

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0136
Expires January 31, 2004

5. Lease Serial No.
UTU-67170

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

7. If Unit or CA Agreement, Name and No.
Monument Butte NE

8. Lease Name and Well No.
Mon. Butte NE Federal C-25-8-16

9. API Well No.
43-013-33274

1a. Type of Work: DRILL REENTER

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

2. Name of Operator
Newfield Production Company

3a. Address
Route #3 Box 3630, Myton UT 84052

3b. Phone No. (include area code)
(435) 646-3721

10. Field and Pool, or Exploratory
Monument Butte

4. Location of Well (Report location clearly and in accordance with any State requirements. *)
At surface **NW/NE 667' FNL 1999' FEL**
At proposed prod. zone **0' FNL 2637' FEL**

11. Sec., T., R., M., or Blk. and Survey or Area
Sec. 25, T8S R16E

14. Distance in miles and direction from nearest town or post office*
Approximatley 11.9 miles southwest of Myton, Utah

12. County or Parish
Duchesne

13. State
UT

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) **Approx. 1283' f/lse, 1283' f/unit**

16. No. of Acres in lease
1,879.869

17. Spacing Unit dedicated to this well
20 Acres

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. **Approx. 1337'**

19. Proposed Depth
6683'

20. BLM/BIA Bond No. on file
UTB000192

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
5416' GL

22. Approximate date work will start*
4th Quarter 2006

23. Estimated duration
Approximately seven (7) days from spud to rig release.

24. Attachments

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

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

25. Signature *Mandie Crozier* Name (Printed/Typed) **Mandie Crozier** Date **8/8/06**

Title **Regulatory Specialist**

Approved by (Signature) *Bradley G. Hill* Name (Printed/Typed) **BRADLEY G. HILL** Date **08-28-06**

Title **Off ENVIRONMENTAL MANAGER**

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

Conditions of approval, if any, are attached.

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

*(Instructions on reverse)

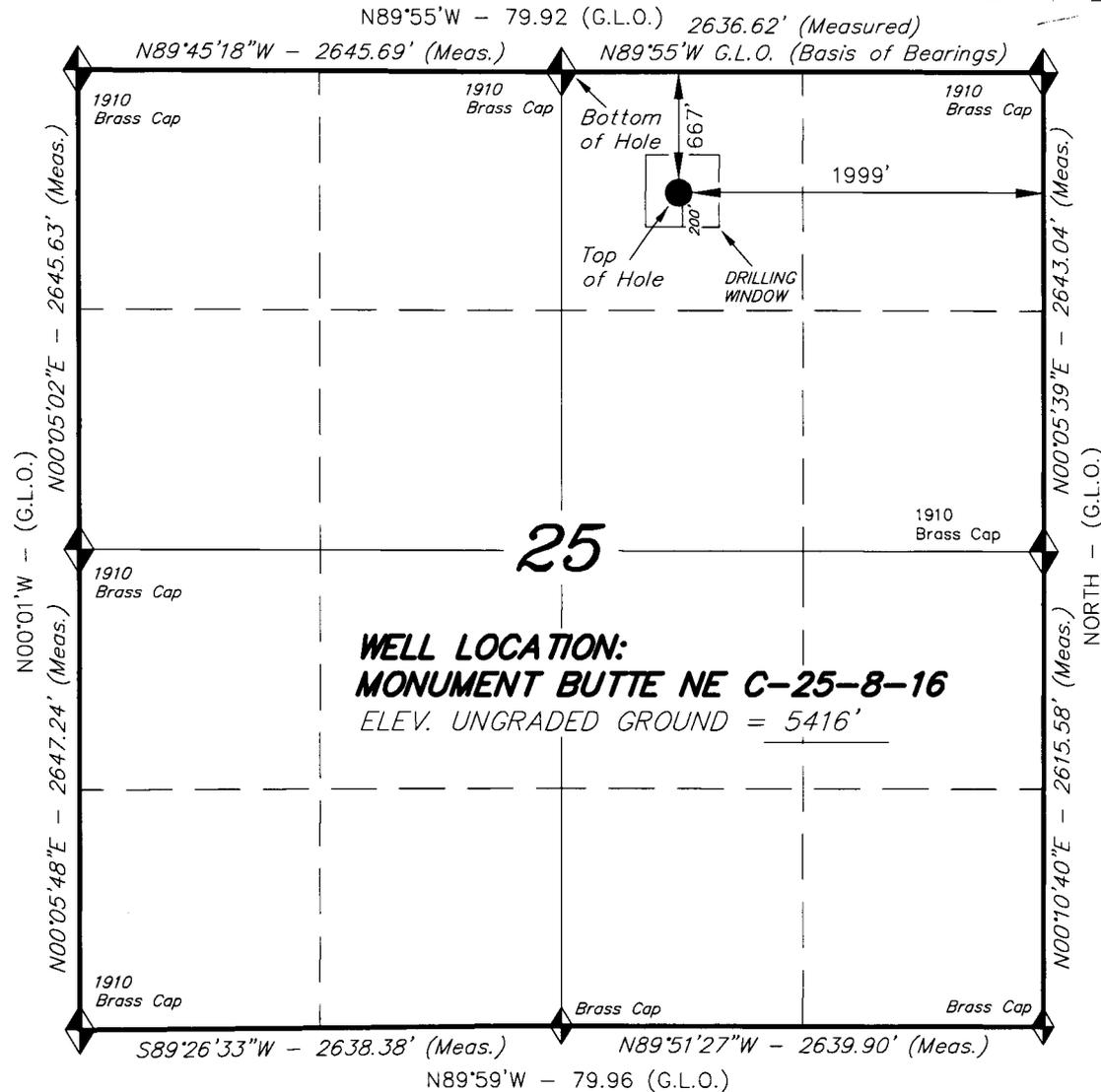
Surf
Federal Approval of this Action is Necessary
579728 X
4438432 Y
40.094293
-110.064720

