINES, |
| 11/11/2007 | 15:30 - 18:00 | 2.50 | 08 | | LEVEL DERRICK HAD TO TAKE 1/2" SHIMS OUT OF OFF DRILLER SIDE AND PUT IN 2 1/4" OF SHIMS ON DRILLER SIDE (DERRICK WAS 7" TO DRILLER SIDE AND 4" TOWARD DRAWWORKS) |
| | 18:00 - 06:00 | 12.00 | 11 | F | WAIT ON DAYLIGHTS |
| | 06:00 - 13:00 | 7.00 | 01 | A | INSTALL RAILING FOR BOPE HANDLING SYSTEM AND CRAWLERS, RIG UP TONGS, PLACE WIRE LINE MACHINE ON FLOOR, CUT BOARDS FOR RACKING AREA, RAISE CHOKE MANIFOLD, FABBING FLARE LINES, GAS BUSTER VENT LINE, WORK ON STEAM SYSTEM AROUND RIG |
| 11/12/2007 | 13:00 - 20:00 | 7.00 | 08 | | TRY TO CENTER DERRICK OVER WELL, FROM MAIN SUPPORT BRACE TO TOP OF CRAZY WHEEL BRACE IS 2 1/2 INCHES DIFFERNCE--ODS 53 3/4" DS 51 1/4", HAVE 2 1/4" SHIMS ON MAIN SUPPORTS DRILLER SIDE |
| | 20:00 - 06:00 | 10.00 | 08 | | WAIT ON DAY LIGHTS (UNIT SHUT DOWN FOR THE NIGHT, NEEDS WELDER TO WELD PLATE FOR PORTA POWER TO PICK ADJUSTER LEVEL) |
| | 06:00 - 09:30 | 3.50 | 08 | | CENTER BLOCKS OVER WELL, WAS GETTING CLOSE, WIND BREEZE CAME UP PUSHING BLOCKS, SO STARTED PICKING UP TOP DRIVE |
| 11/13/2007 | 09:30 - 18:00 | 8.50 | 01 | A | WELD COMPENSATER PLATES TO BLOCKS, PICK UP SWIVEL, TOP DRIVE RAIL, |
| | 18:00 - 06:00 | 12.00 | 12 | D | WAIT ON DAY LIGHTS |
| | 06:00 - 18:00 | 12.00 | 01 | A | FINISH RIG UP TOP DRIVE RAIL, STRING OUT CORDS AND PUT IN SADDLE, HANG SADDLE, PICK TOP DRIVE TO FLOOR, INSTALL COMPENSATOR RAMS, AND HOOK UP CONTROLL PANEL, SET IN STEAM HEATERS, SET IN AIR PACKAGE (BASIC), CONTINUE FABBING CHOKE MANIFOLD LINES |
| 11/14/2007 | 18:00 - 06:00 | 12.00 | 08 | E | WAIT ON DAY LIGHTS |
| | 06:00 - 09:30 | 3.50 | 01 | A | SCREW SWIVEL TO TOP DRIVE, (CHILLER OUT IN TOP DRIVE SCR HOUSE), INSTALL TORQUE BUSHING, STRING CORDS TO TOP DRIVE HOUSE, |
| | 09:30 - 14:30 | 5.00 | 01 | A | RIG TOP DRIVE DRILLER CONTROLL PANEL, ASSEMBLE TOP DRIVE HYDRILIC LINES, PUT 10" FLARE LINES TOGETHER, PLUMB DIESEL TO BOILER, FIRE BOILER |
| | 14:30 - 18:00 | 3.50 | 01 | A | RIG UP TOP DRIVE ELECTRIC LINES, INSTAL TURN BUCKLES, CENTER RAIL, INSTALL FORCED AIR HEATER TUBES, CUT BOARDS FOR RACKING BOARD |
| 11/15/2007 | 18:00 - 06:00 | 12.00 | 01 | A | INSTALL STAND PIPE MANIFOLD, PUT TARP ON TOP DRIVE WIRES, PRESSURE TEST STEM LINES (FIX LEAKS) TIGHTEN BOLTS ON STAND PIPE, |
| | 06:00 - 11:00 | 5.00 | 01 | A | PUT UNION ON SWIVEL (NEED TO BUILD GOOSE NECK TO HOLD HOSE |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|---------------|---------------|---------------|------|---|--|
| 11/15/2007 | 06:00 - 11:00 | 5.00 | 01 | A | AWAY FROM UNIT), LAY OUT 4" FLARE LINES, SWITCH AROUND HYDRILIC LINE AND ANTI FREEZE (BOTH ARE CONTAMINATED),TOP DRIVE BLEW A SEAL IN INTENSIFIER |
| | 11:00 - 15:00 | 4.00 | 01 | A | SET IN 400 BBL TANK FOR NACL WATER AND UNLOAD 500 BBL ROLL TANKS FOR INVERT, CUT CONDUCTOR AND HAMMER OFF CEMENT, RIG UP HYDRALIC LINES TO BOPE LIFT |
| | 15:00 - 16:30 | 1.50 | 08 | | RE-TEST INTENSIFIER (REBUILT SEALS LEAKED STILL) |
| | 16:30 - 18:00 | 1.50 | 14 | | MAKE FINAL CUT AND TWO HOLE WELL HEAD WITH CAMERON, LEVEL HEAD AND WELD HEAD,FABBING FINISHED GAS BUSTER RETURN, ALMOST DONE WITH 4" LINES, |
| | 18:00 - 20:00 | 2.00 | 08 | E | STRETCH PIT LINER OUT FOR INVERT TANKS |
| | 20:00 - 22:30 | 2.50 | 14 | | STACK SINGLE GATE AND MUD CROSS AND DOUBLE GATE |
| | 22:30 - 06:00 | 7.50 | 08 | | WAIT ON TOP DRIVE UNIT-INSTALL FLOOR MATS AND FRONT WIND WALLS, HOOK UP STEAM HEATER ON RIG FLOOR, CLEAN OUT TRASH OUT OF MUD TANKS, |
| | 11/16/2007 | 06:00 - 07:30 | 1.50 | 08 | |
| 07:30 - 10:30 | | 3.00 | 08 | | RIG UP AND TORQUE SWIVEL AND TOP DRIVE |
| 10:30 - 12:00 | | 1.50 | 08 | | SET 500 BBL INVERT MUD TANKS |
| 12:00 - 13:30 | | 1.50 | 08 | | REPAIR EATON WATER COOLING SYSTEM |
| 13:30 - 15:00 | | 1.50 | 08 | | DISASSMBLE PUMP SKID OFF OF TOP DRIVE UNIT |
| 15:00 - 18:00 | | 3.00 | 08 | | HOOK UP FLARE LINES, MAKE UP HYDRILIC LINES FOR BOPE, START TIGOA FORCED AIR HEATER, AND GEL MUD TANK GATES |
| 18:00 - 20:00 | | 2.00 | 08 | | RIG UP STEAM LINES IN PUMP SHED ,INSTALL HYDRAULIC FITTINGS ON BOPE FOR KOOMY |
| 20:00 - 23:00 | | 3.00 | 08 | | CHANGE OUT TOP DRIVE CHILLER UNIT WITH BOOM TRUCK |
| 23:00 - 00:00 | | 1.00 | 08 | | FINISH HOOKING UP STEAM LINES IN PUMP SHED, BUILD BURM AROUND INVERT STORAGE TANKS |
| 00:00 - 03:00 | | 3.00 | 08 | | CHANGE HOOKS ON TONG HANGING LINES, AND ADD WEIGHT TO COUNTER WEIGHTS |
| 11/17/2007 | 03:00 - 06:00 | 3.00 | 08 | | ROLL UP PIT LINEER, RIG UP DRILLRS STEAM HEATER, WORK ON COLLING LEAK ON DRAW WORKS, HANG BAILS ON TOP DRIVE |
| | 06:00 - 08:00 | 2.00 | 08 | | BREAK OUT UNION OUT OF SWIVEL/WORK ON COOLANT LINES ON DRAW-WORKS |
| | 08:00 - 14:00 | 6.00 | 08 | | HELP WELDERS ON FLARE LINES AND BUILD BLOW DOWN LINE ON BOILER |
| | 14:00 - 18:00 | 4.00 | 14 | | PICK UP ANNULAR, BLEW HOSE ON SNUBBING IN TRUCK (BOP LIFT SYSTEM WON'T PICK UP ANN.), SNUBBING TRUCK BLEW HYDRILIC LINE |
| 11/18/2007 | 18:00 - 03:00 | 9.00 | 14 | | INSTALL SPACER SPOOL AND ROT.HEAD, HAD B.C QUICK TEST TORQUE ALL CONECTIONS, PUT OIL IN KOOMY, AND CONNECT KOOMY LINES, FILL MUD TANKS HALF FULL AND INSTALL WALK WAYS IN SUB (SCAFOLDING) |
| | 03:00 - 06:00 | 3.00 | 01 | A | PUT BRACE IN FOR TOP DRIVE RAIL AND PICK UP TOOLS AROUND RIG |
| | 06:00 - 07:00 | 1.00 | 01 | A | PUT ELECTRIC MOTOR ON AGITATOR, TEST ALL MUD LINES (FIX LEAKS), AND CHECKED ALL AGITATORS |
| | 07:00 - 15:00 | 8.00 | 14 | | PUT CHOKE LINE IN (NOT TIGHT), CHANGE AROUND BLIND AND PIPE RAMS, FUNCTION TEST RAMS |
| | 15:00 - 18:00 | 3.00 | 01 | A | HOOK UP KELLY HOSE ADJUST TRACK, PUT VALVE IN FLOW LINE FOR TRIP TANK RETURN, UNLOAD MUD PRODUCTS, |
| | 18:00 - 21:00 | 3.00 | 01 | A | STRAIGHTEN UPTOPTRACK IN DERRRICK, |
| | 21:00 - 03:00 | 6.00 | 01 | A | HOOK UP FILLUP IN LINE, STAND PIPE, GAUGE ELEVATORS, GROUND BUILDINGS, BRING SUBS TO RIG FLOOR, BUILD LINE AND HANGNG CABLES FOR MUD BOX, BUILD LINE AND HANG PIPE SPINNERS, |
| 03:00 - 06:00 | 3.00 | 01 | A | BUILD BLEED OFF LINE ON #2 MUD PUMP, --WELD FABBED 1 EXTENTION-SLIDE FOR SHAKERS, FINISHED CELLER GRATTING, | |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|-------|------|----------|---|
| 11/19/2007 | 06:00 - 07:00 | 1.00 | 01 | A | PUT SAFETY LINE ON TOP DRIVE SERVICE LOOP IN DERRICK |
| | 07:00 - 09:00 | 2.00 | 01 | A | MOVE SCAFFOLDING FOR WELDER, PULL FLOOR PLATE AND PREPARE TO LOWER BOP HANDLING RAIL |
| | 09:00 - 12:30 | 3.50 | 08 | | FIX COOLANT LINE ON TOP DRIVE |
| | 12:30 - 13:30 | 1.00 | 01 | A | ADJUST COUNTER BALANCE ON TOP DRIVE |
| | 13:30 - 15:30 | 2.00 | 01 | A | LOWER BOP HANDLING RAIL AND LOAD OUT KELLY PIECES |
| | 15:30 - 18:00 | 2.50 | 01 | A | RE SET ROTATING HEAD AND SPACER SPOOL (TURN WHERE IT WOULD FACE STRAIGHT |
| | 18:00 - 21:00 | 3.00 | 01 | A | FINISH TIGHENING ROTATING HEAD AND ADJUST TOP DRIVE TRACK |
| | 21:00 - 21:30 | 0.50 | 01 | A | GET MEASURE MENT OF BOPE EQUIPMENT, AND RIG UP GERONIMO LINE |
| | 21:30 - 00:00 | 2.50 | 01 | A | MAKE CABLES TO CENTER BOPE, RIG UP CABLES IN SUB, PULL BOPE TO CENTER |
| | 00:00 - 02:30 | 2.50 | 01 | A | RIG UP PULLEY IN DERRRICK FOR WIRE LINE MACHINE, AND PULL CORD |
| | 02:30 - 04:30 | 2.00 | 01 | A | SET IN YELLOW DOGS AND RUN POWER CORDS |
| | 04:30 - 05:30 | 1.00 | 01 | A | ADJUST COUNTRER WEIGHT ON DERRRICK CLIMBER |
| | 05:30 - 06:00 | 0.50 | 01 | A | CHECK ALL SAFETY EQUIPMENT, AND FILL, UNLOAD WESTERN CHEMICAL BARRELS |
| 11/20/2007 | 06:00 - 18:00 | 12.00 | 01 | A | HOOK UP GERONIMO LINE, HELP WELDERS INSTALL ORBIT VALVE, TAKE OUT SCM BOARD IN TOP DRIVE HOUSE AND TROUBLE SHOOT COM BOARDS IN TOP DRIVE HOUSE, HOOK UP PASON AND INTER COM TO DERRICK, RIG UP YELLOW DOG, AND ROLL #2 MUD PUMP CHECK OILING IN PUMP CHECKED O.K. |
| | 18:00 - 21:00 | 3.00 | 01 | A | PRESSURE TEST MUD LINES TO 1000 PSI FIX LEAKS, TIGHTEN CAPS ON PUNPS, UNIONS, ECT. |
| | 21:00 - 23:00 | 2.00 | 01 | A | BUILD ROTATING MANIFOLD, HOOK UP OILER BOX AND HOOK UP FILL UP LINES |
| | 23:00 - 00:00 | 1.00 | 01 | A | REPLACE SHEIVE ON BOPE SNUB, AND RIG UP AND BLOW DOWN KELLY HOSE |
| | 00:00 - 02:30 | 2.50 | 01 | A | PUT 6" DRAIN IN BOTTOM OF GAS BUSTER, TURN FLAPPER IN VENT LINE, AND INSTALL BOLTS IN FLANGES IN BUSTER |
| | 02:30 - 04:00 | 1.50 | 01 | A | ADD GROUND RODS AND CABLES WHERE NEEDED AROUND RIG, BUILD HOESE FOR TRIP TANK |
| 11/21/2007 | 04:00 - 06:00 | 2.00 | 01 | A | RE ADJUST GERONIMO LINE, REBUILD AIR MANIFOLD, BLOW DOWN MUD LINES THRU PUMPS, REPLACE LAYDOWN LINE, CLEAN AND PUT AWAY TOOLS,WELD-- FLOW LINE FINISHED, HAVE BAR LINE ON TANKS, AND TROUGHS TO BUILD TO PIT, SAFETY ITEMS AROUND RIG |
| | 06:00 - 18:00 | 12.00 | 01 | A | HOOK UP LINE FOR TRIP TANK, AND INSTALL COM, CHECK OIL LEVELS IN PUMPS, AND DRAW-WORKS, INSTALLRETURN LINES IN FLARE BOX, MAKE UP BAR MANIFOLD, RIG UP AIR FOR AIR JAMMERS, REPLACED ECM BOARD IN TOP DRIVE HOUSE, WORK ON TOP DRIVE COUNTER BALANCE, INSTALL FOOTING ON WELL HEAD (READY TO CEMENT CELLER) |
| | 18:00 - 21:30 | 3.50 | 01 | A | PUT DIFFERNT SIZE CABLE ON BOPE CENTERING, AND SNUB CENTER AND PUT UP SUB TARP AND INSTALL PASON EQUIPMENT ON THE END OF DRUM SHAFT |
| | 21:30 - 23:00 | 1.50 | 01 | A | BUILD DIRT BURM OVER GAS BUSTER LINES AND INSTALL TARGET T ON THE END OF FLOW LINE AND INSTALL DIFFERNT TROUGHS FOR CENTER FUGES AND PUT DRAIN ON GAS BUSTER |
| | 23:00 - 01:30 | 2.50 | 01 | A | INSTALL MOUSE HOLE AND FIND BHA X-OVERS AND PICK TO RIG FLOOR AND RE PLUMB T-BLOCK ON CHOKE MANIFOLD TO |
| | 01:30 - 03:00 | 1.50 | 01 | A | REPAIR STEM LEAKS AROUND RIG AND PICK UP TRASH AND TOOLS AROUND RIG, |
| 11/22/2007 | 03:00 - 06:00 | 3.00 | 01 | A | RACK BHA AND STRAP AND HOUSE KEEPING AROUND RIG |
| | 06:00 - 14:00 | 8.00 | 01 | A | (CALLED AND NOTIFIED BLM OF BOP TEST- RAY ARNOLD) FUNCTION TEST |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|-------|------|----------|---|
| 11/22/2007 | 06:00 - 14:00 | 8.00 | 01 | A | BOPS REPAIR HYD. LEAKS FILL BOTTOM OF CELLAR W/ CMT TO BASE RING, CALB. PASON MUD VOLUME SYSTEM WITH MUD TANKS, ADJUST LINK TILT ON TOP DRIVE, START RIGGING UP YELLOW DOGS TO PUMP WATER FROM UP RIGHT TANKS OR WAIST PIT & FAB. & INSTALL SHAKER CUTTING SLIDES CONT. TO FRAB. & INSTALL BARITE LINES ON SUCTION TANKS INSTALL ROT. MOUSE HOLE |
| | 14:00 - 18:00 | 4.00 | 01 | A | RIG UP & P/UP TESTING EQUIPMENT |
| | 18:00 - 06:00 | 12.00 | 08 | D | P/T BOPS ATT. TO TEST UPPER RAMS OBSERVE LOWER RAMS LEAKING @ DOOR REPLACE DAMAGED BONNET RUBBERS ATT. TO TEST U.RAMS BLIND RAMS LEAKING @ DOORS RE-TIGHTEN BONNET BOLTS & RETEST SAME LEAK ATT. PULL OUT TEST JOINT DRAWWORKS WOULD NOT WORK SHUT OFF POWER & RE-BOOT SYSTEM STILL NOT OPERATING CALLED UNIT TECHNICIAN & ELE. DISCUSS OVER PHONE THE PROBLEM THEY WAS UNABLE TO FIX PROBLEM OVER THE PHONE AT THE MOMENT THE TECHICAN AND ELE. IS IN ROUTE TO THE RIG SITE. |
| 11/23/2007 | 06:00 - 18:30 | 12.50 | 08 | | WAIT ON UNITS ELECTRICAN ARRIVED @ 1330 HRS TROUBLE SHOOT FOUND LOOSE CONNECTION TO POWER SUPPLY GOING TO DRILLER CONSOLE SWITCH PANEL (DC MODULE WAS NOT GETTING POWER) PULL OUT TEST JOINT & CHANGE OUT BONNET SEAL RUBBERS ON BLIND RAMS DOORS. |
| | 18:30 - 22:30 | 4.00 | 08 | D | |
| | 22:30 - 03:00 | 4.50 | 15 | | TEST BOPS ANN. LOW 250 PSI HIGH TEST 3500 PSI, ALL RELATED BOPS & EQUIPMENT TESTED W/ LOW 250 PSI & HIGH 5000 PSI (SHELL TESTED BOPS & CHOKE MANIFOLD TO 10000 PSI) P/TEST SUFACE CASING 1500 PSI |
| 11/24/2007 | 03:00 - 06:00 | 3.00 | 19 | C | PICK UP BHA & NEW DRILL PIPE |
| | 06:00 - 11:00 | 5.00 | 08 | | ATTEMPT TO TORQUE UP BHA CONNECTIONS M/UP TONG LINE ON CAT HEAD WAS TO LONG RECUT & ATT. TO TORQUE UP FIRST CONNECTION BLOW HYDRAULIC HOSE ON M/UP CAT HEAD CYLINDER REPLACE HYD. HOSE |
| | 11:00 - 15:00 | 4.00 | 06 | J | M/UP BIT ON NEW SUBS & COLLARS (M/UP & BREAK OUT NEW CONNECTION TWICE DUE TO NEW BHA) |
| 11/25/2007 | 15:00 - 03:00 | 12.00 | 06 | | P/UP NEW DRILL PIPE TORQUE UP BREAK LOOSE & RE-TORQUE ALL CONNECTION (TOTAL DRILL PIPE P/UP & IN DERRICK 2104') |
| | 03:00 - 06:00 | 3.00 | 08 | | DRAWWORKS STOP WORKING (LOST POWER SUPPLY TO DC MODULE) |
| | 06:00 - 14:00 | 8.00 | 08 | | REPAIR DRAWWORKS LOST POWER TO DC MODULE |
| 11/26/2007 | 14:00 - 06:00 | 16.00 | 06 | | P/UP NEW 5' DRILL PIPE TORQUE UP & BREAK OUT & RE-TORGUE ALL CONNECT. |
| | 06:00 - 20:00 | 14.00 | 06 | | AND RACK BACK IN DERRICK (TOTAL 53 STDS IN DERRICK) |
| | 20:00 - 21:00 | 1.00 | 25 | | PICK UP NEW HWDP & TORQUE UP & BREAK OUT & M/UP RIH W/ 12 1/4 BHA TAG TOP OF CMT. 469' |
| 11/27/2007 | 21:00 - 06:00 | 9.00 | 08 | | DRILL OUT CMT. F/ 469' TO TOP OF L/C @ 476' BRAKES SYSTEM NOT WORKING UNABLE TO MAINTAIN CORRECT BIT WT |
| | 06:00 - 06:00 | 24.00 | 08 | | ATT. TO WORK STRING AND ADJUST AIR RELAY VALVE TO CONTROL DRILL STRING SPEED (CALL UNITS SUP. & MECH.) WAIT ON MECH. |
| | | | | | ON UNITS TIME (DRAWWORKS NOT WORKING PROPERLY BRAKES NOT HOLDING TROUBLE SHOOT FOR THE PAST 24 HOURS WITH RIG SUP. & TOOLPUSHER REPLACE HYD HOSES THAT WAS LEAKING GOING TO HYD. BRAKE CONTROL & BOTH AIR RELAY VALVE & CONTROL VALVE ON DRILLER CONSOLE ATT. TO WORK STRING STILL BRAKE NOT HOLDING STRING WT PROPERLY (WAIT ON UNITS HEAD MECHANIC) |
| 11/28/2007 | 06:00 - 13:00 | 7.00 | 08 | | REPAIR DRAWWORKS - REMOVE QUICK RELEASE @ EATON BRAKE TO STOP AIR FROM DUMPING QUICKLY PER EATONS RECOMONDATION WHICH WAS CAUSING THE BRAKE TO OPERATE ERRATICLY REPLACED H-4 VALVE REPLACED RELAY VALVE , EXTENDED BRAKE HANDLE 6" |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|-------|------|----------|---|
| 11/28/2007 | 13:00 - 15:30 | 2.50 | 02 | D | DRILL OUT SHOE TRACK & 15' 12 1/4 HOLE |
| | 15:30 - 16:00 | 0.50 | 08 | E | FIT EQUIVALENT TEST TO 10.5 PPG |
| | 16:00 - 16:30 | 0.50 | 25 | | HOLD SAFETY MEETING W/ BASIC AIR CREW & RIG CREWS |
| | 16:30 - 18:00 | 1.50 | 05 | A | DRILL OUT RAT HOLE F/ SHOE TO 540' |
| | 18:00 - 18:30 | 0.50 | 25 | | HOLD SAFETY MEETING W/ BASIC AIR CREW & RIG CREWS |
| | 18:30 - 22:30 | 4.00 | 03 | A | DRILL F/ 540' TO 676' (136' @ 34' FPH) 2000 +/- CFM, ATT. TO MAINTAIN 20 WOB |
| | 22:30 - 23:00 | 0.50 | 25 | | STOP DRILLING PICK UP & WORK ON BASIC (AIR) PUMP |
| 11/29/2007 | 23:00 - 02:30 | 3.50 | 03 | A | DRILL F/ 676' TO 817' (141' @ 41' FPH) 2000+/- CFM WOB 20 |
| | 02:30 - 03:00 | 0.50 | 25 | | PICK UP & WORK ON BASIC (AIR) PUMP |
| | 03:00 - 06:00 | 3.00 | 03 | A | DRILL F/ 817' TO 940' (123' @ 41' FPH) 2000 +/- CFM WOB 20 |
| | 06:00 - 13:30 | 7.50 | 03 | A | DRILL F/ 940' TO 1284' (344' @ 45.8' FPH) WOB 15-20 CFM 1950 +/- |
| | 13:30 - 16:00 | 2.50 | 05 | | CIR. HOLE CLEAN FLOW LINE & FLARE BOX FULL OF CUTTING REMOVE CUTTING |
| 11/30/2007 | 16:00 - 06:00 | 14.00 | 03 | A | DRILL F/ 1284' TO 1820' (536' @ 38.2' FPH) WOB 10 CFM 2000 +/- |
| | 06:00 - 07:30 | 1.50 | 02 | | DRILL F/ 1815' TO 1861' (46' @ 30.6 FPH) WOB 15 2000 +/- CFM |
| | 07:30 - 10:00 | 2.50 | 06 | | TRIP TO 1420' |
| | 10:00 - 12:00 | 2.00 | 06 | | TRIP IN HOLE REAMED LAST TWO STDS |
| | 12:00 - 18:00 | 6.00 | 02 | | AIR DRILL 12 1/4" HOLE F/ 1861' TO 2085' (224' @ 37.3) WOB 15 2000 +/- CFM |
| | 18:00 - 19:00 | 1.00 | 02 | | AIR DRILL 12 1/4" HOLE F/ 2085' TO 2149' (64' @ 64') WOB 25-34 2000 +/- CFM |
| | 19:00 - 20:00 | 1.00 | 02 | | RIG SERVICE |
| | 20:00 - 00:00 | 4.00 | 02 | | AIR DRILL 12 1/4" HOLE F/ 2149' TO 2384' (235' @ 59') WOB 22-32 2000 +/- CFM |
| | 00:00 - 01:00 | 1.00 | 08 | E | STOP DRILLING BOLT FELL OUT OF DERRICK (INSPECTED DERRICK FOUND BOLT WORK LOOSE ON TOP DRIVE RAIL) TOP CLAMP INSTALL BOLT TORQUE SAME AND FOUND TO MORE LOOSE ON CLAMP |
| | 01:00 - 04:30 | 3.50 | 03 | A | AIR DRILL 2384' TO 2527' (143' @ 41') WOB 20- 32 2000 +/- CFM |
| 12/1/2007 | 04:30 - 05:30 | 1.00 | 02 | | MAKE CONNECTION ATT. TO CIR. HOLE PACKED OFF, BLEED PRESSURE OFF ATT. TO ROTATE STRING TOP DRIVE STOP WORKING, SET DRILL PIPE SLIPS TURN STRING FREED & CIR. FOR 15-MIN. (FOUND TOP DRIVE BREAKER OFF IN SCR HOUSE) |
| | 05:30 - 06:00 | 0.50 | 05 | | CIR. HOLE CLEAN @ 2527' |
| | 06:00 - 07:00 | 1.00 | 02 | | AIR DRILLED F/ 2527' TO 2622' (95' @ 95' FPH) WOB 20 TO 35 2100 +/- CFM |
| | 07:00 - 16:00 | 9.00 | 06 | | MAKED A CONNECTION ATT. TO CIR HOLE PACKED OFF BACK REAM (SLOWLY TO 2574' UNTIL ESTABLISH CIR. (TIGHT HOLE @ 2598' & 2586') |
| | 16:00 - 19:00 | 3.00 | 05 | | WORK STRING & CIR. HOLE CLEAN @ 2574' |
| | 19:00 - 20:00 | 1.00 | 03 | | REAM BACK TO BOTTOM F/ 2574' TO 2622' (OBSERVED TRONA WATER FLOW) |
| | 20:00 - 20:30 | 0.50 | 02 | | ATT. TO DRILL TAG BOTTOM STRING STALLED OUT PICK UP OFF BOTTOM OBSERVED FOR RETURNS ONLY (WATER NO FOAM RETURNS) |
| | 20:30 - 00:00 | 3.50 | 25 | | SAFETY MEETING WITH CREW & LINE UP STAND PIPE MANIFOLD ON AIR & MUD PUMPS ATT. TO PUMP WITH MUD PUMPS (BLOW POP OFF VALVE) ATT. TO RUN # 2 MUD PUMP W/ 80 SPM (PUMP AIR LOCK) WORK ON BOTH PUMPS REPAIR # 1 MUD PUMP & CIR. W/ #2 PUMP THROUGH BLEED OFF LINE TO TANKS TO GET AIR OUT OF SYSTEM (NOTE: MUD PROBLEM WAS DUE TO TRYING TO PUMP WATER FROM THE WATER PIT WHICH WAS CON. W/ FOAM (DISCUSS W/ MUD E. TO TRANFER PIT WATER TO TANK # 4 AND TREAT FIRST AND AFTER TRANSFER TO SUCTION TANK |
| 12/2/2007 | 00:00 - 06:00 | 6.00 | 02 | | DRILL F/ 2670' TO 2830' (160' @ 27' FPH) NOTE: TOP DRIVE GETTING HOT CAUSING TO P/U OFF BOTTOM & RE-SET BREAKER) TOP DRIVE ENG. IS ON SITE TROUBLE SHOOTING THE PROBLEM |
| | 06:00 - 10:30 | 4.50 | 05 | | MAKE MOUSEHOLE CONNECTION & ATT. TO CIR. HOLE PACKED OFF WORK STRING ATT. TO ESTABLISH CIR. W. NO SUCCESS |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|-----------|---------------|-------|------|----------|---|
| 12/2/2007 | 10:30 - 17:30 | 7.00 | 03 | | BACK REAM F/ 2814' TO 2754' DUMPED 5 GAL POLYMER, 3 GAL. SOAP PRESSURED UP TO 1250 PSI W/ AIR |
| | 17:30 - 18:00 | 0.50 | 05 | | PIPE CAME FREE & GOT RETURNS CIR HOLE CLEAN W/ 194 GPM RESERVE PIT WATER & 1600 CFM OF AIR @ 400 PSI WHILE MUDDING UP |
| | 18:00 - 20:00 | 2.00 | 05 | | CIR. W/ # 2 PUMP @ 45 SPM AIR 400 CFM STD PIPE 352 PSI |
| | 20:00 - 20:30 | 0.50 | 05 | | SHUT AIR OFF BROUGHT # 1 & # 2 PUMPS ON LINE @ 40 SPM 8.4 PPG @ 352 GPM |
| | 20:30 - 22:00 | 1.50 | 05 | | GOT RETURNS FLUSHING AIR OUT OF HOLE @ PUMPS # 1 & # 2 @ 45 SPM 397 GPM |
| | 22:00 - 03:00 | 5.00 | 05 | | CIR. & RAISE MUD WT |
| | 03:00 - 06:00 | 3.00 | 08 | | TOP DRIVE STOP ROTATING LOST POWER TO UNIT STILL CIR. HOLE & RAISE MUD WT. |
| 12/3/2007 | 06:00 - 18:00 | 12.00 | 05 | | BUILD MUD & CIR. RAISE MUD WT TO 9.2 PPG |
| | 18:00 - 00:00 | 6.00 | 05 | | CONT. TO CIR. & INCREASE MUD WT TO 9.5 PPG |
| | 00:00 - 01:30 | 1.50 | 06 | | PUMP PILL TOO H PULLED TIGHT @ 2445' |
| 12/4/2007 | 01:30 - 06:00 | 4.50 | 03 | | BACK REAMING F/ 2445' TO 2105' |
| | 06:00 - 07:30 | 1.50 | 03 | | BACK REAMING F/ 2121' TO 2048' (PIPE STUCK @ 2048') |
| | 07:30 - 09:30 | 2.00 | 03 | | PIPE GOT STUCK WORK STUCK PIPE JAR DOWN ON PIPE FREE PIPE |
| 12/5/2007 | 09:30 - 18:00 | 8.50 | 03 | | BACK REAMING F/ 2048' TO 1365' (NOTE: USING VERY HIGH HYD. PRESSURE TO BREAK OUT CONNECTIONS) |
| | 18:00 - 21:30 | 3.50 | 03 | | BACK REAMING F/ 1365' TO CASING SHOE FLOW CHECK - OK |
| | 21:30 - 23:00 | 1.50 | 06 | | TRIP OUT OF HOLE TO SURFACE |
| | 23:00 - 00:00 | 1.00 | 06 | J | LAY DOWN IBS & BREAK OUT 12 1/4 BIT |
| | 00:00 - 06:00 | 6.00 | 08 | | REPAIR DRAWWORKS (EATON BRAKE PISTON SYSTEM) |
| | 06:00 - 06:30 | 0.50 | 08 | | WORK ON EATON BRAKE |
| | 06:30 - 10:00 | 3.50 | 06 | | TRIP IN HOLE W/ NEW 12 1/4 BIT TAG RESISTANCE @ 565' |
| | 10:00 - 00:00 | 14.00 | 03 | | WASH & REAM F/ 565' TO 2749' |
| | 00:00 - 02:30 | 2.50 | 05 | | CIR. & CLEAN HOLE PUMPING SWEEPS FOR SURVEY |
| | 02:30 - 03:00 | 0.50 | 10 | | SURVEY @ 2648' 1/4" DEG. DIR. 351.3 TVD @ 2648' |
| 12/6/2007 | 03:00 - 05:00 | 2.00 | 03 | | WASH & REAM F/ 2749' TO BOTTOM @ 2830' |
| | 05:00 - 06:00 | 1.00 | 02 | | DRILL F/ 2830' TO 2870' (40' @ 40' FPH) WOB 25 RPM 120 |
| | 06:00 - 09:30 | 3.50 | 03 | A | DRILL FROM 2862 TO 2902 (ROP 11.4' HR)(LOST POWER TO RIG-COULDN'T CIRCULATE, ROT, PICK UP OFF BOTTOM) |
| | 09:30 - 10:30 | 1.00 | 08 | | REPAIR BLOWN FUSE IN PLC PANEL IN SCR AND BLOWN FUSE IN DRILLER CONSOLE |
| | 10:30 - 13:30 | 3.00 | 03 | | BACK REAM FROM 2902 TO 2850/ PACKED OFF AND COULDN'T CIRCULATE LOST APROX. 300 BBL.S TO TRYING TO CIRCULATE, REGAINED CIRCULATION |
| | 13:30 - 14:00 | 0.50 | 25 | | RE INSTALL ROTATING HEAD, PULLED THRU FLOOR WHEN BACK REAMING |
| | 14:00 - 15:30 | 1.50 | 05 | | CIRCULATE WITH #2 PUMP WORK PIPE TO BOTTOM AND REPAIR POP OFF ON #1 PUMP |
| | 15:30 - 20:00 | 4.50 | 02 | | DRILL FROM 2902 TO 2962 (ROP 13.3' HR) WOB 20-30, DIFFERNT ROT. SPEEDS, |
| | 20:00 - 21:00 | 1.00 | 08 | | CIRCULATE AND TIGHTEN TURN BUCKLES IN DERRICK TORQUE TUBE SWAYING ALOT NEED TO PUT MORE TURN BUCKLES, TO STIFFEN THE TORQUE TUBE UP |
| | 21:00 - 06:00 | 9.00 | 02 | | DRILL FROM 2962 TO 3075 (ROP 12' HR) CUT BACK ON PUMP STROKES STARTED LOSSING MUD 50 BBL.S HR. BEEN PUMPING 15% LCM SWEEPS REGAIN ALL MOST TOTAL RETURNS (TOTAL LOSSES 350 BBL.S) |
| 12/7/2007 | 06:00 - 10:30 | 4.50 | 02 | | DRILL FROM 3075 TO 3151 |
| | 10:30 - 11:00 | 0.50 | 07 | | RIG SERVICE (TOP DRIVE AND BLOCKS AND SWIVEL) |
| | 11:00 - 13:30 | 2.50 | 02 | | DRILL FROM 3131 TO 3154, HAD EXESIVE TORQUE, WHEN BUILDING PILL TO TRIP OUT, ALL RETURNS---THE BRAKE DOES SLACKS OFF GOOD FOR A |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|---------------|---------------|---------------|------|----------|--|
| 12/7/2007 | 11:00 - 13:30 | 2.50 | 02 | | WHILE(COUPLE HR.S, THEN QUIT TOTALY THEN WHEN DRILLER GOES TO ADJUST AIR CONTROL REGULATER IT SLACKS OFF 20K-30K OVER DISIRED WOB |
| | 13:30 - 20:00 | 6.50 | 05 | C | LOST CIRCULATION PULLED AND RACKED BACK ONE STAND, WORK PIPE AND BUILD AND PUMP 15% LCM SWEEP (100 BBL), REGAIN PARTAIL RETURNS, PUMPED 35% LCM SWEEP AND REGAINED RETURNS--HOLE TOOK 1500 BBL DRINK, BUILD VOLUME TO TRIP OUT |
| | 20:00 - 21:30 | 1.50 | 05 | | CIRCULATE WHILE BUILDING PILL FOR TRIP, HAD PROBLEMS WITH VALVES AND WITH PUMPS FOR HOPPERS, BUILD 1# OVER PILL |
| | 21:30 - 22:00 | 0.50 | 10 | | DROP SURVEY @ 3035 .3 DEG, 306.9 |
| | 22:00 - 22:30 | 0.50 | 06 | | TRIP OUT OF HOLE 5 STANDS (HOLE CLEAN NO OVER PULL) TO CHANGE BIT TO PICK UP HC- 605 AND MUD MOTOR |
| | 22:30 - 23:00 | 0.50 | 25 | | PULL ROTATING HEAD, AND BLOW DOWN KELLY HOSE |
| | 23:00 - 03:00 | 4.00 | 06 | A | TRIP OUT OF HOLE FOR BIT TIGHT FORM 2403-2219, 1390-1207 AND REST OF THE WAY OUT OF THE HOLE HAD ALOT OF DRAG |
| | 03:00 - 04:30 | 1.50 | 06 | A | HANDLE BHA LAY DOWN BIT SUB AND BIT, PICK UP MUD MOTOR (HUNTING .24) AND NEW BIT |
| 12/8/2007 | 04:30 - 06:00 | 1.50 | 06 | A | TRIP IN HOLE WITH NEW BIT |
| | 06:00 - 10:00 | 4.00 | 06 | A | TRIP IN HOLE WITH NEW BIT TAGGED BRIDGE @ 2219 TO 2260 WASHED THRU |
| | 10:00 - 10:30 | 0.50 | 03 | | SAFETY WASH AND REAM FROM 3071 TO 3154 (5' FILL) |
| | 10:30 - 11:30 | 1.00 | 02 | | DRILL FROM 3154 TO 3166 -TRY TO WORK WITH AUTO DRILLER PERAMETERS SO DRAW WORKS WOULDN'T DUMP WEIGHT ON BIT TRYING TO HOLD 5K ON BIT- GETTING 12-15K BRAKE LETS OUT TO MUCH DRILLING LINE WHEN BRAKE HANDLE JACKS OFF |
| | 11:30 - 12:00 | 0.50 | 07 | | SERVICE TOP DRIVE AND BLOCKS, CROWN, SWIVEL |
| | 12:00 - 17:00 | 5.00 | 02 | | DRILL FROM 3166-3219 WORKING DIFFERNT PERAMETERS WITH BRAKE HANDLE, ALSO PUSHER TALKED TO HEAD MECHANIC IN OKC (MIKE ALMOND)-WE CHECKED TO SEE IF HYDRILIC BRAKES WERE BLEEDING OFF(PRESSURES GOOD), TRIED TO LET THE CONTROL HANDLE TAKE MORE OF THE WEIGHT BY AJUSTING H4-VALVE, TRIED PUTTING BRAKE IN 25%(NOT HOLDING ENOUGH WITH H4 VALVE-BRAKE), 75%(WHAT WE HAVE BEEN DRILLING WITH), 100% (WOULDN'T SLACK ANY WEIGHT OFF), HAND DRILLED- WORKED THE BEST KEPT WITH IN 3K OF DESIRED WEIGHT |
| | 17:00 - 19:00 | 2.00 | 08 | | DRILL BY HAND AND AUTO DRILLER WITH UNIT SUPT. (ED PHELPS) ON FLOOR SO HE COULD OBSERVE WHATS GOING ON WITH THE BRAKE, (WE DISCOVERED THAT THE BRAKE HANDLE HAS TO BE IN A HIGHER POSTION TO LET OFF WEIGHT DRILL STRING THAN 180 DEG. ON DRUM (SEEMS THAT SOMETHING MIGHT BE DRAGGING OR OUT OF BALANCE-BUT THERE ISN'T ALOT OF VIBIRATION WHEN TRIPPING) |
| | 19:00 - 23:00 | 4.00 | 06 | | TRIPPING TO SHOE TO WORK ON BRAKES SO THAT WE CAN HOLD A CONSTANT W.O.B. (MECHANICS ON THERE WAY FROM PINEDALE AREA-SHOULD BE HERE THIS A.M. |
| | 23:00 - 06:00 | 7.00 | 08 | | WAIT ON MECHANIC TO LOOK OVER BRAKES, ARRIVED ON LOCATION @ 4 AM, MECHANIC LOOKING OVER HYDRIL IC BRAKE SYSTEM-MECHANIC ARRIVED @ 4 AM |
| | 12/9/2007 | 06:00 - 07:00 | 1.00 | 08 | |
| 07:00 - 08:00 | | 1.00 | 06 | | TRIP IN HOLE TO 1,210 TAGGED SOILD-HAD PEA GRAVEL COMING BACK WHEN WASHING THRU |
| 08:00 - 09:00 | | 1.00 | 03 | | WASH AND REAM FROM 1,210 TO 1,245 WORKED THRU SPOT |
| 09:00 - 10:30 | | 1.50 | 06 | | TRIP IN TO 3,144 TRIP WAS GOOD (HOLE CLEAN) |
| 10:30 - 11:00 | | 0.50 | 03 | | SAFETY WASH FROM 1,245 TO 3,219 HAD 5' FILL |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|---------------|---------------|---------------|------|----------|---|
| 12/9/2007 | 11:00 - 12:00 | 1.00 | 08 | | WORK WITH AIR BRAKE TO SEE IF IT WOULD HOLD CONSTANT WEIGHT AND SLACK OFF LINE CONSISTANT TRIED DIFFERENT SETTINGS WORKED BEST (BRAKE 25% WITH 35 PSI ON H-4 VALVE) |
| | 12:00 - 14:30 | 2.50 | 02 | | DRILL FROM 3,219 TO 3,261 (ROP 16.8) WOB 3-6, ROT 30-40, SPM 75/75, |
| | 14:30 - 15:00 | 0.50 | 08 | | CHANGE OUT BRAKE RELEASE VALVE (PER UNIT SUPT.) |
| | 15:00 - 20:00 | 5.00 | 02 | | DRILL FROM 3261 TO 3,357(ROP 19.2 HR) ,STARTED @ 3295 SEEPING 10 BBLs AN HOUR, PUMPING 15% LCM SWEEPS (20 BBLs) EVERY HOUR --- PIPE SHIMMERING -NO TORQUE SHOWING ON TOP DRIVE CONSOLE, AND NO VISUL VERTICAL BOUNCE ON SURFACE-SHAKES DERRICK-GOING TO CHECK TOP DRIVE ON CONNECTION |
| | 20:00 - 21:00 | 1.00 | 07 | | WORK ON TOP DRIVE CABLES- MAKE SURE ALL CABLES ARE TIGHT(CHECKED OK), CHECK TIMING OF TOP DRIVE MOTORS (CHECKED OK), OPENED TOP DRIVE CONTROL BOX AND FOUND SOME LOOSE WIRES-TOP DRIVE DON'T SHIMMER ANY MORE |
| | 21:00 - 04:30 | 7.50 | 02 | | DRILL FROM 3,357 TO 3,519(ROP 21.6' HR) HOLE HASN'T TAKEN ANY FLUID SINCE 3,332 |
| | 04:30 - 05:00 | 0.50 | 25 | | CLEAN SUCTION SCREEN ON #1 PUMP |
| | 05:00 - 05:30 | 0.50 | 25 | | CLEAN SUCTION SCREEN ON #2 PUMP |
| | 05:30 - 06:00 | 0.50 | 02 | | DRILL FROM 3519 TO 3530 (ROP 20' HR) WOB 7, ROT 40, SPM 75/75, NO LOSSES, BG GAS 15, |
| | 12/10/2007 | 06:00 - 11:00 | 5.00 | 02 | |
| 11:00 - 12:00 | | 1.00 | 11 | | SURVEY @ 3565 .3 DEG 231 AZ |
| 12:00 - 16:30 | | 4.50 | 02 | | DRILL FROM 3643 TO 3743 (ROP 22.2) SAME PERRAMETERS, PULL SUCTION SCREENS OUT/ PACKING OFF WITH NUT PLUG |
| 16:30 - 17:00 | | 0.50 | 07 | | SERVICE RIG, GREASE BLOCK, SWIVEL, TOP-DRIVE |
| 17:00 - 06:00 | | 13.00 | 02 | | DRILL FROM 3743 TO 4005 (ROP 20.1) WORK DIFFERNT PERAMETERS HOLE SEEPING @ 10 BBL HR |
| 12/11/2007 | 06:00 - 14:00 | 8.00 | 02 | | DRILLING FROM 4005 TO 4120 (ROP 14.4' HR) |
| | 14:00 - 14:30 | 0.50 | 07 | | RIG SERVICE (TOPDRIVE, BLOCKS, SWIVEL, CROWN) |
| | 14:30 - 23:30 | 9.00 | 02 | | DRILL FROM 4120 TO 4311 (ROP 21.2) |
| | 23:30 - 00:30 | 1.00 | 10 | | CIRCULATE AND SURVEY .3 DEG 5.1 AZ |
| | 00:30 - 02:00 | 1.50 | 02 | | DRILL FROM 4311 TO 4327 (ROP 10.6) HAD HIGH PUMP PRESSURE AFTER CONNECTION |
| | 02:00 - 02:30 | 0.50 | 05 | | CIRCULATE WELL AND BUILD TRIP SLUG |
| 12/12/2007 | 02:30 - 06:00 | 3.50 | 06 | | PUMP TRIP SLUG AND TRIP OUT OF HOLE, PULL 5 STANDS, BLOW DOWN KELLY HOSE AND PULL ROT. RUBBER, HAD TO BACK REAM FROM 1207 TO 1185 |
| | 06:00 - 08:00 | 2.00 | 06 | A | TRIP OUT HOLE TO CHANGE OUT BIT AND MUD MOTOR |
| | 08:00 - 09:30 | 1.50 | 06 | J | BREAK BIT AND LAY DOWN MUD MOTOR (HUNTING .24) AND PICK UP MOTOR (HUNTING .16) AND BIT |
| | 09:30 - 10:00 | 0.50 | 06 | | TRIP IN TO SHOE (502') |
| | 10:00 - 10:30 | 0.50 | 08 | | FIND GROUND FAULT IN SCR HOUSE (#1 TRIP TANK PUMP) |
| | 10:30 - 11:00 | 0.50 | 07 | | RIG UP CHAINS ON BAILS TO TOP DRIVE, GREASE TOP DRIVE |
| | 11:00 - 14:00 | 3.00 | 06 | | TRIP IN HOLE HAD TO WASH THRU 1,207 TO 1,235 PEA GRAVEL |
| | 14:00 - 15:00 | 1.00 | 03 | | SAFETY WASH AND REAM FROM 4,212 TO 4,327 |
| | 15:00 - 06:00 | 15.00 | 02 | | DRILL FROM 4327 TO 4585 (ROP 17.2' HR) WOB 5-10, DHRPM 181, BG GAS 10, HOLE SEEPING 2-3 BBLs HOUR |
| | 12/13/2007 | 06:00 - 13:30 | 7.50 | 02 | |
| 13:30 - 14:00 | | 0.50 | 07 | | RIG SERVICE, TOP DRIVE, DRAW WORKS |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|-------|------|----------|--|
| 12/13/2007 | 14:00 - 14:30 | 0.50 | 08 | C | REPAIR POP OFF ON #1 PUMP |
| | 14:30 - 16:00 | 1.50 | 02 | | DRILL FROM TO 4691 TO 4730 (ROP 26' HR) |
| | 16:00 - 19:00 | 3.00 | 05 | | LOST TOTAL CIRCULATION PUMP 200BBL 15% LCM PILL, REGAINED PARTIAL RETURNS, PUMPED 25 BBL(2-50# BAG POLY SWELL SWEEP DOWN HOLE), REGAIN CIRCULATION AND STAGED UP PUMPS (TOTAL LOSSES 275 BBL) |
| | 19:00 - 00:00 | 5.00 | 02 | | DRILL FROM 4730 TO 4785 (ROP 11' HR) |
| | 00:00 - 00:30 | 0.50 | 08 | | FIX POP OFF ON #1 PUMP |
| | 00:30 - 01:30 | 1.00 | 02 | | DRILL FROM 4785 TO 4795 (ROP 10' HR) |
| | 01:30 - 02:00 | 0.50 | 25 | | RE CALIBRATE HOOK LOAD AND WEIGHT ON BIT (STRING WEIGHT JUMPED TWO TIMES WEIGHT- DRILL TRIED TO RE CALIBRATE ON CONNECTION ARE DIDN'T DO IT RIGHT-HES NEVER WORK WITH A PASON BEFORE) |
| | 02:00 - 06:00 | 4.00 | 02 | | DRIL FROM 4795 TO 4860 (ROP 16.25 ' HOUR)WOB 10-15, SPM 80/80, BG GAS 25, SEEPING 10 BL HR |
| 12/14/2007 | 06:00 - 07:30 | 1.50 | 02 | | DRILL FROM 4860 TO 4871 HAD PUMP PRESSURE GAIN AND MOTOR WANTING TO STALL (TORQUE), WENT TO PULL SCREEN IN DRILL PIPE AND SCREEN WAS MISSING STRAINER PORTION |
| | 07:30 - 08:30 | 1.00 | 05 | | CIRCULATE, BUILD TRIP SLUG, FILL TRIP TANK |
| | 08:30 - 14:30 | 6.00 | 06 | | PUMP TRIP SLUG AND TRIP OUT OF HOLE FOR DRILL PIPE SCREEN, CHANGE BIT AND MOTOR-HAD 4 CONNECTIONS THAT WERE TIGHT-DRILL PIPE SCREEN WAS FOUND IN CROSS OVER FROM 4 1/2 IF TO 4 1/2 XH(ON TRIP OUT OR IN DIDN'T SEE ANYTHING 1200-HOLE WAS IN GREAT SHAPE) |
| | 14:30 - 16:00 | 1.50 | 06 | J | HANDLE BHA CHANGE OUT MOTOR AND BIT |
| | 16:00 - 17:00 | 1.00 | 06 | | TRIP INTO SHOE 502' AND TEST MUD MOTOR |
| | 17:00 - 21:00 | 4.00 | 06 | | TRIP INTO HOLE BREAK CIRULATION EVERY 2 ROWS (20 STANDS) TO 4786 |
| | 21:00 - 21:30 | 0.50 | 03 | | SAFETY WASH AND REAM FROM 4786 TO 4871 |
| | 21:30 - 03:00 | 5.50 | 02 | | DRILL FROM 4871 TO 4980 (ROP 19.8) WOB 5-12, RPM 40, DHRPM 125, MW 9.7 VIS 40, BG GAS 35 UNITS TRYING TO CONTROL SLIP STICK |
| | 03:00 - 04:00 | 1.00 | 10 | | SURVEY @ 4900, 2 DEG, 216 AZ |
| 12/15/2007 | 04:00 - 06:00 | 2.00 | 02 | | DRILL FROM 4980 TO 5000 (ROP 10' HR) WOB 10, RPM 40, DHRPM 125 |
| | 06:00 - 15:00 | 9.00 | 02 | | DRILL FROM 5,000 TO 5,075 (ROP 8.4) WORKED ALL DIFFERNT PERAMETERS TO GET BIT TO DRILL (NOTHING WORKS) PUMPING BIT BALLING SWEEPS, PUT SAPP DOWN DRILL PIPE, FRESH WATER SWEEP HAD HAVE SOME SLIP STICK |
| | 15:00 - 15:30 | 0.50 | 07 | | SERVICE TOP DRIVE AND BLOCKS |
| | 15:30 - 16:30 | 1.00 | 05 | | MIX TRIP SLUG AND PUMP SLUG TO TRIP OUT |
| | 16:30 - 22:00 | 5.50 | 06 | | TRIP OUT OF HOLE BIT QUIT DRILLING |
| | 22:00 - 23:00 | 1.00 | 06 | J | HANDLE BHA LAY DOWN MUD MOTOR, BIT AND PICK UP NEW,MOTOR, BIT |
| | 23:00 - 03:30 | 4.50 | 06 | A | TRIP IN HOLE AND TEST MUD MOTOR, FILL EVERY 2 ROWS |
| | 03:30 - 04:00 | 0.50 | 03 | | SAFETY WASH AND REAM FROM 4,980 TO 5,075 NO FILL |
| | 04:00 - 06:00 | 2.00 | 02 | | DRILL FROM 5075 TO 5110 (ROP 17.5' HR) WOB 5, DHRPM 210, MW 9.8 VIS 41 |
| 12/16/2007 | 06:00 - 16:30 | 10.50 | 02 | | DRILLING FROM 5, 110 TO 5,171 (ROP 5.8' HR) TRYING ALL DIFFERNT PERAMETERS, PUMPING BIT BALL SWEEPS, LOOKING AT OFF SETS WELLS IN THIS AREA DRILLED AS SLOW (11" HOLE DRILLED @ 6.3' HR THRU THIS SECTION), 80 % SHALE, 10 % SILTSTONE, 10% SAND STONE, TRACE OF LIMESTONE |
| | 16:30 - 17:00 | 0.50 | 07 | | SERVICE RIG AND TOP DRIVE, BLOCK AND SWIVEL |
| | 17:00 - 06:00 | 13.00 | 02 | | DRILL FROM 5,171 TO 5,239 (ROP 5.2' HR) PUMPING BIT BALLING SWEEPS, TRYING ALL DIFFERNT PERAMETERS |
| 12/17/2007 | 06:00 - 11:00 | 5.00 | 02 | | DRILL FROM 5239 TO 5267 (ROP 5.6' HR) WORK DIFFERNT PERAMETERS AND PUMP BIT BALLING SWEEPS, SAPP DOWN DRILL PIPE (DRILLING STEADY AT 5'-6' AN HOUR |
| | 11:00 - 11:30 | 0.50 | 07 | | SERVICE RIG, BLOCKS, SWIVEL, TOP DRIVE, DRAW TOOL |
| | 11:30 - 12:30 | 1.00 | 08 | | CHANGE OUT SAVER SUB AND FIX LINER WASHER ON #2 MUD PUMP |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|---------------|---------------|---------------|------|----------|---|
| 12/17/2007 | 11:30 - 12:30 | 1.00 | 08 | | (HOSE) |
| | 12:30 - 18:30 | 6.00 | 02 | | DRILL FROM 5267 TO 5293 (ROP 4.3) ROP DROPPED TO 3-4' HR- HAD A LITTLE TORQUE |
| | 18:30 - 19:00 | 0.50 | 05 | | CIRCULATE TO TRIP OUT OF HOLE AND BUILD TRIP SLUG |
| | 19:00 - 23:30 | 4.50 | 06 | A | PUMP SLUG ANDTRIP OUT OF HOLE TO CHANGE BIT, (CHECKED FLOW- NO FLOW,BLEW DOWN KELLY HOSE, CIRCULATE CHARGE PUMPS |
| | 23:30 - 00:00 | 0.50 | 06 | J | CHANGE OUT BIT AND CLEAN RIG FLOOR FOR TRIP IN HOLE |
| | 00:00 - 02:00 | 2.00 | 06 | | TRIP IN HOLE |
| | 02:00 - 04:30 | 2.50 | 08 | | REPLACE BROKEN CABLE ON EASY TORQUE |
| | 04:30 - 05:30 | 1.00 | 06 | | TRIP IN HOLE |
| | 05:30 - 06:00 | 0.50 | 08 | | EASY TORQUE CABLE FELL OFF SHEIVE, PUT CABLE ON SHEIVE |
| | 12/18/2007 | 06:00 - 08:00 | 2.00 | 06 | A |
| 08:00 - 08:30 | | 0.50 | 03 | | SAFETY WASH AND REAM FROM 5173 TO 5293 NO FILL |
| 08:30 - 14:00 | | 5.50 | 02 | | BREAK BIT IN DRILL FROM 5293 TO 5360 (ROP 12.2) WOB 3-6, DHRPM 210-245, MW 9.8 VIS 43, BG GAS 9, PUT MORE WT BIT WANTS TO STICK SLIP (TORQUE STARTS JUMPING), |
| 14:00 - 14:30 | | 0.50 | 07 | | SERVICE RIG--TOP DRIVE (TOOK OIL SAMPLE), SWIVEL, BLOCKS |
| 14:30 - 15:00 | | 0.50 | 08 | | COULDM'T GET #2 PUMP TO KICK IN AFTER CONNECTION, TROUBLE SHOOT OILER PUMP KICKED BREAKER- RESET BREAKER |
| 12/19/2007 | 15:00 - 06:00 | 15.00 | 02 | | DRILL FROM 5360 TO 5485 (ROP 8.3' HR) WORKING ALL DIFFERENT PERAMETERS |
| | 06:00 - 08:00 | 2.00 | 02 | | DRILL FROM 5485 TO 5495 (ROP 5' HR)TRY ALL DIFFERNT PERAMETERS- 5-20 WOB, 30-65 ROTARY, SLOWED PUMP DOWN TO 75 STRKS, COULDN'T GET TO DRILL (WANTING TO STALL OUT-SLIP STICKING) |
| | 08:00 - 08:30 | 0.50 | 05 | | CIRCULATE AND BUILD TRIP SLUG |
| | 08:30 - 09:00 | 0.50 | 10 | | DROP SURVEY .2 DEG 258.6 DEG |
| | 09:00 - 13:30 | 4.50 | 06 | | TRIP OUT OF HOLE TO CHANGE BIT AND MUD MOTOR-BLEW KELLY HOSE DOWN |
| | 13:30 - 15:30 | 2.00 | 06 | J | HANDLE BHA, LAY DOWN AND PICK UP NEW MOTOR, AND BIT, CLEAN FLOOR FOR TRIP IN HOLE, TRIP TO SHOE |
| | 15:30 - 16:00 | 0.50 | 07 | | RIG SERVICE AND CHANGE AIR LINES ON EATON BRAKE CONTROLS (STEEL BRAIDED) |
| | 16:00 - 19:30 | 3.50 | 06 | | TRIP IN HOLE FILL PIPE @ BHA AND EVERY 30 STANDS |
| | 19:30 - 20:30 | 1.00 | 03 | | SAFETY WASH AND REAM FROM 5,355 TO 5,495---THERE WAS 8' OF UNDER GAGE HOLE |
| | 20:30 - 06:00 | 9.50 | 02 | | DRILL FROM 5 495 TO 5,550 WORKING ALL DIFFERNT PERAMETERS, PUMPING BIT BALLING SWEEPS, HAVE ALOT OF SLIP STICK TRY TO WORK PERAMETERS YO RID SLIP STICK, SLIP STICK WON'T GO AWAY |
| 12/20/2007 | 06:00 - 08:00 | 2.00 | DRL | 1 | DRILL FROM 5,550 TO 5,556 (ROP 3' HR) WORK DIFFERNT PERAMETERS TO GET TO DRILL ANDSTOP SLIP STICKING |
| | 08:00 - 08:30 | 0.50 | CIRC | 1 | CIRCULATE AND BUILD TRIP SLUG |
| | 08:30 - 12:00 | 3.50 | TRP | 10 | TRIP OUT OF HOLE TO PICK UP CONE BIT |
| | 12:00 - 14:00 | 2.00 | RIG | 6 | CUT & SLIP DRILL LINE |
| | 14:00 - 19:30 | 5.50 | TRP | 2 | TRIP IN HOLE FILL STRING @ 570', 1957' & 4120' W/ NO RESISTANCE |
| | 19:30 - 20:00 | 0.50 | REAM | 1 | WASH & REAM F/ 5,366' TO BOTTOM @ 5,556' W/ NO PROBLEMS |
| | 20:00 - 01:30 | 5.50 | DRL | 1 | DRILL F/ 5,556' TO 5,596' (40' @ 7.3 FPH) WOB 5/35 |
| | 01:30 - 02:30 | 1.00 | OTH | | REMOVE LCM FROM SUCTION LINE ON # 2 MUD PUMP |
| | 02:30 - 06:00 | 3.50 | DRL | 1 | DRILL F/ 5,596' TO 5,638' (42' @ 12 FPH) WOB 32/40 |
| | 12/21/2007 | 06:00 - 07:00 | 1.00 | DRL | 1 |
| 07:00 - 07:30 | | 0.50 | RIG | 1 | RIG SERVICE |
| 07:30 - 18:00 | | 10.50 | DRL | 1 | DRILL F/ 5,647' TO 5,735' (88' @ 8.4' FPH) WOB 30/40, RPM 90/110 |
| 18:00 - 06:00 | | 12.00 | DRL | 1 | DRILL F/ 5,735' TO 5,830' (95' @ 8' FPH) WOB 30/40, RPM 90/110 MUD WT 9.7 VIS 42, W/ NO LOSSES |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|-------|------|----------|---|
| 12/22/2007 | 06:00 - 07:30 | 1.50 | DRL | 1 | DRILL F/ 5,830' TO 5,837' (7' @ 4.7 FPH) WOB 35/40 RPM 90/110 MUD WT 9.7 |
| | 07:30 - 08:00 | 0.50 | RIG | 1 | RIG SERVICE |
| | 08:00 - 17:00 | 9.00 | DRL | 1 | DRILL F/ 5,837' TO 5,912' (75' @ 8.3 FPH) WOB 36/40 RPM 110 MUD WT 9.7 |
| | 17:00 - 18:30 | 1.50 | CIRC | 1 | CIR. BOTTOMS UP DROP SURVEY & PUMP PILL |
| | 18:30 - 20:30 | 2.00 | TRP | 10 | TRIP OUT OF HOLE TO BHA |
| | 20:30 - 03:00 | 6.50 | ISP | 1 | INSPECT ALL BHA (FOUND NO DEFECTS) |
| | 03:00 - 03:30 | 0.50 | TRP | 1 | CLEAN RIG FLOOR & CHANGE OUT BIT |
| | 03:30 - 06:00 | 2.50 | TRP | 2 | TRIP IN HOLE W/ NEW 12 1/4 BIT |
| 12/23/2007 | 06:00 - 09:00 | 3.00 | TRP | 2 | TRIP IN HOLE W/ NEW BIT FILL PIPE EVERY 2000' ATT. TO FILL PIPE @ 4120' STRING PLUGGED |
| | 09:00 - 13:30 | 4.50 | TRP | 2 | TRIP OUT OF HOLE (WET) DUE TO PLUGGED STRING (FOUND TWO FEET OF LCM IN MONEL FROM FLOAT VALVE UP & ATT. TO TO DRAIN MUD MOTOR W/ NO SUCCESS MOTOR WOULD NOT TURN. |
| | 13:30 - 14:00 | 0.50 | TRP | 1 | LAY DOWN OLD MOTOR REPLACE WITH NEW MOTOR |
| | 14:00 - 17:30 | 3.50 | TRP | 2 | TRIP IN HOLE TO 539' CIR. 10 MINUTES -OK FILL PIPE @ 1766', 3258' & 4501' |
| | 17:30 - 18:00 | 0.50 | TRP | 2 | INSTALL ROTATE HEAD & TRIP IN HOLE TO 5,747' |
| | 18:00 - 19:00 | 1.00 | REAM | 1 | WASH & REAM F/ 5,747' TO 5,889' W/ NO RESISTANCE F/ 5,889' TO BOTTOM @ 5,912' W/ 2 TO 5 WOB. |
| | 19:00 - 06:00 | 11.00 | DRL | 1 | DRILL F/ 5912' TO 6,002' (90' @ 8.2 FPH) WOB 28 TO 35, RPM 90/110, MUD WT 9.7 VIS 42 |
| 12/24/2007 | 06:00 - 09:00 | 3.00 | DRL | 1 | DRILL F/ 6,002' TO 6,026' (24' @ 8' FPH) WOB 32-40 RPM 105 MUD WT. 9.7 VIS 42 |
| | 09:00 - 09:30 | 0.50 | RIG | 1 | RIG SERVICE & HELD BOP DRILL |
| | 09:30 - 18:00 | 8.50 | DRL | 1 | DRILL F/ 6,026' TO 6,100' (74' @ 8.7' FPH) WOB 32/40 RPM 105 MUD WT 9.7 VIS 41 |
| | 18:00 - 21:00 | 3.00 | DRL | 1 | DRILL F/ 6,100' TO 6,120' (20' @ 6.7' FPH) WOB 35/40 RPM 105 MUD WT 9.7VIS 42 |
| | 21:00 - 22:00 | 1.00 | CIRC | 1 | CIR. BOTTOMS UP & PUMP SLUG |
| | 22:00 - 01:00 | 3.00 | TRP | 2 | TOOH TO 3,129' LOST POWER TO DC MODULE TO DRILLER PANEL |
| 12/25/2007 | 01:00 - 06:00 | 5.00 | RIG | 2 | TROUBLE SHOOT & WAIT ON UNITS ELE. |
| | 06:00 - 06:00 | 24.00 | RIG | 2 | WORK PIPE & WAIT ON UNITS ELECTRICAN REMOVE BAD HYD. MOTOR & WAIT ON REPLACEMENT MOTOR (MOTOR ARRIVED ON LOCATION @ 2130 HRS. ATT. TO INSTALL MOTOR WRONG MOTOR HOUSING) CALLED AROUND FOUND HYD. MOTOR IN CASPER WAITING ON MOTOR COMING F/ CASPER SHOULD BE ON LOCATION @ 0830 HRS. |
| 12/26/2007 | 06:00 - 17:00 | 11.00 | RIG | 2 | WAITING ON HYD. MOTOR REPLACEMENT - MOTOR ARRIVED @ 1100 HRS, WRONG SHAFT SIZE (FRAB. A COUPLE INSTALLED SAME) FRANKS HAWK JAW TONGS ARRIVED @ 1530 HRS R/UP SAME |
| | 17:00 - 19:00 | 2.00 | TRP | 2 | TRIP OUT OF HOLE |
| | 19:00 - 20:00 | 1.00 | TRP | 2 | CHANGE OUT BIT & MOTOR |
| | 20:00 - 02:00 | 6.00 | TRP | 2 | TRIP IN HOLE W/ NEW BIT & MOTOR TO 5,942' |
| | 02:00 - 03:00 | 1.00 | REAM | 1 | WASH & REAM F/ 5,942' TO BOTTOM 6,120' W/ NO RESISTANCE |
| | 03:00 - 06:00 | 3.00 | DRL | 1 | DRILL F/ 6,120' TO 6,143' (23' @ 7.7 FPH) WOB 35/40 RPM 115 MUD WT. 9.6 VIS 39 W/ NO LOSSES |
| 12/27/2007 | 06:00 - 13:00 | 7.00 | DRL | 1 | DRILL F/ 6,143' TO 6,225' (82' @ 11.7' FPH) WOB 34/40 MUD WT 9.8 VIS 39 |
| | 13:00 - 13:30 | 0.50 | RIG | 1 | RIG SERVICE |
| | 13:30 - 18:00 | 4.50 | DRL | 1 | DRILL F/ 6,225' TO 6,275' (50' @ 11.1' FPH) WOB 35/40 MUD WT 9.8 VIS 41 |
| | 18:00 - 02:00 | 8.00 | DRL | 1 | DRILL F/ 6,275' TO 6,375' (100' @ 12.5' FPH) WOB 35/40 MUD WT 9.8 VIS 40 |
| | 02:00 - 02:30 | 0.50 | CIRC | 1 | CIR. BOTTOMS UP |
| | 02:30 - 05:00 | 2.50 | TRP | 15 | SHORT TRIP TO 5,905' RIH TO BOTTOM @ 6,375' |
| 12/28/2007 | 05:00 - 06:00 | 1.00 | CIRC | 1 | PUMP SWEEP & CIR. HOLE CLEAN |
| | 06:00 - 08:00 | 2.00 | CIRC | 1 | CIR. & CONDITION HOLE FOR RUNNING 9 5/8" CASING |
| | 08:00 - 08:30 | 0.50 | SUR | 1 | DROP MULTI. SHOT & PUMP SLUG |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34-7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|-------|------|----------|--|
| 12/28/2007 | 08:30 - 14:30 | 6.00 | TRP | 2 | TRIP OUT OF HOLE |
| | 14:30 - 15:30 | 1.00 | TRP | 1 | BREAK OUT BIT & LAY DOWN MOTOR & MONEL |
| | 15:30 - 16:30 | 1.00 | OTH | | PULL WEAR BUSHING |
| | 16:30 - 22:00 | 5.50 | CSG | 1 | R/UP FRANKS CASING EQUIPMENT & STABBING BOARD & FILL UP TOOL |
| | 22:00 - 00:30 | 2.50 | RIG | 2 | ATT. TO RIG UP FLAG POLL FOR THE LAY DOWN MACHINE ROTATING MOUSEHOLE WAS TO BIG FOR THE FLAG POLL (WAS UNABLE TO SECURE FLAG POLL PROPERLY INSIDE THE R. MOUSEHOLE) LAY DOWN R. MOUSEHOLE |
| 12/29/2007 | 00:30 - 02:00 | 1.50 | CSG | 1 | GOT CASING MOUSEHOLE FROM RIG 232 |
| | 02:00 - 03:30 | 1.50 | CSG | 2 | FINISH RIGGING UP LAY DOWN MACHINE |
| | 03:30 - 06:00 | 2.50 | CSG | 1 | THREAD LOCK SHOE, & TWO JTS OF 9 5/8 CASING & F/C ATT. TO M/UP CASING JT TONGS WAS UNABLE TO GET PROPER TORGUE ON VAM CONNECTION |
| | 06:00 - 07:00 | 1.00 | CSG | 2 | RIG DOWN TONGS & WAIT ON TONGS FROM FRANKS |
| | 07:00 - 21:00 | 14.00 | CSG | 2 | RIG UP FRANKS 13 3/8 CASING TONGS |
| 12/30/2007 | 21:00 - 00:30 | 3.50 | CIRC | 1 | RUN 9 5/8" CASING (VAM 47 # HC P 110) SHOE, TWO JTS CASING & F/C & TOTAL 145 JTS & LANDING JT W/ MBS (SHOE @ 6,353') |
| | 00:30 - 01:30 | 1.00 | OTH | | CIR. & CONDITION MUD (SHAKE OUT LCM) R/D FRANKS CSG EQUIPMENT LAY DOWN FILL UP TOOL & CHANGE OUT BAILS ON TOP DRIVE |
| | 01:30 - 05:00 | 3.50 | CSG | 2 | P/UP 1 STD 5" HWDP FROM DERRICK M/UP PACK OFF ASSEMBLY & RUNNING TOOL SET PACK OFF ASSEMBLY P/T TO 5000 PSI =OK R/UP HAL RETURN LINE TO A SECTION OUTLET VALVE. |
| | 05:00 - 06:00 | 1.00 | CSG | 2 | PICK UP LANDING JT & INSTALL SAME & R/UP CMT HEAD & CMT. LINE TO RIG FLOOR & PREPARE FOR CEMENT JOB. |
| | 06:00 - 07:00 | 1.00 | CMT | 2 | CONT. TO P/UP LANDING JT. & M/UP CMT TOOL & LAND SAME & R/UP CMT HEAD AND CMT LINES TO RIG FLOOR |
| | 07:00 - 07:30 | 0.50 | RIG | 1 | RIG SERVICE |
| | 07:30 - 09:30 | 2.00 | CMT | 2 | WAIT ON CAMERON PACK OFF SUPPORT BUSHING & INSTALL SAME |
| | 09:30 - 10:30 | 1.00 | CMT | 2 | HOLD S/MEETING PREPARE FOR CMT. JOB OBSERVE LOSSES |
| | 10:30 - 18:00 | 7.50 | CIRC | 2 | ATT. TO CURE LOSSES PUMP LCM PILLS W/ NO SUCCESS |
| | 18:00 - 19:00 | 1.00 | CMT | 2 | REPAIR HAL. FOAM DISCHARGE LINE |
| 12/31/2007 | 19:00 - 00:30 | 5.50 | CMT | 2 | PUMP 40 BBLS SPACER @ 5 BBLS/MIN. 10 BBLS FRESH WATER 20 BBLS SUPER FLUSH 10 BBLS FRESH WATER PUMP SECOND LEAD CMT. 198 BBLS @ 5 BPM 14.3 PPG & DROP PLUG DISPLACE W/ 466 BBLS (PLUG DID NOT BUMP) |
| | 00:30 - 01:00 | 0.50 | CMT | 2 | PUMP 55 BBLS CAP CEMENT DOWN BACK SIDE |
| | 01:00 - 02:00 | 1.00 | CMT | 1 | RIG DOWN CEMENTERS |
| | 02:00 - 03:30 | 1.50 | CMT | 2 | PULL LANDING JT. |
| | 03:30 - 06:00 | 2.50 | BOP | 2 | P/TEST BOPS & CHOKE MANIFOLD |
| | 06:00 - 10:30 | 4.50 | BOP | 2 | P/TEST BOPS & CHOKE MANIFOLD LOW TEST 250PSI & HIGH TEST 5000 PSI |
| | 10:30 - 11:00 | 0.50 | BOP | 2 | P/T ANN. LOW TEST 250 PSI & HIGH TEST 3500 PSI W/ NO LEAKS |
| | 11:00 - 14:00 | 3.00 | OTH | | INSTALL WEAR BUSHING |
| | 14:00 - 15:30 | 1.50 | TRP | 2 | PREPARE TO PICK UP 5" DRILL PIPE ATT. TO REMOVE PROTECTORS USING CHAIN TONGS TO MUCH ICE HEAT PROTECTORS TO REMOVE SAME CLEAN THREADS & STRAP DRILL PIPE |
| | 15:30 - 17:30 | 2.00 | RIG | 2 | RIG UP LAY TRUCK MACHINE |
| 12/31/2007 | 17:30 - 18:00 | 0.50 | TRP | 2 | OBSERVE BAD HYDRAULIC LEAK ON DRAWWORKS FOUND HYDRAULIC HOSE LEAKING ON DRILLERS OFF SIDE (REPLACE SAME) |
| | 18:00 - 19:00 | 1.00 | RIG | 2 | PICK UP NEW 5" S-135 DRILL PIPE M/U & B/O & M/U ALL NEW DRILL PIPE CONN. |
| | 19:00 - 06:00 | 11.00 | TRP | 2 | FIX HYDRAULIC LEAK ON M/UP TONG RAM |
| | | | | | PICK UP NEW 5" S-135 DRILL PIPE M/U & B/O & M/U ALL DRILL PIPE CONNECTIONS |
| | | | | | |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release:
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|----------|---------------|-------|------|----------|--|
| 1/1/2008 | 06:00 - 07:30 | 1.50 | TRP | 2 | TRIP OUT OF HOLE STAND 31 STDS OF S-135 DP |
| | 07:30 - 08:30 | 1.00 | TRP | 1 | LAY DOWN 8" DRILL COLLARS |
| | 08:30 - 10:30 | 2.00 | OTH | | PREPARE TO PICK UP 6.5" DRILL COLLAR, MOTOR, IBS & DRILL PIPE |
| | 10:30 - 14:30 | 4.00 | TRP | 1 | M/UP PDC & 8 1/2 BHA FILL UP PIPE & BREAK CIR. |
| | 14:30 - 02:00 | 11.50 | TRP | 2 | PICK UP NEW G-105 DRILL PIPE TORQUE & B/O & RE-TORQUE |
| | 02:00 - 03:00 | 1.00 | OTH | | RIG DOWN FRANKS LAY DOWN MACHINE |
| | 03:00 - 04:00 | 1.00 | TRP | 2 | RUN IN HOLE TO 6183' |
| | 04:00 - 06:00 | 2.00 | | | WASH & REAM DN F/ 6,183' TO LANDING COLLAR @ 6,266' |
| 1/2/2008 | 06:00 - 09:00 | 3.00 | DRL | 4 | DRILL OUT SHOE TRACK EQUIPMENT |
| | 09:00 - 10:00 | 1.00 | DRL | 1 | DRILL F/ 6,375' TO 6,385' |
| | 10:00 - 10:30 | 0.50 | CIRC | 1 | CIR. BOTTOMS UP FOR FIT |
| | 10:30 - 11:00 | 0.50 | EQT | 2 | PERFORM FIT TEST TO 13.5 PPG EQUIVALENT |
| | 11:00 - 12:30 | 1.50 | DRL | 1 | DRILL F/ 6,385' TO 6,425' (40' @ 27' FPH) WOB 12/14 MUD WT 9.3 VIS 39 |
| | 12:30 - 13:30 | 1.00 | REAM | 1 | ATT. TO REAM STAND BEFORE MAKING MOUSEHOLE CONNECTION LAST 35' HOLE HAD FELL IN (WASH & REAM BACK TO BOTTOM THREE TIMES EVERY TIME SAME RESULTS) CONT. TO WASH & REAM THROUGH THE 35' PUMP SWEEP AFTER CIR SWEEP HOLE CONDITION WAS GOOD MAKE CONNECTION |
| | 13:30 - 18:00 | 4.50 | DRL | 1 | DRILL F/ 6,425' TO 6,550' (125' @ 27.8 FPH) WOB 12/15 MUD WT 9.6 VIS 42 |
| | 18:00 - 06:00 | 12.00 | DRL | 1 | DRILL F/ 6,550' TO 6,900' (350' @ 29.2 FPH) WOB 12/18 MUD WT 9.5 VIS 40 W/ NO LOSSES & NO HOLE PROBLEMS |
| 1/3/2008 | 06:00 - 17:00 | 11.00 | DRL | 1 | DRILL FROM 6900 TO 7366 (ROP 42.3' HR) WOB 10-14, DHRPM 98, MW 9.5, BG GAS 5, HOLE SEEPING 5 -10 BBL.S HR PUMPING 12% LCM SWEEPS |
| | 17:00 - 17:30 | 0.50 | SUR | 1 | SURVEY @ 7305 1.3 DEG 147.2 AZ |
| | 17:30 - 18:00 | 0.50 | RIG | 1 | SERVICE RIG AND TOP DRIVE |
| | 18:00 - 06:00 | 12.00 | DRL | 1 | DRILL FROM 7366 TO 7795 (ROP 35.7' HR) WOB 10-14, DHRPM 100, MW 9.4, BG GAS 5, HOLE SEEPING 10 BBL.S HR. |

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Serial No.

UTU-0558

6. If Indian, Allottee or Tribe Name

N/A

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

RED WASH UNIT

8. Well Name and No.

RW 34-34AD

9. API Well No.

43-047-36351

10. Field and Pool, or Exploratory Area

UNDESIGNATED

11. County or Parish, State

UINTAH

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

QUESTAR EXPLORATION & PRODUCTION, CO.

3a. Address

11002 E. 17500 S. VERNAL, UT 84078

3b. Phone No. (include area code)

435-781-4331

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

858' FSL 1944' FEL SWSE SECTION 34, T7S, R22E

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

| TYPE OF SUBMISSION | TYPE OF ACTION |
|---|---|
| <input type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize <input type="checkbox"/> Deepen <input type="checkbox"/> Production (Start/Resume) <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Reclamation <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Casing Repair <input type="checkbox"/> New Construction <input type="checkbox"/> Recomplete <input type="checkbox"/> Other _____ |
| | <input type="checkbox"/> Change Plans <input type="checkbox"/> Plug and Abandon <input type="checkbox"/> Temporarily Abandon |
| | <input type="checkbox"/> Convert to Injection <input type="checkbox"/> Plug Back <input type="checkbox"/> Water Disposal |

13. Describe Proposed or Completed 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 recomplate 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.)

DUE TO THE MANCOS SHALE FORMATION BEING SHALLOWER THAN ANTICIPATED. QUESTAR EXPLORATION AND PRODUCTION COMPANY (QEP) SET 7" CASING AT 12,675. THE APPROVED SETTING DEPTH WAS 13,000'. A CEMENT BOND LOG WILL BE RAN AND SUBMITTED TO YOUR OFFICE IN THE NEAR FURTURE.

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

Name (Printed/Typed)

Jan Nelson

Title

Regulatory Affairs

Signature

Date

January 21, 2008

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

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)

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:

| <u>Formation</u> | <u>Depth</u> |
|------------------|--------------|
| Uinta | Surface |
| Green River | 3,025' |
| Wasatch | 6,425' |
| Mesaverde | 9,325' |
| Sego | 11,775' |
| Castlegate | 11,925' |
| Blackhawk | 12,253' |
| Mancos Shale | 12,709' |
| Mancos B | 13,133' |
| Frontier | 15,839' |
| Dakota Silt | 16,731' |
| Dakota | 16,933' |
| TD | 17,500' |

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

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

| <u>Substance</u> | <u>Formation</u> | <u>Depth</u> |
|------------------|------------------|--------------|
| Gas | Wasatch | 6,425' |
| Gas | Mesaverde | 9,325' |
| Gas | Blackhawk | 12,253' |
| Gas | Mancos Shale | 12,709' |
| Gas | Mancos B | 13,133' |
| Gas | Dakota | 16,933' |

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 before 1989 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" 2000 psi annular BOP (schematic included) from surface casing seat to 9-5/8" casing point.
- 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.

DRILLING PROGRAM

4. **Casing Design:**

| Hole Size | Csg. Size | Top (MD) | Bottom (MD) | Wt. | Grade | Thread | Cond. |
|-----------|-----------|----------|-------------|---------------|---------|--------------|-------|
| 26" | 20" | sfc | 40-60' | Steel | Cond. | None | Used |
| 17-1/2" | 13-3/8" | sfc | 500' | 54.5 | K-55 | STC | New |
| 12-1/4" | 9-5/8" | sfc | 6300' | 47 | HCP-110 | Flush Jnt ** | New |
| 8-1/2" | 7" | sfc | 9,000' | 26 SDrift | HCP-110 | LTC | New |
| 8-1/2" | 7" | 9000' | 12,750' | 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' | 17,500' | 17.1 | 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" | 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" | 17.1 lb. | Q-125 | LTC | 19,010 psi | 18,180 psi | 493,000 lb. |

* Special Drift

** Flush Jnt – VAM SLIJ II or LT&C based on availability

MINIMUM DESIGN FACTORS:

COLLAPSE: 1.125-1.3***

BURST: 1.10

TENSION: 1.80

DRILLING PROGRAM

Area Fracture Gradient: 0.9 psi/foot
Maximum anticipated mud weight: 15.4 ppg
Maximum surface treating pressure: 12,500 psi

5. 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:
 - 1. The blooie line shall be at least 6” in diameter and extend at least 100’ from the well bore into the reserve/blooie pit.
 - 2. Blooie line ignition shall be provided by a continuous pilot (ignited when drilling below 500’).
 - 3. Compressor shall be tied directly to the blooie line through a manifold.
 - 4. A mister with a continuous stream of water shall be installed near the end of the blooie lines for dust suppression.

Surface hole and the first intermediate hole section (12-1/4” hole) will be drilled with air, air/mist, foam, or mud depending on hole conditions. Drilling below the first intermediate casing will be with water based drilling fluids consisting primarily of fresh water, bentonite, lignite, caustic, lime, soda ash and polymers. No chromates will be used. It is intended to use oil base mud in the production hole. Maximum anticipated mud weight is 15.4 ppg. The high mud density is required more for hole stability and not necessarily pore pressure.

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.

DRILLING PROGRAM

6. Testing, logging and coring program

- A. Cores – none anticipated
- B. DST – none anticipated
- C. Logging – Mud logging – 4500' 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.

7. 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% CaCl₂
Slurry wt: 15.6 ppg, slurry yield: 1.20 ft³/sx, slurry volume: 17-1/2" hole + 100% excess.

9-5/8" Intermediate Casing: sfc – 5,900' (MD)

Lead Slurry: 0' – 5,500'. 1582 sks (2325 cu. ft) 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 ft³/sk (unfoamed), Slurry volume: 12-1/4" hole + 35 % excess.

Tail Slurry: 5,500' – 5,900'. 57 sks (15 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 ft³/sk, Slurry volume: 12-1/4" hole + 35% excess.

7" Intermediate Casing: sfc - 12,750' (MD)

Foamed Lead Slurry 2: sfc – 12,750'. 1271 sks (2021 cu ft) 50/50 Poz Premium + 20% SSA-1 + 3 % silicalite compacted + 3% Silicalite Compacted + 0.5% Halad 344 + 0.2% Halad 413 + 0.1% HR-12 + 0.7% Super CBL + 0.2% Suspend Slurry wt: 14.0 ppg., Slurry yield: 1.59 ft³/sk, Slurry volume: 8-1/2" hole + 25% excess.

DRILLING PROGRAM

4-1/2" Production Casing: sfc – 17,500' (MD)

Lead/Tail Slurry: 6,500 - 17,500'. 939 sks (1399 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 ft³/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 string and 6,500' 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.

8. Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards

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 10,000 psi to 11,000 psi based on pressure transient work on the GB 9D-27-8-21. Maximum anticipated bottom hole temperature is 300° - 310° F.

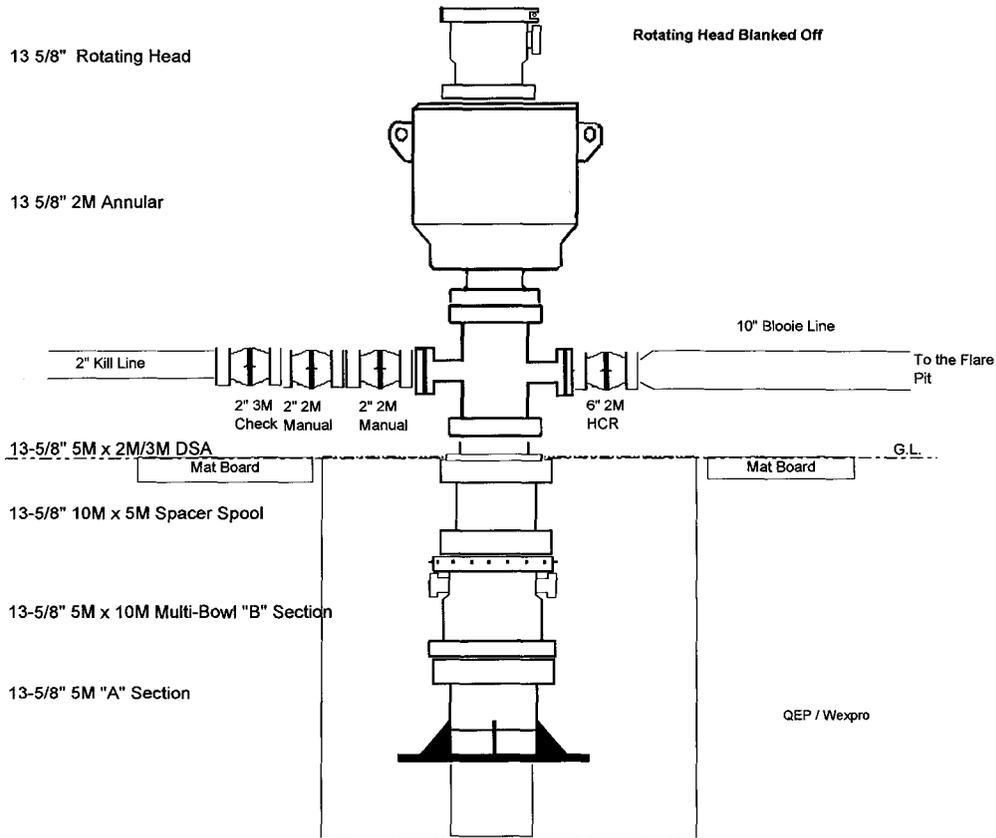
9. ADDITIONAL INFORMATION FOR OIL BASE MUD:

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.