BHL
579537 X
4438645 Y
40.096723
-110.06493

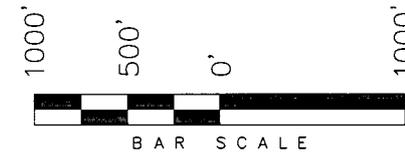
RECEIVED
AUG 09 2006
DIV. OF OIL, GAS & MINING

T8S, R16E, S.L.B.&M.

NEWFIELD PRODUCTION COMPANY



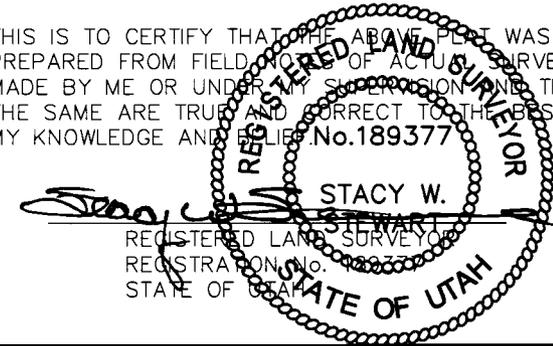
WELL LOCATION, MONUMENT BUTTE NE C-25-8-16, LOCATED AS SHOWN IN THE NW 1/4 NE 1/4 OF SECTION 25, T8S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



Note:

1. The bottom of hole bears N43°36'46"W 923.16' from the well head.
2. The Bottom hole footages are 0' FNL & 2637' FEL.

THIS IS TO CERTIFY THAT THE ABOVE PLAN WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. No. 189377



◆ = SECTION CORNERS LOCATED

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

MONUMENT BUTTE NE C-25-8-16
(Surface Location) NAD 83
LATITUDE = 40° 05' 39.52"
LONGITUDE = 110° 03' 55.73"

TRI STATE LAND SURVEYING & CONSULTING
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
(435) 781-2501

| | |
|---------------------------|-------------------|
| DATE SURVEYED: 5-20-06 | SURVEYED BY: J.H. |
| DATE DRAWN: 05-22-06 | DRAWN BY: F.T.M. |
| REVISED: | SCALE: 1" = 1000' |

NEWFIELD



ROCKY MOUNTAINS

August 22, 2006

Ms. Diana Whitney
State of Utah, Div. of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, Utah 84114-5801

Re: Directional Drilling R649-3-11; Monument Butte NE Area
BLM Lease #s U-67170 (surface & bottomhole), Duchesne Co., UT
Mon. Butte NE Q-24-8-16; 644' FSL, 1966' FWL (at surface)
1324' FSL, 1323' FWL (bottomhole)
Section 24-T8S-R16E
Mon. Butte NE Q-25-8-16; 533' FSL, 1976' FWL (at surface)
1316' FSL, 1320' FWL (bottomhole)
Mon. Butte NE H-25-8-16; 740' FNL, 1958' FWL (at surface)
1320' FNL, 2644' FWL (bottomhole)
✓ **Mon. Butte NE C-25-8-16**; 667' FNL, 1999' FEL (at surface)
0' FNL, 2637' FEL (bottomhole)
Section 25-T8S-R16E

Dear Ms. Whitney:

Pursuant to the filing of Newfield Production Company's (hereinafter "NPC") Applications for Permit to Drill dated 08/08/06 (copies enclosed herewith) which concern the wells referenced above, NPC is hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling.

These drillsite locations are located on Federal Lease #U-67170. NPC is permitting these wells as directional wells in order to minimize surface disturbance. Locating the wells at the surface location and directionally drilling from these locations, NPC will be able to utilize the existing roads and pipelines in the area.

Furthermore, NPC hereby certifies that it is the owner of 100% of the working interest in all of the lands covered by U-67170 and all lands within 460 feet of the entire directional well bores.

RECEIVED

AUG 25 2006

DIV. OF OIL, GAS & MINING

Ms. Diana Whitney
August 22, 2006
Page Two

Therefore, based on the above stated information NPC requests that the permits be granted pursuant to R649-3-11. Thank you for your consideration in this matter.

Sincerely,

A handwritten signature in cursive script that reads "Rhonda Deimer".