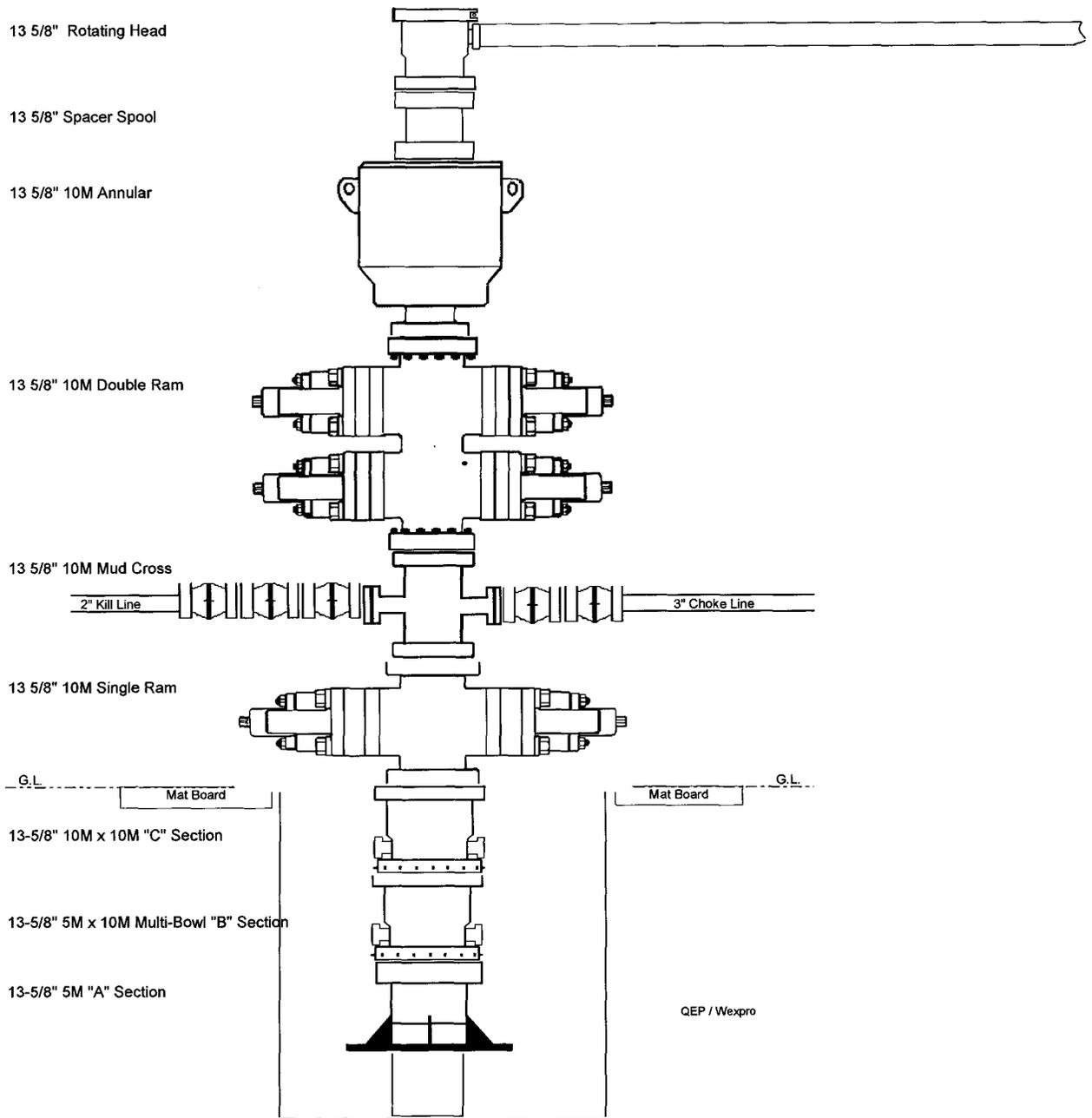
DRILLING PROGRAM

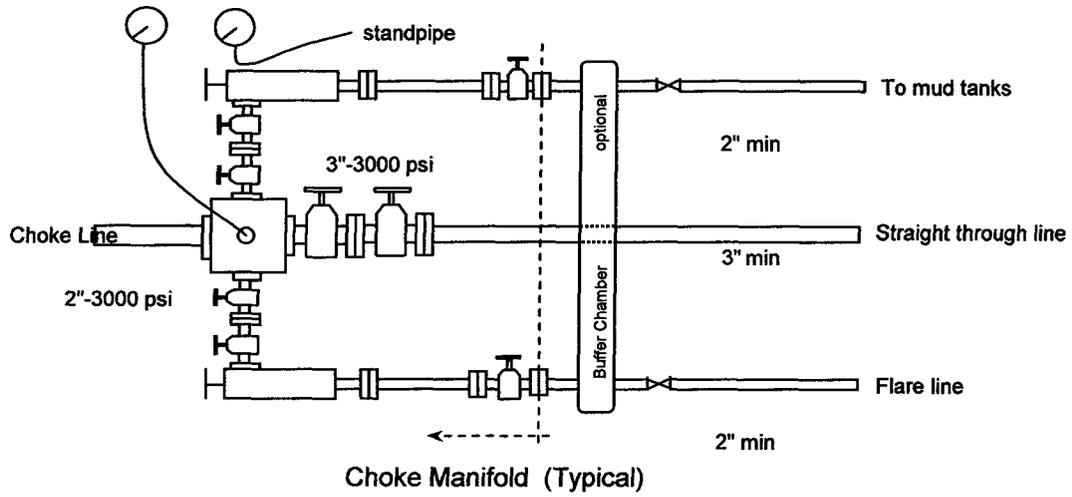
- B.** Oil-base mud will be mixed in the closed circulating system and transferred to four 500-bbl tanks on location for storage prior to and after drilling operations. Drip pans will be installed below the rotary beams on the substructure and can be viewed on site from the cellar area. As the production 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.

DRILLING PROGRAM

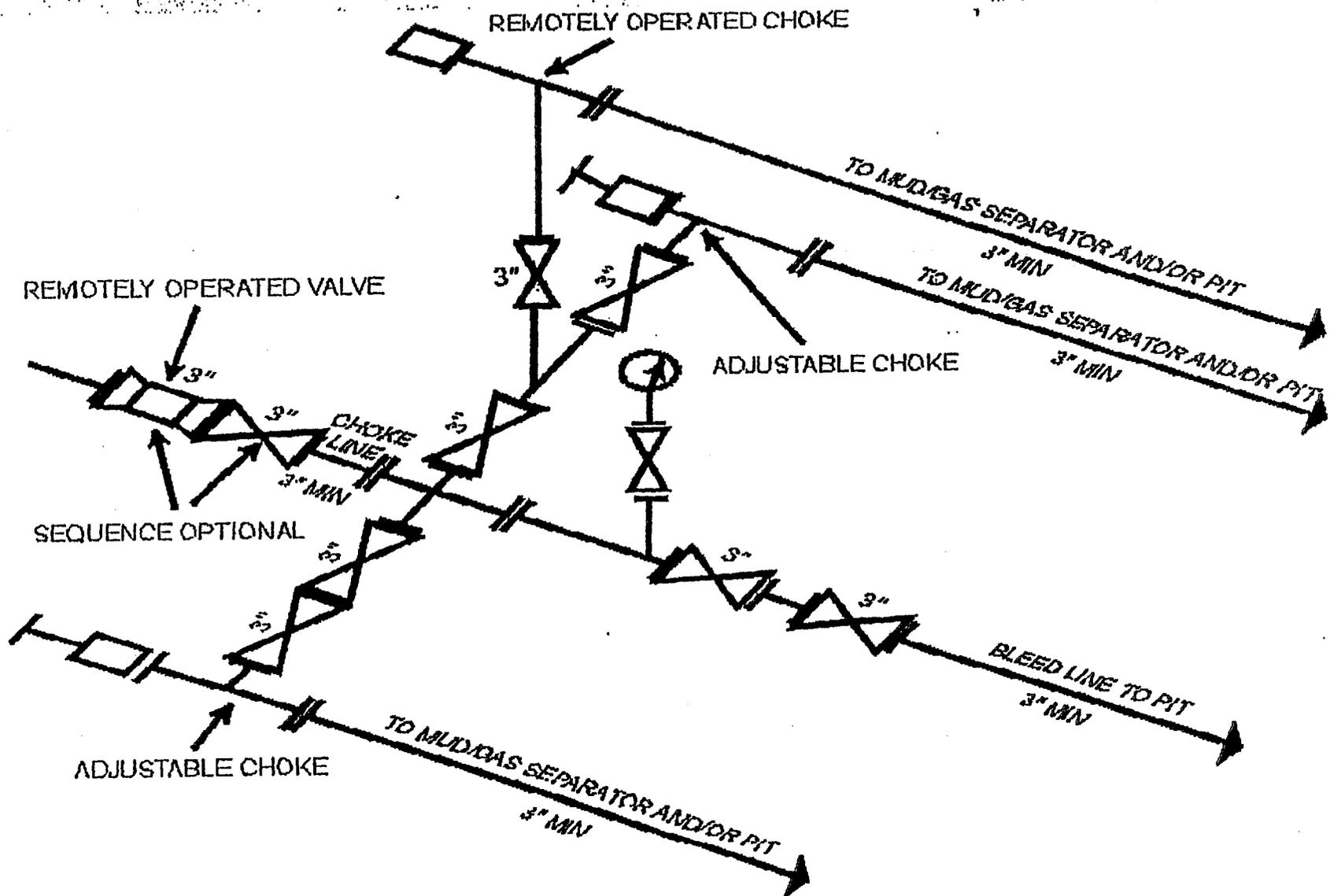


DRILLING PROGRAM





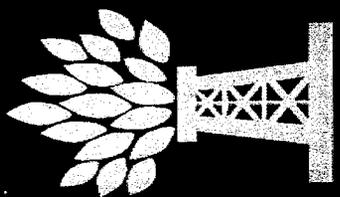
Attachment I. Diagrams of Choke Manifold Equipment



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

[54 PR 39328, Sept. 27, 1989]

Last Updated March 25, 1997 by John Broderick



NEWPARK

DRILLING FLUIDS, LLC

**Questar
Exploration &
Production Company**

WV 4D-12-8-21

***Sec 12-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

January 18, 2008

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

RE: WV 4D-12-8-21
Sec 12-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 4D-12-8-21 well to be drilled in Uintah County, Utah. This program is for drilling with Aerated Saltwater in the 1st intermediate to 5900 ft, a polymer fluid system in the 2nd intermediate interval to 12,750 ft, then to T.D. at 17,500 ft with OBM.

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

For the 1st intermediate Interval, an aerated saltwater drilling fluid is planned.

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. Mud weight at interval T.D. at 5,900 is expected to be in the 8.8-9.0 ppg range.

In the 2nd intermediate interval, drill out with fresh water or mud-up before drilling out, as hole conditions dictate. When a mud-up is needed, mud-up to a NewPHPA/Polymer system. Mud weight in this interval is expected to be in the 11.2-11.4 ppg range at the 13,000 ft liner interval T.D.

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 65-70 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 facility, 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 4D-12-8-21
Sec 12-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 |
| 3,025' 5,900' | Green River Mahogeny 1st Intermediate T.D. | Aerated Salt Water Hole size: 11.0" / Casing: 9 5/8" Flush Joint Drill out with saltwater aerating as needed to maintain circulation. When water is encountered reduce air as needed to control the flow. Pump pre-hydrated NewGel or Flowzan /SaltGelsweeps 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, base the system on the chloride content of the fluid. Mud weight required at T.D. is expected to be in the 8.8-9.0 ppg range | 9.5-10.0 9.5-10.0 | Vis (sec/qt): Water PV (cp): NA YP (#s/100ft ²): NA FL (ml/30 min): NC LGS %: < 1% pH: 10.5-10.8 Cl (mg/l): 150-200K |
| 6,425' 9,325' 10,500' 11,775' 11,925' 12,253' 12,709' 12,750'+/- | Wasatch Mesa Verde Sego Bucktongue Castlegate Blackhawk Mancos Shale 2nd Intermediate 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. | 8.8 10.0 11.0 11.2 11.2 | Vis (sec/qt): 40-45 PV (cp) : 12-20 YP (#s/100ft ²) : 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 |
| 13,133' 15,839' 16,731' 16,933' 17,500' | 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. | 11.2 15.5 | PV (cp): 15-25 YP (lbs/100ft ²): 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 4D-12-8-21
Sec 12-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/100ft ²) | API Fluid Loss (ml/30min) | Total Solids (%) |
|----------------|----------|------------------|------------------------|--------------------------------------|---------------------------|------------------|
| 17 1/2 " | 0-500' | NA | NA | NA | NA | NA |

1st Intermediate Hole: Aerated Saltwater

| Hole Size (in) | MD (ft) | Mud Weight (ppg) | Plastic Viscosity (cp) | Yield Point (lb/100ft ²) | API Fluid Loss (ml/30min) | Chloride Mg/l (x1000) | LGS Solids (%) |
|----------------|-------------|------------------|------------------------|--------------------------------------|---------------------------|-----------------------|----------------|
| 11" | 500'-5,900' | 9.5-10.0 | NA | NA | NA | 150-200 | < 1% |
| | | | | | | | |

2nd Intermediate Interval: NewPHPA/Polymer

| Hole Size (in) | MD (ft) | Mud Weight (ppg) | Plastic Viscosity (cp) | Yield Point (lb/100ft ²) | API Fluid Loss (ml/30min) | pH | LGS Solids (%) |
|----------------|----------------|------------------|------------------------|--------------------------------------|---------------------------|-----------|----------------|
| 8 1/2" | 5,900'-8,000' | 8.5-8.8 | 6-12 | 6-10 | 8-10 | 10.0-11.0 | < 1% |
| 8 1/2 " | 8,000'-12,750' | 11.2-11.4 | 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/100ft ²) | O/W Ratio (%) | HPHT Fluid Loss (ml/30min) | CaCl (mg/l) X 10,000 | Electrical Stability (mv) | LGS Solids (%) |
|----------------|-----------------|------------------|------------------------|--------------------------------------|---------------|----------------------------|----------------------|---------------------------|----------------|
| 6-1/8 " | 12,750'-17,500' | 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

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1st Intermediate Interval

11" Hole (500' - 5,900')

Questar
Exploration & Production
WV 4D-12-8-21
Sec 12-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/100ft ²) | pH | API Fluid Loss (ml/30min) | Hardness (Mg/l) | Low Gravity Solids | Chlorides (Mg/l x1000) |
| 500'-5,900'+/- | 9.5-10.0 | NA | NA | NA | 8.0-10.0 | NA | NA | <1.0 | 150-200 |

- Drill out with Saltwater maintaining chlorides as needed for fluid weight. Aerate the fluid as needed to maintain circulation.
- If a water flow is encountered, balance air and fluid weight as needed to maintain circulation
- 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, system used will depend on chloride concentration of the fluid.
- 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

11" Hole (500'- 5,900')

Questar
Exploration & Production
WV 4D-12-8-21
Sec 12-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 **DynaPlug** 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 5,900' (intermediate T.D.) short trip, check hole conditions. If hole conditions dictate, add pre-hydrated **New-Gel** 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.



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2nd Intermediate Interval

8 1/2" Hole (5,900' - 12,750')

Questar
Exploration & Production
WV 4D-12-8-21
Sec 12-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/100ft ²) | pH | API Fluid Loss (ml/30min) | Hardness Mg/l) | Low Gravity Solids |
| 5,900'-8,000' | 8.6-8.8 | 32-36 | 6-12 | 6-10 | 10.0-11.0 | 8-10 | 100+ | 4-6 |
| 8,000'-12,750' | 11.2-11.4 | 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 Liner Interval T.D. is expected to be in the 11.2-11.4 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 DynaPlug 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) |



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2nd Intermediate Interval

8 1/2" Hole (5,900'-12,750')

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Exploration & Production
WV 4D-12-8-21
Sec 12-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 kept as low as practical but increases to 11.2 ppg may be required by Liner TD at 12,750'.

- Loss zones on offset wells were at 9200 ft and 9500 ft.

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 **NewPAC** with **DynaPlex** for fluid loss control. Lower API filtrate to 6-8 cc's with additions of **NewPAC** and **DynaPlex**.
- 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 **DynaPlug** 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.



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Production Interval

6 1/8" Hole (12,750'-17,500')

Questar
Exploration & Production
WV 4D-12-8-21
Sec 12-T8S-R21E
Uintah, County Utah

Production Interval Drilling Fluid Properties

| Depth Interval (TVD) | Mud Weight (ppg) | Plastic Viscosity (cp) | Yield Point (lb/100ft ²) | O/W Ratio % | HTHP Fluid Loss (ml/30min) | Excess Lime (PPB) | Electrical Stability (MV) | Low Gravity Solids | CaCl Mg/l Water |
|----------------------|------------------|------------------------|--------------------------------------|-------------|----------------------------|-------------------|---------------------------|--------------------|-----------------|
| 12,750'-17,725' | 15.0-15.5 | 25-35 | 8-10 | 85:15 | 12-15 | 2-4 | 500+ | < 6 | 300K |

Drilling Fluid Recommendations: (12,750'-17,500')

- Displace to a OptiDrill OBM after finishing the liner job at 12,750'.
- 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 seepage 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 | <ul style="list-style-type: none"> • 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 OptiDrill (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 Di-aseal 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 | <ul style="list-style-type: none"> • 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. |



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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.



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Production Interval
6 1/8" Hole (12,750'-17,500')

Questar
Exploration & Production
WV 4D-12-8-21
Sec 12-T8S-R21E
Uintah, County Utah

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

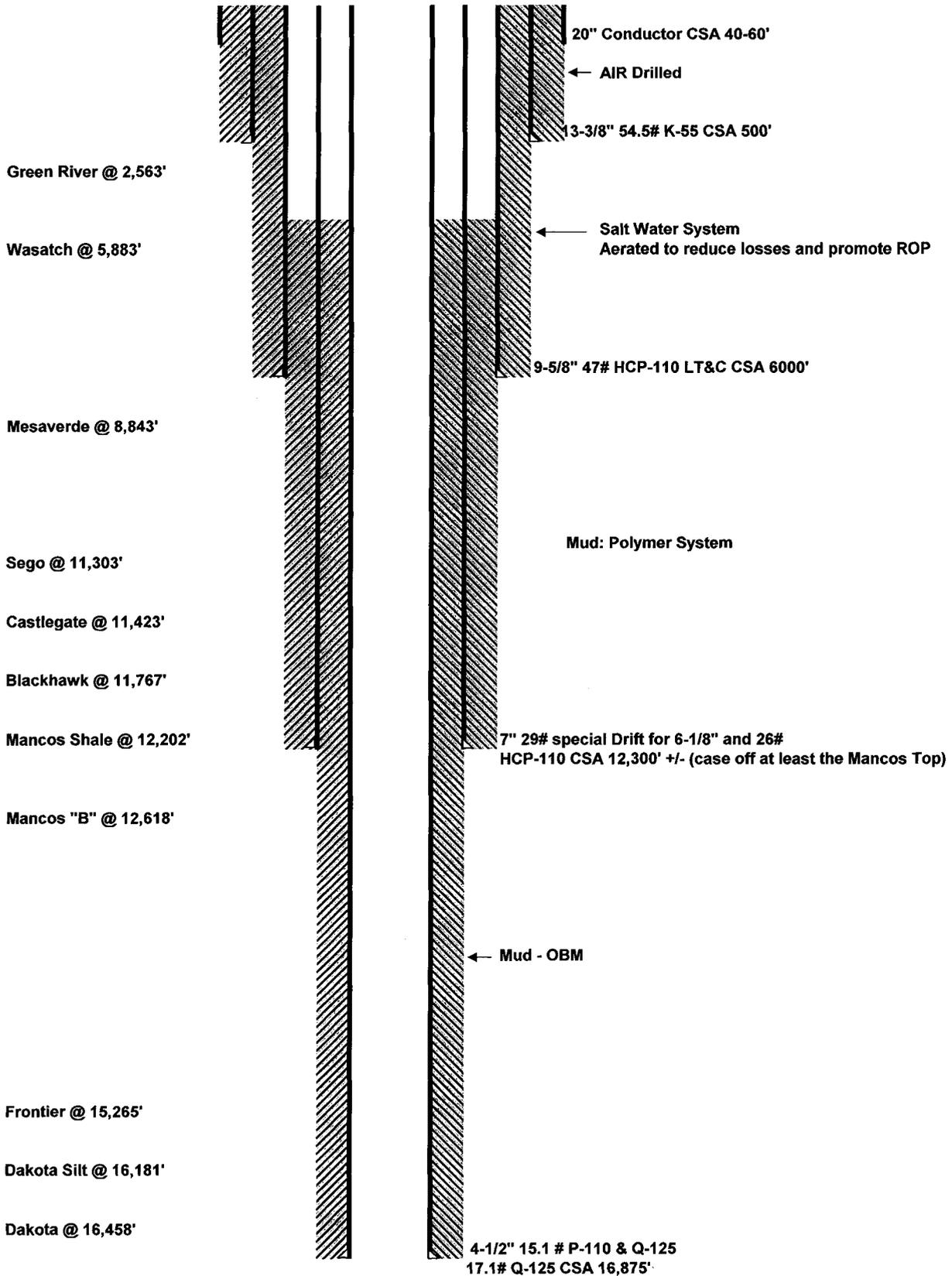
| Product | Function | Concentration |
|-------------------------------|---------------------------------|------------------------|
| <i>NewBar</i> | Weighting material | As needed |
| <i>OptiVis</i> | Organophilic Clay / Viscosifier | 2-4 ppb |
| <i>OptiMul</i> | Primary Emulsifier | 2.0 ppb |
| <i>OptiPlus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



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WV 7BD-23-8-21



| | | |
|--------------------------------|--|---|
| Form 3160-5 (November 1994) | UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT SUNDRY NOTICES AND REPORTS ON WELLS <i>Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.</i> | FORM APPROVED OMB No. 1004-0135 Expires July 31, 1996 |
| | | 5. Lease Serial No. UTU-0558 |
| | | 6. If Indian, Allottee or Tribe Name N/A |

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

| | |
|--|---|
| 1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other | 7. If Unit or CA/Agreement, Name and/or No. RED WASH UNIT |
| 2. Name of Operator Questar Exploration & Production Co. Contact: Jan Nelson | 8. Well Name and No. RW 34-34AD |
| 3a. Address 11002 East 17500 South Vernal, Utah 84078 | 9. API Well No. 43-047-36351 |
| 3b. Phone No. (include area code) 435-781-4331 | 10. Field and Pool, or Exploratory Area UNDESIGNATED |
| 3 858' FSL 1944' FEL, SWSE, SECTION 34, T7S, R22E | 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 |
|--|---|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize <input type="checkbox"/> Deepen <input type="checkbox"/> Production (Start/Resume) <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Reclamation <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Casing Repair <input type="checkbox"/> New Construction <input type="checkbox"/> Recomplete <input checked="" type="checkbox"/> Other CASING CHANGE |
| | <input type="checkbox"/> Change Plans <input type="checkbox"/> Plug and Abandon <input type="checkbox"/> Temporarily Abandon |
| | <input type="checkbox"/> Convert to Injection <input type="checkbox"/> Plug Back <input type="checkbox"/> Water Disposal |

13. Describe Proposed or Completed 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 grade and weight of the 4-1/2" casing to enhance the resistance to collapse.

Please see revised 8 point Drilling Plan attached.

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

RECEIVED
FEB 04 2008

All technical questions can be addressed to Jim Davidson, Drilling Engineer, at (303) 308-3090.

DIV. OF OIL, GAS & MINING

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

| | |
|--|------------------------------------|
| Name (Printed/Typed) Laura Bills | Title Regulatory Affairs |
| Signature <i>Laura Bills</i> | Date January 31, 2008 |

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 | |

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)

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:

| <u>Formation</u> | <u>Depth</u> |
|------------------|--------------|
| Uinta | Surface |
| Green River | 3,276' |
| Wasatch | 6,526' |
| Mesaverde | 9,276' |
| Sego | 11,601' |
| Castlegate | 11,756' |
| Blackhawk | 12,111' |
| Mancos Shale | 12,570' |
| Mancos B | 12,985' |
| Frontier | 15,866' |
| Dakota Silt | 16,778' |
| Dakota | 16,988' |
| Morrison | 17,478' |
| TD | 17,725' |

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

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

| <u>Substance</u> | <u>Formation</u> | <u>Depth</u> |
|------------------|------------------|--------------|
| Gas | Wasatch | 6,526' |
| Gas | Mesaverde | 9,276' |
| Gas | Blackhawk | 12,111' |
| Gas | Mancos Shale | 12,570' |
| Gas | Mancos B | 12,985' |
| Gas | Dakota | 16,988' |

DRILLING PROGRAM

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 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 before 1989 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 7" 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 7" 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.

DRILLING PROGRAM

4. **Casing Design:**

| Hole Size | Csg. Size | Top (MD) | Bottom (MD) | Wt. | Grade | Thread | Cond. |
|-----------|-----------|----------|-------------|---------------|---------|----------|-------|
| 26" | 20" | sfc | 40-60' | Steel | Cond. | None | Used |
| 17-1/2" | 13-3/8" | sfc | 500' | 54.5 | K-55 | STC | New |
| 12-1/4" | 9-5/8" | sfc | 8500' | 47 | HCP-110 | SLIJ II* | New |
| 8-1/2" | 7" | sfc | 9000' | 26 | HCP-110 | LTC | New |
| 8-1/2" | 7" | 9000' | 13,000' | 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' | 17,475' | 17.1 | Q-125 | LTC | New |

* Flush Joint

| 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 | 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" | 17.1 lb. | Q-125 | LTC | 19,010 psi*** | 18,130 psi | 493,000 lb. |

* Special Drift

DRILLING PROGRAM

MINIMUM DESIGN FACTORS:

COLLAPSE: 1.0 – 1.3***

BURST: 1.10

TENSION: 1.80

Area Fracture Gradient: 0.9 psi/foot

Maximum anticipated mud weight: 15.4 ppg

Maximum surface treating pressure: 12,500 psi

5. 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. The blooie line shall be at least 6” in diameter and extend at least 100’ from the well bore into the reserve/blooie pit.

G. Blooie line ignition shall be provided by a continuous pilot (ignited when drilling below 500’).

H. Compressor shall be tied directly to the blooie line through a manifold.

I. A mister with a continuous stream of water shall be installed near the end of the blooie lines for dust suppression.

Surface hole will be drilled with air, air/mist, foam, or mud depending on hole conditions. Drilling below surface casing will be with water based drilling fluids consisting primarily of fresh water, bentonite, lignite, caustic, lime, soda ash and polymers. No chromates will be used. It is not intended to use oil in the mud, however, in the event it is used, oil concentration will be less than 4% by volume. Maximum anticipated mud weight is 15.4 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.

DRILLING PROGRAM

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

6. Testing, logging and coring program

- A. Cores – none anticipated
- B. DST – none anticipated
- C. Logging – Mud logging – 4500' 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.

7. 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% CaCl₂
Slurry wt: 15.6 ppg, slurry yield: 1.20 ft³/sx, slurry volume: 17-1/2" hole + 100% excess.

9-5/8" Intermediate Casing: sfc - 6300' (MD)

Lead Slurry: 0' – 5,900. 1697 sks (444 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 ft³/sk (unfoamed), Slurry volume: 12-1/4" hole + 35 % excess.

Tail Slurry: 5,900' – 6,300'. 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 ft³/sk, Slurry volume: 12-1/4" hole + 35% excess.

7" Intermediate Casing: sfc - 13,000' (MD)

Foamed Lead Slurry 2: 5,500' – 13,000'. 748 sks (1189 cu ft) 50/50 Poz Premium + 20% SSA-1 + 3 % silicalite compacted + 3% Silicalite Compacted + 0.5% Halad 344 + 0.2% Halad 413 + 0.1% HR-12 + 0.7% Super CBL + 0.2% Suspend Slurry wt: 14.0 ppg., Slurry yield: 1.59 ft³/sk, Slurry volume: 8-1/2" hole + 25% excess.

DRILLING PROGRAM

4-1/2" Production Casing: sfc - 17,725' (MD)

Lead/Tail Slurry: 6,700 - 17,725'. 941 sks (1402 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 ft³/sk, Slurry volume: 6-1/8" hole + 35% in open hole section.

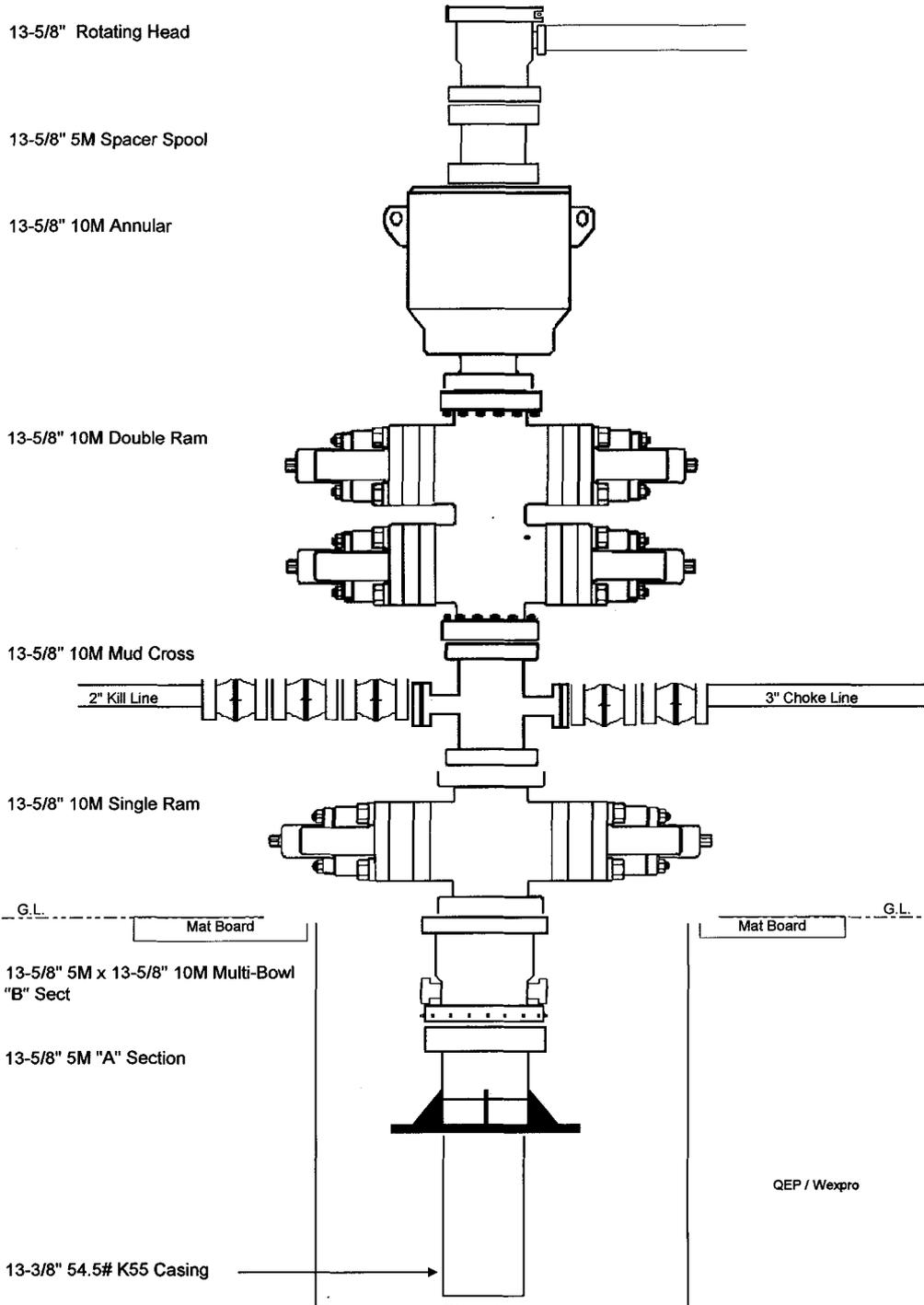
*Final cement volumes to be calculated from caliper log with an attempt to be made to circulate cement to the surface on the intermediate string and 5,000' on the production string. A bond log will be run across the zone of interest and across zones as required by the authorized officer to insure protection of natural resources.

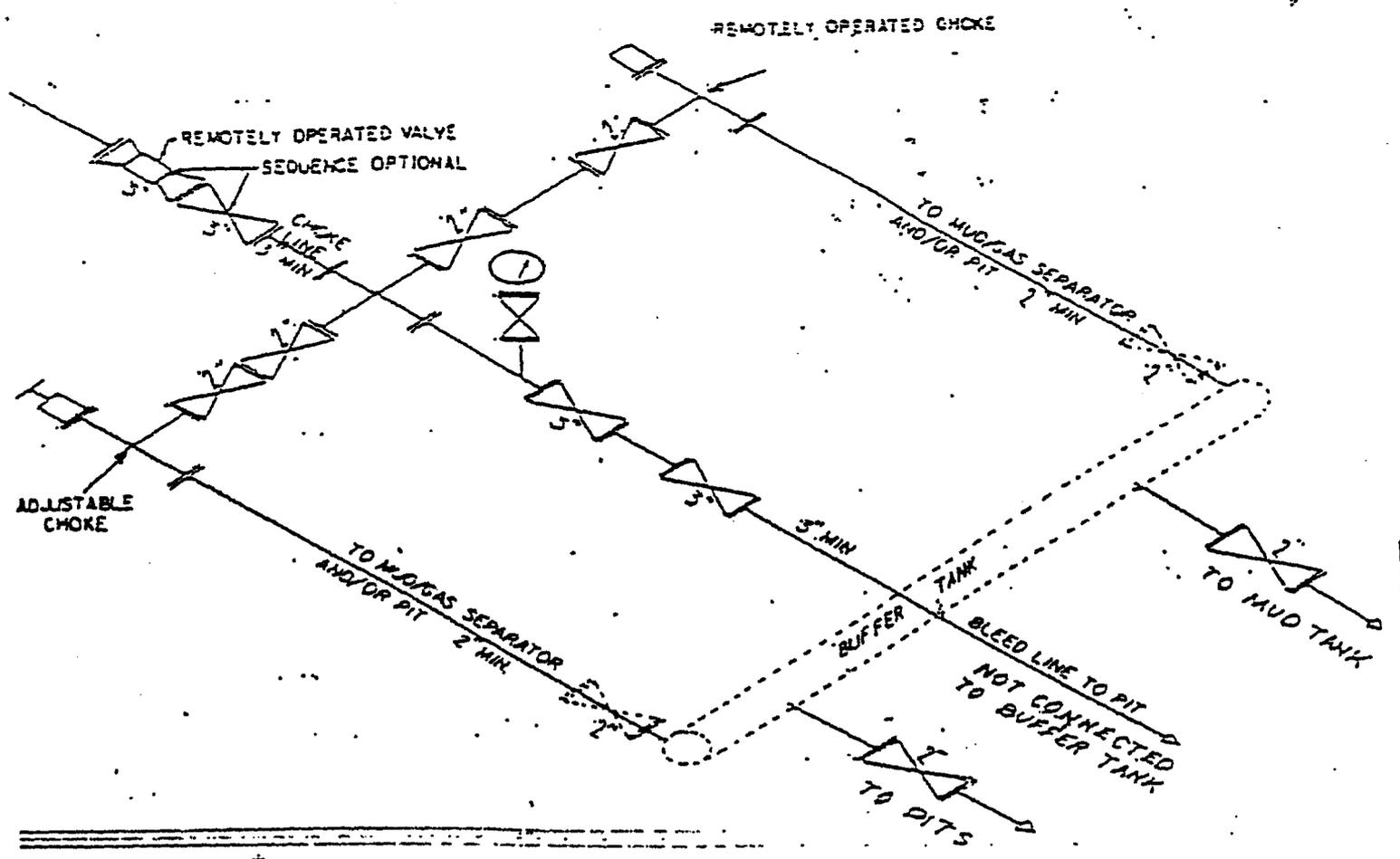
8. Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards

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 11,000 psi based on P* pressure data from wells completed in the Dakota. Maximum anticipated bottom hole temperature is 305° F. A mud weight of 15 ppg is anticipated to be required based on hole stability.

DRILLING PROGRAM

BOP Requirements:





② SM CHOKE MANIFOLD EQUIPMENT — CONFIGURATION OF CHOKES MAY VARY

[FR Doc. 88-25738 Filed 11-17-88; 2:45 am]
BILLING CODE 4310-34-C

DRILLING PROGRAM

Reclamation for Oil Base Cuttings

Prior to drilling out the 7" casing with oil base mud, the reserve pit will be separated at the dike with an additional liner to form 2 separate reserve pits. (Please review the attached survey plat).

Cuttings in the production hole (6-1/8" hole section) will be drilled with oil base mud. During the drilling operations, the cuttings will be collected and held in a steel 500 bbl collection tank on the drilling site. After the rig has completed drilling operations, the collected cuttings will be mixed and encapsulated with Solibond or an equivalent process in one of the reserve pits. The encapsulated cuttings will be left on site in the reclaimed reserve pit. The other reserve pit will dry out from water base cuttings and this pit will be reclaimed as well using conventional methods. Please review the attached Solibond process and proposal.

43-047-36351

34 7s 22e

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APR 01 2008

Questar E & P

DIV. OF OIL, GAS & MINING

Page 1 of 3

CONFIDENTIAL**Operations Summary Report**

Legal Well Name: RW 34-34AD
 Common Well Name: RW 34-34AD
 Event Name: COMPLETION
 Contractor Name:
 Rig Name:

Spud Date: 11/22/2007
 Start: 3/12/2008
 Rig Release:
 Rig Number:
 End:
 Group:

| Date | From - To | Hours | Code | Sub Code | Phase | Description of Operations |
|-----------|---------------|-------|------|----------|--------|--|
| 3/12/2008 | 08:00 - 17:00 | 9.00 | LOG | 2 | C-LOG | MIRU LONE WOLF ELU. MU AND RIH WITH CCL/GR/CBL/VDL LOGGING TOOLS. TAG PBTD AT 17,178'. STARTED LOGGING AND TOOLS QUIT. POOH AND REPLACE TOOLS. GBIH WITH NEW TOOLS. TAG PBTD. PULL 300' STRIP TO CORRELATE TO HES OH LOG DATED 1/17/08. LOG FROM PBTD TO 7,800' WITH 0 PSI. EST. TOC AT 8,300'. BHT 305'. POOH AND RDMO ELU. |
| 3/18/2008 | 15:00 - 17:00 | 2.00 | EQT | 1 | C-PRE | MIRU IPS PUMP TRUCK AND TEST 4 1/2" CSG TO 10,000 PSI. HELD GOOD BLEED TO ZERO. RU ON THE 4 1/2"X7" ANNULUS AND TEST TO 3,000 PSI. HELD GOOD BLEED TO ZERO. RDMO IPS PUMP TRUCK. |
| 3/20/2008 | 08:00 - 13:00 | 5.00 | PERF | 2 | C-PERF | MIRU OWP ELU. PERF STG #1 WITH 8- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SHOOT 42 HOLES FROM 17,033' TO 17,184'. |
| | 13:00 - 16:30 | 3.50 | STIM | 3 | C-STIM | RU HES AND FRAC STAGE #1 WITH 800 GAL. 15% HCL AT 10 BPM, 883 BBLs 40# HYBOR-G CARRYING 26,000 LBS# 20/40 SINTERLITE SAND.SCREENED OUT WITH 2 PPA ON FORMATION. 11,000 LBS PROP PLACED IN FORMATION AND 15,000 LBS LEFT IN THE PIPE. AVG RATE= 44 BPM. AVG PSI= 10,158. |
| | 16:30 - 19:00 | 2.50 | PTST | 2 | C-STIM | FLOW BACK 270 BBLs TO CLEAN UP. THEN LOADED CSG WITH 250 BBLs SLICKWATER. 5.8 BPM AT 9,600 PSI. |
| | 19:00 - 22:00 | 3.00 | PERF | 2 | C-PERF | PERF STG #2 WITH 7- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 16,950 WITH 6,800 PSI. SHOOT 42 HOLES FROM 16,350' TO 16,913'. |
| 3/21/2008 | 22:00 - 06:00 | 8.00 | STIM | 3 | C-STIM | SDFN |
| | 06:00 - 07:30 | 1.50 | STIM | 3 | C-STIM | FRAC STAGE #2 WITH 800 GAL. 15% HCL AT 10 BPM, 1,073 BBLs 10# LINEAR GEL CARRYING 12,900 LBS# 20/40 SINTERLITE SAND.SCREENED OUT WITH 0.75 PPA ON FORMATION. 8,100 LBS PROP PLACED IN FORMATION AND 4,700 LBS LEFT IN THE PIPE. AVG RATE= 30.6 BPM. AVG PSI= 10,994. |
| | 07:30 - 09:30 | 2.00 | PTST | 2 | C-STIM | FLOW BACK 250 BBLs TO CLEAN UP. THEN LOADED CSG WITH 250 BBLs SLICKWATER. 10.0 BPM AT 10,350 PSI. |
| | 09:30 - 12:30 | 3.00 | PERF | 2 | C-PERF | PERF STG #3 WITH 7- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CBP AT 16,270' WITH 7,900 PSI. SHOOT 42 HOLES FROM 15,701' TO 16,233'. |
| | 12:30 - 13:30 | 1.00 | STIM | 3 | C-STIM | FRAC STAGE #3 WITH 800 GAL. 15% HCL AT 10 BPM, 1,405 BBLs LINEAR GEL CARRYING 17,600 LBS# 20/40 SINTERLITE SAND. AVG RATE= 33.2 BPM. AVG PSI= 11,213. |
| | 13:30 - 17:30 | 4.00 | PERF | 2 | C-PERF | PERF STG #4 WITH 7- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CBP AT 15,620' WITH 8,000 PSI. SHOOT 42 HOLES FROM 15,000' TO 15,592'. |
| 3/22/2008 | 17:30 - 19:30 | 2.00 | STIM | 3 | C-STIM | FRAC STAGE #4 WITH 800 GAL. 15% HCL AT 10 BPM, 1,919 BBLs LINEAR GEL CARRYING 8,120 LBS# 20/40 SINTERLITE SAND. AVG RATE= 18 BPM. AVG PSI= 11,522. |
| | 19:30 - 22:30 | 3.00 | PERF | 2 | C-PERF | PERF STG #5 WITH 7- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 14,940' WITH 8,000 PSI. SHOOT 42 HOLES FROM 14,348' TO 14,905'. |
| | 06:00 - 07:00 | 1.00 | STIM | 3 | C-STIM | FRAC STAGE #5 WITH 800 GAL. 15% HCL AT 10 BPM, 1,881 BBLs 10# LINEAR GEL CARRYING 23,300 LBS# 20/40 SINTERLITE SAND. AVG RATE= 38 BPM. AVG PSI= 10,553 |
| | 07:00 - 09:30 | 2.50 | PERF | 2 | C-PERF | PERF STG #6 WITH 7- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CBP AT 14,247' WITH 6,800 PSI. SHOOT 42 HOLES FROM 13,662' TO 14,236'. |
| | 09:30 - 11:00 | 1.50 | STIM | 3 | C-STIM | FRAC STAGE #6 WITH 800 GAL. 15% HCL AT 10 BPM, 1,454 BBLs |

Operations Summary Report

Legal Well Name: RW 34-34AD
 Common Well Name: RW 34-34AD
 Event Name: COMPLETION
 Contractor Name:
 Rig Name:

Start: 3/12/2008
 Rig Release:
 Rig Number:

Spud Date: 11/22/2007
 End:
 Group:

| Date | From - To | Hours | Code | Sub Code | Phase | Description of Operations |
|-----------|---------------|-------|------|----------|--------|---|
| 3/22/2008 | 09:30 - 11:00 | 1.50 | STIM | 3 | C-STIM | LINEAR GEL CARRYING 13,100 LBS# 20/40 SINTERLITE SAND. AVG RATE= 26.4 BPM. AVG PSI= 10,951. |
| | 11:00 - 13:00 | 2.00 | PERF | 2 | C-PERF | PERF STG #7 WITH 7- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CBP AT 13,578' WITH 6.800 PSI. SHOOT 42 HOLES FROM 13,007' TO 13,554'. |
| | 13:00 - 14:30 | 1.50 | STIM | 3 | C-STIM | FRAC STAGE #7 WITH 800 GAL. 15% HCL AT 10 BPM, 1,932 BBLS LINEAR GEL CARRYING 60,400 LBS# 20/40 SB-EXCEL SAND. AVG RATE= 42.0 BPM. AVG PSI= 9,792. |
| | 14:30 - 16:20 | 1.83 | PERF | 2 | C-PERF | PERF STG #8 WITH 8- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 12,910' WITH 5,200 PSI. SHOOT 48 HOLES FROM 12,268' TO 12,881'. |
| | 16:20 - 17:10 | 0.83 | STIM | 3 | C-STIM | FRAC STAGE #8 WITH 800 GAL. 15% HCL AT 10 BPM, 1,893 BBLS LINEAR GEL CARRYING 60,300 LBS# 20/40 SB-EXCEL SAND. AVG RATE= 43.4 BPM. AVG PSI= 9,839. |
| | 17:10 - 19:00 | 1.83 | PERF | 2 | C-PERF | PERF STG #9 WITH 7- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 11,650' WITH 5,000 PSI. SHOOT 42 HOLES FROM 11,366' TO 11,617'. |
| | 19:00 - 20:00 | 1.00 | STIM | 3 | C-STIM | FRAC STAGE #9 WITH 800 GAL. 15% HCL AT 10 BPM, 2,249 BBLS LINEAR GEL CARRYING 76,400 LBS# 20/40 SB-EXCEL SAND. AVG RATE= 47.3 BPM. AVG PSI= 9,335. |
| 3/23/2008 | 06:00 - 06:00 | 24.00 | STIM | 3 | C-STIM | SD FOR EASTER. |
| 3/24/2008 | 06:00 - 08:15 | 2.25 | PERF | 2 | C-PERF | PERF STG #10 WITH 8- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 10,860' WITH 2,900 PSI. SHOOT 48 HOLES FROM 10,715' TO 10,847'. |
| | 08:15 - 09:30 | 1.25 | STIM | 3 | C-STIM | FRAC STAGE #10 WITH 800 GAL. 15% HCL AT 10 BPM, 902 BBLS LINEAR GEL CARRYING 20,400 LBS# 20/40 CRC SAND INTO FORMATION. LEFT 8,000 LBS PPA IN WELL BORE. AVG RATE= 46.0 BPM. AVG PSI= 9,218. CUT SAND EARLY, SCREENED OUT IN 1.75 LBS PPA SAND. |
| | 08:15 - 12:15 | 4.00 | PTST | 2 | C-OTH | FLOWED WELL BACK TO CLEAN UP WELL BORE. PUMPED FLUSH VOLUME DOWN CSG. CONTINUE ON WITH COMPLETION. |
| | 12:15 - 13:15 | 1.00 | PERF | 2 | C-PERF | PERF STG #11 WITH 8- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CBP AT 10,410' WITH 3,000 PSI. SHOOT 48 HOLES FROM 10,014' TO 10,386'. |
| | 13:15 - 14:45 | 1.50 | STIM | 3 | C-STIM | FRAC STAGE #11 WITH 800 GAL. 15% HCL AT 10 BPM, 2,668 BBLS LINEAR GEL CARRYING 99,160 LBS# 20/40 CRC SAND. AVG RATE= 49.9 BPM. AVG PSI= 6,585. |
| | 14:45 - 16:15 | 1.50 | PERF | 2 | C-PERF | PERF STG #12 WITH 8- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 9,670' WITH 2,000 PSI. SHOOT 42 HOLES FROM 9,319' TO 9,640'. |
| | 16:15 - 17:00 | 0.75 | STIM | 3 | C-STIM | FRAC STAGE #12 WITH 800 GAL. 15% HCL AT 10 BPM, 1,364 BBLS LINEAR GEL CARRYING 40,645 LBS# 20/40 CRC SAND. AVG RATE= 40.5 BPM. AVG PSI= 6,912. |
| | 17:00 - 18:00 | 1.00 | PERF | 2 | C-PERF | PERF STG #13 WITH 7- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 8,070' WITH 1,800 PSI. SHOOT 18 HOLES FROM 8,026' TO 8,032'. |
| | 18:00 - 20:30 | 2.50 | STIM | 3 | C-STIM | FRAC STAGE #13 WITH 800 GAL. 15% HCL AT 10 BPM, 694 BBLS DELTA GEL CARRYING 49,450 LBS# 20/40 CRC SAND. AVG RATE= 31.0 BPM. AVG PSI= 5,242. RDMO HES AND OWP ELU. |
| 3/25/2008 | 06:00 - 23:30 | 17.50 | DRL | 6 | C-STIM | MIRU IPS CTU, LOAD CT WITH 120* F WATER. MU EXPRESS 2 7/8' MOTOR/JARS WITH 3.625" 5-BLADE JUNK MILL. TEST STACK TO |

Operations Summary Report

Legal Well Name: RW 34-34AD
 Common Well Name: RW 34-34AD
 Event Name: COMPLETION
 Contractor Name:
 Rig Name:

Spud Date: 11/22/2007
 Start: 3/12/2008
 Rig Release:
 Rig Number:

End:
 Group:

| Date | From - To | Hours | Code | Sub Code | Phase | Description of Operations |
|-----------|---------------|-------|------|----------|--------|--|
| 3/25/2008 | 06:00 - 23:30 | 17.50 | DRL | 6 | C-STIM | 8,000 PSI. RIH AND DRILL OUT 12 PLUGS IN 10 HOURS. TAG PBTD AT 17,212'. PUMP FINAL 10 BBLS SWEEP AND POOH. FLOWING TO SALES THROUGH IPS EQUIPMENT. RDMO IPS CTU. |
| 3/26/2008 | 06:00 - 06:00 | 24.00 | DRL | 6 | C-STIM | FLOWING TO SALES THROUGH IPS EQUIPMENT. |
| 3/27/2008 | 06:00 - 06:00 | 24.00 | DRL | 6 | C-STIM | FLOWING TO SALES THROUGH IPS EQUIPMENT. |
| 3/28/2008 | 06:00 - 06:00 | 24.00 | DRL | 6 | C-STIM | FLOWING TO SALES THROUGH IPS EQUIPMENT. |
| 3/29/2008 | 06:00 - 06:00 | 24.00 | DRL | 6 | C-STIM | FLOWING TO SALES THROUGH IPS EQUIPMENT. |
| 3/30/2008 | 06:00 - 06:00 | 24.00 | DRL | 6 | C-STIM | FLOWING TO SALES THROUGH IPS EQUIPMENT. RDMO FBE. TURN OVER TO PRODUCTION. |
| 3/31/2008 | 06:00 - 06:00 | 24.00 | DRL | 6 | C-STIM | FLOWING TO SALES THROUGH PRODUCTION. ND 4 1/16" FRAC HEAD, SENT TO CAMERON FOR INSPECTION. |

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE COPY SENT TO OPERATOR

1. Type of Well
Oil Gas
 Well Well Other
Date: 6-10-2008
Initials: KS

2. Name of Operator
QUESTAR EXPLORATION & PRODUCTION COMPANY

3. Address and Telephone No. **Contact: Mike Stahl**
11002 E. 17500 S. VERNAL, UT 84078-8526 **Phone: (303) 308-3613**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
858' FSL 1944' FEL, SWSE, SECTION 34, T7S, R2E

5. Lease Designation and Serial No.
UTU-0558

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

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

8. Well Name and No.
RW 34-34AD

9. API Well No.
43-047-36351

10. Field and Pool, or Exploratory Area
UNDESIGNATED

11. County or Parish, State
UINTAH COUNTY, UTAH

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

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

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)
"In compliance with the stated objectives of the Federal Regulations for Onshore Oil & Gas Operations and the applicable Federal Unit Agreement, Questar Exploration and Production Company hereby requests the commingling of production between intervals in the RW 34-34AD. Questar considers this commingling to be in the public interest in that it promotes maximum ultimate economic recovery, prevents waste, provides for orderly and efficient production of oil and gas and presents no detrimental effects from commingling the two gas streams.

Questar requests approval for the commingling of production between the Dakota and Wasatch formations. Based upon offset production logs, the proposed initial allocation is as follows: Dakota - 20%, Mancos - 40%, Mesa Verde - 30%, Wasatch - 10%.

A production log will be run within 30 days to determine contribution from each interval. At that time a Subsequent Report will be filed detailing the results of the production log.

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 discontinued after the fifth anniversary of the initial production.

14. I hereby certify that the foregoing is true and correct.
Signed *Franca Billa* Title Associate Regulatory Affairs Analyst Date 03/31/2008

(This space for Federal or State office use)
Approved by: _____ Title Accepted by the Utah Division of Oil, Gas and Mining Federal Approval Of This Action Is Necessary
Conditions of approval, if any _____

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.
RECEIVED Date: 6/10/08

APR 02 2008
DIV. OF OIL, GAS & MINING
*See instruction on Reverse Side
By: *[Signature]*
* Cause 87-07
CONFIDENTIAL

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT
SUBMIT IN DUPLICATE (See other instructions on reverse side)

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

CONFIDENTIAL

5. LEASE DESIGNATION AND SERIAL NO.
UTU-0558
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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

7. UNIT AGREEMENT NAME
RED WASH UNIT

8. FARM OR LEASE NAME
N/A

9. WELL NO.
RW 34-34AD

2. NAME OF OPERATOR
QUESTAR EXPLORATION & PRODUCTION CO.

3. ADDRESS OF OPERATOR 11002 EAST 17500 SOUTH - VERNAL, UT 84078 Contact: Dahn Caldwell 435-781-4342 Fax # 435.781.4357

10. FIELD AND POOL, OR WILDCAT
REDWASH

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 858' FSL, 1944' FEL, SWSE, SEC 34-T7S-R22E
At top rod. interval reported below 858' FSL, 1944' FEL, SWSE, SEC 34-T7S-R22E
At total depth 858' FSL, 1944' FEL, SWSE, SEC 34-T7S-R22E

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
SEC 34-T7S-R22E

14. PERMIT NO. 43-047-36351 DATE ISSUED _____
12. COUNTY OR PARISH UTAH 13. STATE UT

15. DATE SPUDED 6/7/07 16. DATE T.D. REACHED 11/02/07 17. DATE COMPL. (Ready to prod.) 3/25/08 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* KB 19. ELEV. CASINGHEAD
20. TOTAL DEPTH, MD & TVD 17,227' 21. PLUG BACK T.D., MD & TVD 17,212' 22. IF MULTIPLE COMPL., HOW MANY* _____ 23. INTERVALS DRILLED BY _____ ROTARY TOOLS X CABLE TOOLS _____

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)*
SEE ATTACHMENT ONE
25. WAS DIRECTIONAL SURVEY MADE
NO

26. TYPE ELECTRIC AND OTHER LOGS RUN
CCL/GR/CBL/VDL, ARRAY COMP TRUE RESISTIVITY, SPECTRAL DENSITY DSN BCS
27. WAS WELL CORED
NO

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

| CASING SIZE | WEIGHT, LB./FT. | DEPTH SET (MD) | SOLE SIZE | CEMENTING RECORD | AMOUNT PULLED |
|-------------|-----------------|----------------|-----------|------------------|---------------|
| 13-3/8" | 54.5# | 502' | 17-1/2" | 500 SXS | |
| 9-5/8" | 47# | 6353' | 12-1/2" | 1540 SXS | |
| 7" | 26# & 29# | 12646' | 8-1/2" | 475 SXS | |
| 4-1/2" | 15.1# & 16.28# | 17214' | 6-1/8" | 700 SXS | |

29. LINER RECORD (30. TUBING RECORD)

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|------|----------|-------------|---------------|-------------|------|----------------|-----------------|
| N/A | N/A | | | | N/A | N/A | |

31. PERFORATION RECORD (Interval, size and number)
SEE ATTACHMENT ONE
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED
SEE ATTACHMENT ONE SEE ATTACHMENT ONE

33.* PRODUCTION
DATE FIRST PRODUCTION 3/25/08 PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) FLOWING WELL STATUS (Producing or shut-in) PRODUCING
DATE OF TEST 3/28/08 HOURS TESTED 24 CHOKE SIZE 28 PROD'N FOR TEST PERIOD _____ OIL-BBL. 30 GAS-MCF. 1600 WATER-BBL. 1950 GAS-OIL RATIO
FLOW. TUBING PRESS. N/A CASING PRESSURE 1600 CALCULATED 24-HOUR RATE _____ OIL-BBL. GAS-MCF WATER-BBL. OIL GRAVITY-API (CORR.)

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

35. LIST OF ATTACHMENTS
PERFORATION DETAIL ATTACHMENT ONE

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED JIM SIMONTON Jim Simonton TITLE COMPLETION SUPERVISOR DATE 6/3/08

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

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

RECEIVED
JUN 05 2008
DIV. OF OIL, GAS & MINERAL

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

| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. |
|-------------|--------|--------|-----------------------------|
| WASATCH | 6557' | | |
| MESA VERDE | 9252' | | |
| CASTLEGATE | 11747' | | |
| BLACKHAWK | 12109' | | |
| MANCOS | 12525' | | |
| MANCOS 'B' | 12994' | | |
| FRONTIER | 15900' | | |
| DAKOTA SILT | 16811' | | |
| DAKOTA | 17027' | | |
| TD | 17227' | | |

38. GEOLOGIC MARKERS
RW 34-34AD

| NAME | TOP | |
|-------------|-------------|------------------|
| | MEAS. DEPTH | TRUE VERT. DEPTH |
| WASATCH | 6557' | |
| MESA VERDE | 9252' | |
| CASTLEGATE | 11747' | |
| BLACKHAWK | 12109' | |
| MANCOS | 12525' | |
| MANCOS 'B' | 12994' | |
| FRONTIER | 15900' | |
| DAKOTA SILT | 16811' | |
| DAKOTA | 17027' | |
| TD | 17227' | |

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RW 34-34AD – ATTACHMENT ONE
PERFORATION DETAIL:

| <u>Open Perfs</u> | <u>Stimulation</u> | | | | | |
|-------------------|--------------------|--------|--------|---------|------|-------------------|
| 8026' – 8032' | Frac w/ | 49,450 | Lbs in | 29,148 | Gals | Open- Wasatch |
| 9319' – 9321' | } | 40,645 | Lbs in | 57,288 | Gals | Open – Mesa Verde |
| 9553' – 9557' | | | | | | Open – Mesa Verde |
| 9614' – 9618' | | | | | | Open – Mesa Verde |
| 9636' – 9640' | | | | | | Open – Mesa Verde |
| 10014' – 10016' | } | 99,160 | Lbs in | 112,056 | Gals | Open - LMV |
| 10186' – 10188' | | | | | | Open - LMV |
| 10198' – 10200' | | | | | | Open - LMV |
| 10224' – 10226' | | | | | | Open - LMV |
| 10299' – 10301' | | | | | | Open - LMV |
| 10362' – 10364' | | | | | | Open - LMV |
| 10373' – 10375' | | | | | | Open - LMV |
| 10384' – 10386' | | | | | | Open - LMV |
| 10715' – 10719' | } | 20,400 | Lbs in | 37,884 | Gals | Open - LMV |
| 10764' – 10768' | | | | | | Open - LMV |
| 10801' – 10805' | | | | | | Open - LMV |
| 10843' – 10847' | | | | | | Open - LMV |
| 11366' – 11368' | } | 76,400 | Lbs in | 94,458 | Gals | Open - LMV |
| 11373' – 11375' | | | | | | Open - LMV |
| 11445' – 11447' | | | | | | Open - LMV |
| 11456' – 11458' | | | | | | Open - LMV |
| 11538' – 11540' | | | | | | Open - LMV |
| 11599' – 11601' | | | | | | Open - LMV |
| 11615' – 11617' | | | | | | Open - LMV |
| 12268' – 12272' | } | 60,300 | Lbs in | 79,506 | Gals | Open – Mancos 'B' |
| 12341' – 12343' | | | | | | Open – Mancos 'B' |
| 12410' – 12412' | | | | | | Open - Mancos |
| 12508' – 12510' | | | | | | Open - Mancos |
| 12672' – 12674' | | | | | | Open - Mancos |
| 12803' – 12805' | | | | | | Open - Mancos |
| 12879' – 12881' | | | | | | Open - Mancos |
| 13007' – 13009' | } | 60,400 | Lbs in | 81,144 | Gals | Open – Mancos 'B' |
| 13070' – 13072' | | | | | | Open – Mancos 'B' |
| 13188' – 13190' | | | | | | Open - Mancos |
| 13298' – 13300' | | | | | | Open - Mancos |
| 13390' – 13392' | | | | | | Open - Mancos |
| 13493' – 13495' | | | | | | Open - Mancos |
| 13552' – 13554' | | | | | | Open - Mancos |

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| | | | | | | | |
|-----------------|---|---------|--------|--------|--------|------|--------------------|
| 13662' – 13664' | } | Frac w/ | 13,100 | Lbs in | 61,068 | Gals | Open - Mancos |
| 13760' – 13762' | | | | | | | Open - Mancos |
| 13857' – 13859' | | | | | | | Open - Mancos |
| 13963' – 13965' | | | | | | | Open - Mancos |
| 14032' – 14034' | | | | | | | Open - Mancos |
| 14138' – 14140' | | | | | | | Open - Mancos |
| 14234' – 14236' | | | | | | | Open - Mancos |
| 14348' – 14350' | } | Frac w/ | 23,300 | Lbs in | 79,002 | Gals | Open - Mancos |
| 14411' – 14413' | | | | | | | Open - Mancos |
| 14515' – 14517' | | | | | | | Open - Mancos |
| 14588' – 14590' | | | | | | | Open - Mancos |
| 14660' – 14662' | | | | | | | Open - Mancos |
| 14783' – 14785' | | | | | | | Open - Mancos |
| 14903' – 14905' | | | | | | | Open - Mancos |
| 15000' – 15002' | } | Frac w/ | 8,120 | Lbs in | 80,598 | Gals | Open - Mancos |
| 15104' – 15106' | | | | | | | Open - Mancos |
| 15233' – 15235' | | | | | | | Open - Mancos |
| 15317' – 15319' | | | | | | | Open - Mancos |
| 15401' – 15403' | | | | | | | Open - Mancos |
| 15510' – 15512' | | | | | | | Open - Mancos |
| 15590' – 15592' | | | | | | | Open - Mancos |
| 15701' – 15703' | } | Frac w/ | 17,600 | Lbs in | 59,010 | Gals | Open - Mancos |
| 15776' – 15778' | | | | | | | Open - Mancos |
| 15906' – 15908' | | | | | | | Open - Frontier |
| 15984' – 15986' | | | | | | | Open - Frontier |
| 16063' – 16065' | | | | | | | Open - Frontier |
| 16155' – 16157' | | | | | | | Open - Frontier |
| 16231' – 16233' | | | | | | | Open - Frontier |
| 16350' – 16352' | } | Frac w/ | 12,900 | Lbs in | 45,066 | Gals | Open - Frontier |
| 16426' – 16428' | | | | | | | Open - Frontier |
| 16544' – 16546' | | | | | | | Open - Frontier |
| 16641' – 16643' | | | | | | | Open - Frontier |
| 16745' – 16747' | | | | | | | Open - Frontier |
| 16821' – 16823' | | | | | | | Open - Dakota Silt |
| 16911' – 16913' | | | | | | | Open - Dakota Silt |
| 17033' – 17035' | } | Frac w/ | 26,000 | Lbs in | 37,086 | Gals | Open - Dakota |
| 17059' – 17061' | | | | | | | Open - Dakota |
| 17131' – 17133' | | | | | | | Open - Dakota |
| 17159' – 17165' | | | | | | | Open - Dakota |
| 17180' – 17184' | | | | | | | Open - Dakota |
| | | | | | | | |

CONFIDENTIAL

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name:

Spud Date: 11/22/2007
 Rig Release:
 Rig Number:

CONFIDENTIAL

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|-----------|---------------|-------|------|----------|--|
| 3/12/2008 | 08:00 - 17:00 | 9.00 | LOG | 2 | MIRU LONE WOLF ELU. MU AND RIH WITH CCL/GR/CBL/VDL LOGGING TOOLS. TAG PBTD AT 17,178'. STARTED LOGGING AND TOOLS QUIT. POOH AND REPLACE TOOLS. GBIH WITH NEW TOOLS. TAG PBTD. PULL 300' STRIP TO CORRELATE TO HES OH LOG DATED 1/17/08. LOG FROM PBTD TO 7,800' WITH 0 PSI. EST. TOC AT 8,300'. BHT 305'. POOH AND RDMO ELU. |
| 3/18/2008 | 15:00 - 17:00 | 2.00 | EQT | 1 | MIRU IPS PUMP TRUCK AND TEST 4 1/2" CSG TO 10,000 PSI. HELD GOOD BLEED TO ZERO. RU ON THE 4 1/2"X7" ANNULUS AND TEST TO 3,000 PSI. HELD GOOD BLEED TO ZERO. RDMO IPS PUMP TRUCK. |
| 3/20/2008 | 08:00 - 13:00 | 5.00 | PERF | 2 | MIRU OWP ELU. PERF STG #1 WITH 8- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SHOOT 42 HOLES FROM 17,033' TO 17,184'. |
| | 13:00 - 16:30 | 3.50 | STIM | 3 | RU HES AND FRAC STAGE #1 WITH 800 GAL. 15% HCL AT 10 BPM, 883 BBLS 40# HYBOR-G CARRYING 26,000 LBS# 20/40 SINTERLITE SAND. SCREENED OUT WITH 2 PPA ON FORMATION. 11,000 LBS PROP PLACED IN FORMATION AND 15,000 LBS LEFT IN THE PIPE. AVG RATE= 44 BPM. AVG PSI= 10,158. |
| | 16:30 - 19:00 | 2.50 | PTST | 2 | FLOW BACK 270 BBLS TO CLEAN UP. THEN LOADED CSG WITH 250 BBLS SLICKWATER. 5.8 BPM AT 9,600 PSI. |
| | 19:00 - 22:00 | 3.00 | PERF | 2 | PERF STG #2 WITH 7- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 16,950 WITH 6,800 PSI. SHOOT 42 HOLES FROM 16,350' TO 16,913'. |
| 3/21/2008 | 22:00 - 06:00 | 8.00 | STIM | 3 | SDFN |
| | 06:00 - 07:30 | 1.50 | STIM | 3 | FRAC STAGE #2 WITH 800 GAL. 15% HCL AT 10 BPM, 1,073 BBLS 10# LINEAR GEL CARRYING 12,900 LBS# 20/40 SINTERLITE SAND. SCREENED OUT WITH 0.75 PPA ON FORMATION. 8,100 LBS PROP PLACED IN FORMATION AND 4,700 LBS LEFT IN THE PIPE. AVG RATE= 30.6 BPM. AVG PSI= 10,994. |
| | 07:30 - 09:30 | 2.00 | PTST | 2 | FLOW BACK 250 BBLS TO CLEAN UP. THEN LOADED CSG WITH 250 BBLS SLICKWATER. 10.0 BPM AT 10,350 PSI. |
| | 09:30 - 12:30 | 3.00 | PERF | 2 | PERF STG #3 WITH 7- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CBP AT 16,270' WITH 7,900 PSI. SHOOT 42 HOLES FROM 15,701' TO 16,233'. |
| | 12:30 - 13:30 | 1.00 | STIM | 3 | FRAC STAGE #3 WITH 800 GAL. 15% HCL AT 10 BPM, 1,405 BBLS LINEAR GEL CARRYING 17,600 LBS# 20/40 SINTERLITE SAND. AVG RATE= 33.2 BPM. AVG PSI= 11,213. |
| | 13:30 - 17:30 | 4.00 | PERF | 2 | PERF STG #4 WITH 7- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CBP AT 15,620' WITH 8,000 PSI. SHOOT 42 HOLES FROM 15,000' TO 15,592'. |
| | 17:30 - 19:30 | 2.00 | STIM | 3 | FRAC STAGE #4 WITH 800 GAL. 15% HCL AT 10 BPM, 1,919 BBLS LINEAR GEL CARRYING 8,120 LBS# 20/40 SINTERLITE SAND. AVG RATE= 18 BPM. AVG PSI= 11,522. |
| 3/22/2008 | 19:30 - 22:30 | 3.00 | PERF | 2 | PERF STG #5 WITH 7- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 14,940' WITH 8,000 PSI. SHOOT 42 HOLES FROM 14,348' TO 14,905'. |
| | 06:00 - 07:00 | 1.00 | STIM | 3 | FRAC STAGE #5 WITH 800 GAL. 15% HCL AT 10 BPM, 1,881 BBLS 10# LINEAR GEL CARRYING 23,300 LBS# 20/40 SINTERLITE SAND. AVG RATE= 38 BPM. AVG PSI= 10,553 |
| | 07:00 - 09:30 | 2.50 | PERF | 2 | PERF STG #6 WITH 7- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CBP AT 14,247' WITH 6,800 PSI. SHOOT 42 HOLES FROM 13,662' TO 14,236'. |
| | 09:30 - 11:00 | 1.50 | STIM | 3 | FRAC STAGE #6 WITH 800 GAL. 15% HCL AT 10 BPM, 1,454 BBLS LINEAR GEL CARRYING 13,100 LBS# 20/40 SINTERLITE SAND. AVG RATE= 26.4 BPM. AVG PSI= 10,951. |
| | 11:00 - 13:00 | 2.00 | PERF | 2 | PERF STG #7 WITH 7- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CBP AT 13,578' WITH 6,800 PSI. SHOOT 42 HOLES FROM 13,007' TO 13,554'. |

CONFIDENTIAL

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name:

Spud Date: 11/22/2007
 Rig Release:
 Rig Number:

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|-----------|---------------|-------|------|----------|---|
| 3/22/2008 | 13:00 - 14:30 | 1.50 | STIM | 3 | FRAC STAGE #7 WITH 800 GAL. 15% HCL AT 10 BPM, 1,932 BBLS LINEAR GEL CARRYING 60,400 LBS# 20/40 SB-EXCEL SAND. AVG RATE= 42.0 BPM. AVG PSI= 9,792. |
| | 14:30 - 16:20 | 1.83 | PERF | 2 | PERF STG #8 WITH 8- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 12,910' WITH 5,200 PSI. SHOOT 48 HOLES FROM 12,268' TO 12,881'. |
| | 16:20 - 17:10 | 0.83 | STIM | 3 | FRAC STAGE #8 WITH 800 GAL. 15% HCL AT 10 BPM, 1,893 BBLS LINEAR GEL CARRYING 60,300 LBS# 20/40 SB-EXCEL SAND. AVG RATE= 43.4 BPM. AVG PSI= 9,839. |
| | 17:10 - 19:00 | 1.83 | PERF | 2 | PERF STG #9 WITH 7- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 11,650' WITH 5,000 PSI. SHOOT 42 HOLES FROM 11,366' TO 11,617'. |
| | 19:00 - 20:00 | 1.00 | STIM | 3 | FRAC STAGE #9 WITH 800 GAL. 15% HCL AT 10 BPM, 2,249 BBLS LINEAR GEL CARRYING 76,400 LBS# 20/40 SB-EXCEL SAND. AVG RATE= 47.3 BPM. AVG PSI= 9,335. |
| 3/23/2008 | 06:00 - 06:00 | 24.00 | STIM | 3 | SD FOR EASTER. |
| 3/24/2008 | 06:00 - 08:15 | 2.25 | PERF | 2 | PERF STG #10 WITH 8- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 10,860' WITH 2,900 PSI. SHOOT 48 HOLES FROM 10,715' TO 10,847'. |
| | 08:15 - 09:30 | 1.25 | STIM | 3 | FRAC STAGE #10 WITH 800 GAL. 15% HCL AT 10 BPM, 902 BBLS LINEAR GEL CARRYING 20,400 LBS# 20/40 CRC SAND INTO FORMATION. LEFT 8,000 LBS PPA IN WELL BORE. AVG RATE= 46.0 BPM. AVG PSI= 9,218. CUT SAND EARLY, SCREENED OUT IN 1.75 LBS PPA SAND. |
| | 08:15 - 12:15 | 4.00 | PTST | 2 | FLOWED WELL BACK TO CLEAN UP WELL BORE. PUMPED FLUSH VOLUME DOWN CSG. CONTINUE ON WITH COMPLETION. |
| | 12:15 - 13:15 | 1.00 | PERF | 2 | PERF STG #11 WITH 8- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CBP AT 10,410' WITH 3,000 PSI. SHOOT 48 HOLES FROM 10,014' TO 10,386'. |
| | 13:15 - 14:45 | 1.50 | STIM | 3 | FRAC STAGE #11 WITH 800 GAL. 15% HCL AT 10 BPM, 2,668 BBLS LINEAR GEL CARRYING 99,160 LBS# 20/40 CRC SAND. AVG RATE= 49.9 BPM. AVG PSI= 6,585. |
| | 14:45 - 16:15 | 1.50 | PERF | 2 | PERF STG #12 WITH 8- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 9,670' WITH 2,000 PSI. SHOOT 42 HOLES FROM 9,319' TO 9,640'. |
| | 16:15 - 17:00 | 0.75 | STIM | 3 | FRAC STAGE #12 WITH 800 GAL. 15% HCL AT 10 BPM, 1,364 BBLS LINEAR GEL CARRYING 40,645 LBS# 20/40 CRC SAND. AVG RATE= 40.5 BPM. AVG PSI= 6,912. |
| | 17:00 - 18:00 | 1.00 | PERF | 2 | PERF STG #13 WITH 7- 2' GUN LOADED 3 SPF, 120* PHASE, 11 GRAM CHARGE. SET 3.44" CFP AT 8,070' WITH 1,800 PSI. SHOOT 18 HOLES FROM 8,026' TO 8,032'. |
| | 18:00 - 20:30 | 2.50 | STIM | 3 | FRAC STAGE #13 WITH 800 GAL. 15% HCL AT 10 BPM, 694 BBLS DELTA GEL CARRYING 49,450 LBS# 20/40 CRC SAND. AVG RATE= 31.0 BPM. AVG PSI= 5,242. RDMO HES AND OWP ELU. |
| 3/25/2008 | 06:00 - 23:30 | 17.50 | DRL | 6 | MIRU IPS CTU, LOAD CT WITH 120* F WATER. MU EXPRESS 2 7/8' MOTOR/JARS WITH 3.625" 5-BLADE JUNK MILL. TEST STACK TO 8,000 PSI. RIH AND DRILL OUT 12 PLUGS IN 10 HOURS. TAG PBSD AT 17,212'. PUMP FINAL 10 BBLS SWEEP AND POOH. FLOWING TO SALES THROUGH IPS EQUIPMENT. RDMO IPS CTU. |
| 3/26/2008 | 06:00 - 06:00 | 24.00 | DRL | 6 | FLOWING TO SALES THROUGH IPS EQUIPMENT. |
| 3/27/2008 | 06:00 - 06:00 | 24.00 | DRL | 6 | FLOWING TO SALES THROUGH IPS EQUIPMENT. |
| 3/28/2008 | 06:00 - 06:00 | 24.00 | DRL | 6 | FLOWING TO SALES THROUGH IPS EQUIPMENT. |

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Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name:

Spud Date: 11/22/2007
 Rig Release:
 Rig Number:

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|-----------|---------------|-------|------|----------|--|
| 3/29/2008 | 06:00 - 06:00 | 24.00 | DRL | 6 | FLOWING TO SALES THROUGH IPS EQUIPMENT. |
| 3/30/2008 | 06:00 - 06:00 | 24.00 | DRL | 6 | FLOWING TO SALES THROUGH IPS EQUIPMENT. RDMO FBE. TURN OVER TO PRODUCTION. |
| 3/31/2008 | 06:00 - 06:00 | 24.00 | DRL | 6 | FLOWING TO SALES THROUGH PRODUCTION. ND 4 1/16" FRAC HEAD, SENT TO CAMERON FOR INSPECTION. |

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Operations Summary Report

DRILLING

Well Name: RW 34-34AD
 Location: 34-7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release: 2/19/2008
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|-------|------|----------|---|
| 10/17/2007 | 06:00 - 11:30 | 5.50 | 03 | A | DRILL TO 540, RUN 13 3/8 CASING 502' |
| | 11:30 - 14:30 | 3.00 | 05 | H | CEMENT SURFACE CASING CREW |
| 11/2/2007 | 07:00 - 19:00 | 12.00 | 01 | A | RECEIVED 28 LOADS- BOTTOM SUB, 2 LOADS OF MATTING BOARDS, 2 SUB SPEADERS, BOTH DOG HOUSES, CHOKE MANIFOLD, VOLUME TANK, 2 SUIT CASE SKIDS, BOTH PUMPS, BOTH WATER TANKS, 1 MOTOR, FUEL TANK, HOPPER HOUSE, CAT WALK, MIDDLE PIECES OF DERRICK, KOOMY HOUSE, 2 JUCK TUBS, MISC. PIECES TRUCK, PUMP PARTS HOUSE, BOILER, ANNULAR AND OTHER PIECES. SET MATTING BOARDS, DRILLER SIDE SUB, AND PART OF OFF DRILLER SIDE SUB, SET IN CHOKE HOUSE AND SHAKER PIT (ONLY HAVE 6 HANDS PUTTING RIG TOGETHER) |
| | 19:00 - 06:00 | 11.00 | | | WAIT ON DAY LIGHT TO START TO RIG UP |
| 11/3/2007 | 07:00 - 19:00 | 12.00 | | | RECEIVED 13 LOADS TODAYTOP SUB, 3 LOADS OF DERRICK, DRILLING LINE, WIND WALLS, FLOOR PLATES, BLOCKS, DERRICK STAND, SCR HOUSE, TOP DRIVE SCR, BOPE (SINGLE, DOUBLE GATE, MUD CROSS), PIPE RACKS, SUCTION TANK (BAR LINE INSNT GOING TO WORK TO MUCH RESRICTION), ALSO GOING TO RE DO FLOW LINE TO DRILL WITH AIR, SO IT WON'T WASH OUT 90'S), —SET TOP SUB AND SPREADERS SET IN, SET IN SHKERS, SUCTION TANK(PUT UP ALL HAND RAILS UP), HAVE PUSHER, 2 DRILLERS, 4 HANDS) |
| | 19:00 - 06:00 | 11.00 | | | WAIT ON DAT LIGHT TO SET IN RIG |
| 11/4/2007 | 07:00 - 19:00 | 12.00 | 01 | | RECEIVED TOP DRIVE AND PIECES, MOTOR, —SET IN LOW PRESSURE HOUSE, PARTS HOUSE, MUD PUMPS, WINTERIZATION HOUSES, SCR HOUSE, WATER TANKS, (CAN'T SENT ANY MORE OF PACKAGE #1 MOTOR HASN'T SHOWED UP YET TOTAL OF MISSING LOADS 4- DRAW TOOL,#1 MOTOR, WIRE TRAY AND SOME MISC. LOAD. WORKING ON FLOW LINE TO DRILL WITH AIR |
| | 19:00 - 06:00 | 11.00 | 14 | E | WAIT ON DAY LIGHT |
| 11/5/2007 | 06:00 - 18:00 | 12.00 | 01 | A | SET IN FLOW LINE, GRASS HOPPER, MOTOR SHEDS, ASSEMBLE DERRICK (HAVN'T PUT A-LEGS ON YET), SET IN OFF DRILLER DOG HOUSE, LIGHT POLES AND SHAKE SLIDES ON MUD TANKS, PULL CORDS TO GRASS HOPPER, HAVE TWO FULL CREWS TODAY |
| | 18:00 - 06:00 | 12.00 | 11 | F | WAIT ON DAY LIGHTS TO START PUTTING EQUIPMENT TOGETHER |
| 11/6/2007 | 06:00 - 18:00 | 12.00 | 01 | A | SET IN FUEL TANK, BOILER, GAS BUSTER, DRAWWORKS, PUT A-LEGS ON DERRICK, ISTALL BRIDEL LINE, KELLY HOSE, FABING ON HOPPER LINES, TOP DRIVE SADDLE, GAS BUSTER RETURN, STAND FOR FLOW LINE, |
| | 18:00 - 06:00 | 12.00 | 11 | F | WAIT ON DAY LIGHT TO RIG UP |
| 11/7/2007 | 06:00 - 15:00 | 9.00 | 01 | | TIE ON TO DERRICK WITH CRANES AND RAISE DERRICK TO FLOOR, FIRST 2 PINS TOOK 3 HOURS TO PIN (TIGHT HOLE FOR PIN), TRIED TO UN PIN A-LEGS HAD TO LAY DOWN A LEGS TO GET PINS OUT OF DERRICK, TOOK 1 1/2 HR.S TO PIN 4 PINS ON A- LEGS, 1 HR RAISE DERRICK BOARD AND PIN SET IN SUIT CASE FOR KOOMY HOUSE, STAIRS AND LANDINGS, SET IN SOLIDS CONTROL EQUIPMENT AND BAR HOPPERS, FABING LINES FROM FLOW LINE TO BUSTER AND MUD CLEANER |
| | 15:00 - 18:00 | 3.00 | 01 | | |
| 11/8/2007 | 06:00 - 18:00 | 12.00 | 01 | A | SET IN FLOW EXTENTION, KOOMY HOUSE, HAVING PROBLEMS WITH COMMUNICATION WITH SCR HOUSE TO CONTROL PANEL ON FLOOR,(THEY TOOK THE PANEL THAT WAS ON THIS RIG DOWN IN OKC AND PUT IT ON A RIG SOME WHERE ELSE, THIS CONTROL PANEL WAS IN THE CASPER YARD) FABING GAS BUSTER LINES, FINISH RIGGING UP SOLIDS CONTROL, SET IN REST OF STAIRS, RECEIVED TWO LOADS OF COLLARS, AND PIPE TUB OF DRILL PIPE,SET REST OF FLOOR PLATES IN, STRUNG UP DERRICK WITH STRING UP CREW |
| | 18:00 - 06:00 | 12.00 | | | WAIT ON DAY LIGHT TO RIG UP NEW RIG |
| 11/9/2007 | 06:00 - 18:00 | 12.00 | 01 | A | FOUND PROBLEM IN SCR CONTROL PANEL, SPOOL DRILLING LINE ONTO |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release: 2/19/2008
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|-------|------|----------|---|
| 11/9/2007 | 06:00 - 18:00 | 12.00 | 01 | A | DRUM AND CINCHED DOWN ON DEAD MAN, DO DERRICK INSPECTION, HELD DERRICK OFF STAND, RAISED DERRICK (COULD ONLY PIN 1 PIN ON EACH SIDE- THEY HAD THE SAME PROBLEM ON 327-THE RIG THAT CAME OUT OF THE YARD BEFORE THIS ONE, ALSO THEY ONLY PINNED TWO PINS IN OKC YARD) HOOK UP MUD LINE HOSE FROM SHED TO SUB, RAISE CHOKE MANIFOLD UP ONE HOLE, SET IN FLARE BOX AND PUT HAND RAILS UP AROUND RIG, FILL WATER TANK WITH WATER(REPAIR WATER LEAKS (ALOT OF LEAKS), RECEIVED 3 LOADS OF PIPE (DON'T HAVE HARD BANDING ON JT'S OF PIPE)—UNITS HEAD WELDER SHOULD BE HERE TODAY TO FIX DERRICK PIN HOLES |
| 11/10/2007 | 18:00 - 06:00 | 12.00 | 08 | E | WAIT ON DAY LIGHT TO CONTNUE RIGGING UP |
| | 06:00 - 11:30 | 5.50 | 08 | | COULDN'T GET DERRICK PINNED (HAD TO GET HYDRILIC JACKS AND PUSH DERRICK OUT TO GET TO PIN). COULDN'T CUT OUT AND WELD DERRICK EARS WHILE STANDING(UNIT WELDER), GOING TO CUT OUT EARS ON NEXT MOVE AND WELD WHEN DERRICK IS ON GROUND, |
| | 11:30 - 15:30 | 4.00 | 01 | A | RUN MUD PUMPS WITH OMRON REP. ON LOCATION, WORK ON STEAM SYSTEM, RIG UP AIR TUGGERS, UNBRIDLED DERRICK RECEIVED 2 LOADS OF DRILL PIPE, FINISHED WITH FLOW LINE TO GAS BUSTER LINE, BUILDING RETURN LINE FROM BUSTER AND TARGET T'S FOR CHOKE LINES, |
| | 15:30 - 18:00 | 2.50 | 08 | | LEVEL DERRICK HAD TO TAKE 1/2" SHIMS OUT OF OFF DRILLER SIDE AND PUT IN 2 1/4" OF SHIMS ON DRILLER SIDE (DERRICK WAS 7" TO DRILLER SIDE AND 4" TOWARD DRAWWORKS) |
| 11/11/2007 | 18:00 - 06:00 | 12.00 | 11 | F | WAIT ON DAYLIGHTS |
| | 06:00 - 13:00 | 7.00 | 01 | A | INSTALL RAILING FOR BOPE HANDLING SYSTEM AND CRAWLERS, RIG UP TONGS, PLACE WIRE LINE MACHINE ON FLOOR, CUT BOARDS FOR RACKING AREA, RAISE CHOKE MANIFOLD, FABING FLARE LINES, GAS BUSTER VENT LINE, WORK ON STEAM SYSTEM AROUND RIG |
| | 13:00 - 20:00 | 7.00 | 08 | | TRY TO CENTER DERRICK OVER WELL, FROM MAIN SUPPORT BRACE TO TOP OF CRAZY WHEEL BRACE IS 2 1/2 INCHES DIFFERNCE—ODS 53 3/4" DS 51 1/4", HAVE 2 1/4" SHIMS ON MAIN SUPPORTS DRILLER SIDE |
| | 20:00 - 06:00 | 10.00 | 08 | | WAIT ON DAY LIGHTS (UNIT SHUT DOWN FOR THE NIGHT, NEEDS WELDER TO WELD PLATE FOR PORTA POWER TO PICK ADJUSTER LEVEL) |
| 11/12/2007 | 06:00 - 09:30 | 3.50 | 08 | | CENTER BLOCKS OVER WELL, WAS GETTING CLOSE, WIND BREEZE CAME UP PUSHING BLOCKS, SO STARTED PICKING UP TOP DRIVE |
| | 09:30 - 18:00 | 8.50 | 01 | A | WELD COMPENSATER PLATES TO BLOCKS, PICK UP SWIVEL, TOP DRIVE RAIL, |
| 11/13/2007 | 18:00 - 06:00 | 12.00 | 12 | D | WAIT ON DAY LIGHTS |
| | 06:00 - 18:00 | 12.00 | 01 | A | FINISH RIG UP TOP DRIVE RAIL, STRING OUT CORDS AND PUT IN SADDLE, HANG SADDLE, PICK TOP DRIVE TO FLOOR, INSTALL COMPENSATOR RAMS, AND HOOK UP CONTROLL PANEL, SET IN STEAM HEATERS, SET IN AIR PACKAGE (BASIC), CONTINUE FABING CHOKE MANIFOLD LINES |
| 11/14/2007 | 18:00 - 06:00 | 12.00 | 08 | E | WAIT ON DAY LIGHTS |
| | 06:00 - 09:30 | 3.50 | 01 | A | SCREW SWIVEL TO TOP DRIVE, (CHILLER OUT IN TOP DRIVE SCR HOUSE), INSTALL TORQUE BUSHING, STRING CORDS TO TOP DRIVE HOUSE, |
| | 09:30 - 14:30 | 5.00 | 01 | A | RIG TOP DRIVE DRILLER CONTROLL PANEL, ASSEMBLE TOP DRIVE HYDRILIC LINES, PUT 10" FLARE LINES TOGETHER, PLUMB DIESEL TO BOILER, FIRE BOILER |
| | 14:30 - 18:00 | 3.50 | 01 | A | RIG UP TOP DRIVE ELECTRIC LINES, INSTAL TURN BUCKLES, CENTER RAIL, INSTALL FORCED AIR HEATER TUBES, CUT BOARDS FOR RACKING BOARD |
| | 18:00 - 06:00 | 12.00 | 01 | A | INSTALL STAND PIPE MANIFOLD, PUT TARP ON TOP DRIVE WIRES, PRESSURE TEST STEM LINES (FIX LEAKS) TIGHTEN BOLTS ON STAND PIPE, |
| 11/15/2007 | 06:00 - 11:00 | 5.00 | 01 | A | PUT UNION ON SWIVEL (NEED TO BUILD GOOSE NECK TO HOLD HOSE AWAY FROM UNIT), LAY OUT 4" FLARE LINES, SWITCH AROUND HYDRILIC |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34-7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release: 2/19/2008
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|---------------|---------------|---------------|------|----------|--|
| 11/15/2007 | 06:00 - 11:00 | 5.00 | 01 | A | LINE AND ANTI FREEZE (BOTH ARE CONTAMINATED),TOP DRIVE BLEW A SEAL IN INTENSIFIER |
| | 11:00 - 15:00 | 4.00 | 01 | A | SET IN 400 BBL TANK FOR NAEL WATER AND UNLOAD 500 BBL ROLL TANKS FOR INVERT, CUT CONDUCTOR AND HAMMER OFF CEMENT, RIG UP HYDRALIC LINES TO BOPE LIFT |
| | 15:00 - 16:30 | 1.50 | 08 | | RE-TEST INTENSIFIER (REBUILT SEALS LEAKED STILL) |
| | 16:30 - 18:00 | 1.50 | 14 | | MAKE FINAL CUT AND TWO HOLE WELL HEAD WITH CAMERON, LEVEL HEAD AND WELD HEAD,FABING FINISHED GAS BUSTER RETURN, ALMOST DONE WITH 4" LINES, |
| | 18:00 - 20:00 | 2.00 | 08 | E | STRETCH PIT LINER OUT FOR INVERT TANKS |
| | 20:00 - 22:30 | 2.50 | 14 | | STACK SINGLE GATE AND MUD CROSS AND DOUBLE GATE |
| | 22:30 - 06:00 | 7.50 | 08 | | WAIT ON TOP DRIVE UNIT-INSTALL FLOOR MATS AND FRONT WIND WALLS, HOOK UP STEAM HEATER ON RIG FLOOR, CLEAN OUT TRASH OUT OF MUD TANKS, |
| | 11/16/2007 | 06:00 - 07:30 | 1.50 | 08 | |
| 07:30 - 10:30 | | 3.00 | 08 | | RIG UP AND TORQUE SWIVEL AND TOP DRIVE |
| 10:30 - 12:00 | | 1.50 | 08 | | SET 500 BBL INVERT MUD TANKS |
| 12:00 - 13:30 | | 1.50 | 08 | | REPAIR EATON WATER COOLING SYSTEM |
| 13:30 - 15:00 | | 1.50 | 08 | | DISASSMBLE PUMP SKID OFF OF TOP DRIVE UNIT |
| 15:00 - 18:00 | | 3.00 | 08 | | HOOK UP FLARE LINES, MAKE UP HYDRILIC LINES FOR BOPE, START TIGOA FORCED AIR HEATER, AND GEL MUD TANK GATES |
| 18:00 - 20:00 | | 2.00 | 08 | | RIG UP STEAM LINES IN PUMP SHED ,INSTALL HYDRAULIC FITTINGS ON BOPE FOR KOOMY |
| 20:00 - 23:00 | | 3.00 | 08 | | CHANGE OUT TOP DRIVE CHILLER UNIT WITH BOOM TRUCK |
| 23:00 - 00:00 | | 1.00 | 08 | | FINISH HOOKING UP STEAM LINES IN PUMP SHED, BUILD BURM AROUND INVERT STORAGE TANKS |
| 00:00 - 03:00 | | 3.00 | 08 | | CHANGE HOOKS ON TONG HANGING LINES, AND ADD WEIGHT TO COUNTER WEIGHTS |
| 11/17/2007 | 06:00 - 06:00 | | | | |
| | 06:00 - 08:00 | 2.00 | 08 | | BREAK OUT UNION OUT OF SWIVEL/WORK ON COOLANT LINES ON DRAW-WORKS |
| | 08:00 - 14:00 | 6.00 | 08 | | HELP WELDERS ON FLARE LINES AND BUILD BLOW DOWN LINE ON BOILER |
| | 14:00 - 18:00 | 4.00 | 14 | | PICK UP ANNULAR, BLEW HOSE ON SNUBBING IN TRUCK (BOP LIFT SYSTEM WON'T PICK UP ANN.), SNUBBING TRUCK BLEW HYDRILIC LINE |
| 11/18/2007 | 18:00 - 03:00 | 9.00 | 14 | | INSTALL SPACER SPOOL AND ROT.HEAD, HAD B.C QUICK TEST TORQUE ALL CONECTIONS, PUT OIL IN KOOMY, AND CONNECT KOOMY LINES, FILL MUD TANKS HALF FULL AND INSTALL WALK WAYS IN SUB (SCAFOLDING) |
| | 03:00 - 06:00 | 3.00 | 01 | A | PUT BRACE IN FOR TOP DRIVE RAIL AND PICK UP TOOLS AROUND RIG |
| | 06:00 - 07:00 | 1.00 | 01 | A | PUT ELECTIRIC MOTOR ON AGITATOR, TEST ALL MUD LINES (FIX LEAKS), AND CHECKED ALL AGITATORS |
| | 07:00 - 15:00 | 8.00 | 14 | | PUT CHOKE LINE IN (NOT TIGHT), CHANGE AROUND BLIND AND PIPE RAMS, FUNCTION TEST RAMS |
| | 15:00 - 18:00 | 3.00 | 01 | A | HOOK UP KELLY HOSE ADJUST TRACK, PUT VALVE IN FLOW LINE FOR TRIP TANK RETURN, UNLOAD MUD PRODUCTS, |
| | 18:00 - 21:00 | 3.00 | 01 | A | STRAIGHTEN UPTOPTRACK IN DERRICK, |
| | 21:00 - 03:00 | 6.00 | 01 | A | HOOK UP FILLUP IN LINE, STAND PIPE, GAUGE ELEVATORS, GROUND BUILDINGS, BRING SUBS TO RIG FLOOR, BUILD LINE AND HANGNG CABLES FOR MUD BOX, BUILD LINE AND HANG PIPE SPINNERS, |
| 11/19/2007 | 03:00 - 06:00 | 3.00 | 01 | A | BUILD BLEED OFF LINE ON #2 MUD PUMP, —WELD FABBED 1 EXTENTION-SLIDE FOR SHAKERS, FINISHED CELLER GRATTING, |
| | 06:00 - 07:00 | 1.00 | 01 | A | PUT SAFETY LINE ON TOP DRIVE SERVICE LOOP IN DERRICK |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34-7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release: 2/19/2008
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations | |
|---------------|---------------|---------------|-------|----------|--|---|
| 11/19/2007 | 07:00 - 09:00 | 2.00 | 01 | A | MOVE SCAFFOLDING FOR WELDER, PULL FLOOR PLATE AND PREPARE TO LOWER BOP HANDLING RAIL | |
| | 09:00 - 12:30 | 3.50 | 08 | | FIX COOLANT LINE ON TOP DRIVE | |
| | 12:30 - 13:30 | 1.00 | 01 | A | ADJUST COUNTER BALANCE ON TOP DRIVE | |
| | 13:30 - 15:30 | 2.00 | 01 | A | LOWER BOP HANDLING RAIL AND LOAD OUT KELLY PIECES | |
| | 15:30 - 18:00 | 2.50 | 01 | A | RE SET ROTATING HEAD AND SPACER SPOOL (TURN WHERE IT WOULD FACE STRAIGHT | |
| | 18:00 - 21:00 | 3.00 | 01 | A | FINISH TIGHENING ROTATING HEAD AND ADJUST TOP DRIVE TRACK | |
| | 21:00 - 21:30 | 0.50 | 01 | A | GET MEASURE MENT OF BOPE EQUIPMENT, AND RIG UP GERONIMO LINE | |
| | 21:30 - 00:00 | 2.50 | 01 | A | MAKE CABLES TO CENTER BOPE, RIG UP CABLES IN SUB, PULL BOPE TO CENTER | |
| | 00:00 - 02:30 | 2.50 | 01 | A | RIG UP PULLEY IN DERRICK FOR WIRE LINE MACHINE, AND PULL CORD | |
| | 02:30 - 04:30 | 2.00 | 01 | A | SET IN YELLOW DOGS AND RUN POWER CORDS | |
| | 04:30 - 05:30 | 1.00 | 01 | A | ADJUST COUNTRER WEIGHT ON DERRICK CLIMBER | |
| | 05:30 - 06:00 | 0.50 | 01 | A | CHECK ALL SAFETY EQUIPMENT, AND FILL, UNLOAD WESTERN CHEMICAL BARRELS | |
| | 11/20/2007 | 06:00 - 18:00 | 12.00 | 01 | A | HOOK UP GERONIMO LINE, HELP WELDERS INSTALL ORBIT VALVE, TAKE OUT SCM BOARD IN TOP DRIVE HOUSE AND TROUBLE SHOOT COM BOARDS IN TOP DRIVE HOUSE, HOOK UP PASON AND INTER COM TO DERRICK, RIG UP YELLOW DOG, AND ROLL #2 MUD PUMP CHECK OILING IN PUMP CHECKED O.K. |
| | | 18:00 - 21:00 | 3.00 | 01 | A | PRESSURE TEST MUD LINES TO 1000 PSI FIX LEAKS, TIGHTEN CAPS ON PUNPS, UNIONS, ECT. |
| 21:00 - 23:00 | | 2.00 | 01 | A | BUILD ROTATING MANIFOLD, HOOK UP OILER BOX AND HOOK UP FILL UP LINES | |
| 23:00 - 00:00 | | 1.00 | 01 | A | REPLACE SHEIVE ON BOPE SNUB, AND RIG UP AND BLOW DOWN KELLY HOSE | |
| 00:00 - 02:30 | | 2.50 | 01 | A | PUT 6" DRAIN IN BOTTOM OF GAS BUSTER, TURN FLAPPER IN VENT LINE, AND INSTALL BOLTS IN FLANGES IN BUSTER | |
| 02:30 - 04:00 | | 1.50 | 01 | A | ADD GROUND RODS AND CABLES WHERE NEEDED AROUND RIG, BUILD HOESE FOR TRIP TANK | |
| 04:00 - 06:00 | | 2.00 | 01 | A | RE ADJUST GERONIMO LINE, REBUILD AIR MANIFOLD, BLOW DOWN MUD LINES THRU PUMPS, REPLACE LAYDOWN LINE, CLEAN AND PUT AWAY TOOLS, WELD- FLOW LINE FINISHED, HAVE BAR LINE ON TANKS, AND TROUGHS TO BUILD TO PIT, SAFETY ITEMS AROUND RIG | |
| 11/21/2007 | 06:00 - 18:00 | 12.00 | 01 | A | HOOK UP LINE FOR TRIP TANK, AND INSTALL COM, CHECK OIL LEVELS IN PUMPS, AND DRAW-WORKS, INSTALL RETURN LINES IN FLARE BOX, MAKE UP BAR MANIFOLD, RIG UP AIR FOR AIR JAMMERS, REPLACED ECM BOARD IN TOP DRIVE HOUSE, WORK ON TOP DRIVE COUNTER BALANCE, INSTALL FOOTING ON WELL HEAD (READY TO CEMENT CELLER) | |
| | 18:00 - 21:30 | 3.50 | 01 | A | PUT DIFFERNT SIZE CABLE ON BOPE CENTERING, AND SNUB CENTER AND PUT UP SUB TARP AND INSTALL PASON EQUIPMENT ON THE END OF DRUM SHAFT | |
| | 21:30 - 23:00 | 1.50 | 01 | A | BUILD DIRT BURM OVER GAS BUSTER LINES AND INSTALL TARGET T ON THE END OF FLOW LINE AND INSTALL DIFFERNT TROUGHS FOR CENTER FUGES AND PUT DRAIN ON GAS BUSTER | |
| | 23:00 - 01:30 | 2.50 | 01 | A | INSTALL MOUSE HOLE AND FIND BHA X-OVERS AND PICK TO RIG FLOOR AND RE PLUMB T-BLOCK ON CHOKE MANIFOLD TO | |
| | 01:30 - 03:00 | 1.50 | 01 | A | REPAIR STEM LEAKS AROUND RIG AND PICK UP TRASH AND TOOLS AROUND RIG, | |
| | 03:00 - 06:00 | 3.00 | 01 | A | RACK BHA AND STRAP AND HOUSE KEEPING AROUND RIG | |
| 11/22/2007 | 06:00 - 14:00 | 8.00 | 01 | A | (CALLED AND NOTIFIED BLM OF BOP TEST- RAY ARNOLD) FUNCTION TEST BOPS REPAIR HYD. LEAKS FILL BOTTOM OF CELLAR W/ CMT TO BASE RING, | |

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Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release: 2/19/2008
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|-------|------|----------|---|
| 11/22/2007 | 06:00 - 14:00 | 8.00 | 01 | A | CALB. PASON MUD VOLUME SYSTEM WITH MUD TANKS, ADJUST LINK TILT ON TOP DRIVE, START RIGGING UP YELLOW DOGS TO PUMP WATER FROM UP RIGHT TANKS OR WAIST PIT & FAB. & INSTALL SHAKER CUTTING SLIDES CONT. TO FRAB. & INSTALL BARITE LINES ON SUCTION TANKS INSTALL ROT. MOUSE HOLE |
| | 14:00 - 18:00 | 4.00 | 01 | A | RIG UP & P/UP TESTING EQUIPMENT |
| | 18:00 - 06:00 | 12.00 | 08 | D | P/T BOPS ATT. TO TEST UPPER RAMS OBSERVE LOWER RAMS LEAKING @ DOOR REPLACE DAMAGED BONNET RUBBERS ATT. TO TEST U.RAMS BLIND RAMS LEAKING @ DOORS RE-TIGHTEN BONNET BOLTS & RETEST SAME LEAK ATT. PULL OUT TEST JOINT DRAWWORKS WOULD NOT WORK SHUT OFF POWER & RE-BOOT SYSTEM STILL NOT OPERATING CALLED UNIT TECHNICIAN & ELE. DISCUSS OVER PHONE THE PROBLEM THEY WAS UNABLE TO FIX PROBLEM OVER THE PHONE AT THE MOMENT THE TECHICAN AND ELE. IS IN ROUTE TO THE RIG SITE. |
| 11/23/2007 | 06:00 - 18:30 | 12.50 | 08 | | WAIT ON UNITS ELECTRICAN ARRIVED @ 1330 HRS TROUBLE SHOOT FOUND LOOSE CONNECTION TO POWER SUPPLY GOING TO DRILLER CONSOLE SWITCH PANEL (DC MODULE WAS NOT GETTING POWER) |
| | 18:30 - 22:30 | 4.00 | 08 | D | PULL OUT TEST JOINT & CHANGE OUT BONNET SEAL RUBBERS ON BLIND RAMS DOORS. |
| | 22:30 - 03:00 | 4.50 | 15 | | TEST BOPS ANN. LOW 250 PSI HIGH TEST 3500 PSI, ALL RELATED BOPS & EQUIPMENT TESTED W/ LOW 250 PSI & HIGH 5000 PSI (SHELL TESTED BOPS & CHOKE MANIFOLD TO 10000 PSI) P/TEST SUFACE CASING 1500 PSI |
| 11/24/2007 | 03:00 - 06:00 | 3.00 | 19 | C | PICK UP BHA & NEW DRILL PIPE |
| | 06:00 - 11:00 | 5.00 | 08 | | ATTEMPT TO TORQUE UP BHA CONNECTIONS M/UP TONG LINE ON CAT HEAD WAS TO LONG RECUT & ATT. TO TORQUE UP FIRST CONNECTION BLOW HYDRAULIC HOSE ON M/UP CAT HEAD CYLINDER REPLACE HYD. HOSE |
| | 11:00 - 15:00 | 4.00 | 06 | J | M/UP BIT ON NEW SUBS & COLLARS (M/UP & BREAK OUT NEW CONNECTION TWICE DUE TO NEW BHA) |
| 11/25/2007 | 15:00 - 03:00 | 12.00 | 06 | | P/UP NEW DRILL PIPE TORQUE UP BREAK LOOSE & RE-TORQUE ALL CONNECTION (TOTAL DRILL PIPE P/UP & IN DERRICK 2104') |
| | 03:00 - 06:00 | 3.00 | 08 | | DRAWWORKS STOP WORKING (LOST POWER SUPPLY TO DC MODULE) |
| | 06:00 - 14:00 | 8.00 | 08 | | REPAIR DRAWWORKS LOST POWER TO DC MODULE |
| 11/26/2007 | 14:00 - 06:00 | 16.00 | 06 | | P/UP NEW 5' DRILL PIPE TORQUE UP & BREAK OUT & RE-TORGUE ALL CONNECT. |
| | 06:00 - 20:00 | 14.00 | 06 | | AND RACK BACK IN DERRICK (TOTAL 53 STDS IN DERRICK) |
| | 20:00 - 21:00 | 1.00 | 25 | | PICK UP NEW HWDP & TORQUE UP & BREAK OUT & M/UP RIH W/ 12 1/4 BHA TAG TOP OF CMT. 469' |
| 11/27/2007 | 21:00 - 06:00 | 9.00 | 08 | | DRILL OUT CMT. F/ 469' TO TOP OF L/C @ 476' BRAKES SYSTEM NOT WORKING UNABLE TO MAINTAIN CORRECT BIT WT |
| | 06:00 - 06:00 | 24.00 | 08 | | ATT. TO WORK STRING AND ADJUST AIR RELAY VALVE TO CONTROL DRILL STRING SPEED (CALL UNITS SUP. & MECH.) WAIT ON MECH. |
| | | | | | ON UNITS TIME (DRAWWORKS NOT WORKING PROPERLY BRAKES NOT HOLDING TROUBLE SHOOT FOR THE PAST 24 HOURS WITH RIG SUP. & TOOLPUSHER REPLACE HYD HOSES THAT WAS LEAKING GOING TO HYD. BRAKE CONTROL & BOTH AIR RELAY VALVE & CONTROL VALVE ON DRILLER CONSOLE ATT. TO WORK STRING STILL BRAKE NOT HOLDING STRING WT PROPERLY (WAIT ON UNITS HEAD MECHANIC) |
| 11/28/2007 | 06:00 - 13:00 | 7.00 | 08 | | REPAIR DRAWWORKS - REMOVE QUICK RELEASE @ EATON BRAKE TO STOP AIR FROM DUMPING QUICKLY PER EATONS RECOMONDATION WHICH WAS CAUSING THE BRAKE TO OPERATE ERRATICLY REPLACED H-4 VALVE REPLACED RELAY VALVE , EXTENDED BRAKE HANDLE 6" |
| | 13:00 - 15:30 | 2.50 | 02 | D | DRILL OUT SHOE TRACK & 15' 12 1/4 HOLE |

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Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release: 2/19/2008
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|-------|------|----------|--|
| 11/28/2007 | 15:30 - 16:00 | 0.50 | 08 | E | FIT EQUIVALENT TEST TO 10.5 PPG |
| | 16:00 - 16:30 | 0.50 | 25 | | HOLD SAFETY MEETING W/ BASIC AIR CREW & RIG CREWS |
| | 16:30 - 18:00 | 1.50 | 05 | A | DRILL OUT RAT HOLE F/ SHOE TO 540' |
| | 18:00 - 18:30 | 0.50 | 25 | | HOLD SAFETY MEETING W/ BASIC AIR CREW & RIG CREWS |
| | 18:30 - 22:30 | 4.00 | 03 | A | DRILL F/ 540' TO 676' (136' @ 34' FPH) 2000 +/- CFM. ATT. TO MAINTAIN 20 WOB |
| | 22:30 - 23:00 | 0.50 | 25 | | STOP DRILLING PICK UP & WORK ON BASIC (AIR) PUMP |
| | 23:00 - 02:30 | 3.50 | 03 | A | DRILL F/ 676' TO 817' (141' @ 41' FPH) 2000 +/- CFM WOB 20 |
| 11/29/2007 | 02:30 - 03:00 | 0.50 | 25 | | PICK UP & WORK ON BASIC (AIR) PUMP |
| | 03:00 - 06:00 | 3.00 | 03 | A | DRILL F/ 817' TO 940' (123' @ 41' FPH) 2000 +/- CFM WOB 20 |
| | 06:00 - 13:30 | 7.50 | 03 | A | DRILL F/ 940' TO 1284' (344' @ 45.8' FPH) WOB 15-20 CFM 1950 +/- CIR. HOLE CLEAN FLOW LINE & FLARE BOX FULL OF CUTTING REMOVE CUTTING |
| 11/30/2007 | 13:30 - 16:00 | 2.50 | 05 | | |
| | 16:00 - 06:00 | 14.00 | 03 | A | DRILL F/ 1284' TO 1820' (536' @ 38.2' FPH) WOB 10 CFM 2000 +/- |
| | 06:00 - 07:30 | 1.50 | 02 | | DRILL F/ 1815' TO 1861' (46' @ 30.6 FPH) WOB 15 2000 +/- CFM |
| | 07:30 - 10:00 | 2.50 | 06 | | TRIP TO 1420' |
| | 10:00 - 12:00 | 2.00 | 06 | | TRIP IN HOLE REAMED LAST TWO STDS |
| | 12:00 - 18:00 | 6.00 | 02 | | AIR DRILL 12 1/4" HOLE F/ 1861' TO 2085' (224' @ 37.3) WOB 15 2000 +/- CFM |
| | 18:00 - 19:00 | 1.00 | 02 | | AIR DRILL 12 1/4" HOLE F/ 2085' TO 2149' (64' @ 64') WOB 25-34 2000 +/- CFM |
| | 19:00 - 20:00 | 1.00 | 02 | | RIG SERVICE |
| | 20:00 - 00:00 | 4.00 | 02 | | AIR DRILL 12 1/4" HOLE F/ 2149' TO 2384' (235' @ 59') WOB 22-32 2000 +/- CFM |
| | 00:00 - 01:00 | 1.00 | 08 | E | STOP DRILLING BOLT FELL OUT OF DERRICK (INSPECTED DERRICK FOUND BOLT WORK LOOSE ON TOP DRIVE RAIL) TOP CLAMP INSTALL BOLT TORQUE SAME AND FOUND TO MORE LOOSE ON CLAMP |
| 12/1/2007 | 01:00 - 04:30 | 3.50 | 03 | A | AIR DRILL 2384' TO 2527' (143' @ 41') WOB 20- 32 2000 +/- CFM |
| | 04:30 - 05:30 | 1.00 | 02 | | MAKE CONNECTION ATT. TO CIR. HOLE PACKED OFF, BLEED PRESSURE OFF ATT. TO ROTATE STRING TOP DRIVE STOP WORKING, SET DRILL PIPE SLIPS TURN STRING FREED & CIR. FOR 15-MIN. (FOUND TOP DRIVE BREAKER OFF IN SCR HOUSE) |
| | 05:30 - 06:00 | 0.50 | 05 | | CIR. HOLE CLEAN @ 2527' |
| | 06:00 - 07:00 | 1.00 | 02 | | AIR DRILLED F/ 2527' TO 2622' (95' @ 95' FPH) WOB 20 TO 35 2100 +/- CFM |
| | 07:00 - 16:00 | 9.00 | 06 | | MAKED A CONNECTION ATT. TO CIR HOLE PACKED OFF BACK REAM (SLOWLY TO 2574' UNTIL ESTABLISH CIR. (TIGHT HOLE @ 2598' & 2586') WORK STRING & CIR. HOLE CLEAN @ 2574' |
| | 16:00 - 19:00 | 3.00 | 05 | | REAM BACK TO BOTTOM F/ 2574' TO 2622' (OBSERVED TRONA WATER FLOW) |
| | 19:00 - 20:00 | 1.00 | 03 | | |
| | 20:00 - 20:30 | 0.50 | 02 | | ATT. TO DRILL TAG BOTTOM STRING STALLED OUT PICK UP OFF BOTTOM OBSERVED FOR RETURNS ONLY (WATER NO FOAM RETURNS) |
| | 20:30 - 00:00 | 3.50 | 25 | | SAFETY MEETING WITH CREW & LINE UP STAND PIPE MANIFOLD ON AIR & MUD PUMPS ATT. TO PUMP WITH MUD PUMPS (BLOW POP OFF VALVE) ATT. TO RUN # 2 MUD PUMP W/ 80 SPM (PUMP AIR LOCK) WORK ON BOTH PUMPS REPAIR # 1 MUD PUMP & CIR. W/ #2 PUMP THROUGH BLEED OFF LINE TO TANKS TO GET AIR OUT OF SYSTEM (NOTE: MUD PROBLEM WAS DUE TO TRYING TO PUMP WATER FROM THE WATER PIT WHICH WAS CON. W/ FOAM (DISCUSS W/ MUD E. TO TRANSFER PIT WATER TO TANK # 4 AND TREAT FIRST AND AFTER TRANSFER TO SUCTION TANK |
| | 00:00 - 06:00 | 6.00 | 02 | | DRILL F/ 2670' TO 2830' (160' @ 27' FPH) NOTE: TOP DRIVE GETTING HOT CAUSING TO P/U OFF BOTTOM & RE-SET BREAKER) TOP DRIVE ENG. IS ON SITE TROUBLE SHOOTING THE PROBLEM |
| 12/2/2007 | 06:00 - 10:30 | 4.50 | 05 | | MAKE MOUSEHOLE CONNECTION & ATT. TO CIR HOLE PACKED OFF WORK STRING ATT. TO ESTABLISH CIR. W. NO SUCCESS |
| | 10:30 - 17:30 | 7.00 | 03 | | BACK REAM F/ 2814' TO 2754' DUMPED 5 GAL POLYMER, 3 GAL. SOAP PRESSURED UP TO 1250 PSI W/ AIR |

CONFIDENTIAL

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34-7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release: 2/19/2008
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|-----------|---------------|-------|------|----------|---|
| 12/2/2007 | 17:30 - 18:00 | 0.50 | 05 | | PIPE CAME FREE & GOT RETURNS CIR HOLE CLEAN W/ 194 GPM RESERVE |
| | 18:00 - 20:00 | 2.00 | 05 | | PIT WATER & 1600 CFM OF AIR @ 400 PSI WHILE MUDDING UP |
| | 20:00 - 20:30 | 0.50 | 05 | | CIR. W/ # 2 PUMP @ 45 SPM AIR 400 CFM STD PIPE 352 PSI |
| | 20:30 - 22:00 | 1.50 | 05 | | SHUT AIR OFF BROUGHT # 1 & # 2 PUMPS ON LINE @ 40 SPM 8.4 PPG @ 352 GPM |
| | 22:00 - 03:00 | 5.00 | 05 | | GOT RETURNS FLUSHING AIR OUT OF HOLE @ PUMPS # 1 & # 2 @ 45 SPM 397 GPM |
| | 03:00 - 06:00 | 3.00 | 08 | | CIR. & RAISE MUD WT |
| 12/3/2007 | 06:00 - 18:00 | 12.00 | 05 | | TOP DRIVE STOP ROTATING LOST POWER TO UNIT STILL CIR. HOLE & RAISE MUD WT. |
| | 18:00 - 00:00 | 6.00 | 05 | | BUILD MUD & CIR. RAISE MUD WT TO 9.2 PPG |
| | 00:00 - 01:30 | 1.50 | 06 | | CONT. TO CIR. & INCREASE MUD WT TO 9.5 PPG |
| 12/4/2007 | 01:30 - 06:00 | 4.50 | 03 | | PUMP PILL TOO H PULLED TIGHT @ 2445' |
| | 06:00 - 07:30 | 1.50 | 03 | | BACK REAMING F/ 2445' TO 2105' |
| | 07:30 - 09:30 | 2.00 | 03 | | BACK REAMING F/ 2121' TO 2048' (PIPE STUCK @ 2048') |
| 12/5/2007 | 09:30 - 18:00 | 8.50 | 03 | | PIPE GOT STUCK WORK STUCK PIPE JAR DOWN ON PIPE FREE PIPE |
| | 18:00 - 21:30 | 3.50 | 03 | | BACK REAMING F/ 2048' TO 1365' (NOTE: USING VERY HIGH HYD. PRESSURE TO BREAK OUT CONNECTIONS) |
| | 21:30 - 23:00 | 1.50 | 06 | | BACK REAMING F/ 1365' TO CASING SHOE FLOW CHECK - OK |
| | 23:00 - 00:00 | 1.00 | 06 | J | TRIP OUT OF HOLE TO SURFACE |
| | 00:00 - 06:00 | 6.00 | 08 | | LAY DOWN IBS & BREAK OUT 12 1/4 BIT |
| | 06:00 - 06:30 | 0.50 | 08 | | REPAIR DRAWWORKS (EATON BRAKE PISTON SYSTEM) |
| | 06:30 - 10:00 | 3.50 | 06 | | WORK ON EATON BRAKE |
| | 10:00 - 00:00 | 14.00 | 03 | | TRIP IN HOLE W/ NEW 12 1/4 BIT TAG RESISTANCE @ 565' |
| | 00:00 - 02:30 | 2.50 | 05 | | WASH & REAM F/ 565' TO 2749' |
| | 02:30 - 03:00 | 0.50 | 10 | | CIR. & CLEAN HOLE PUMPING SWEEPS FOR SURVEY |
| 12/6/2007 | 03:00 - 05:00 | 2.00 | 03 | | SURVEY @ 2648' 1/4* DEG. DIR. 351.3 TVD @ 2648' |
| | 05:00 - 06:00 | 1.00 | 02 | | WASH & REAM F/ 2749' TO BOTTOM @ 2830' |
| | 06:00 - 09:30 | 3.50 | 03 | A | DRILL F/ 2830' TO 2870' (40' @ 40' FPH) WOB 25 RPM 120 |
| | 09:30 - 10:30 | 1.00 | 08 | | DRILL FROM 2862 TO 2902 (ROP 11.4' HR)(LOST POWER TO RIG-COULDN'T CIRCULATE, ROT, PICK UP OFF BOTTOM) |
| | 10:30 - 13:30 | 3.00 | 03 | | REPAIR BLOWN FUSE IN PLC PANEL IN SCR AND BLOWN FUSE IN DRILLER CONSOLE |
| | 13:30 - 14:00 | 0.50 | 25 | | BACK REAM FROM 2902 TO 2850/ PACKED OFF AND COULDN'T CIRCULATE |
| | 14:00 - 15:30 | 1.50 | 05 | | LOST APROX. 300 BBL.S TO TRYING TO CIRCULATE, REGAINED CIRCULATION |
| | 15:30 - 20:00 | 4.50 | 02 | | RE INSTALL ROTATING HEAD, PULLED THRU FLOOR WHEN BACK REAMING |
| 12/7/2007 | 20:00 - 21:00 | 1.00 | 08 | | CIRCULATE WITH #2 PUMP WORK PIPE TO BOTTOM AND REPAIR POP OFF ON #1 PUMP |
| | 21:00 - 06:00 | 9.00 | 02 | | DRILL FROM 2902 TO 2962 (ROP 13.3' HR) WOB 20-30, DIFFERNT ROT. SPEEDS, |
| | 06:00 - 10:30 | 4.50 | 02 | | CIRCULATE AND TIGHTEN TURN BUCKLES IN DERRICK TORQUE TUBE |
| | 10:30 - 11:00 | 0.50 | 07 | | SWAYING ALOT NEED TO PUT MORE TURN BUCKLES, TO STIFFEN THE TORQUE TUBE UP |
| | 11:00 - 13:30 | 2.50 | 02 | | DRILL FROM 2962 TO 3075 (ROP 12' HR) CUT BACK ON PUMP STROKES |
| | | | | | STARTED LOSSING MUD 50 BBL.S HR. BEEN PUMPING 15% LCM SWEEPS |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release: 2/19/2008
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations | |
|---------------|---------------|---------------|------|----------|--|---|
| 12/7/2007 | 11:00 - 13:30 | 2.50 | 02 | C | WOB | |
| | 13:30 - 20:00 | 6.50 | 05 | | LOST CIRCULATION PULLED AND RACKED BACK ONE STAND, WORK PIPE AND BUILD AND PUMP 15% LCM SWEEP (100 BBL), REGAIN PARTAIL RETURNS, PUMPED 35% LCM SWEEP AND REGAINED RETURNS-HOLE TOOK 1500 BBL DRINK. BUILD VOLUME TO TRIP OUT | |
| | 20:00 - 21:30 | 1.50 | 05 | | CIRCULATE WHILE BUILDING PILL FOR TRIP, HAD PROBLEMS WITH VALVES AND WITH PUMPS FOR HOPPERS, BUILD 1# OVER PILL | |
| | 21:30 - 22:00 | 0.50 | 10 | | DROP SURVEY @ 3035 .3 DEG, 306.9 | |
| | 22:00 - 22:30 | 0.50 | 06 | | TRIP OUT OF HOLE 5 STANDS (HOLE CLEAN NO OVER PULL) TO CHANGE BIT TO PICK UP HC- 605 AND MUD MOTOR | |
| | 22:30 - 23:00 | 0.50 | 25 | | PULL ROTATING HEAD, AND BLOW DOWN KELLY HOSE | |
| | 23:00 - 03:00 | 4.00 | 06 | | A | TRIP OUT OF HOLE FOR BIT TIGHT FORM 2403-2219, 1390-1207 AND REST OF THE WAY OUT OF THE HOLE HAD ALOT OF DRAG |
| | 03:00 - 04:30 | 1.50 | 06 | | A | HANDLE BHA LAY DOWN BIT SUB AND BIT, PICK UP MUD MOTOR (HUNTING .24) AND NEW BIT |
| | 04:30 - 06:00 | 1.50 | 06 | | A | TRIP IN HOLE WITH NEW BIT |
| | 12/8/2007 | 06:00 - 10:00 | 4.00 | | 06 | A |
| 10:00 - 10:30 | | 0.50 | 03 | | SAFETY WASH AND REAM FROM 3071 TO 3154 (5' FILL) | |
| 10:30 - 11:30 | | 1.00 | 02 | | DRILL FROM 3154 TO 3166 -TRY TO WORK WITH AUTO DRILLER PERAMETERS SO DRAW WORKS WOULDN'T DUMP WEIGHT ON BIT TRYING TO HOLD 5K ON BIT- GETTING 12-15K BRAKE LETS OUT TO MUCH DRILLING LINE WHEN BRAKE HANDLE JACKS OFF | |
| 11:30 - 12:00 | | 0.50 | 07 | | SERVICE TOP DRIVE AND BLOCKS, CROWN, SWIVEL | |
| 12:00 - 17:00 | | 5.00 | 02 | | DRILL FROM 3166-3219 WORKING DIFFERNT PERAMETERS WITH BRAKE HANDLE, ALSO PUSHER TALKED TO HEAD MECHANIC IN OKC (MIKE ALMOND)-WE CHECKED TO SEE IF HYDRILIC BRAKES WERE BLEEDING OFF(PRESSURES GOOD), TRIED TO LET THE CONTROL HANDLE TAKE MORE OF THE WEIGHT BY AJUSTING H4-VALVE, TRIED PUTTING BRAKE IN 25%(NOT HOLDING ENOUGH WITH H4 VALVE-BRAKE), 75%(WHAT WE HAVE BEEN DRILLING WITH), 100% (WOULDN'T SLACK ANY WEIGHT OFF), HAND DRILLED- WORKED THE BEST KEPT WITH IN 3K OF DESIRED WEIGHT | |
| 17:00 - 19:00 | | 2.00 | 08 | | DRILL BY HAND AND AUTO DRILLER WITH UNIT SUPT. (ED PHELPS) ON FLOOR SO HE COULD OBSERVE WHATS GOING ON WITH THE BRAKE, (WE DISCOVERED THAT THE BRAKE HANDLE HAS TO BE IN A HIGHER POSTION TO LET OFF WEIGHT DRILL STRING THAN 180 DEG. ON DRUM (SEEMS THAT SOMETHING MIGHT BE DRAGGING OR OUT OF BALANCE-BUT THERE ISN'T ALOT OF VIBRATION WHEN TRIPPING) | |
| 19:00 - 23:00 | | 4.00 | 06 | | TRIPPING TO SHOE TO WORK ON BRAKES SO THAT WE CAN HOLD A CONSTANT W.O.B. (MECHANICS ON THERE WAY FROM PINEDALE AREA-SHOULD BE HERE THIS A.M. | |
| 23:00 - 06:00 | | 7.00 | 08 | | WAIT ON MECHANIC TO LOOK OVER BRAKES, ARRIVED ON LOCATION @ 4 AM. MECHANIC LOOKING OVER HYDRIL IC BRAKE SYSTEM-MECHANIC ARRIVED @ 4 AM | |
| 12/9/2007 | | 06:00 - 07:00 | 1.00 | 08 | | TIGHTEN AIR LEAKS ON EATON BRAKE, ON 25% HAD A BAD LEAK, 75% HAD 2 LEAKS REAL SMALL/ RE-POSTION BRAKE HANDLE |
| | | 07:00 - 08:00 | 1.00 | 06 | | TRIP IN HOLE TO 1,210 TAGGED SOILD-HAD PEA GRAVEL COMING BACK WHEN WASHING THRU |
| | 08:00 - 09:00 | 1.00 | 03 | | WASH AND REAM FROM 1,210 TO 1,245 WORKED THRU SPOT | |
| | 09:00 - 10:30 | 1.50 | 06 | | TRIP IN TO 3,144 TRIP WAS GOOD (HOLE CLEAN) | |
| | 10:30 - 11:00 | 0.50 | 03 | | SAFETY WASH FROM 1,245 TO 3,219 HAD 5' FILL | |
| | 11:00 - 12:00 | 1.00 | 08 | | WORK WITH AIR BRAKE TO SEE IF IT WOULD HOLD CONSTANT WEIGHT AND SLACK OFF LINE CONSISTANT TRIED DIFFERENT SETTINGS WORKED | |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release: 2/19/2008
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|---------------|------|----------|---|
| 12/9/2007 | 11:00 - 12:00 | 1.00 | 08 | | BEST (BRAKE 25% WITH 35 PSI ON H-4 VALVE) |
| | 12:00 - 14:30 | 2.50 | 02 | | DRILL FROM 3,219 TO 3,261 (ROP 16.8) WOB 3-6, ROT 30-40, SPM 75/75, |
| | 14:30 - 15:00 | 0.50 | 08 | | CHANGE OUT BRAKE RELEASE VALVE (PER UNIT SUPT.) |
| | 15:00 - 20:00 | 5.00 | 02 | | DRILL FROM 3261 TO 3,357(ROP 19.2 HR) ,STARTED @ 3295 SEEPING 10 BBLS AN HOUR, PUMPING 15% LCM SWEEPS (20 BBLS) EVERY HOUR — PIPE SHIMMERING -NO TORQUE SHOWING ON TOP DRIVE CONSOLE, AND NO VISUL VERTICAL BOUNCE ON SURFACE-SHAKES DERRICK-GOING TO CHECK TOP DRIVE ON CONNECTION |
| | 20:00 - 21:00 | 1.00 | 07 | | WORK ON TOP DRIVE CABLES- MAKE SURE ALL CABLES ARE TIGHT(CHECKED OK), CHECK TIMING OF TOP DRIVE MOTORS (CHECKED OK), OPENED TOP DRIVE CONTROL BOX AND FOUND SOME LOOSE WIRES-TOP DRIVE DONT SHIMMER ANY MORE |
| | 21:00 - 04:30 | 7.50 | 02 | | DRILL FROM 3,357 TO 3,519(ROP 21.6' HR) HOLE HASN'T TAKEN ANY FLUID SINCE 3,332 |
| | 04:30 - 05:00 | 0.50 | 25 | | CLEAN SUCTION SCREEN ON #1 PUMP |
| | 05:00 - 05:30 | 0.50 | 25 | | CLEAN SUCTION SCREEN ON #2 PUMP |
| | 05:30 - 06:00 | 0.50 | 02 | | DRILL FROM 3519 TO 3530 (ROP 20' HR) WOB 7, ROT 40, SPM 75/75, NO LOSSES, BG GAS 15, |
| | 12/10/2007 | 06:00 - 11:00 | 5.00 | 02 | |
| | 11:00 - 12:00 | 1.00 | 11 | | SURVEY @ 3565 .3 DEG 231 AZ |
| | 12:00 - 16:30 | 4.50 | 02 | | DRILL FROM 3643 TO 3743 (ROP 22.2) SAME PERRAMETERS, PULL SUCTION SCREENS OUT/ PACKING OFF WITH NUT PLUG |
| | 16:30 - 17:00 | 0.50 | 07 | | SERVICE RIG, GREASE BLOCK, SWIVEL, TOP-DRIVE |
| | 17:00 - 06:00 | 13.00 | 02 | | DRILL FROM 3743 TO 4005 (ROP 20.1) WORK DIFFERNT PERAMETERS HOLE SEEPING @ 10 BBL HR |
| 12/11/2007 | 06:00 - 14:00 | 8.00 | 02 | | DRILLING FROM 4005 TO 4120 (ROP 14.4' HR) |
| | 14:00 - 14:30 | 0.50 | 07 | | RIG SERVICE (TOPDRIVE, BLOCKS, SWIVEL, CROWN) |
| | 14:30 - 23:30 | 9.00 | 02 | | DRILL FROM 4120 TO 4311 (ROP 21.2) |
| | 23:30 - 00:30 | 1.00 | 10 | | CIRCULATE AND SURVEY .3 DEG 5.1 AZ |
| | 00:30 - 02:00 | 1.50 | 02 | | DRILL FROM 4311 TO 4327 (ROP 10.6) HAD HIGH PUMP PRESSURE AFTER CONNECTION |
| | 02:00 - 02:30 | 0.50 | 05 | | CIRCULATE WELL AND BUILD TRIP SLUG |
| | 02:30 - 06:00 | 3.50 | 06 | | PUMP TRIP SLUG AND TRIP OUT OF HOLE, PULL 5 STANDS, BLOW DOWN KELLY HOSE AND PULL ROT. RUBBER, HAD TO BACK REAM FROM 1207 TO 1185 |
| 12/12/2007 | 06:00 - 08:00 | 2.00 | 06 | A | TRIP OUT HOLE TO CHANGE OUT BIT AND MUD MOTOR |
| | 08:00 - 09:30 | 1.50 | 06 | J | BREAK BIT AND LAY DOWN MUD MOTOR (HUNTING .24) AND PICK UP MOTOR (HUNTING .16) AND BIT |
| | 09:30 - 10:00 | 0.50 | 06 | | TRIP IN TO SHOE (502) |
| | 10:00 - 10:30 | 0.50 | 08 | | FIND GROUND FAULT IN SCR HOUSE (#1 TRIP TANK PUMP) |
| | 10:30 - 11:00 | 0.50 | 07 | | RIG UP CHAINS ON BAILS TO TOP DRIVE, GREASE TOP DRIVE |
| | 11:00 - 14:00 | 3.00 | 06 | | TRIP IN HOLE HAD TO WASH THRU 1,207 TO 1,235 PEA GRAVEL |
| | 14:00 - 15:00 | 1.00 | 03 | | SAFETY WASH AND REAM FROM 4,212 TO 4,327 |
| | 15:00 - 06:00 | 15.00 | 02 | | DRILL FROM 4327 TO 4585 (ROP 17.2' HR) WOB 5-10, DHRPM 181, BG GAS 10, HOLE SEEPING 2-3 BBLS HOUR |
| 12/13/2007 | 06:00 - 13:30 | 7.50 | 02 | | DRILL FROM 4585 TO 4691(ROP 14.1' HR) PUMPING BIT BALLING 10 BBL SWEEPS EVERY HOUR |
| | 13:30 - 14:00 | 0.50 | 07 | | RIG SERVICE, TOP DRIVE, DRAW WORKS |
| | 14:00 - 14:30 | 0.50 | 08 | | REPAIR POP OFF ON #1 PUMP |
| | 14:30 - 16:00 | 1.50 | 02 | | DRILL FROM TO 4691 TO 4730 (ROP 26' HR) |
| | | | | | |

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Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release: 2/19/2008
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|-------|------|----------|---|
| 12/13/2007 | 16:00 - 19:00 | 3.00 | 05 | C | LOST TOTAL CIRCULATION PUMP 200BBL 15% LCM PILL, REGAINED PARTIAL RETURNS, PUMPED 25 BBL(2-50# BAG POLY SWELL SWEEP DOWN HOLE), REGAIN CIRCULATION AND STAGED UP PUMPS (TOTAL LOSSES 275 BBL) DRILL FROM 4730 TO 4785 (ROP 11' HR) FIX POP OFF ON #1 PUMP DRILL FROM 4785 TO 4795 (ROP 10' HR) RE CALIBRATE HOOK LOAD AND WEIGHT ON BIT (STRING WEIGHT JUMPED TWO TIMES WEIGHT- DRILL TRIED TO RE CALIBRATE ON CONNECTION ARE DIDN'T DO IT RIGHT-HES NEVER WORK WITH A PASON BEFORE) DRIL FROM 4795 TO 4860 (ROP 16.25 ' HOUR)WOB 10-15, SPM 80/80, BG GAS 25, SEEPING 10 BL HR |
| | 19:00 - 00:00 | 5.00 | 02 | | |
| | 00:00 - 00:30 | 0.50 | 08 | | |
| | 00:30 - 01:30 | 1.00 | 02 | | |
| | 01:30 - 02:00 | 0.50 | 25 | | |
| 12/14/2007 | 02:00 - 06:00 | 4.00 | 02 | C | DRILL FROM 4860 TO 4871 HAD PUMP PRESSURE GAIN AND MOTOR WANTING TO STALL (TORQUE), WENT TO PULL SCREEN IN DRILL PIPE AND SCREEN WAS MISSING STRAINER PORTION CIRCULATE, BUILD TRIP SLUG, FILL TRIP TANK PUMP TRIP SLUG AND TRIP OUT OF HOLE FOR DRILL PIPE SCREEN, CHANGE BIT AND MOTOR-HAD 4 CONNECTIONS THAT WERE TIGHT-DRILL PIPE SCREEN WAS FOUND IN CROSS OVER FROM 4 1/2 IF TO 4 1/2 XH(ON TRIP OUT OR IN DIDN'T SEE ANYTHING 1200-HOLE WAS IN GREAT SHAPE) HANDLE BHA CHANGE OUT MOTOR AND BIT TRIP INTO SHOE 502' AND TEST MUD MOTOR TRIP INTO HOLE BREAK CIRULATION EVERY 2 ROWS (20 STANDS) TO 4786 SAFETY WASH AND REAM FROM 4786 TO 4871 DRILL FROM 4871 TO 4980 (ROP 19.8) WOB 5-12, RPM 40, DHRPM 125, MW 9.7 VIS 40, BG GAS 35 UNITS TRYING TO CONTROL SLIP STICK |
| | 06:00 - 07:30 | 1.50 | 02 | | |
| 12/15/2007 | 07:30 - 08:30 | 1.00 | 05 | J A | SURVEY @ 4900, .2 DEG, 216 AZ DRILL FROM 4980 TO 5000 (ROP 10' HR) WOB 10, RPM 40, DHRPM 125 DRILL FROM 5,000 TO 5,075 (ROP 8.4) WORKED ALL DIFFERNT PERAMETERS TO GET BIT TO DRILL (NOTHING WORKS) PUMPING BIT BALLING SWEEPS, PUT SAPP DOWN DRILL PIPE, FRESH WATER SWEEP HAD HAVE SOME SLIP STICK SERVICE TOP DRIVE AND BLOCKS MIX TRIP SLUG AND PUMP SLUG TO TRIP OUT TRIP OUT OF HOLE BIT QUIT DRILLING HANDLE BHA LAY DOWN MUD MOTOR, BIT AND PICK UP NEW, MOTOR, BIT TRIP IN HOLE AND TEST MUD MOTOR, FILL EVERY 2 ROWS SAFETY WASH AND REAM FROM 4,980 TO 5,075 NO FILL DRILL FROM 5075 TO 5110 (ROP 17.5' HR) WOB 5, DHRPM 210, MW 9.8 VIS 41 DRILLING FROM 5, 110 TO 5,171 (ROP 5.8' HR) TRYING ALL DIFFERNT PERAMETERS, PUMPING BIT BALL SWEEPS, LOOKING AT OFF SETS WELLS IN THIS AREA DRILLED AS SLOW (11" HOLE DRILLED @ 6.3' HR THRU THIS SECTION), 80 % SHALE, 10 % SILTSTONE, 10% SAND STONE, TRACE OF LIMESTONE SERVICE RIG AND TOP DRIVE, BLOCK AND SWIVEL DRILL FROM 5,171 TO 5,239 (ROP 5.2' HR) PUMPING BIT BALLING SWEEPS , TRYING ALL DIFFERNT PERAMETERS DRILL FROM 5239 TO 5267 (ROP 5.6' HR) WORK DIFFERNT PERAMETERS AND PUMP BIT BALLING SWEEPS, SAPP DOWN DRILL PIPE (DRILLING STEADY AT 5'-6' AN HOUR SERVICE RIG, BLOCKS, SWIVEL, TOP DRIVE, DRAW TOOL CHANGE OUT SAVER SUB AND FIX LINER WASHER ON #2 MUD PUMP (HOSE) DRILL FROM 5267 TO 5293 (ROP 4.3) ROP DROPPED TO 3-4' HR- HAD A LITTLE TORQUE |
| | 08:30 - 14:30 | 6.00 | 06 | | |
| | 14:30 - 16:00 | 1.50 | 06 | | |
| | 16:00 - 17:00 | 1.00 | 06 | | |
| | 17:00 - 21:00 | 4.00 | 06 | | |
| | 21:00 - 21:30 | 0.50 | 03 | | |
| | 21:30 - 03:00 | 5.50 | 02 | | |
| | 03:00 - 04:00 | 1.00 | 10 | | |
| | 04:00 - 06:00 | 2.00 | 02 | | |
| | 06:00 - 15:00 | 9.00 | 02 | | |
| 12/16/2007 | 15:00 - 15:30 | 0.50 | 07 | J A | DRILL FROM 5110 TO 5171 (ROP 5.8' HR) TRYING ALL DIFFERNT PERAMETERS, PUMPING BIT BALL SWEEPS, LOOKING AT OFF SETS WELLS IN THIS AREA DRILLED AS SLOW (11" HOLE DRILLED @ 6.3' HR THRU THIS SECTION), 80 % SHALE, 10 % SILTSTONE, 10% SAND STONE, TRACE OF LIMESTONE SERVICE RIG AND TOP DRIVE, BLOCK AND SWIVEL DRILL FROM 5,171 TO 5,239 (ROP 5.2' HR) PUMPING BIT BALLING SWEEPS , TRYING ALL DIFFERNT PERAMETERS DRILL FROM 5239 TO 5267 (ROP 5.6' HR) WORK DIFFERNT PERAMETERS AND PUMP BIT BALLING SWEEPS, SAPP DOWN DRILL PIPE (DRILLING STEADY AT 5'-6' AN HOUR SERVICE RIG, BLOCKS, SWIVEL, TOP DRIVE, DRAW TOOL CHANGE OUT SAVER SUB AND FIX LINER WASHER ON #2 MUD PUMP (HOSE) DRILL FROM 5267 TO 5293 (ROP 4.3) ROP DROPPED TO 3-4' HR- HAD A LITTLE TORQUE |
| | 15:30 - 16:30 | 1.00 | 05 | | |
| | 16:30 - 22:00 | 5.50 | 06 | | |
| 12/17/2007 | 22:00 - 23:00 | 1.00 | 06 | J A | DRILL FROM 5239 TO 5267 (ROP 5.6' HR) WORK DIFFERNT PERAMETERS AND PUMP BIT BALLING SWEEPS, SAPP DOWN DRILL PIPE (DRILLING STEADY AT 5'-6' AN HOUR SERVICE RIG, BLOCKS, SWIVEL, TOP DRIVE, DRAW TOOL CHANGE OUT SAVER SUB AND FIX LINER WASHER ON #2 MUD PUMP (HOSE) DRILL FROM 5267 TO 5293 (ROP 4.3) ROP DROPPED TO 3-4' HR- HAD A LITTLE TORQUE |
| | 23:00 - 03:30 | 4.50 | 06 | | |
| | 03:30 - 04:00 | 0.50 | 03 | | |
| | 04:00 - 06:00 | 2.00 | 02 | | |
| | 06:00 - 16:30 | 10.50 | 02 | | |
| 12/17/2007 | 16:30 - 17:00 | 0.50 | 07 | J A | DRILL FROM 5239 TO 5267 (ROP 5.6' HR) WORK DIFFERNT PERAMETERS AND PUMP BIT BALLING SWEEPS, SAPP DOWN DRILL PIPE (DRILLING STEADY AT 5'-6' AN HOUR SERVICE RIG, BLOCKS, SWIVEL, TOP DRIVE, DRAW TOOL CHANGE OUT SAVER SUB AND FIX LINER WASHER ON #2 MUD PUMP (HOSE) DRILL FROM 5267 TO 5293 (ROP 4.3) ROP DROPPED TO 3-4' HR- HAD A LITTLE TORQUE |
| | 17:00 - 06:00 | 13.00 | 02 | | |
| | 06:00 - 11:00 | 5.00 | 02 | | |
| | 11:00 - 11:30 | 0.50 | 07 | | |
| 12/17/2007 | 11:30 - 12:30 | 1.00 | 08 | J A | DRILL FROM 5239 TO 5267 (ROP 5.6' HR) WORK DIFFERNT PERAMETERS AND PUMP BIT BALLING SWEEPS, SAPP DOWN DRILL PIPE (DRILLING STEADY AT 5'-6' AN HOUR SERVICE RIG, BLOCKS, SWIVEL, TOP DRIVE, DRAW TOOL CHANGE OUT SAVER SUB AND FIX LINER WASHER ON #2 MUD PUMP (HOSE) DRILL FROM 5267 TO 5293 (ROP 4.3) ROP DROPPED TO 3-4' HR- HAD A LITTLE TORQUE |
| | 12:30 - 18:30 | 6.00 | 02 | | |
| | | | | | |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release: 2/19/2008
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|------------|---------------|-------|------|----------|---|
| 12/17/2007 | 18:30 - 19:00 | 0.50 | 05 | | CIRCULATE TO TRIP OUT OF HOLE AND BUILD TRIP SLUG |
| | 19:00 - 23:30 | 4.50 | 06 | A | PUMP SLUG AND TRIP OUT OF HOLE TO CHANGE BIT, (CHECKED FLOW- NO FLOW, BLEW DOWN KELLY HOSE, CIRCULATE CHARGE PUMPS |
| | 23:30 - 00:00 | 0.50 | 06 | J | CHANGE OUT BIT AND CLEAN RIG FLOOR FOR TRIP IN HOLE |
| | 00:00 - 02:00 | 2.00 | 06 | | TRIP IN HOLE |
| | 02:00 - 04:30 | 2.50 | 08 | | REPLACE BROKEN CABLE ON EASY TORQUE |
| | 04:30 - 05:30 | 1.00 | 06 | | TRIP IN HOLE |
| 12/18/2007 | 05:30 - 06:00 | 0.50 | 08 | | EASY TORQUE CABLE FELL OFF SHEIVE, PUT CABLE ON SHEIVE |
| | 06:00 - 08:00 | 2.00 | 06 | A | TRIP IN HOLE |
| | 08:00 - 08:30 | 0.50 | 03 | | SAFETY WASH AND REAM FROM 5173 TO 5293 NO FILL |
| | 08:30 - 14:00 | 5.50 | 02 | | BREAK BIT IN DRILL FROM 5293 TO 5360 (ROP 12.2) WOB 3-6, DHRPM 210-245, MW 9.8 VIS 43, BG GAS 9, PUT MORE WT BIT WANTS TO STICK SLIP (TORQUE STARTS JUMPING), |
| | 14:00 - 14:30 | 0.50 | 07 | | SERVICE RIG--TOP DRIVE (TOOK OIL SAMPLE), SWIVEL, BLOCKS |
| | 14:30 - 15:00 | 0.50 | 08 | | COULDN'T GET #2 PUMP TO KICK IN AFTER CONNECTION, TROUBLE SHOOT OILER PUMP KICKED BREAKER- RESET BREAKER |
| 12/19/2007 | 15:00 - 06:00 | 15.00 | 02 | | DRILL FROM 5360 TO 5485 (ROP 8.3' HR) WORKING ALL DIFFERENT PERAMETERS |
| | 06:00 - 08:00 | 2.00 | 02 | | DRILL FROM 5485 TO 5495 (ROP 5' HR) TRY ALL DIFFERNT PERAMETERS- 5-20 WOB, 30-65 ROTARY, SLOWED PUMP DOWN TO 75 STRKS, COULDN'T GET TO DRILL (WANTING TO STALL OUT-SLIP STICKING) |
| | 08:00 - 08:30 | 0.50 | 05 | | CIRCULATE AND BUILD TRIP SLUG |
| | 08:30 - 09:00 | 0.50 | 10 | | DROP SURVEY .2 DEG 258.6 DEG |
| | 09:00 - 13:30 | 4.50 | 06 | | TRIP OUT OF HOLE TO CHANGE BIT AND MUD MOTOR-BLEW KELLY HOSE DOWN |
| | 13:30 - 15:30 | 2.00 | 06 | J | HANDLE BHA, LAY DOWN AND PICK UP NEW MOTOR, AND BIT, CLEAN FLOOR FOR TRIP IN HOLE, TRIP TO SHOE |
| | 15:30 - 16:00 | 0.50 | 07 | | RIG SERVICE AND CHANGE AIR LINES ON EATON BRAKE CONTROLS (STEEL BRAIDED) |
| | 16:00 - 19:30 | 3.50 | 06 | | TRIP IN HOLE FILL PIPE @ BHA AND EVERY 30 STANDS |
| | 19:30 - 20:30 | 1.00 | 03 | | SAFETY WASH AND REAM FROM 5,355 TO 5,495--THERE WAS 8' OF UNDER GAGE HOLE |
| | 20:30 - 06:00 | 9.50 | 02 | | DRILL FROM 5 495 TO 5,550 WORKING ALL DIFFERNT PERAMETERS, PUMPING BIT BALLING SWEEPS, HAVE ALOT OF SLIP STICK TRY TO WORK PERAMETERS YO RID SLIP STICK, SLIP STICK WON'T GO AWAY |
| 12/20/2007 | 06:00 - 08:00 | 2.00 | DRL | 1 | DRILL FROM 5,550 TO 5,556 (ROP 3' HR) WORK DIFFERNT PERAMETERS TO GET TO DRILL AND STOP SLIP STICKING |
| | 08:00 - 08:30 | 0.50 | CIRC | 1 | CIRCULATE AND BUILD TRIP SLUG |
| | 08:30 - 12:00 | 3.50 | TRP | 10 | TRIP OUT OF HOLE TO PICK UP CONE BIT |
| | 12:00 - 14:00 | 2.00 | RIG | 6 | CUT & SLIP DRILL LINE |
| | 14:00 - 19:30 | 5.50 | TRP | 2 | TRIP IN HOLE FILL STRING @ 570', 1957' & 4120' W/ NO RESISTANCE |
| | 19:30 - 20:00 | 0.50 | REAM | 1 | WASH & REAM F/ 5,366' TO BOTTOM @ 5,556' W/ NO PROBLEMS |
| | 20:00 - 01:30 | 5.50 | DRL | 1 | DRILL F/ 5,556' TO 5,596' (40' @ 7.3 FPH) WOB 5/35 |
| | 01:30 - 02:30 | 1.00 | OTH | | REMOVE LCM FROM SUCTION LINE ON # 2 MUD PUMP |
| 12/21/2007 | 02:30 - 06:00 | 3.50 | DRL | 1 | DRILL F/ 5,596' TO 5,638' (42' @ 12 FPH) WOB 32/40 |
| | 06:00 - 07:00 | 1.00 | DRL | 1 | DRILL F/ 5,638' TO 5,647' (9' @ 9' FPH) WOB 36, RPM 105 |
| | 07:00 - 07:30 | 0.50 | RIG | 1 | RIG SERVICE |
| | 07:30 - 18:00 | 10.50 | DRL | 1 | DRILL F/ 5,647' TO 5,735' (88' @ 8.4' FPH) WOB 30/40, RPM 90/110 |
| 12/22/2007 | 18:00 - 06:00 | 12.00 | DRL | 1 | DRILL F/ 5,735' TO 5,830' (95' @ 8' FPH) WOB 30/40, RPM 90/110 MUD WT 9.7 VIS 42, W/ NO LOSSES |
| | 06:00 - 07:30 | 1.50 | DRL | 1 | DRILL F/ 5,830' TO 5,837' (7' @ 4.7 FPH) WOB 35/40 RPM 90/110 MUD WT 9.7 |
| | 07:30 - 08:00 | 0.50 | RIG | 1 | RIG SERVICE |
| | 08:00 - 17:00 | 9.00 | DRL | 1 | DRILL F/ 5,837' TO 5,912' (75' @ 8.3 FPH) WOB 36/40 RPM 110 MUD WT 9.7 |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34-7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release: 2/19/2008
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|---------------|---------------|---------------|------|-------------------|---|
| 12/22/2007 | 17:00 - 18:30 | 1.50 | CIRC | 1 | CIR. BOTTOMS UP DROP SURVEY & PUMP PILL |
| | 18:30 - 20:30 | 2.00 | TRP | 10 | TRIP OUT OF HOLE TO BHA |
| | 20:30 - 03:00 | 6.50 | ISP | 1 | INSPECT ALL BHA (FOUND NO DEFECTS) |
| | 03:00 - 03:30 | 0.50 | TRP | 1 | CLEAN RIG FLOOR & CHANGE OUT BIT |
| | 03:30 - 06:00 | 2.50 | TRP | 2 | TRIP IN HOLE W/ NEW 12 1/4 BIT |
| 12/23/2007 | 06:00 - 09:00 | 3.00 | TRP | 2 | TRIP IN HOLE W/ NEW BIT FILL PIPE EVERY 2000' ATT. TO FILL PIPE @ 4120' STRING PLUGGED |
| | 09:00 - 13:30 | 4.50 | TRP | 2 | TRIP OUT OF HOLE (WET) DUE TO PLUGGED STRING (FOUND TWO FEET OF LCM IN MONEL FROM FLOAT VALVE UP & ATT. TO TO DRAIN MUD MOTOR W/ NO SUCCESS MOTOR WOULD NOT TURN. |
| | 13:30 - 14:00 | 0.50 | TRP | 1 | LAY DOWN OLD MOTOR REPLACE WITH NEW MOTOR |
| | 14:00 - 17:30 | 3.50 | TRP | 2 | TRIP IN HOLE TO 539' CIR. 10 MINUTES -OK FILL PIPE @ 1766', 3258' & 4501' |
| | 17:30 - 18:00 | 0.50 | TRP | 2 | INSTALL ROTATE HEAD & TRIP IN HOLE TO 5,747' |
| | 18:00 - 19:00 | 1.00 | REAM | 1 | WASH & REAM F/ 5,747' TO 5,889' W/ NO RESISTANCE F/ 5,889' TO BOTTOM @ 5,912' W/ 2 TO 5 WOB. |
| | 19:00 - 06:00 | 11.00 | DRL | 1 | DRILL F/ 5912' TO 6,002' (90' @ 8.2 FPH) WOB 28 TO 35, RPM 90/110, MUD WT 9.7 VIS 42 |
| | 12/24/2007 | 06:00 - 09:00 | 3.00 | DRL | 1 |
| 12/24/2007 | 09:00 - 09:30 | 0.50 | RIG | 1 | RIG SERVICE & HELD BOP DRILL |
| | 09:30 - 18:00 | 8.50 | DRL | 1 | DRILL F/ 6,026' TO 6,100' (74' @ 8.7 FPH) WOB 32/40 RPM 105 MUD WT 9.7 VIS 41 |
| | 18:00 - 21:00 | 3.00 | DRL | 1 | DRILL F/ 6,100' TO 6,120' (20' @ 6.7 FPH) WOB 35/40 RPM 105 MUD WT 9.7VIS 42 |
| | 21:00 - 22:00 | 1.00 | CIRC | 1 | CIR. BOTTOMS UP & PUMP SLUG |
| | 22:00 - 01:00 | 3.00 | TRP | 2 | TOOH TO 3,129' LOST POWER TO DC MODULE TO DRILLER PANEL |
| 12/25/2007 | 01:00 - 06:00 | 5.00 | RIG | 2 | TROUBLE SHOOT & WAIT ON UNITS ELE. |
| | 06:00 - 06:00 | 24.00 | RIG | 2 | WORK PIPE & WAIT ON UNITS ELECTRICAN REMOVE BAD HYD. MOTOR & WAIT ON REPLACEMENT MOTOR (MOTOR ARRIVED ON LOCATION @ 2130 HRS. ATT. TO INSTALL MOTOR WRONG MOTOR HOUSING) CALLED AROUND FOUND HYD. MOTOR IN CASPER WAITING ON MOTOR COMING F/ CASPER SHOULD BE ON LOCATION @ 0830 HRS. |
| 12/26/2007 | 06:00 - 17:00 | 11.00 | RIG | 2 | WAITING ON HYD. MOTOR REPLACEMENT - MOTOR ARRIVED @ 1100 HRS, WRONG SHAFT SIZE (FRAB. A COUPLE INSTALLED SAME) FRANKS HAWK JAW TONGS ARRIVED @ 1530 HRS R/UP SAME |
| | 17:00 - 19:00 | 2.00 | TRP | 2 | TRIP OUT OF HOLE |
| | 19:00 - 20:00 | 1.00 | TRP | 2 | CHANGE OUT BIT & MOTOR |
| | 20:00 - 02:00 | 6.00 | TRP | 2 | TRIP IN HOLE W/ NEW BIT & MOTOR TO 5,942' |
| | 02:00 - 03:00 | 1.00 | REAM | 1 | WASH & REAM F/ 5,942' TO BOTTOM 6,120' W/ NO RESISTANCE |
| | 03:00 - 06:00 | 3.00 | DRL | 1 | DRILL F/ 6,120' TO 6,143' (23' @ 7.7 FPH) WOB 35/40 RPM 115 MUD WT. 9.6 VIS 39 W/ NO LOSSES |
| | 12/27/2007 | 06:00 - 13:00 | 7.00 | DRL | 1 |
| 12/28/2007 | 13:00 - 13:30 | 0.50 | RIG | 1 | RIG SERVICE |
| | 13:30 - 18:00 | 4.50 | DRL | 1 | DRILL F/ 6,225' TO 6,275' (50' @ 11.1' FPH) WOB 35/40 MUD WT 9.8 VIS 41 |
| | 18:00 - 02:00 | 8.00 | DRL | 1 | DRILL F/ 6,275' TO 6,375' (100' @ 12.5' FPH) WOB 35/40 MUD WT 9.8 VIS 40 |
| | 02:00 - 02:30 | 0.50 | CIRC | 1 | CIR. BOTTOMS UP |
| | 02:30 - 05:00 | 2.50 | TRP | 15 | SHORT TRIP TO 5,905' RIH TO BOTTOM @ 6,375' |
| | 05:00 - 06:00 | 1.00 | CIRC | 1 | PUMP SWEEP & CIR. HOLE CLEAN |
| | 06:00 - 08:00 | 2.00 | CIRC | 1 | CIR. & CONDITION HOLE FOR RUNNING 9 5/8" CASING |
| | 08:00 - 08:30 | 0.50 | SUR | 1 | DROP MULTI. SHOT & PUMP SLUG |
| | 08:30 - 14:30 | 6.00 | TRP | 2 | TRIP OUT OF HOLE |
| | 14:30 - 15:30 | 1.00 | TRP | 1 | BREAK OUT BIT & LAY DOWN MOTOR & MONEL |
| 15:30 - 16:30 | 1.00 | OTH | | PULL WEAR BUSHING | |

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Operations Summary Report

Well Name: RW 34-34AD
 Location: 34-7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release: 2/19/2008
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|---------------|---------------|---------------|------|----------|--|
| 12/28/2007 | 16:30 - 22:00 | 5.50 | CSG | 1 | R/UP FRANKS CASING EQUIPMENT & STABBING BOARD & FILL UP TOOL |
| | 22:00 - 00:30 | 2.50 | RIG | 2 | ATT. TO RIG UP FLAG POLL FOR THE LAY DOWN MACHINE ROTATING MOUSEHOLE WAS TOO BIG FOR THE FLAG POLL (WAS UNABLE TO SECURE FLAG POLL PROPERLY INSIDE THE R. MOUSEHOLE) LAY DOWN R. MOUSEHOLE |
| | 00:30 - 02:00 | 1.50 | CSG | 1 | GOT CASING MOUSEHOLE FROM RIG 232 |
| | 02:00 - 03:30 | 1.50 | CSG | 2 | FINISH RIGGING UP LAY DOWN MACHINE |
| 12/29/2007 | 03:30 - 06:00 | 2.50 | CSG | 1 | THREAD LOCK SHOE, & TWO JTS OF 9 5/8 CASING & F/C ATT. TO M/UP CASING JT TONGS WAS UNABLE TO GET PROPER TORQUE ON VAM CONNECTION |
| | 06:00 - 07:00 | 1.00 | CSG | 2 | RIG DOWN TONGS & WAIT ON TONGS FROM FRANKS |
| | 07:00 - 21:00 | 14.00 | CSG | 2 | RIG UP FRANKS 13 3/8 CASING TONGS |
| | 21:00 - 00:30 | 3.50 | CIRC | 1 | RUN 9 5/8" CASING (VAM 47 # HC P 110) SHOE, TWO JTS CASING & F/C & TOTAL 145 JTS & LANDING JT W/ MBS (SHOE @ 6,353') |
| | 00:30 - 01:30 | 1.00 | OTH | | CIR. & CONDITION MUD (SHAKE OUT LCM) R/D FRANKS CSG EQUIPMENT LAY DOWN FILL UP TOOL & CHANGE OUT BAILS ON TOP DRIVE |
| 12/30/2007 | 01:30 - 05:00 | 3.50 | CSG | 2 | P/UP 1 STD 5" HWDP FROM DERRICK M/UP PACK OFF ASSEMBLY & RUNNING TOOL SET PACK OFF ASSEMBLY P/T TO 5000 PSI =OK R/UP HAL RETURN LINE TO A SECTION OUTLET VALVE. |
| | 05:00 - 06:00 | 1.00 | CSG | 2 | PICK UP LANDING JT & INSTALL SAME & R/UP CMT HEAD & CMT. LINE TO RIG FLOOR & PREPARE FOR CEMENT JOB. |
| | 06:00 - 07:00 | 1.00 | CMT | 2 | CONT. TO P/UP LANDING JT. & M/UP CMT TOOL & LAND SAME & R/UP CMT HEAD AND CMT LINES TO RIG FLOOR |
| | 07:00 - 07:30 | 0.50 | RIG | 1 | RIG SERVICE |
| | 07:30 - 09:30 | 2.00 | CMT | 2 | WAIT ON CAMERON PACK OFF SUPPORT BUSHING & INSTALL SAME |
| | 09:30 - 10:30 | 1.00 | CMT | 2 | HOLD S/MEETING PREPARE FOR CMT. JOB OBSERVE LOSSES |
| | 10:30 - 18:00 | 7.50 | CIRC | 2 | ATT. TO CURE LOSSES PUMP LCM PILLS W/ NO SUCCESS |
| | 18:00 - 19:00 | 1.00 | CMT | 2 | REPAIR HAL. FOAM DISCHARGE LINE |
| | 19:00 - 00:30 | 5.50 | CMT | 2 | PUMP 40 BBLs SPACER @ 5 BBLs/MIN. 10 BBLs FRESH WATER 20 BBLs SUPER FLUSH 10 BBLs FRESH WATER PUMP SECOND LEAD CMT. 198 BBLs @ 5 BPM 14.3 PPG & DROP PLUG DISPLACE W/ 466 BBLs (PLUG DID NOT BUMP) |
| | 12/31/2007 | 00:30 - 01:00 | 0.50 | CMT | 2 |
| 01:00 - 02:00 | | 1.00 | CMT | 1 | RIG DOWN CEMENTERS |
| 02:00 - 03:30 | | 1.50 | CMT | 2 | PULL LANDING JT. |
| 03:30 - 06:00 | | 2.50 | BOP | 2 | P/TEST BOPS & CHOKE MANIFOLD |
| 06:00 - 10:30 | | 4.50 | BOP | 2 | P/TEST BOPS & CHOKE MANIFOLD LOW TEST 250PSI & HIGH TEST 5000 PSI P/T ANN. LOW TEST 250 PSI & HIGH TEST 3500 PSI W/ NO LEAKS |
| 10:30 - 11:00 | | 0.50 | BOP | 2 | INSTALL WEAR BUSHING |
| 11:00 - 14:00 | | 3.00 | OTH | | PREPARE TO PICK UP 5" DRILL PIPE ATT. TO REMOVE PROTECTORS USING CHAIN TONGS TO MUCH ICE HEAT PROTECTORS TO REMOVE SAME CLEAN THREADS & STRAP DRILL PIPE |
| 14:00 - 15:30 | | 1.50 | TRP | 2 | RIG UP LAY TRUCK MACHINE |
| 15:30 - 17:30 | | 2.00 | RIG | 2 | OBSERVE BAD HYDRAULIC LEAK ON DRAWWORKS FOUND HYDRAULIC HOSE LEAKING ON DRILLERS OFF SIDE (REPLACE SAME) |
| 17:30 - 18:00 | | 0.50 | TRP | 2 | PICK UP NEW 5" S-135 DRILL PIPE M/U & B/O & M/U ALL NEW DRILL PIPE CONN. |
| 18:00 - 19:00 | | 1.00 | RIG | 2 | FIX HYDRAULIC LEAK ON M/UP TONG RAM |
| 19:00 - 06:00 | | 11.00 | TRP | 2 | PICK UP NEW 5" S-135 DRILL PIPE M/U & B/O & M/U ALL DRILL PIPE CONNECTIONS |
| 1/1/2008 | | 06:00 - 07:30 | 1.50 | TRP | 2 |
| | 07:30 - 08:30 | 1.00 | TRP | 1 | LAY DOWN 8" DRILL COLLARS |
| | 08:30 - 10:30 | 2.00 | OTH | | PREPARE TO PICK UP 6.5" DRILL COLLAR, MOTOR, IBS & DRILL PIPE |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release: 2/19/2008
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|---------------|---------------|-------|------|---|--|
| 1/1/2008 | 10:30 - 14:30 | 4.00 | TRP | 1 | M/UP PDC & 8 1/2 BHA FILL UP PIPE & BREAK CIR. |
| | 14:30 - 02:00 | 11.50 | TRP | 2 | PICK UP NEW G-105 DRILL PIPE TORQUE & B/O & RE-TORQUE |
| | 02:00 - 03:00 | 1.00 | OTH | | RIG DOWN FRANKS LAY DOWN MACHINE |
| | 03:00 - 04:00 | 1.00 | TRP | 2 | RUN IN HOLE TO 6183' |
| 1/2/2008 | 04:00 - 06:00 | 2.00 | | | WASH & REAM DN F/ 6,183' TO LANDING COLLAR @ 6,266' |
| | 06:00 - 09:00 | 3.00 | DRL | 4 | DRILL OUT SHOE TRACK EQUIPMENT |
| | 09:00 - 10:00 | 1.00 | DRL | 1 | DRILL F/ 6,375' TO 6,385' |
| | 10:00 - 10:30 | 0.50 | CIRC | 1 | CIR. BOTTOMS UP FOR FIT |
| | 10:30 - 11:00 | 0.50 | EQT | 2 | PERFORM FIT TEST TO 13.5 PPG EQUIVALENT |
| | 11:00 - 12:30 | 1.50 | DRL | 1 | DRILL F/ 6,385' TO 6,425' (40' @ 27' FPH) WOB 12/14 MUD WT 9.3 VIS 39 |
| | 12:30 - 13:30 | 1.00 | REAM | 1 | ATT. TO REAM STAND BEFORE MAKING MOUSEHOLE CONNECTION LAST 35' HOLE HAD FELL IN (WASH & REAM BACK TO BOTTOM THREE TIMES EVERY TIME SAME RESULTS) CONT. TO WASH & REAM THROUGH THE 35' PUMP SWEEP AFTER CIR SWEEP HOLE CONDITION WAS GOOD MAKE CONNECTION |
| | 13:30 - 18:00 | 4.50 | DRL | 1 | DRILL F/ 6,425' TO 6,550' (125' @ 27.8 FPH) WOB 12/15 MUD WT 9.6 VIS 42 |
| 18:00 - 06:00 | 12.00 | DRL | 1 | DRILL F/ 6,550' TO 6,900' (350' @ 29.2 FPH) WOB 12/18 MUD WT 9.5 VIS 40 W/ NO LOSSES & NO HOLE PROBLEMS | |
| 1/3/2008 | 06:00 - 17:00 | 11.00 | DRL | 1 | DRILL FROM 6900 TO 7366 (ROP 42.3' HR) WOB 10-14, DHRPM 98, MW 9.5, BG GAS 5, HOLE SEEPING 5 -10 BBL.S HR PUMPING 12% LCM SWEEPS SURVEY @ 7305 1.3 DEG 147.2 AZ |
| | 17:00 - 17:30 | 0.50 | SUR | 1 | SURVEY @ 7305 1.3 DEG 147.2 AZ |
| | 17:30 - 18:00 | 0.50 | RIG | 1 | SERVICE RIG AND TOP DRIVE |
| | 18:00 - 06:00 | 12.00 | DRL | 1 | DRILL FROM 7366 TO 7795 (ROP 35.7' HR) WOB 10-14, DHRPM 100, MW 9.4, BG GAS 5, HOLE SEEPING 10 BBL.S HR. |
| 1/4/2008 | 06:00 - 14:30 | 8.50 | DRL | 1 | DRILL FROM 7,795 TO 8,034 (ROP 28.1) WOB 10-15, MW 9.3, VIS 43, BG GAS 10, HOLE SEEPING 10 BBL.S HR. SWEEPING 20 BBL WITH 15 % LCM EVERY HR., SURVEY @ 7,979-1.8 DEG. 179.4 AZ |
| | 14:30 - 15:00 | 0.50 | SUR | 1 | SURVEY @ 7,979-1.8 DEG. 179.4 AZ |
| | 15:00 - 15:30 | 0.50 | RIG | 1 | SERVICE RIG TOP DRIVE, BLOCKS, SWIVEL |
| | 15:30 - 06:00 | 14.50 | DRL | 1 | DRILL FROM 8,034 TO 8,500 (ROP 32' HR) WOB 10-17, MW 9.3, VIS 43, BG GAS 13, HOLE SEEPING 15 BBL HR |
| 1/5/2008 | 06:00 - 11:00 | 5.00 | DRL | 1 | DRILL FROM 8,500 TO 8,603 (ROP 20.6) WOB 15-18, DHRPM 105, MW 9.25, VIS 41, BG GAS 15 UNITS- BIT SLOWWED DOWN TO 11' HR |
| | 11:00 - 11:30 | 0.50 | CIRC | 1 | CIRCULATE AND SPOT 175 BBL.S OF 20% LCM IN HOLE FOR TRIP OUT (COVERED OPEN HOLE) |
| | 11:30 - 12:00 | 0.50 | SUR | 1 | DROPPED SURVEY |
| | 12:00 - 18:00 | 6.00 | TRP | 10 | TRIP OUT OF HOLE FOR NEW BIT TIGHT 8,523 TO 8,515, 6,406 TO 6,400, 6,321 TO 6,310 |
| | 18:00 - 19:00 | 1.00 | TRP | 1 | HANDLE BHA CHANGE OUT MOTOR AND BIT |
| | 19:00 - 02:00 | 7.00 | TRP | 10 | TEST MOTOR AND TRIP IN HOLE FILL @ BHA AND EVERY 3 ROWS AFTER SAFETY WASH AND REAM FROM 8413 TO 8603 HAD 12' FILL |
| | 02:00 - 03:30 | 1.50 | REAM | 1 | SAFETY WASH AND REAM FROM 8413 TO 8603 HAD 12' FILL |
| | 03:30 - 06:00 | 2.50 | DRL | 1 | DRILL FROM 8,603 TO 8,660 (ROP 22.8) WOB 5-10, DHRPM 115, MW 9.2, VIS 45 BG GAS 11 UNITS, RATTY DRILLING |
| 1/6/2008 | 06:00 - 14:00 | 8.00 | DRL | 1 | DRILLING FROM 8,660 TO 8,801(ROP 17.6' HR) WOB 5-18, DHRPM 105-135, MW 9.2, VIS 42, BG GAS 15 UNITS, STARTED TO GETT NICKEL SIZED PIECES OF SHALE A CROSSED SHAKERS BROUGHT MW TO 9.3+, HOLE ISN'T SEEPING.WORKING DIFFERNT PERAMETERS TO GET TO DRILL, OFF SETS DRILLED QUICKER IN THIS SECTION |
| | 14:00 - 14:30 | 0.50 | RIG | 1 | SERVICE TOP DRIVE AND BLOCKS |
| | 14:30 - 06:00 | 15.50 | DRL | 1 | DRILL FROM 8,801 TO 9150 (ROP 22.5' HR) WOB 5-18, DHRPM 120, MW 9.4,VIS 42, BG GAS 21UNITS, HOLE IN GOOD SHAPE NO SEEPAGE |
| | 06:00 - 12:00 | 6.00 | DRL | 1 | DRILL FROM 9150 TO 9277(ROP 21.2) WOB 15-20, DHRPM 127, MW 9.4+, VIS 42, BG GAS 25, NO HOLE SEEPAGE |
| 1/7/2008 | 12:00 - 12:30 | 0.50 | RIG | 1 | SERVICE RIG BLOCKS, SWIVEL, CROWN |

CONFIDENTIAL

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34-7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release: 2/19/2008
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|-----------|---------------|-------|------|----------|--|
| 1/7/2008 | 12:30 - 06:00 | 17.50 | DRL | 1 | DRILL FROM 9277 TO 9690 (ROP 23.6) SAME PERAMETERS, MESA VERDE CAME IN @ 9268, HAVE NO SEEPAGE, WT CREEPING UP WILL KICK ON CENTER FUGES THIS AM, SINCE THERE ISN'T ANY LOSSES |
| 1/8/2008 | 06:00 - 13:00 | 7.00 | DRL | 1 | DRILL FROM 9,690 TO 9,849 (ROP 22.7' HR) WOB 15-20, DHRPM 125, MW 9.4+, VIS 43, BG GAS 24 UNITS, |
| | 13:00 - 14:00 | 1.00 | RIG | 1 | RIG SERVICE, TOP DRIVE, BLOCKS, TOOK OIL SAMPLES IN TOP DRIVE |
| | 14:00 - 15:00 | 1.00 | REAM | 1 | TIGHT CONNECTION WORKED THE STAND UP 25-35K OVER SLACK OFF 10-15K |
| 1/9/2008 | 15:00 - 06:00 | 15.00 | DRL | 1 | DRILL FROM 9849 TO 10,250 (ROP 26.7' HR) WOB 15-20, DHRPM 125, MW 9.6, VIS 42, BG GAS 50 UNITS, BRING MUD WT TO 9.6 AFTER TIGHT CONNECTION, HELPED OUT ON CONNECTIONS |
| | 06:00 - 13:00 | 7.00 | DRL | 1 | DRILL FROM 10,250 TO 10,424 (ROP 24.8' HR) WOB 15-20, DHRPM 130, MW 9.7, VIS 43, BG GAS 36, HOLE IN GOOD CONDITION |
| | 13:00 - 14:00 | 1.00 | RIG | 1 | SERVICE RIG, TOP DRIVE, CROWN |
| | 14:00 - 18:00 | 4.00 | DRL | 1 | DRILL FROM 10,424 TO 10,519 (ROP 23.75) WOB 15-20, DHRPM 125, MW 9.7, VIS 41, BG GAS 85, |
| 1/10/2008 | 18:00 - 18:30 | 0.50 | RIG | 2 | REPAIR RIG SCR'S KICKED OUT LOSS OF POWER TO DRILLER CONSOLE (RESET PLC PANEL (COMPUTER IN SCR HOUSE) AND DRIVE GROUNDING ROD |
| | 18:30 - 06:00 | 11.50 | DRL | 1 | DRILL FROM 10,519 TO 10,808 (ROP 25.7) SAME PERAMETERS, HAD SOME GOOD GAS SHOWS @ 10,480 |
| | 06:00 - 08:30 | 2.50 | DRL | 1 | DRILL FROM 10,808 TO 10,835 (ROP 10.8) WOB 15-20, DHRPM 125, MW 9.7 BIT QUIT DRILLING, (WORK PERAMETERS COULDN'T GET IT TO PICK UP OVER 15' HR) |
| | 08:30 - 09:00 | 0.50 | CIRC | 1 | CIRCULATE AND BUILD TRIP SLUG (THAW OUT TRIP TANK HOSE) |
| | 09:00 - 09:30 | 0.50 | SUR | 1 | DROP SURVEY@10,801 |
| | 09:30 - 15:00 | 5.50 | TRP | 10 | PUMP TRIP SLUG AND TRIP OUT OF HOLE, HOLE WAS IN GREAT SHAPE NO TIGHT SPOTS |
| | 15:00 - 16:00 | 1.00 | TRP | 1 | HANDLE BHA, LAY DOWN BIT AND MOTOR AND PICK UP BIT AND MOTOR .13 |
| | 16:00 - 17:30 | 1.50 | TRP | 10 | TEST MOTOR TRIP IN HOLE FILL @ BHA |
| | 17:30 - 18:00 | 0.50 | RIG | 1 | SERVICE RIG TOP DRIVE, DRAW-WORKS,BLOCKS |
| | 18:00 - 20:30 | 2.50 | TRP | 10 | TRIP IN HOLE WITH BIT #14 TO CASING SHOE (FILLING EVERY 200') |
| 1/11/2008 | 20:30 - 22:00 | 1.50 | RIG | 6 | CUT AND SLIP DRILLING LINE 90' |
| | 22:00 - 22:30 | 0.50 | RIG | 1 | SERVICE RIG |
| | 22:30 - 23:00 | 0.50 | TRP | 10 | FILL PIPE AND TRIP IN HOLE, (DRILLING LINE WASN'T SPOOLING EVEN ON DRUM) |
| | 23:00 - 00:30 | 1.50 | RIG | 2 | UNSPPOOL LINE ON DRUM AND SPOOL LINE BACK ON DRUM (LINE WAS LOOSE ON DRUM) |
| | 00:30 - 03:30 | 3.00 | TRP | 10 | TRIP IN HOLE -NO TIGHT SPOTS |
| | 03:30 - 05:00 | 1.50 | REAM | 1 | WASH AND REAM 140' TO BOTTOM (HAD 8' OF SOFT FILL) START PATTERN ON BOTTOM WITH NEW BIT |
| | 05:00 - 06:00 | 1.00 | DRL | 1 | DRILL FROM 10, 835 TO 10,885 (ROP 50' HR) |
| | 06:00 - 16:00 | 10.00 | DRL | 1 | DRILL FROM 10,885 TO 11,094 (ROP 20.9) WOB 5-15, DHRPM 120, MW 9.7, VIS 45, BGG 120 UNITS, NO LOSSES |
| | 16:00 - 16:30 | 0.50 | RIG | 1 | SERVICE RIG (CHANGE OUT BREAKER IN PLC PANEL) |
| | 16:30 - 06:00 | 13.50 | DRL | 1 | DRILL FROM 11,094 TO 11,365 (ROP 20.0)WOB 10-20, DHRPM 120, MW 9.7, VIS 45, BGG 125 UNITS, NO LOSSES, WHEN DRILLING SLOWS DOWN-BEEN PICKING UP 30' AND RESTARTING BIT |
| 1/12/2008 | 06:00 - 11:30 | 5.50 | DRL | 1 | DRILL FROM 11,365 TO 11,475 (ROP 20' HR) WOB 14, DHRPM 110, MW 9.7+, VIS 46, BGG 275 UNITS, BRING MW UP SLOWLY TO 9.9 |
| | 11:30 - 12:00 | 0.50 | RIG | 1 | SERVICE RIG TOPDRIVE, SWIVEL, AND CHANGED OUT AIR VALVE ON AIR BRAKE HANDLE |
| | 12:00 - 16:30 | 4.50 | DRL | 1 | DRILL FROM 11,475 TO 11,570 (ROP 21.1' HR) WOB 18, DHRPM 118, MW 9.9, |

CONFIDENTIAL

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34-7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release: 2/19/2008
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|-----------|---------------|-------|------|----------|--|
| 1/12/2008 | 12:00 - 16:30 | 4.50 | DRL | 1 | VIS 46, BGG 384, PEAK GAS 4057 UNITS FROM 11,563" (HAD A LOT OF SLIP STICK @ 11,493 TO 11,535 BACK WEIGHT TO 6K ON BIT STILL DRILLED 20' HR) HAD BOP DRILL ON DAY LIGHTS |
| | 16:30 - 17:30 | 1.00 | REAM | 1 | WORK TIGHT CONNECTION FROM 11,570 TO 11,490 WAS BIT STUCK WHEN BACKING ON CONNECTION AND BLEW A POP OFF, WORKED PIPE FREE AND REAM BEFORE CONECTION TWICE (CLEANED UP) |
| | 17:30 - 06:00 | 12.50 | DRL | 1 | DRILL FROM 11,570 TO 11,690 TOP OF SEGO 11,591 (ROP 9.6' HR) WOB 18-22, DHRPM 105-125, MW 10.4, VIS 42, BBG 141, CONN GAS 2,300, |
| 1/13/2008 | 06:00 - 13:30 | 7.50 | DRL | 1 | DRILL FROM 11,690 TO 11,742 (ROP 6.9) SLOWED TO 3 FT HOUR FOR A HOUR MW 10.8, VIS 46, SHAKERS BY PASSED SEEPING 4-5 BBL.S HR, LCM 7% IN ACTIVE, HOLE TOOK A DRINK @ 11,694 APROX. 32 BBL.S |
| | 13:30 - 17:00 | 3.50 | CIRC | 1 | CIRCULATE BOTTOMS UP, AND MUD WT 10.7+ THRU ACTIVE, AND WEIGHT UP 150 BBL MW 12.7, 20% LCM SLUG AND SPOT COVERED 2150 OF BOTTOM OF OPEN HOLE |
| | 17:00 - 20:30 | 3.50 | TRP | 10 | TRIP OUT (WET) OF HOLE SLOW, 35 STANDS ON TOP OF HEAVY SLUG FLOW CHECK WELL FLOWING 1/2" STREAM-CIRCULATE @ 8386 BOTTOMS |
| | 20:30 - 22:30 | 2.00 | CIRC | 1 | UP FLARE ON BUSTER PEAK GAS 5778 UNIT'S 20' FLARE THEN WENT TO FLICKER- CHECKED FLOW 1/4" STREAM-SPOT 80 BBL OF 12.7 COVERING 1142' OF OPEN HOLE |
| 1/14/2008 | 22:30 - 01:00 | 2.50 | TRP | 10 | TRIP OUT TO SHOE, CHECK FOR FLOW-NO FLOW PUMPED TRIP SLUG AND PULL ROTATING HEAD |
| | 01:00 - 05:00 | 4.00 | TRP | 10 | TRIP OUT TO CHANGE BIT AND MOTOR 2.4 BBL.S OVER FILL |
| | 05:00 - 06:00 | 1.00 | TRP | 10 | HANDLE BHA LAY DOWN MOTOR AND PICK UP NEW BIT AND MOTOR |
| | 06:00 - 10:30 | 4.50 | TRP | 10 | TRIP 600' TO 6992' |
| | 10:30 - 11:00 | 0.50 | CIRC | 1 | CIRCULATE BOTTOMS UP 28 BBL GAIN, 2448 UNITS ON BUSTER |
| | 11:00 - 13:00 | 2.00 | TRP | 10 | TRIP TO 8892 AND CIR FOR 15 MIN/ TRIP TO 107 (SLOW NOT TO KNOCK BOTTOM OUT) |
| | 13:00 - 14:30 | 1.50 | CIRC | 1 | CIRCULATE BOTTOMS @ THRU CHOKE UP 3/4" CHOKE, PEAK GAS 5605, 40' FLARE, 75 BBL PIT GAIN (FUNTION PIPE RAMS AND ANNULAUR) |
| | 14:30 - 15:30 | 1.00 | TRP | 10 | TRIP IN TO 11,567 (SLOW) |
| | 15:30 - 17:00 | 1.50 | CIRC | 1 | CIRCULATE BOTTOMS UP 4400 UNITS AND 77 BBL PIT GAIN, 3/4" CHOKE 65' FLARE |
| | 17:00 - 18:00 | 1.00 | REAM | 1 | WASH AND REAM FROM 11,567 TO 11,742 (8' SOFT FILL) |
| 1/15/2008 | 18:00 - 06:00 | 12.00 | DRL | 1 | DRILL FROM 11,742 TO 11,865 (ROP 10.3' HR) WOB 5-10, DHRPM 120, MW 11.2 VIS 45 (SHAKERS BY PASSED) 12% LCM-NO SEEPAGE |
| | 06:00 - 16:00 | 10.00 | DRL | 1 | DRILL FROM 11,865 TO 11,954 (ROP 8.9' HR) WOB 6-16, MW 11.3, VIS 43, BGG 280 UNITS, 12% LCM |
| | 16:00 - 16:30 | 0.50 | RIG | 1 | SERVICE RIG, TOP DRIVE, BLOCKS, SWIVEL, (REPAIR POP OFF ON #1 PUMP) POP OFF- WENT OFF ON CONNECTION |
| 1/16/2008 | 16:30 - 06:00 | 13.50 | DRL | 1 | DRILL FROM 11,954 TO 12,100 (ROP 10.8) WOB 10-20, MW 11.5, VIS 48, 13% LCM BGG 25 UNITS-NO FLARE- NO SEEPAGE - RAISED MUD WT. DUE TO POSSIBLE FUTURE GAS - MUD WT. = 11.5 AND ONLY SEEPING AT 2-3 BBL.S PER HOUR - WILL HEAL UP WHILE DRILLING |
| | 06:00 - 14:30 | 8.50 | DRL | 1 | DRILL FROM 12,100 TO 12,240 (ROP 16.4' HR) WOB 15, MW 11.5, VIS 48, BGG 250 ON BUSTER, HAVE ALOT OF SLIP STICK |
| | 14:30 - 15:00 | 0.50 | RIG | 1 | SERVICE RIG SWIVEL, TOPDRIVE (FIXED SEAT IN #2 MUD PUMP) |
| | 15:00 - 18:00 | 3.00 | DRL | 1 | DRILL FROM 12,240 TO 12,270 (ROP 10' HR) RUNNING ALL DIFFERNT PERAMETERS TO RID SLIP STICK |
| | 18:00 - 06:00 | 12.00 | DRL | 1 | DRILL FROM 12,270 TO 12,404 (11.2' HR) WOB 18 MW 11.5, VIS 48 LCM 12% BGG 1980 OFF BUSTER, STILL HAVE SLIP STICK, |
| 1/17/2008 | 06:00 - 09:00 | 3.00 | DRL | 1 | DRILL F/ 12,404' TO 12,431' (27' @ 9 FPH) WOB 15. MUD WT 11.6 PPG BGG 425 |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34-7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release: 2/19/2008
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|---------------|---------------|---------------|------|----------|--|
| 1/17/2008 | 06:00 - 09:00 | 3.00 | DRL | 1 | UNITS STILL HAVE SLIP STICKING |
| | 09:00 - 09:30 | 0.50 | RIG | 1 | RIG SERVICE |
| | 09:30 - 18:00 | 8.50 | DRL | 1 | DRILL F/ 12,431' TO 12,575' (144' @ 17 FPH) WOB 15 MUD WT 11.7 PPG VIS 42 |
| | 18:00 - 01:00 | 7.00 | DRL | 1 | DRILL F/ 12,575' TO TD @ 12,675' (100' @ 14.2 FPH) WOB 15 MUD WT 1.7 PPG VIS 44 |
| | 01:00 - 03:00 | 2.00 | CIRC | 1 | CIR. & CONDITION HOLE FOR SHORT TRIP |
| | 03:00 - 05:00 | 2.00 | TRP | 15 | CONDITION TRIP (TIGHT HOLE @ 11,588' TO 11,584) BACK REAM THROUGH TIGHT SPOT & WORK STRING UNTIL HOLE CONDITION WAS GOOD |
| 1/18/2008 | 05:00 - 06:00 | 1.00 | TRP | 15 | TRIP BACK TO BOTTOM |
| | 06:00 - 07:00 | 1.00 | TRP | 14 | FINISH WIPER TRIP (W/ NO RESISTANCE) |
| | 07:00 - 07:30 | 0.50 | REAM | 1 | WASH & REAM F/ 12,590' TO TD @ 12,675' (8' FILL) |
| | 07:30 - 10:00 | 2.50 | CIRC | 1 | CIR. & CONDITION HOLE (SPOT HEAVY PILL ON BOTTOM) |
| | 10:00 - 17:30 | 7.50 | TRP | 2 | TRIP OUT OF HOLE (STRAP ALL D.P.) L/D MONEL & MOTOR BREAK OFF BIT |
| | 17:30 - 19:00 | 1.50 | LOG | 1 | RIG UP HAL. TO LOG |
| | 19:00 - 00:30 | 5.50 | LOG | 1 | LOG 8 1/2" HOLE W/ TRIPLE COMBO W/ NO RESISTANCE & NO FILL ON BOTTOM TAG BOTTOM W/ LOGGING TOOLS @ 12,674' TD @ 12,675' |
| | 00:30 - 01:30 | 1.00 | LOG | 1 | RIG DOWN HAL. LOGGING EQUIPMENT |
| | 01:30 - 06:00 | 4.50 | TRP | 2 | M/UP 8 1/2" CONE BIT & BIT SUB W/ FLOAT TIH SLICK (FILL UP PIPE EVERY 2500') |
| | 1/19/2008 | 06:00 - 12:00 | 6.00 | TRP | 15 |
| 12:00 - 12:30 | | 0.50 | REAM | 1 | SAFETY WASH F/ 12,587' TO 12,675' W/ NO RESISTANCE |
| 12:30 - 15:00 | | 2.50 | CIRC | 1 | CIR. & CONDITION HOLE & PUMP SPOT HEAVY PILL ON BOTTOM HOLD S/M W/ ROCKY M. LAY DOWN CREW & R/UP LAY DOWN MACHINE |
| 15:00 - 03:00 | | 12.00 | TRP | 5 | TOH LAYING DOWN ALL TUBULARS & BHA. |
| 03:00 - 04:00 | | 1.00 | TRP | 2 | PULL WEAR BUSHING |
| 1/20/2008 | 04:00 - 06:00 | 2.00 | CSG | 1 | RIG UP 7" CSG EQUIPMENT |
| | 06:00 - 17:00 | 11.00 | CSG | 2 | RUN 7" CASING (29 # LTC P 110) SHOE, TWO JTS & F/C TOTAL OF 78 JTS # 29 P110 LT&C ONE MARKER JT. 200 JTS (26 # LT&C P-110) & LAND JT. CIR. & CONDITION HOLE & CUT MUD WT BACK TO 11.5 PPG DURING CUTTING MUD WT TO 11.5 PPG LOST RETURNS ATT. TO RE-ESTABLISH RETURNS NO SUCCESS |
| 1/21/2008 | 06:00 - 15:30 | 9.50 | CSG | 2 | MUDVOL. GOT VERY LOW STOP CIR. TO BUILD MUD VOL CONTINUE TO WORK STRING WITH NO OVERPULL OR DOWN DRAG AFTER GETTING MUD VOL BUILT OBSERVE SLIGHT FLOW WITH OUT RUNNING MUD PUMPS CHECK MUD WT COMING OUT 11.1 PPG OBSERVE FOR 30 MIN. FLOW CONTINUE WITHOUT PUMPING SHUT IN WELL OBSERVE 0 PSI. OPEN WELL FLOW CHECK WELL STATIC ATT. TO CIR. AFTER PUMPING 25 TO 30 STKS PRESSURE WOULD INCREASE BLEED OFF PSI ATT. TO CIR. & WORK STRING W/NO PROBLEMS AFTER ABOUT TWO HOURS WAS UNABLE TO WORK CASING STRING & STILL NO RETURNS |
| | 15:30 - 22:30 | 7.00 | CMT | 2 | DRAIN BOPS LAND OFF CASING WITH CAMERON MAN. ATT. TO LAND OFF ISOLATION CMT TOOL OBSERVE TOOL 8" HIGH PULL OUT OF HOLE & GRIND DOWN THE BOTTOM SECTION OF BUSHING SPACER INSTALL & LAND OFF CMT TOOL SREW IN TIE DOWN BOLTS & P/TEST SEALS OK |
| | 22:30 - 00:00 | 1.50 | CMT | 1 | S/M & R/U HAL PRESSURE TEST CEMENT LINES TO 6000 PSI P/T N2 LINES TO 8000 PSI PUMP SPACER 40 BBLS PUMP 1 LEAD CMT 125 BBLS PUMP 2ND LEAD CEMENT 420 BBLS PUMP TAIL CMT 23.7 BBLS DROP TOP PLUG PUMP DISP. 483.3 OBM BUMP PLUG @ 1250 PSI PRESSURE UP TO 2000 PSI W/ NO FLOW BACK ATT. TO CAP CMT PUMP TOTAL 3 BBLS W/ 775 PSI BLEED OFF NO BACK FLOW |
| | 00:00 - 01:30 | 1.50 | CMT | 2 | R/D HAL CEMENT HEAD & LINES & POH & L/D ISOLATION CMT TOOL W/ L. JT. LAND DOWN ISOLATION CMT TOOL W/ L. JT. |
| | 01:30 - 06:00 | 4.50 | BOP | 1 | CHANGE OUT UPPER & LOWER PIPE RAMS TO 3 1/2" X 5" VARIABLE RAMS |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release: 2/19/2008
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|-----------|--------------------------------|--------------|------------|----------|---|
| 1/22/2008 | 06:00 - 08:00 | 2.00 | BOP | 1 | FINISH INSTALLING UPPER VAR. PIPE RAMS & TIGHT UP BOP RAMS DOORS REMOVE OLD LOW PRESSUE ROTATING HEAD & REPLACE W/ NEW HIGH PRESSURE ROTATING HEAD & TRANSFER MUD FROM MUD TANKS & CLEAN TANKS & LINES FOR OIL BASE MUD INSTALL NEW EATON BREAK CONTROL VALVE @ DRILLER CONSOLE & REPLACE ALL AIR BREAK LINES F/ 3/8" TO 1/2" & HYDRAULIC BREAK LINES F/ CHINESE TO AMERICAN MADE HOSE & FITTING CONTINUE TO PREPARE MUD TANKS & RIG FOR OIL BASE MUD REMOVE RIG FLOOR PLATES & LOWER DRILLER SIDE BOP WINCH BEAM & INSTALL DRIP PAN UNDER ROTARY TABLE FOR OIL BASE MUD P/TEST IBOP TOP DRIVE VALVE W/ 250 PSI LOW & 10000 PSI HIGH M/UP TEST PLUG & ATT. TO LAND TEST PLUG IN WELL HEAD TEST PLUG WOULD NOT PASS THROUGH LOWER PACK OFF ASSEMBLY ON HIGH PRESSURE ROTATE HEAD (CALLED SMITH ROTATE ENG. THEY WAS UNABLE TO HELP OVER THE PHONE) SMITH ENG. ARRIVED ON LOCATION @ 0435 HRS, AGREED TO PULL OUT THE COMPLETE ROTATING HEAD ASSEMBLY TO INSPECT & CHECK (ID) REMOVE SMITH ROTATE HEAD & LEAVE R. HEAD OUT FOR TESTING BOPS PULL WEAR BUSHING TO TEST BOPS P/TEST BOPS W/ 250 PSI LOW & 10,000 PSI HIGH P/TEST ANN. W/ 250 PSI & 5000 PSI HIGH P/CASING TO 1500 PSI -OK INSTALL WEAR BUSHING HOLD S/M R/UP HAL. & PICK UP CBL LOGGING TOOLS RIH W/ TOOLS TO 1050' LOGGING TOOL FAILED POH CHANGE OUT SENSOR ON TOOL RIH W/ TOOLS LOG HOLE FOUND TOP OF CEMENT @ 9,900' POH W/ LOGS & L/D TOOLS R/D HAL. INSTALL DRIP PAN UNDER NEATH ROTARY FOR OIL BASE MUD & INSTALL DRAIN HOSES TO CELLAR PICK UP 6 1/8 BHA & NEW 4" XT-39 PIPE (MAKE UP & BREAK OUT & RE-TORQUE) ALL CONNECTIONS INCLUDING BHA CONTINUE TO PICK UP 6 1/8 BHA & NEW DRILL PIPE RIG SERVICE TOH STAND 4" DRILL PIPE IN DERRICK TO BE USED TO DRILL 6 1/8 HOLE & PREPARE TO PICK 4" DRILL PIPE, NUMBER & STRAP CONTINUE TO PICK UP 4" DRILL PIPE TRIP STAND 4" DRILL PIPE IN DERRICK STRAP DRILL PIPE ON RACK CHANGE OUT HYDRAULIC HOSE ON CAT HEAD PICK UP 4" DRILL PIPE TRIP OUT OF HOLE RACK BACK 4" DRILL PIPE STRAP & PICK UP 4" DRILL PIPE ATT. TO FILL UP PIPE MUD LINES FROZE UP THAW OUT MUD LINES TO RIG FLOOR CONTINUE TO UNTHAW MUD LINES TO RIG FLOOR ATT. TO FILL PIPE STRING PRESSURE UP TRY TO UNPLUGGED STRING WITH NO SUCCESS TRIP OUT HOLE SLOW (WET STRING) FOUND STEEL SHAVING @ FLOAT IN TOP OF MOTOR ALL PIPE WAS DRIFT DURING PICKING UP PIPE L/D MOTOR & PICK UP NEW MOTOR TRIP IN HOLE W/ 6 1/8 ASSEMBLY & 4" DRILL PIPE P/UP PICK UP 4" DRILL PIPE CONTINUE TO PICK UP 4" XT-39 DRILL PIPE TO 12,540' BREAK CIR. RIG DOWN LAY DOWN MACHINE CHANGE OUT OIL IN TOP DRIVE |
| | 08:00 - 15:00 | 7.00 | BOP | 1 | |
| | 15:00 - 21:00 | 6.00 | RIG | 2 | |
| | 21:00 - 00:00 | 3.00 | OTH | | |
| | 00:00 - 01:30 01:30 - 06:00 | 1.50 4.50 | BOP OTH | 2 | |
| 1/23/2008 | 06:00 - 08:00 | 2.00 | BOP | 1 | |
| | 08:00 - 09:00 | 1.00 | BOP | 1 | |
| | 09:00 - 14:00 | 5.00 | BOP | 2 | |
| | 14:00 - 15:00 15:00 - 21:00 | 1.00 6.00 | OTH LOG | 2 | |
| | 21:00 - 01:30 01:30 - 06:00 | 4.50 4.50 | OTH TRP | 1 | |
| 1/24/2008 | 06:00 - 16:30 | 10.50 | TRP | 2 | |
| | 16:30 - 17:00 | 0.50 | RIG | 1 | |
| | 17:00 - 18:00 | 1.00 | TRP | 2 | |
| | 18:00 - 20:00 | 2.00 | TRP | 2 | |
| | 20:00 - 21:00 | 1.00 | TRP | 2 | |
| | 21:00 - 22:00 | 1.00 | RIG | 2 | |
| | 22:00 - 02:00 | 4.00 | TRP | 2 | |
| | 02:00 - 02:30 | 0.50 | TRP | 2 | |
| | 02:30 - 05:00 | 2.50 | TRP | 2 | |
| | 05:00 - 06:00 | 1.00 | OTH | | |
| 1/25/2008 | 06:00 - 09:00 | 3.00 | OTH | | |
| | 09:00 - 14:30 | 5.50 | TRP | 2 | |
| | 14:30 - 16:30 | 2.00 | TRP | 1 | |
| | 16:30 - 18:30 | 2.00 | TRP | 2 | |
| 1/26/2008 | 18:30 - 06:00 | 11.50 | TRP | 2 | |
| | 06:00 - 08:00 | 2.00 | TRP | 2 | |
| | 08:00 - 09:00 09:00 - 11:00 | 1.00 2.00 | LOC RIG | 4 2 | |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34- 7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release: 2/19/2008
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|---------------|---------------|-------|------|---|---|
| 1/26/2008 | 11:00 - 21:00 | 10.00 | OTH | | CARRY OUT LOAD PATH INSPECTION ON COMPLETE TOP DRIVE W/ THIRD PARTY COMMON SENSE INSPECTION COMPANY |
| | 21:00 - 22:00 | 1.00 | TRP | 2 | ATTEMPT TO INSTALL HIGH PRESSURE ROTATING HEAD HYDRAULIC CLAMP NOT FUNCTIONING PROPERLY |
| | 22:00 - 01:00 | 3.00 | RIG | 6 | CUT & SLIP DRILLING LINE |
| | 01:00 - 06:00 | 5.00 | OTH | | ATT.TO REPAIR HIGH PRESSURE ROTATING HEAD W/ NO SUCCESS PULL ROTATE HEAD & REPLACE WITH OLD TYPE ROTATE HEAD |
| 1/27/2008 | 06:00 - 07:00 | 1.00 | OTH | | CHANGED OUT SMITH HIGH PRESSURE ROTATING HEAD & BEARING ASSEMBLY TO THE OLD TYPE (MANUAL CLAMP TYPE) NOT HYDRAULIC |
| | 07:00 - 09:00 | 2.00 | DRL | 4 | DRILL SHOE TRACK EQUIPMENT |
| | 09:00 - 09:30 | 0.50 | DRL | 1 | DRILL F/ 12670' TO 12680' NEW HOLE |
| | 09:30 - 10:30 | 1.00 | CIRC | 1 | CIR. & CONDITION MUD |
| | 10:30 - 12:30 | 2.00 | OTH | | CONDUCT FIT TO 16 PPG EQUIVALENT |
| | 12:30 - 15:00 | 2.50 | DRL | 1 | DRILL F/ 12,680' TO 12,730' DURING MAKING MOUSEHOLE CONNECTION WELL STARTED FLOWING SHUT IN WELL OBSERVE PRESSURE 50 PSI W/ 8400 UNITS OF GAS PRESENT MUD WT 11.7 PPG |
| | 15:00 - 21:00 | 6.00 | WCL | 1 | CIR. OUT GAS KICK RAISE MUD WT TO 12.3 PPG FLOW CHECK WELL STATIC |
| 21:00 - 06:00 | 9.00 | DRL | 1 | DRILL F/ 12,730' TO 12,910' (180' @ 20' FPH) WOB 12 - 16 MUD WT 13.0 PPG VIS 48 BG GAS 275 UNITS W/ NO LOSSES | |
| 1/28/2008 | 06:00 - 06:00 | 24.00 | DRL | 1 | DRILL F/ 12,910' TO 13,305' (395' @ 16.5' FPH) WOB 18 - 20 K MUD WT 13.3 PPG VIS 46 BG 350 UNITS CONNECTION GAS 2550 UNITS W/ NO LOSSES & NO HOLE PROBLEMS (MANCOS B TOP @ 13052') PROJECTED TOP @ 12570' |
| 1/29/2008 | 06:00 - 13:00 | 7.00 | DRL | 1 | DRILL F/ 13,305' TO 13,402' MOTOR KEEP STALLING OUT (97' @ 13.8 FPH) WOB 15-20K MUD WT 13.3 PPG VIS 45 NO LOSSES BG 685 UNITS CONNECTION GAS 2850 UNITS |
| | 13:00 - 16:00 | 3.00 | CIRC | 1 | CIR. & CLEAN HOLE SPOT HEAVY PILL ON BOTTOM |
| | 16:00 - 17:30 | 1.50 | TRP | 2 | TRIP OUT OF HOLE W/ 6 1/8 ASSEMBLY TO 11,180' |
| | 17:30 - 18:00 | 0.50 | RIG | 1 | SERVICE RIG |
| | 18:00 - 23:30 | 5.50 | TRP | 2 | CONTINUE TO TRIP OUT OF HOLE TO CHANGE OUT MOTOR & BIT |
| | 23:30 - 00:30 | 1.00 | TRP | 1 | CHANGE OUT MUD MOTOR & BIT |
| | 00:30 - 02:00 | 1.50 | TRP | 2 | TRIP IN HOLE BHA FILL PIPE & TEST MUD MOTOR OK |
| 1/30/2008 | 02:00 - 06:00 | 4.00 | TRP | 2 | TRIP IN HOLE & FILL PIPE EVERY 3000' |
| | 06:00 - 06:30 | 0.50 | RIG | 1 | RIG SERVICE & CHANGE OUT SAVER SUB |
| | 06:30 - 09:30 | 3.00 | TRP | 2 | CONTINUE TO TRIP IN HOLE W/ 6 1/8 ASSEMBLY TO 13,207' |
| | 09:30 - 10:00 | 0.50 | REAM | 1 | SAFETY WASH & REAM F/ 13,207' TO 13,402' W/ NO RESISTANCE |
| | 10:00 - 18:00 | 8.00 | DRL | 1 | DRILL F/ 13,402' TO 13,690' (288' @ 36 FPH) WOB 5 TO 8 MUD WT 13.4 VIS 46 |
| 1/31/2008 | 18:00 - 06:00 | 12.00 | DRL | 1 | DRILL F/ 13,690' TO 14,045' (355' @ 29.6 FPH) WOB 6 TO 10 MUD WT 13.7 PPG VIS 45 W/ NO LOSSES BG 955 UNITS CONNECTION GAS 3150 UNITS |
| | 06:00 - 17:30 | 11.50 | DRL | 1 | DRILL FROM 14,045 TO 14,354 (ROP 26.8' HR) WOB 7-10, DHRPM 90, BG GAS 800 UNITS, CON-GAS 3000 UNITS, MW 13.8, VIS 44,(RAISING WT SLOWLY WITH BACK GROUND AND UP COMING GAS APROX @ 14,700 |
| | 17:30 - 18:00 | 0.50 | RIG | 1 | SERVICE RIG, TOP DRIVE, (WORK ON COMPENSATOR) |
| | 18:00 - 06:00 | 12.00 | DRL | 1 | DRILL FROM 14,354 TO 14,715 (ROP 30' HR) WOB 9-10, DHRPM 90, BG GAS 472UNITS, CON-GAS 1863, MW 14.5, VIS 50, EXPECTING GAS ANYTIME (DAYLIGHT DRILLER SHORT 1 HAND) |
| 2/1/2008 | 06:00 - 11:00 | 5.00 | DRL | 1 | DRILL FROM 14,715 TO 14,831 (ROP 23.2' HR) WOB 8-10, DHRPM 90, MW 14.5, VIS 49, BG GAS 800 UNITS, CONNECTION GAS 2800 UNITS, NO FLARE, GAIN 10 BBL.S |
| | 11:00 - 11:30 | 0.50 | RIG | 1 | SERVICE RIG AND TOP DRIVE, BLOCKS, SWIVEL, |
| | 11:30 - 06:00 | 18.50 | DRL | 1 | DRILL FROM 14,831 TO 15,440 (ROP 32.9' HR) WOB 8-10, DHRPM 90, MW 14.5, VIS 49, BG GAS 1683, CONECTION GAS 3000 (10' FLARE), EASING MW TO 14.7 |
| 2/2/2008 | 06:00 - 14:30 | 8.50 | DRL | 1 | DRILL FROM 15,440 TO 15,689 (ROP 29.3' HR) |

Operations Summary Report

Well Name: RW 34-34AD
 Location: 34-7-S 22-E 26
 Rig Name: UNIT

Spud Date: 11/22/2007
 Rig Release: 2/19/2008
 Rig Number: 328

| Date | From - To | Hours | Code | Sub Code | Description of Operations |
|----------|---------------|-------|------|----------|---|
| 2/2/2008 | 14:30 - 15:00 | 0.50 | RIG | 1 | SERVICE RIG AND TOP DRIVE, SWIVEL, FIX HYDRALIC LEAK ON BRAKE LINE |
| | 15:00 - 18:30 | 3.50 | DRL | 1 | DRILL DROM 15,689 TO 15,790 (ROP 28.9' HR) |
| 2/2/2008 | 18:30 - 20:30 | 2.00 | CIRC | 1 | CIRCULATE GAS OUT OF WELL APROX. 80 BBL GAIN, FLARE 6', SPLASHING OUT POSSUM BELLY WITH GAS, SHUT IN AND TRIED TO CHOKE OUT WITH OUT MAKING MESS , 1460 PSI CASING PRESSURE BRING MUD WEIGHT UP--LOST 260 BBLs. |
| | 20:30 - 06:00 | 9.50 | DRL | 1 | DRILL THROUGH CHOKE FROM 15,790 TO 16,045 (ROP26.8' HR) BOTTOMS UP GAS HAS A GOOD PUSH TO IT GAIN 30 BBL. SURGING AT POSSUM BELLY/ SPLASHING MUD 5'-7' INTO AIR MUD WT 15.3 IN AND 15.0 OUT ---HAVE HAD A GREAT SHOW @ 15,739 |
| 2/3/2008 | 06:00 - 06:30 | 0.50 | DRL | 1 | DRILL THROUGH CHOKE FROM 16,045 TO 16,072 (ROP 54' HR) WOB 10, DHRPM 90, MW 15.3, START LOSSING CIRCULATION WITH ANYTHING OVER 15.3- |
| | 06:30 - 09:00 | 2.50 | CIRC | 1 | STARTED TO LOSS CIRCULATION 20 BBL HR. BEFORE CONNECTION BUILT LCM SWEEP 10%. |
| | 09:00 - 13:30 | 4.50 | DRL | 1 | DRILL THROUGH CHOKE FROM 16,072 TO 16,170 (ROP 21.7' HR) WOB 10, DHRPM 90, MW 15.2+, ON CONNECTION BOTTOMS UP HAVE SOME MAJOR GAS CONNECTION FLARE 25', GAS 5019 UNITS, |
| | 13:30 - 14:30 | 1.00 | OTH | | ON CONNECTION FLOAT WOULDN'T HOLD FLOWING BACK, HAD 480 PSI ON BACK SIDE, CIRULATED A BOTTOMS UP AND SLAP FLOAT TO SEE IF IT WOULD WORK (NO GO) |
| | 14:30 - 18:00 | 3.50 | CIRC | 1 | CIRCULATE MUD INTO SHAPE 15.3 MW (HAD SOME LIGHT SPOTS) AND BUILD ECD PILL AND TRIP SLUG (SHORT HANDED TWO HANDS AND HANDS WE ARE TRYING) |
| | 18:00 - 18:30 | 0.50 | CIRC | 1 | SPOT ECD SLUG (17.5 PPG COVERED 2500 FT OF OPEN HOLE) |
| | 18:30 - 02:30 | 8.00 | TRP | 13 | TRIP FOR FLOAT FAILURE, COULDN'T MAKE CONNECTION, BECAUSE OF PRESSURE ON BACK SIDE |
| | 02:30 - 03:30 | 1.00 | TRP | 1 | LAYDOWN AND PICK UP MUD MOTOR AND BIT (404Z+)(FUNCTION TEST BLIND RAMS AND PIPES) |
| | 03:30 - 05:00 | 1.50 | TRP | 13 | TRIP IN HOLE WITH NEW MOTOR AND BIT (SURFACE TEST MOTOR)--BHA PICKING UP 15 JOINT OF DRILL PIPE TO HAVE ENOUGH TO TD WELL HAVING TO MAKE AND BREAK PIPE (NEW PIPE) |
| | 05:00 - 06:00 | 1.00 | OTH | | |
| 2/4/2008 | 06:00 - 11:00 | 5.00 | TRP | 13 | PICK UP 15 JOINT'S OF DRILL PIPE(TO HAVE ENOUGH TO TD WELL-MAKE AND BREAK NEW PIPE, TRIP IN HOLE FILL PIPE EVERY 4000 FT |
| | 11:00 - 12:30 | 1.50 | CIRC | 1 | CIRCULATE BOTTOMS UP AT SHOE/ 3/8 CHOKE 40 FLARE, PEAK GAS UNITS 7696, 416 ON CASING |
| | 12:30 - 13:30 | 1.00 | TRP | 13 | TRIP IN HOLE 14,200 AND BREAK CIRCULATION TO GET HALF 17.5 MUD INTO CASING |
| | 13:30 - 14:00 | 0.50 | CIRC | 1 | CIRCULATE HEAVY MUD INTO CASING |
| | 14:00 - 15:00 | 1.00 | TRP | 13 | TRIP INTO 15,896 TAG BRIDGE |
| | 15:00 - 17:00 | 2.00 | REAM | 1 | WASH AND REAM FROM 15896 TO 16,170, HAD TO SHUT IN TO CIRCULATE GAS OUT WHEN BOTTOMS UP CAME, ON 3/8 CHOKE, 70' FLARE (5-7 MINUTES OF DRY GAS-NO RETURNS) 1092 CASING PRESSURE GAS UNITS PEAK 5503 |
| | 17:00 - 06:00 | 13.00 | DRL | 1 | DRILL THRU CHOKE FROM 16,170 TO 16,505 (ROP 25.8' HR) WOB 5-8, ROT 81, ON CONNECTION MW15.3 VIS 54, DRILL WITH 7' FLARE, CONNECTION GAS FLARE 25-40 CASING 260 1/2 CHOKE (REAL GASSY) (DAKOTA PROG. 16778) |
| 2/5/2008 | 06:00 - 18:30 | 12.50 | DRL | 1 | DRILL FROM 16,505 TO 16,834 (ROP 26.32' HR)WOB 5-10, DHRPM 75, MW 15.3, VIS 48, BG 2500 UNITS |
| | 18:30 - 19:00 | 0.50 | RIG | 1 | SERVICE RIG, TOP DRIVE, SWIVEL |
| | 19:00 - 05:00 | 10.00 | DRL | 1 | DRILL FROM 16,834 TO 16,932(ROP 8.9' HR) (DAKOTA SILT @ 16,798) WOB 5-15, DHRPM 55-105, MW 15.3, VIS 48, BG 2500 UNITS |
| | 05:00 - 06:00 | 1.00 | SUR | 1 | DROP SURVEY AND CIRCULATE BOTTOMS UP |

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| Date | From - To | Hours | Code | Sub Code | Description of Operations | |
|---------------|---------------|---------------|---------------|----------|---|--|
| 2/6/2008 | 06:00 - 08:30 | 2.50 | CIRC | 1 | CIRC. BTMS UP & SPOT 150 BBL 17.5 ECD SLUG 3957' OF OPEN HOLE | |
| | 08:30 - 16:30 | 8.00 | TRP | 10 | TOOH TO SHOE @ 12646' (SHOE) CHECK FOR FLOW PUMP DRY SLUG FINISH TOOH | |
| | 16:30 - 17:30 | 1.00 | TRP | 1 | HANDLE BHA L/D MOTOR, XO AND P/U BIT SUB, BREAK AND MAKE NEW BIT | |
| | 17:30 - 18:00 | 0.50 | RIG | 1 | SERVICE RIG T/D, DRAW WORKS | |
| | 18:00 - 01:00 | 7.00 | TRP | 10 | TIH W/ BIT #19 FILL @ | |
| | 01:00 - 03:00 | 2.00 | CIRC | 1 | CIRC B/U @ SHOE 3500 STKS NO PIT GAIN OR FLARE | |
| | 03:00 - 05:30 | 2.50 | RIG | 6 | CUT & SLIP 130' OF DRILL LINE | |
| | 05:30 - 06:00 | 0.50 | TRP | 10 | CONT TIH-SLOW | |
| | 2/7/2008 | 06:00 - 07:00 | 1.00 | TRP | 10 | TIH TO 14622' |
| | | 07:00 - 07:30 | 0.50 | TRP | 10 | FILL PIPE & CIRC. 1000 STKS |
| 07:30 - 08:30 | | 1.00 | TRP | 10 | TIH TO 16812' | |
| 08:30 - 09:00 | | 0.50 | REAM | 1 | SAFETY WASH & REAM F/16812' TO 16932' (NO HOLE FILL) | |
| 09:00 - 09:30 | | 0.50 | DRL | 1 | DRILL F/ 16932' TO 16937' (ROP 10' HR) LOSING MUD TOTAL OF 160 BBL.S LOST | |
| 09:30 - 12:00 | | 2.50 | CIRC | 2 | MIX LCM & SPOT LCM PILL ON BTM. | |
| 12:00 - 12:30 | | 0.50 | TRP | 15 | TOOH TO 16609', SI WELL DUE TO FLOW | |
| 12:30 - 14:30 | | 2.00 | CIRC | 1 | CIRC OUT GAS REGAIN 90% RETURNS | |
| 14:30 - 15:00 | | 0.50 | TRP | 2 | TRIP IN HOLE AND WASH LAST STAND DOWN, | |
| 15:00 - 06:00 | | 15.00 | DRL | 1 | DRILL FROM 16,932 TO 16,994 (ROP 4.1' HR) | |
| 2/8/2008 | 06:00 - 07:30 | 1.50 | DRL | 1 | DRILL F/ 16994' TO 16998' (4' 2.6 AVG ROP) | |
| | 07:30 - 09:00 | 1.50 | CIRC | 1 | SPOT 160 BBL.S OF 15% LCM, 17.5 PPG OBM | |
| | 09:00 - 16:30 | 7.50 | TRP | 10 | TOOH W/ BIT #19 | |
| | 16:30 - 17:00 | 0.50 | TRP | 10 | HANDLE BHA & B/O BIT | |
| | 17:00 - 17:30 | 0.50 | RIG | 1 | RIG SERVICE, BLOCKS, SWIVEL, TOP DRIVE | |
| | 17:30 - 18:00 | 0.50 | TRP | 10 | M/U BIT #20 & TIH W/ BHA FILL @ 3630, 8855, 12600, 14,673 | |
| | 18:00 - 21:30 | 3.50 | TRP | 10 | TIH BHA AND DP TO 3630 | |
| | 21:30 - 22:00 | 0.50 | RIG | 2 | REPAIR TOP DRIVE DIE KEEPER | |
| | 22:00 - 00:00 | 2.00 | TRP | 10 | TRIP IN HOLE AND INSTALL ROTATING HEAD @ SHOE | |
| | 00:00 - 01:00 | 1.00 | CIRC | 1 | CIRCULATE BOTTOMS UP @ SHOE | |
| 2/9/2008 | 01:00 - 02:00 | 1.00 | TRP | 10 | TRIP IN HOLE 20 STANDS SLOW TO 14,673 | |
| | 02:00 - 03:30 | 1.50 | CIRC | 1 | CIRCULATE BOTTOMS UP- STAGE UP PUMP, TRY NOT TO KNOCK BOTTOMS OUT OF HOLE, GET HEAVY MUD OUT OF HOLE -HAD 35' FLARE | |
| | 03:30 - 05:00 | 1.50 | TRP | 10 | TRIP IN HOLE SLOW TO 16,905 (HOLE WAS CLEAN) | |
| | 05:00 - 06:00 | 1.00 | REAM | 1 | WASH AND REAM F/ 16,905 TO 16,998 WHILE CIRCULATE BOTTOMS UP, STAGE UP PUMP | |
| | 2/9/2008 | 06:00 - 07:00 | 1.00 | CIRC | 1 | CONT TO CIRC OUT BTMS UP 28 BBL GAIN W/50' FLARE |
| | | 07:00 - 18:00 | 11.00 | DRL | 1 | DRILL F/ 16998' TO 17038' (ROP 3.6' HR) WOB 6-7, DH RPM 65-75 MW 15.1 VIS. 48 BGG 595 NO FLARE |
| | | 18:00 - 21:00 | 3.00 | DRL | 1 | DRILL F/ 17038' TO 17052' (ROP 4.6 HR) WOB 7-9, RPM 65 75 MW 15.1 VIS 48 BGG 55 NO FLARE PARTIAL FLUID LOSS @ 17045' - 17051' 108 BBLs |
| | | 21:00 - 21:30 | 0.50 | RIG | 1 | RIG SERVICE ATTEMPT TO REPAIR D/W BRAKE LINE |
| | 2/10/2008 | 21:30 - 06:00 | 8.50 | DRL | 1 | DRILL F/ 17052' TO 17086' (ROP 4' HR) WOB 7-9, DH RPM 65-75, MW 15.1, VIS 47 BGG 102 NO FLARE |
| | | 2/10/2008 | 06:00 - 23:00 | 17.00 | DRL | 1 |
| 23:00 - 00:00 | | | 1.00 | FISH | 6 | WORK STUCK PIPE @ 17152' SLACK OFF 50 K DOWN, PULLED OUT FREE W/ 85K OVER @ 305K |
| 2/11/2008 | | 00:00 - 02:30 | 2.50 | CIRC | 1 | CIRC & BUILD ECD SLUG TO 17.5 PPG 180 BBLs & SPOT SAME. |
| | 02:30 - 05:00 | 2.50 | TRP | 10 | TOH F/ 17152' TO 12464' (SHOE) CHECK FOR FLOW , PULL ROTATE HEAD | |
| | 05:00 - 06:00 | 1.00 | TRP | 10 | CONT TO TOH | |
| | 06:00 - 10:00 | 4.00 | TRP | 10 | TRIP OUT OF HOLE | |

CONFIDENTIAL

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|---------------|---------------|---------------|------|----------|---|--|
| 2/11/2008 | 10:00 - 11:00 | 1.00 | TRP | 10 | BREAK BIT AND BIT SUB AND CHANGE OUT FLOATS (CLEAN RIG FLOOR)AND MAKE UP NEW BIT (BIT MISSING 2 RETAINERS AND ONE JET) | |
| | 11:00 - 17:00 | 6.00 | TRP | 10 | TRIP IN HOLE WITH NEW BIT, FILL @ 3975, 9200, 12660 (SHOE) | |
| | 17:00 - 18:00 | 1.00 | CIRC | 1 | CIRCULATE BOTTOMS UP @SHOE 40' FLARE ON FLOW LINE BUSTER | |
| | 18:00 - 19:00 | 1.00 | TRP | 10 | TRIP IN HOLE TO 14, 604 (SLOW) | |
| | 19:00 - 20:00 | 1.00 | CIRC | 1 | CIRCULATE BOTTOMS UP 20' FLARE | |
| | 20:00 - 21:00 | 1.00 | TRP | 10 | TRIP IN HOLE TO 16,050 (SLOW) | |
| | 21:00 - 21:30 | 0.50 | CIRC | 1 | CIRCULATE 1500 STROKE TO GET SWEEP INTO CASING | |
| | 21:30 - 22:30 | 1.00 | TRP | 10 | TRIP IN HOLE TO 16,960 (SLOW) | |
| | 22:30 - 00:00 | 1.50 | CIRC | 1 | CIRCULATE BOTTOMS UP, 25 BBL GAIN, 35' FLARE AND 117 PSI ON CASING | |
| | 00:00 - 01:00 | 1.00 | REAM | 1 | WASH AND REAM FROM 16,960 TO 17,152--HAD 8' OF HARD REAMING | |
| | 01:00 - 06:00 | 5.00 | DRL | 1 | DRILL FROM 17,152 TO 17165' (ROP 2.6' HR) WOB 4-10, DHRPM 70, MW- 15.0, VIS-48, WORKING ALL DIFFERNT PERAMETERS TO GET TO DRILL | |
| 2/12/2008 | 06:00 - 11:30 | 5.50 | DRL | 1 | DRILL FROM 17,165 TO 17,177 (2.4' HR) WOB 8-14 DH RPM 45-70 MW 15.0 VIS 48 | |
| | 11:30 - 12:30 | 1.00 | CIRC | 1 | CIRCULATE AND SPOT ECD SLUG (17.5--170 BBL.S) COVER OPEN HOLE | |
| | 12:30 - 19:00 | 6.50 | TRP | 10 | TRIP OUT OF HOLE WITH BIT #21 DSX711 | |
| | 19:00 - 20:00 | 1.00 | TRP | 1 | CHANGE BIT AND FLOAT IN BIT SUB--(ALOT OF MARKINGS ON THE SIDE OF MONEL WHERE JUNK HAS BEEN BESIDE IT) | |
| | 20:00 - 01:00 | 5.00 | TRP | 10 | TRIP IN HOLE FILL PIPE @ 4906', 10168' | |
| | 01:00 - 02:00 | 1.00 | RIG | 6 | CUT & SLIP DRILL LINE | |
| | 02:00 - 03:30 | 1.50 | CIRC | 1 | CIRC BTMS UP @ 12,606 (SHOE) 1813 UNITS NO FLARE | |
| | 03:30 - 04:30 | 1.00 | TRP | 10 | TIH TO 14896' | |
| | 04:30 - 06:00 | 1.50 | CIRC | 1 | CIRCULATE BOTTOMS UP @ 14896 4000 UNITS 35' FLARE | |
| | 2/13/2008 | 06:00 - 07:30 | 1.50 | TRP | 10 | TRIP IN HOLE TO 17,090 |
| | | 07:30 - 08:30 | 1.00 | CIRC | 1 | CIRCULATE HEAVY SLUG OUT OF HOLE |
| 08:30 - 09:00 | | 0.50 | REAM | 1 | SAFETY WASH AND REAM FROM 17,090 TO 17,177 (TORQUE WHEN ABOUT 3' OFF BOTTOM) | |
| 09:00 - 09:30 | | 0.50 | OTH | | FAN BOTTOM WITH 1-3 ON BIT AND WORK BIT WEIGHT UP SLOW | |
| 09:30 - 18:00 | | 8.50 | DRL | 1 | DRILL FROM 17,177 TO 17,209 (ROP 3.7' HR) WOB 23, RPM 60-75, MW 15.1, VIS 46, BG GAS 2400 UNITS | |
| 18:00 - 01:00 | | 7.00 | DRL | 1 | DRILL FROM 17,209 TO 17,227 OFF BOTTOM TQ 1500#, ON 2000-2800# (ROP 2.6' HR) WORK DIFFERNT PERAMETERS (LOST PARTIAL RETURNS 50 BBL. RIGHT A WAY) THEN SEEPED 180 BBL.S ALL TOGETHER -- TRIED TO GET BIT TO DRILL, STARTED TO GET MORE TORQUE THAN BEFORE-DECIDED TO PULL (BECAUSE OF DRILLING JUNK) | |
| 01:00 - 02:00 | | 1.00 | REAM | 1 | BREAK OFF DOUBLE AND BACK REAM FROM 17,186 TO 17,171 55K OVER | |
| 02:00 - 05:00 | | 3.00 | CIRC | 1 | PULL-ALSO STALLING OUT TOP DRIVE, JUNK ALONG SIDE DRILL STRING CIRCULATE WHILE BUILDING SLUG TO TRIP, AND SPOT 175 BBL. 17.5 SLUG IN OPEN HOLE | |
| 05:00 - 06:00 | | 1.00 | TRP | 10 | TOOH F/ 17215' TO 16,000 | |
| 2/14/2008 | | 06:00 - 12:00 | 6.00 | TRP | 2 | TRIP OUT OF HOLE F/ 15,348' & STAND BHA IN DERRICK BREAK OUT BIT |
| | | 12:00 - 13:00 | 1.00 | RIG | 1 | RIG SERVICE |
| | 13:00 - 22:30 | 9.50 | LOG | 1 | SAFETY MEETING & R/UP HAL. LOGGING EQUIPMENT LOG OPEN HOLE RUN # 1 GRAMMAR & SONIC RUN TO BOTTOM W/ NO HOLE PROBLEMS. LOGGED F/ 17212' - 12646' LOGGERS TD @ 17238'. RAN SPECTRAL DENSITY DUAL SPACED NEUTRON F/ 17235' - 12646', RIG DOWN LOGGERS | |
| | 22:30 - 23:00 | 0.50 | LOG | 4 | CHANGED OUT ROTATING HEAD FOR WIRELINE AND INSTALLED DRILLING ROTATING HEAD. | |
| | 23:00 - 03:00 | 4.00 | TRP | 15 | MAKE UP NEW BIT, RE DRESS FLOAT ASSEMBLY AND INSTALL CROWS FOOT, TIH. SLM. ATT. TO BREAK CIR. @ 2985' STRING PLUGGED | |
| 2/15/2008 | 03:00 - 06:00 | 3.00 | TRP | 2 | PULL OUT OF HOLE DUE TO PLUGGED STRING | |
| | 06:00 - 08:00 | 2.00 | TRP | 2 | PULL OUT OF HOLE DUE TO PLUGGED STRING | |

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 Rig Name: UNIT

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|-----------|---------------|-------|------|----------|--|
| 2/15/2008 | 08:00 - 14:00 | 6.00 | TRP | 2 | FOUND LCM PLUGGED OFF CROW FOOT & FLOAT CLEAN FLOAT & REDRESS FLOAT M/UP SAME RIH BHA BREAK CIR. FILL PIPE EVERY 300' SLM IN HOLE |
| | 14:00 - 16:00 | 2.00 | CIRC | 1 | CIR. OUT GAS @ CASING SHOE 2,915 UNITS OF GAS |
| | 16:00 - 17:00 | 1.00 | TRP | 2 | TRIP IN HOLE TO 15,008' |
| | 17:00 - 19:00 | 2.00 | CIRC | 1 | CIR. OUT GAS TOTAL 2,855 UNITS |
| | 19:00 - 20:30 | 1.50 | TRP | 15 | TRIP IN HOLE TO 17106' |
| | 20:30 - 01:00 | 4.50 | REAM | 1 | WASH & REAM F/ 17106' - 17227' SLM WAS 17227.4 |
| | 01:00 - 04:30 | 3.50 | CIRC | 1 | CIRCULATE AND CONDITION HOLE & SPOT 175 BBLs OF 17.5 PPG IN OPEN HOLE |
| 2/16/2008 | 04:30 - 06:00 | 1.50 | TRP | 2 | TRIP OUT OF HOLE TO SHOE & PREPARE TO LAY DN PIPE |
| | 06:00 - 08:00 | 2.00 | TRP | 2 | TRIP OUT TO CASING SHOE |
| | 08:00 - 09:00 | 1.00 | TRP | 3 | RIG UP LAY DOWN MACHINE |
| | 09:00 - 17:00 | 8.00 | TRP | 3 | LAY DOWN DRILL PIPE TO BHA |
| | 17:00 - 18:00 | 1.00 | TRP | 2 | RUN IN HOLE W/ DRILL PIPE FROM DERRICK |
| | 18:00 - 00:00 | 6.00 | TRP | 3 | LAY DOWN DRILL PIPE & BHA |
| | 00:00 - 00:30 | 0.50 | TRP | 2 | PULL HIGH PRESSURE BEAR ASSEMBLY |
| | 00:30 - 01:30 | 1.00 | TRP | 2 | PULL WEAR BUSHING |
| 2/17/2008 | 01:30 - 04:00 | 2.50 | CSG | 1 | R/UP ROCKY MOUNTAIN CASING CREW TO RUN 4.5 CASING |
| | 04:00 - 06:00 | 2.00 | CSG | 2 | S/M & M/UP SHOE & FLOAT COLLAR & PICK UP 4.5 CASING JTS. |
| | 06:00 - 07:30 | 1.50 | CSG | 2 | CHANGE OUT FILL UP TOOL |
| | 07:30 - 17:00 | 9.50 | CSG | 2 | PICK UP 4.5 CASING TO SHOE |
| | 17:00 - 19:00 | 2.00 | CIRC | 1 | CIR. OUT GAS @ CASING SHOE |
| | 19:00 - 01:00 | 6.00 | CSG | 2 | CONTINUE TO PICK UP 4.5 CASING |
| 2/18/2008 | 01:00 - 05:30 | 4.50 | CIRC | 1 | CIR. & CONDITION MUD REDUCE MUD WT TO 14.9 PPG & R/D CASING EQUIPMENT |
| | 05:30 - 06:00 | 0.50 | CSG | 1 | RIG DOWN FILL UP TOOL & R/UP HAL. CEMENT HEAD |
| | 06:00 - 10:30 | 4.50 | CMT | 2 | CIR. CASING & WAIT ON HAL. TO REPAIR CMT. PUMP TRUCK |
| | 10:30 - 16:00 | 5.50 | CMT | 2 | R/UP P/TEST LINES TO 12000 PSI PUMP 20 BBLs WT SPACER III PUMP 760 SKS 15.3LB/GAL PRIMARY CEMENT TOC @ 5000' WASHUP PUMPS & LINES TO PIT DROP TOP PLUG PUMP 10 BBLs CLAYFIX II WATER W/ 1 GAL MMCR 3 BPM PUMP 246.6 BBLs CLAY FIX WATER @ 3 BPM W/ 7300 PSI CIR. RATE BUMP PLUG & P/TEST W/ 8300 PSI HOLD 15-MIN OK BLEED OFF PSI FLOAT OK |
| | 16:00 - 18:30 | 2.50 | BOP | 1 | HOLD S/MEETING W/ B&C QUICK TEST & RIG UP BOPS LIFTS |
| | 18:30 - 21:00 | 2.50 | BOP | 1 | REMOVE DRIP PAN BELOW ROTARY TABLE & NIPPLE DOWN BOPS TO SET CASING SLIPS |
| | 21:00 - 23:30 | 2.50 | BOP | 1 | LIFT STACK & SET SLIPS (SLIPS SET @ 195 K STRING WT.) |
| | 23:30 - 01:00 | 1.50 | BOP | 1 | R/DN B & C QUICK TEST |
| | 01:00 - 06:00 | 5.00 | LOC | 7 | CLEAN MUD TANKS & RIG FLOOR PREPARE TO LAY DN TOP DRIVE |
| | 06:00 - 06:00 | 24.00 | LOC | 7 | CONTINUE TO CLEAN MUD TANKS , FINISH RIGGING DOWN TOP DRIVE, REMOVE WIND WALLS & LAY DOWN TORQUE TUBE, BROKE MUD LINE SUITCASE AND REMOVE VIBRATING HOSES BETWEEN PUMP HOUSE & SUBBASE, UNWIRE WIRE LINE FROM DERRICK & R/D BREAK CONNECTIONS ON STAND PIPE |
| 2/19/2008 | 06:00 - | | | | ON NEW LOCATION WELL NEW WELL AHEAD ARRIVED ON LOCATION @ 1400 HRS, REMOVE SNOW & ICE FROM CELLAR & PREPARE TO INSTALL WELL HEAD SHOULD BE ABLE TO FINISH INSTALLING WELL AHEAD BY NOON TODAY. MOVE 8 LOADS OF DRILL PIPE, HWDP & DRILL COLLARS |
| | 06:00 - 10:00 | 4.00 | LOC | 8 | FINISH CLEANING MUD TANKS & GAS BUSTER BRIDLE UP REMOVE SADDLE FROM SRVCE LOOP ON TOP DRIVE (RIG RELEASED @ 1000 HRS ON 2/19/2008) |
| | 10:00 - 06:00 | 20.00 | LOC | 8 | RIG DOWN & MOVE BAR TANKS/MUD CLEANER/CENTERFUGES AND SHUT IN |

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|-----------|---------------|-------|------|----------|---|
| 2/20/2008 | 10:00 - 06:00 | 20.00 | LOC | 8 | BIOLER LAY DN AIR TUGGERS FROM RIG FLOOR/ LAY DERRICK OVER UNSPOOL DRILL LINE BLOW DOWN BOILER & RIG DOWN DRIVE LINES |

CONFIDENTIAL

OPERATOR: **Questar Exploration & Production, Co.**
ADDRESS: **11002 East 17500 South**
Vernal, Utah 84078-8526 (435)781-4342

ENTITY ACTION FORM - FORM 6

| Action Code | Current Entity No. | New Entity No. | API Number | Well Name | QQ | SC | TP | RG | County | Spud Date | Effective Date |
|-------------|--------------------|----------------|--------------|-------------|------|----|----|-----|--------|-----------|----------------|
| | 16177 | 16177 | 43-047-36351 | RW 34-34 AD | SWSE | 34 | 7S | 22E | Uintah | 6/7/07 | 3/25/08 |

WELL 1 COMMENTS: *MFD + WSMVD*
all formations separated - commingling Denied **CONFIDENTIAL** *6/18/08*

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WELL 2 COMMENTS:

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WELL 3 COMMENTS:

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WELL 4 COMMENTS:

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WELL 5 COMMENTS:

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

NOTE: Use COMMENT section to explain why each Action Code was selected
(3/89)

John Caldwell
Signature

Office Administrator II 6/17/08
Title Date

Phone No. (435)781-4342

RECEIVED
JUN 19 2008
DIV. OF OIL, GAS & MINING

CONFIDENTIAL



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>

IN REPLY REFER TO:
3160
(U-922)

June 25, 2008

Questar Exploration and Production Co.
Independence Plaza
1050 17th Street, Suite 500
Denver, CO 80265
Attn: Chad W. Matney

Re: Non-Paying Well Determination
RW 34-34AD
Red Wash Unit
Uintah County, Utah

Gentlemen:

Pursuant to your request of June 9, 2008, it has been determined by this office that under existing conditions the following well is not capable of producing unitized substances in paying quantities as defined in Section 9 of the unit agreement.

| API Number | Well Name | Location | Comp. Date | Lease |
|------------|------------|---|------------|---------|
| 4304736351 | RW 34-34AD | SW $\frac{1}{4}$ SE $\frac{1}{4}$ 34 7.0 S 22.0 E SLB&M | 03/25/2008 | UTU0558 |

All past and future production from this well shall be handled and reported on a lease basis.

Sincerely,

/s/ Becky J. Hammond

Becky J. Hammond
Chief, Branch of Fluid Minerals

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JUN 27 2008
DIV. OF OIL, GAS & MINING

bcc: FOM Vernal
Red Wash Unit File
MMS
SITLA
Division of Oil, Gas and Mining
Central Files
Agr. Sec. Chron.
Fluid Chron
Tickler (August, 2008)

MCoulthard:mc:6-25-08



OPERATOR: **Questar Exploration & Production, Co.**
ADDRESS: **11002 East 17500 South**
Vernal, Utah 84078-8526 (435)781-4342

ENTITY ACTION FORM - FORM 6

| Action Code | Current Entity No. | New Entity No. | API Number | Well Name | QQ | SC | TP | RG | County | Spud Date | Effective Date |
|-------------------------------|--------------------|----------------|--------------|-------------|------|----|----|-----|--------|-----------|-----------------------------|
| E | 16177 | 16177 | 43-047-36351 | RW 34-34 AD | SWSE | 34 | 7S | 22E | Uintah | 6/7/07 | 3/1/09 |
| WELL 1 COMMENTS: WMMFD | | | | | | | | | | | CONFIDENTIAL 4/14/09 |
| | | | | | | | | | | | |
| WELL 2 COMMENTS: | | | | | | | | | | | |
| | | | | | | | | | | | |
| WELL 3 COMMENTS: | | | | | | | | | | | |
| | | | | | | | | | | | |
| WELL 4 COMMENTS: | | | | | | | | | | | |
| | | | | | | | | | | | |
| WELL 5 COMMENTS: | | | | | | | | | | | |
| | | | | | | | | | | | |

ACTION CODES (See instructions on back of form)

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

Dahn Caldwell

Signature

Office Administrator
Title

4/10/09
Date

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

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

(3/89)

RECEIVED

APR 13 2009

DIV. OF OIL, GAS & MINING

CONFIDENTIAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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-0558 |
| 6. If Indian, Allottee or Tribe Name | N/A |

SUBMIT IN TRIPLICATE – Other instructions on page 2.

| | |
|--|---|
| 1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other | |
| 2. Name of Operator QUESTAR EXPLORATION & PRODUCTION CO. CONTACT: Mike Stahl | |
| 3a. Address 11002 EAST 17500 SOUTH, VERNAL, UTAH 84078 | 3b. Phone No. (include area code) (303) 308-3613 |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 858' FSL 1944' FEL, SWSE, SECTION 34, T7S, R22E | |

| | |
|---|---------------|
| 7. If Unit of CA/Agreement, Name and/or No. | RED WASH UNIT |
| 8. Well Name and No. | RW 34-34AD |
| 9. API Well No. | 43-047-36351 |
| 10. Field and Pool or Exploratory Area | UNDESIGNATED |
| 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 | | | |
|---|---|---|--|--|
| <input type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other <u>COMMINGLING</u> |
| | <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | |
| | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports 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 drilling 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 RW 34-34AD. Questar considers this commingling to be in the public interest in that it promotes maximum ultimate economic recovery, prevents waste, provides for orderly and efficient production of oil and gas and presents no detrimental effects from commingling the gas streams.

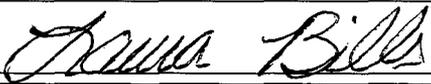
Questar requests approval for the commingling of production of the Dakota to the Wasatch intervals. Based upon offset production logs, the proposed initial allocation is as follows: Dakota - 20%; Mancos - 40%; mesa Verde - 30%; Wasatch - 10%.

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 discontinued after the fifth anniversary of the initial production.

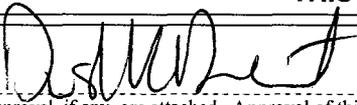
COPY SENT TO OPERATOR

Date: 5.18.2009

Initials: KS

| | |
|--|--|
| 14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Laura Bills | Title Associate Regulatory Affairs Analyst |
| Signature  | Date 04/20/2009 |

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

| | | |
|---|------------------------------|--|
| Approved by  | Title <u>Pet. Eng.</u> | Date <u>5/13/09</u> |
| Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. | Office DOG M RECEIVED | Federal Approval Of This Action Is Necessary |

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.

APR 22 2009

(Instructions on page 2)

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 RW 34-34 AD 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 13th day of April 2009.

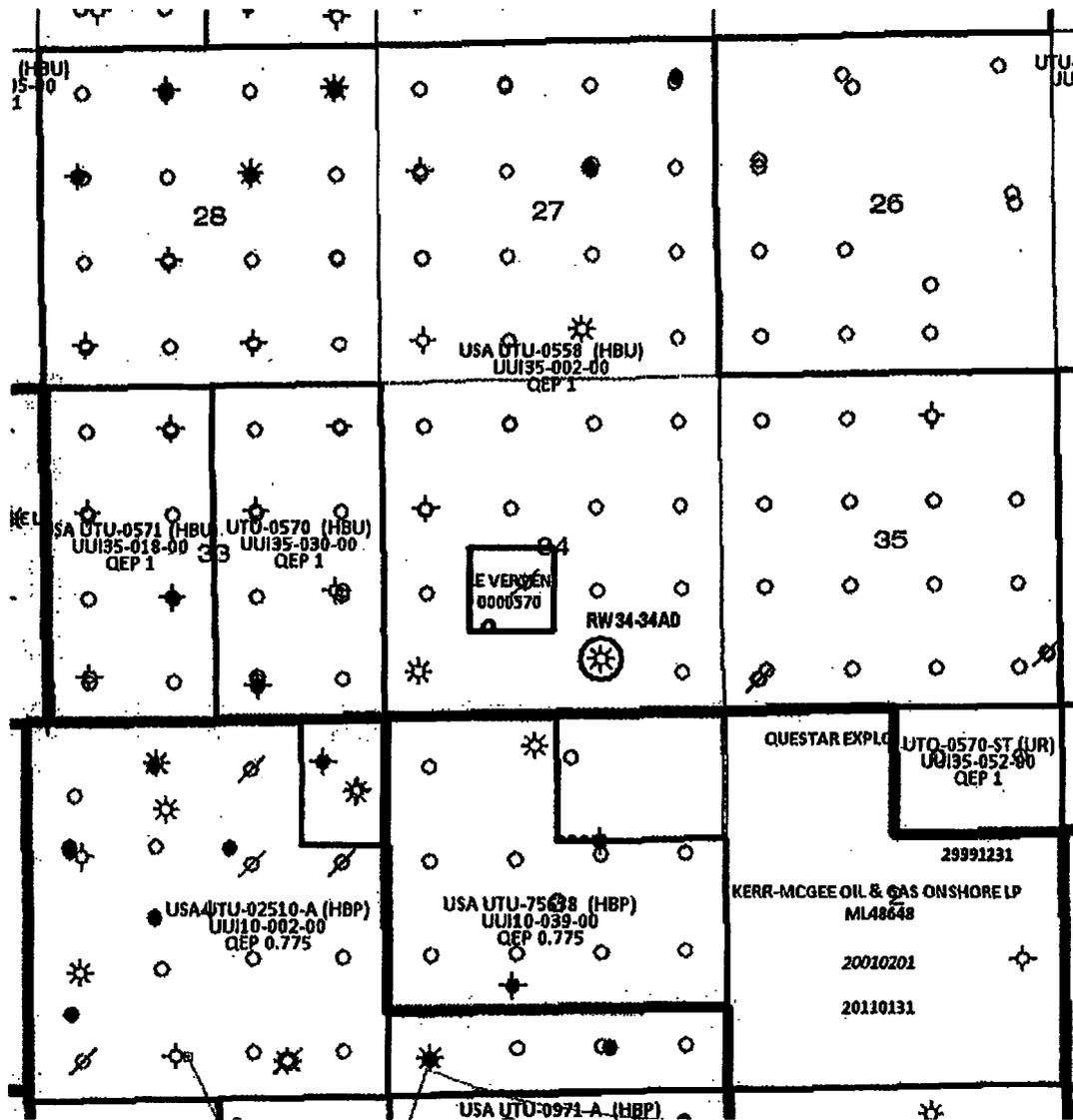

Printed Name: Nathan C. Koeniger

The foregoing instrument was sworn to and subscribed before me this 13th day of April 2009, by Nathan C. Koeniger.


Notary Public

THERESA CHATMAN
-NOTARY PUBLIC-
STATE OF COLORADO

MY COMMISSION EXPIRES: 7/7/11



T7S-R22E

○ Commingled well

**Tw/Kmv
COMMINGLED PRODUCTION**

Uinta Basin—Uintah County, Utah

**Well: RW 34-34AD
Lease: UTU 0558**

QUESTAR
Exploration and
Production

1090 17th St., P.O. Box Denver, CO 80202

Geologist:

Landman: Chad Matney

Date: April 7, 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): N5085-Questar Exploration and Production Company 1050 17th St, Suite 500 Denver, CO 80265 Phone: 1 (303) 308-3048 | TO: (New Operator): N3700-QEP Energy Company 1050 17th St, Suite 500 Denver, CO 80265 Phone: 1 (303) 308-3048 |
|--|---|

CA No. Unit: RED WASH

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

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/28/2010
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/28/2010
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/24/2010
- 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
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 8/16/2010 BIA not yet
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 8/16/2010
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/29/2010

DATA ENTRY:

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

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: ESB000024
- Indian well(s) covered by Bond Number: 965010693
- 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:

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

COMMENTS:

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

FORM 9

| | | |
|--|--|--|
| SUNDRY NOTICES AND REPORTS ON WELLS | | 5. LEASE DESIGNATION AND SERIAL NUMBER See attached |
| Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: See attached |
| 1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____ | | 7. UNIT or CA AGREEMENT NAME: See attached |
| 2. NAME OF OPERATOR: Questar Exploration and Production Company <i>N5085</i> | | 8. WELL NAME and NUMBER: See attached |
| 3. ADDRESS OF OPERATOR: 1050 17th Street, Suite 500 <small>CITY</small> Denver <small>STATE</small> CO <small>ZIP</small> 80265 | | 9. API NUMBER: Attached |
| PHONE NUMBER: (303) 672-6900 | | 10. FIELD AND POOL, OR WILDCAT: See attached |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: See attached | | COUNTY: Attached |
| QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: | | STATE: UTAH |

| 11 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA | | | |
|--|---|---|--|
| TYPE OF SUBMISSION | TYPE OF ACTION | | |
| <input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>6/14/2010</u> | <input type="checkbox"/> ACIDIZE | <input type="checkbox"/> DEEPEN | <input type="checkbox"/> REPERFORATE CURRENT FORMATION |
| | <input type="checkbox"/> ALTER CASING | <input type="checkbox"/> FRACTURE TREAT | <input type="checkbox"/> SIDETRACK TO REPAIR WELL |
| <input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: | <input type="checkbox"/> CASING REPAIR | <input type="checkbox"/> NEW CONSTRUCTION | <input type="checkbox"/> TEMPORARILY ABANDON |
| | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS | <input type="checkbox"/> OPERATOR CHANGE | <input type="checkbox"/> TUBING REPAIR |
| | <input type="checkbox"/> CHANGE TUBING | <input type="checkbox"/> PLUG AND ABANDON | <input type="checkbox"/> VENT OR FLARE |
| | <input type="checkbox"/> CHANGE WELL NAME | <input type="checkbox"/> PLUG BACK | <input type="checkbox"/> WATER DISPOSAL |
| | <input type="checkbox"/> CHANGE WELL STATUS | <input type="checkbox"/> PRODUCTION (START/RESUME) | <input type="checkbox"/> WATER SHUT-OFF |
| | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE | <input checked="" type="checkbox"/> OTHER: <u>Operator Name Change</u> |
| | <input type="checkbox"/> CONVERT WELL TYPE | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION | |

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

Effective June 14, 2010 Questar Exploration and Production Company changed its name to QEP Energy Company. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible for operations of the properties described on the attached list. All operations will continue to be covered by bond numbers:
 Federal Bond Number: 965002976 (BLM Reference No. ESB000024) *N3700*
 Utah State Bond Number: ~~965003033~~ } *965010695*
 Fee Land Bond Number: ~~965003033~~
 BIA Bond Number: ~~799446~~ *965010693*

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

| | |
|--|---|
| NAME (PLEASE PRINT) <u>Morgan Anderson</u> | TITLE <u>Regulatory Affairs Analyst</u> |
| SIGNATURE <i>Morgan Anderson</i> | DATE <u>6/23/2010</u> |

(This space for State use only)

RECEIVED

JUN 28 2010

DIV. OF OIL, GAS & MINING

(See Instructions on Reverse Side)

APPROVED *6/30/2009*

Earlene Russell

Division of Oil, Gas and Mining

Earlene Russell, Engineering Technician

(5/2000)

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

| well_name | sec | twp | rng | api | entity | mineral lease | type | stat | C |
|-----------------|-----|------|------|------------|--------|------------------|------|------|---|
| RW 34-23B | 23 | 070S | 230E | 4304715136 | 5670 | Federal | OW | P | |
| RW 41-23B | 23 | 070S | 230E | 4304715138 | 5670 | Federal | OW | P | |
| RW 32-22B | 22 | 070S | 230E | 4304715139 | 5670 | Federal | OW | P | |
| RW 43-23B | 23 | 070S | 230E | 4304715140 | 5670 | Federal | OW | P | |
| RW 32-17C | 17 | 070S | 240E | 4304715145 | 5670 | Federal | OW | P | |
| RW 34-26B | 26 | 070S | 230E | 4304715148 | 5670 | Federal | GW | TA | |
| RW 32-14B | 14 | 070S | 230E | 4304715150 | 5670 | Federal | OW | P | |
| RW 34-14B | 14 | 070S | 230E | 4304715152 | 5670 | Federal | OW | S | |
| RW 23-22B | 22 | 070S | 230E | 4304715153 | 5670 | Federal | OW | TA | |
| RW 43-22B | 22 | 070S | 230E | 4304715155 | 5670 | Federal | OW | P | |
| RW 32-23B | 23 | 070S | 230E | 4304715156 | 5670 | Federal | OW | P | |
| RW 23-13B | 13 | 070S | 230E | 4304715157 | 5670 | Federal | GW | TA | |
| RW 34-22B | 22 | 070S | 230E | 4304715158 | 5670 | Federal | OW | P | |
| RW 32-13B | 13 | 070S | 230E | 4304715163 | 5670 | Federal | GW | P | |
| RW 14-23B | 23 | 070S | 230E | 4304715165 | 5670 | Federal | OW | S | |
| RW 14-24A | 24 | 070S | 220E | 4304715166 | 17554 | Federal | OW | DRL | |
| RW 21-24B | 24 | 070S | 230E | 4304715167 | 5670 | Federal | OW | TA | |
| RW 34-13B | 13 | 070S | 230E | 4304715168 | 5670 | Federal | OW | P | |
| RW 21-29C | 29 | 070S | 240E | 4304715169 | 5670 | Federal | GW | P | |
| RW 12-17B | 17 | 070S | 230E | 4304715170 | 5670 | Federal | OW | P | |
| RW 32-33C | 33 | 070S | 240E | 4304715171 | 5670 | Federal | GW | P | |
| RW 14-23A | 23 | 070S | 220E | 4304715176 | 5670 | Federal | OW | P | |
| RW 12-18C | 18 | 070S | 240E | 4304715183 | 5670 | Federal | OW | P | |
| RW 21-22B | 22 | 070S | 230E | 4304715186 | 5670 | Federal | GW | TA | |
| RW 34-18B | 18 | 070S | 230E | 4304715189 | 5670 | Federal | OW | P | |
| RW 21-27B | 27 | 070S | 230E | 4304715191 | 5670 | Federal | OW | TA | |
| RW 23-22A | 22 | 070S | 220E | 4304715192 | 5670 | Federal | OW | P | |
| RW 21-18C | 18 | 070S | 240E | 4304715193 | 5670 | Federal | OW | P | |
| RW 12-13B | 13 | 070S | 230E | 4304715196 | 5670 | Federal | GW | S | |
| RW 32-18C | 18 | 070S | 240E | 4304715198 | 5670 | Federal | GW | P | |
| RWU 77 (21-13B) | 13 | 070S | 230E | 4304715199 | 5670 | Federal | OW | P | |
| RW 32-28B | 28 | 070S | 230E | 4304715200 | 5670 | Federal | OW | P | |
| RW 12-27B | 27 | 070S | 230E | 4304715201 | 5670 | Federal | OW | TA | |
| RW 14-27B | 27 | 070S | 230E | 4304715202 | 5670 | Federal | OW | P | |
| RW 41-31B | 31 | 070S | 230E | 4304715203 | 5670 | Federal | OW | P | |
| RW 41-27A | 27 | 070S | 220E | 4304715205 | 5670 | Federal | OW | S | |
| RW 44-14B | 14 | 070S | 230E | 4304715206 | 5670 | Federal | GW | P | |
| RW 43-21B | 21 | 070S | 230E | 4304715211 | 5670 | Federal | OW | P | |
| RW 12-22A | 22 | 070S | 220E | 4304715213 | 5670 | Federal | OW | P | |
| RW 12-22B | 22 | 070S | 230E | 4304715218 | 5670 | Federal | OW | P | |
| RW 34-21B | 21 | 070S | 230E | 4304715220 | 5670 | Federal | OW | P | |
| RW 34-15B | 15 | 070S | 230E | 4304715222 | 5670 | Federal | OW | P | |
| RW 32-21B | 21 | 070S | 230E | 4304715226 | 5670 | Federal | OW | P | |
| RW 21-28B | 28 | 070S | 230E | 4304715227 | 5670 | Federal | OW | P | |

Bonds: BLM = ESB000024
BIA = 956010693
State = 965010695

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

| well_name | sec | twp | rng | api | entity | mineral lease | type | stat | C |
|-----------|-----|------|------|------------|--------|------------------|------|------|---|
| RW 23-23A | 23 | 070S | 220E | 4304715228 | 5670 | Federal | OW | P | |
| RW 32-24A | 24 | 070S | 220E | 4304715229 | 5670 | Federal | OW | P | |
| RW 32-28A | 28 | 070S | 220E | 4304715230 | 5670 | Federal | OW | S | |
| RW 21-19B | 19 | 070S | 230E | 4304715233 | 5670 | Federal | OW | P | |
| RW 43-29A | 29 | 070S | 220E | 4304715236 | 5670 | Federal | OW | S | C |
| RW 23-28B | 28 | 070S | 230E | 4304715237 | 17525 | Federal | OW | P | C |
| RW 13-13B | 13 | 070S | 230E | 4304715238 | 5670 | Federal | GW | P | |
| RW 24-14B | 14 | 070S | 230E | 4304715239 | 5670 | Federal | OW | P | |
| RW 41-29A | 29 | 070S | 220E | 4304715243 | 5670 | Federal | OW | P | |
| RW 14-15B | 15 | 070S | 230E | 4304715246 | 5670 | Federal | OW | P | |
| RW 41-34B | 34 | 070S | 230E | 4304715250 | 5670 | Federal | OW | P | |
| RW 41-30B | 30 | 070S | 230E | 4304715254 | 5670 | Federal | OW | P | |
| RW 24-22B | 22 | 070S | 230E | 4304715255 | 5670 | Federal | OW | P | |
| RW 33-14B | 14 | 070S | 230E | 4304715257 | 5670 | Federal | OW | P | |
| RW 21-18B | 18 | 070S | 230E | 4304715258 | 5670 | Federal | OW | TA | |
| RW 22-22B | 22 | 070S | 230E | 4304715260 | 5670 | Federal | OW | TA | C |
| RW 42-14B | 14 | 070S | 230E | 4304715264 | 5670 | Federal | OW | P | |
| RW 14-29B | 29 | 070S | 230E | 4304715265 | 5670 | Federal | OW | P | |
| RW 32-30B | 30 | 070S | 230E | 4304715268 | 5670 | Federal | OW | P | |
| RW 32-15B | 15 | 070S | 230E | 4304715270 | 5670 | Federal | OW | P | |
| RW 12-20B | 20 | 070S | 230E | 4304715272 | 5670 | Federal | OW | S | |
| RW 12-28B | 28 | 070S | 230E | 4304715274 | 5670 | Federal | OW | P | |
| RW 32-26B | 26 | 070S | 230E | 4304715275 | 5670 | Federal | GW | TA | |
| RW 31-28B | 28 | 070S | 230E | 4304715283 | 5670 | Federal | OW | TA | |
| RW 34-30B | 30 | 070S | 230E | 4304715288 | 5670 | Federal | OW | P | |
| RW 23-26B | 26 | 070S | 230E | 4304715290 | 5670 | Federal | GW | S | |
| RW 41-33A | 33 | 070S | 220E | 4304715294 | 5670 | Federal | OW | P | |
| RW 43-24B | 24 | 070S | 230E | 4304715295 | 5670 | Federal | GW | TA | |
| RW 12-14B | 14 | 070S | 230E | 4304715296 | 5670 | Federal | OW | S | |
| RW 32-28C | 28 | 070S | 240E | 4304715302 | 5670 | Federal | GW | P | |
| RW 23-25A | 25 | 070S | 220E | 4304715305 | 5670 | Federal | OW | P | |
| RW 41-8F | 08 | 080S | 240E | 4304720014 | 5670 | Federal | GW | P | |
| RW 44-21C | 21 | 070S | 240E | 4304730149 | 5670 | Federal | GW | S | |
| RW 13-27B | 27 | 070S | 230E | 4304730199 | 5670 | Federal | OW | TA | |
| RW 21-34B | 34 | 070S | 230E | 4304730258 | 5670 | Federal | OW | P | |
| RW 43-26B | 26 | 070S | 230E | 4304730259 | 5670 | Federal | OW | TA | |
| RW 14-18C | 18 | 070S | 240E | 4304730309 | 5670 | Federal | OW | P | |
| RW 12-26B | 26 | 070S | 230E | 4304730311 | 5670 | Federal | OW | TA | |
| RW 32-24B | 24 | 070S | 230E | 4304730313 | 5670 | Federal | OW | P | |
| RW 34-18C | 18 | 070S | 240E | 4304730314 | 5670 | Federal | OW | P | |
| RW 21-19C | 19 | 070S | 240E | 4304730340 | 5670 | Federal | GW | P | |
| RW 14-25B | 25 | 070S | 230E | 4304730341 | 5670 | Federal | OW | P | |
| RW 32-35B | 35 | 070S | 230E | 4304730342 | 5670 | Federal | OW | TA | |
| RW 12-36B | 36 | 070S | 230E | 4304730344 | 5670 | Federal | OW | S | |

Bonds: BLM = ESB000024
BIA = 956010693
State = 965010695

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

| well_name | sec | tpw | rng | api | entity | mineral lease | type | stat | C |
|-----------|-----|------|------|------------|--------|------------------|------|------|---|
| RW 22-14B | 14 | 070S | 230E | 4304730345 | 5670 | Federal | OW | P | |
| RW 42-13B | 13 | 070S | 230E | 4304730346 | 5670 | Federal | OW | P | |
| RW 23-19C | 19 | 070S | 240E | 4304730348 | 5670 | Federal | GW | P | |
| RW 22-18C | 18 | 070S | 240E | 4304730387 | 5670 | Federal | OW | P | |
| RW 22-17C | 17 | 070S | 240E | 4304730388 | 5670 | Federal | GW | P | |
| RW 44-26B | 26 | 070S | 230E | 4304730520 | 5670 | Federal | GW | P | |
| RW 42-27B | 27 | 070S | 230E | 4304731051 | 5670 | Federal | OW | TA | |
| RW 44-27B | 27 | 070S | 230E | 4304731053 | 5670 | Federal | OW | TA | |
| RW 44-23B | 23 | 070S | 230E | 4304731054 | 5670 | Federal | GW | P | |
| RW 11-35B | 35 | 070S | 230E | 4304731079 | 5670 | Federal | OW | P | |
| RW 22-35B | 35 | 070S | 230E | 4304731082 | 5670 | Federal | OW | P | |
| RW 33-23B | 23 | 070S | 230E | 4304731476 | 5670 | Federal | GW | TA | |
| RW 11-24B | 24 | 070S | 230E | 4304731477 | 5670 | Federal | OW | P | |
| RW 42-21B | 21 | 070S | 230E | 4304731478 | 5670 | Federal | OW | P | |
| RW 13-24B | 24 | 070S | 230E | 4304731517 | 5670 | Federal | OW | P | |
| RW 42-23B | 23 | 070S | 230E | 4304731576 | 5670 | Federal | GW | TA | |
| RW 12-35B | 35 | 070S | 230E | 4304731578 | 5670 | Federal | OW | S | |
| RW 24-15B | 15 | 070S | 230E | 4304731579 | 5670 | Federal | OW | P | |
| RW 24-18C | 18 | 070S | 240E | 4304731582 | 5670 | Federal | GW | P | |
| RW 43-15B | 15 | 070S | 230E | 4304731682 | 17643 | Federal | GW | DRL | C |
| RW 34-17B | 17 | 070S | 230E | 4304731819 | 5670 | Federal | OW | P | |
| RW 41-4F | 04 | 080S | 240E | 4304732538 | 5670 | Federal | GW | TA | |
| RW 23-23C | 23 | 070S | 240E | 4304732629 | 5670 | Federal | GW | P | |
| RW 14-17B | 17 | 070S | 230E | 4304732738 | 5670 | Federal | OW | P | |
| RW 32-17B | 17 | 070S | 230E | 4304732981 | 5670 | Federal | OW | P | |
| RW 32-18B | 18 | 070S | 230E | 4304733018 | 5670 | Federal | OW | P | |
| RW 42-20B | 20 | 070S | 230E | 4304733490 | 5670 | Federal | OW | P | |
| RW 22-20B | 20 | 070S | 230E | 4304733491 | 5670 | Federal | OW | P | |
| RW 24-19B | 19 | 070S | 230E | 4304733492 | 5670 | Federal | OW | P | |
| RW 22-21B | 21 | 070S | 230E | 4304733522 | 5670 | Federal | OW | S | |
| RW 24-20B | 20 | 070S | 230E | 4304733523 | 5670 | Federal | OW | P | |
| RW 44-19B | 19 | 070S | 230E | 4304733524 | 5670 | Federal | OW | P | |
| RW 44-20B | 20 | 070S | 230E | 4304733525 | 5670 | Federal | OW | P | |
| RW 24-18B | 18 | 070S | 230E | 4304733554 | 5670 | Federal | OW | P | |
| RW 42-19B | 19 | 070S | 230E | 4304733556 | 5670 | Federal | OW | P | |
| RW 22-19B | 19 | 070S | 230E | 4304733559 | 5670 | Federal | OW | P | |
| RW 23-24A | 24 | 070S | 220E | 4304733567 | 5670 | Federal | OW | P | |
| RW 42-24A | 24 | 070S | 220E | 4304733569 | 5670 | Federal | OW | P | |
| RW 21-25A | 25 | 070S | 220E | 4304733576 | 5670 | Federal | OW | P | |
| RW 41-25A | 25 | 070S | 220E | 4304733579 | 5670 | Federal | OW | P | |
| RW 21-24A | 24 | 070S | 220E | 4304733592 | 5670 | Federal | OW | P | |
| RW 44-18B | 18 | 070S | 230E | 4304733594 | 5670 | Federal | OW | P | |
| RW 41-24A | 24 | 070S | 220E | 4304733769 | 5670 | Federal | OW | P | |
| RW 42-30B | 30 | 070S | 230E | 4304733771 | 5670 | Federal | OW | S | |

Bonds: BLM = ESB000024

BIA = 965010693

State = 965010695

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

| well_name | sec | twp | rng | api | entity | mineral lease | type | stat | C |
|--------------|-----|------|------|------------|--------|------------------|------|------|---|
| RWU 44-30B | 30 | 070S | 230E | 4304733772 | 5670 | Federal | OW | P | |
| RW 22-25A | 25 | 070S | 220E | 4304733786 | 5670 | Federal | OW | P | |
| RW 34-27C | 27 | 070S | 240E | 4304735045 | 5670 | Federal | GW | P | |
| RW 34-22C | 22 | 070S | 240E | 4304735098 | 5670 | Federal | GW | P | |
| RW 34-23AG | 23 | 070S | 220E | 4304735668 | 5670 | Federal | OW | P | |
| RWU 32-27AG | 27 | 070S | 220E | 4304735670 | 5670 | Federal | OW | P | |
| RW 14-34AMU | 34 | 070S | 220E | 4304735671 | 14277 | Federal | GW | P | |
| RW 44-08FG | 08 | 080S | 240E | 4304736349 | 15261 | Federal | GW | P | |
| RW 34-34 AD | 34 | 070S | 220E | 4304736351 | 16177 | Federal | GW | P | |
| RW 33-31 BD | 31 | 070S | 230E | 4304736357 | | Federal | GW | APD | C |
| RW 13-31 BD | 31 | 070S | 230E | 4304736358 | | Federal | GW | APD | C |
| RW 21-26AD | 26 | 070S | 220E | 4304736768 | 5670 | Federal | OW | OPS | C |
| RW 43-26AG | 26 | 070S | 220E | 4304736769 | 16575 | Federal | OW | OPS | C |
| RW 43-23AG | 23 | 070S | 220E | 4304736770 | 5670 | Federal | OW | OPS | C |
| RW 41-26AG | 26 | 070S | 220E | 4304736818 | 5670 | Federal | OW | OPS | C |
| RW 04-25B | 25 | 070S | 230E | 4304736982 | 17224 | Federal | OW | P | |
| RW 34-27ADR | 27 | 070S | 220E | 4304739445 | 16330 | Federal | GW | P | |
| RW 32-29CD | 29 | 070S | 240E | 4304739854 | | Federal | GW | APD | C |
| RW 24-10FD | 10 | 080S | 240E | 4304739963 | | Federal | GW | APD | C |
| RW 34-20CD | 20 | 070S | 240E | 4304739964 | | Federal | GW | APD | C |
| RW 32-20CD | 20 | 070S | 240E | 4304739965 | | Federal | GW | APD | |
| RW 24-21CD | 21 | 070S | 240E | 4304739966 | | Federal | GW | APD | C |
| RW 41-28CD | 28 | 070S | 240E | 4304739967 | | Federal | GW | APD | C |
| RW 41-33CD | 33 | 070S | 240E | 4304739968 | | Federal | GW | APD | C |
| RW 14-35 AMU | 35 | 070S | 220E | 4304740051 | | Federal | GW | APD | C |
| RW 44-35 AMU | 35 | 070S | 220E | 4304740052 | | Federal | GW | APD | |
| RW 12-17FG | 17 | 080S | 240E | 4304740602 | | 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>



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. Bankart*
Subject: Name Change Recognized

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

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

cc: MMS
UDOGM

RECEIVED
AUG 16 2010
DIV. OF OIL, GAS & MINERAL

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

FORM 6

ENTITY ACTION FORM

Operator: QEP ENERGY COMPANY Operator Account Number: N 3700
 Address: 11002 EAST 17500 SOUTH
city VERNAL
state UT zip 84078 Phone Number: (435) 781-4369

Well 1

| API Number | Well Name | | QQ | Sec | Twp | Rng | County |
|--------------------------------|-----------------------|-------------------|-----------|-----|-----|----------------------------------|----------|
| 4304736982 | RW 04-25B | | NWSW | 25 | 7S | 23E | UINTAH |
| Action Code | Current Entity Number | New Entity Number | Spud Date | | | Entity Assignment Effective Date | |
| D | 17224 | 18478 | 2/5/2008 | | | 1/1/2012 | |
| Comments: NEW ENTITY FOR WMMFD | | | | | | | 41181202 |

Well 2

| API Number | Well Name | | QQ | Sec | Twp | Rng | County |
|--------------------------------|-----------------------|-------------------|-----------|-----|-----|----------------------------------|---------|
| 4304736351 | RW 34-34AD | | SWSE | 34 | 7S | 22E | UINTAH |
| Action Code | Current Entity Number | New Entity Number | Spud Date | | | Entity Assignment Effective Date | |
| D | 16177 | 18478 | 6/7/2007 | | | 1/1/2012 | |
| Comments: NEW ENTITY FOR WMMFD | | | | | | | 4-18-12 |

Well 3

| API Number | Well Name | | QQ | Sec | Twp | Rng | County |
|--------------------------------|-----------------------|-------------------|-----------|-----|-----|----------------------------------|---------|
| 4304739445 | RW 34-27ADR | | SWSE | 27 | 7S | 22E | UINTAH |
| Action Code | Current Entity Number | New Entity Number | Spud Date | | | Entity Assignment Effective Date | |
| D | 16330 | 18478 | 8/7/2007 | | | 1/1/2012 | |
| Comments: NEW ENTITY FOR WMMFD | | | | | | | 4-18-12 |

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)

Valyn Davis

Name (Please Print) Valyn Davis
 Signature [Signature]
 Title Regulatory Affairs Analyst Date 4/4/2012

RECEIVED

APR 04 2012

Div. of Oil, Gas & Mining