Rhonda Deimer
Land Associate

**NEWFIELD PRODUCTION COMPANY
MON. BUTTE NE FEDERAL #C-25-8-16
AT SURFACE: NW/NE SECTION 25, T8S, R16E
DUCHESNE COUNTY, UTAH**

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. GEOLOGIC SURFACE FORMATION:

Uinta formation of Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

| | |
|-------------|------------|
| Uinta | 0' – 3303' |
| Green River | 3303' |
| Wasatch | 6683' |

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:

Green River Formation 3303' – 6683' - Oil

4. PROPOSED CASING PROGRAM

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Please refer to the Monument Butte Field SOP. See Exhibit "C".

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

Please refer to the Monument Butte Field SOP.

7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Please refer to the Monument Butte Field SOP.

8. TESTING, LOGGING AND CORING PROGRAMS:

Please refer to the Monument Butte Field SOP.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.

**NEWFIELD PRODUCTION COMPANY
MON. BUTTE NE FEDERAL #C-25-8-16
AT SURFACE: NW/NE SECTION 25, T8S, R16E
DUCHESNE COUNTY, UTAH**

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. EXISTING ROADS

See attached Topographic Map "A"

To reach Newfield Production Company well location site Mon. Butte NE Federal #C-25-8-16 located in the NW 1/4 NE 1/4 Section 25, T8S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles \pm to the junction of this highway and UT State Hwy 53; proceed southeasterly along Hwy 53 - 9.7 miles \pm to it's junction with an existing dirt road to the southwest; proceed southwesterly - 0.6 miles \pm to the existing Mon. Butte Fed. 2-25-8-16 well lcoation.

2. PLANNED ACCESS ROAD

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing Mon. Butte Fed. 2-25-8-16 well pad. See attached **Topographic Map "B"**.

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

The proposed well will be drilled directionally off of the Mon. Butte Fed. 2-25-8-16 well pad. There will be a pumping unit and a short flow line added to the tank battery for the proposed Mon. Butte NE Federal C-25-8-16.

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

5. LOCATION AND TYPE OF WATER SUPPLY

Please refer to the Monument Butte Field SOP. See Exhibit "A".

6. SOURCE OF CONSTRUCTION MATERIALS

The proposed Mon. Butte NE Federal C-25-8-16 will be drilled off of the existing Mon. Butte Fed. 2-25-8-16 well pad. No additional surface disturbance will be required for this location.

7. METHODS FOR HANDLING WASTE DISPOSAL

Please refer to the Monument Butte Field SOP.

8. ANCILLARY FACILITIES

Please refer to the Monument Butte Field SOP.

9. WELL SITE LAYOUT

See attached Location Layout Diagram.

10. PLANS FOR RESTORATION OF SURFACE

Please refer to the Monument Butte Field SOP.

11. SURFACE OWNERSHIP - Bureau Of Land Management (Proposed location and access roads leading to).

12. OTHER ADDITIONAL INFORMATION

Water Disposal

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

Threatened, Endangered, And Other Sensitive Species

Mountain Plover: If new construction or surface disturbing activities are scheduled to occur between May 1 and June 15, detailed surveys of the area within 0.5 mile of the proposed location and within 300 feet of proposed access routes must be conducted to detect the presence of mountain plovers. All surveys must be conducted in accordance with the survey protocols outlined in the most recent USFWS Survey Protocol. Surveys must be completed prior to initiating new construction or surface disturbing activities. No new construction or surface disturbing activities will be allowed between March 15 and August 15 within a 0.5 mile radius of any documented mountain plover nest site.

Burrowing Owl: Due to the proximity of the location to active prairie dog towns, there is the potential to encounter nesting burrowing owls between April 1 and August 15. If new construction or surface disturbing activities are scheduled between April 1 and August 15, pre-construction surveys will be conducted to detect the presence of nesting burrowing owls within 0.5 mile of any new construction or surface disturbing activity (see Vernal BLM Field Office Protocol). No new construction or surface disturbing activities will be allowed between April 1 and August 15 within a 0.5 mile radius of any active burrowing owl nest.

Reserve Pit Liner

A 12 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

Location and Reserve Pit Reclamation

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

| | | |
|--------------------|---------------------------|------------|
| Western Wheatgrass | <i>Pascopyrum Smithii</i> | 6 lbs/acre |
| Galletta Grass | <i>Hilaria Jamesii</i> | 6 lbs/acre |

Details of the On-Site Inspection

The proposed Mon. Butte NE Federal #C-25-8-16 was on-sited on 5/25/06. The following were present: Shon Mckinnon (Newfeild Production), Chris Carusona (Bureau of Land Management),

and Nate West (Bureau of Landmanagement). Weather conditions were clear and ground cover was 100% open.

13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

Representative

Name: Shon Mckinnon
Address: Route #3 Box 3630
Myton, UT 84052
Telephone: (435) 646-3721

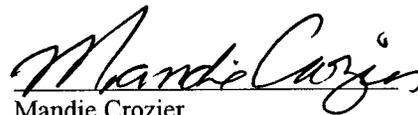
Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #C-25-8-16 NW/NE Section 25, Township 8S, Range 16E: Lease UTU-67170 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by US Specialty Insurance #B001832.

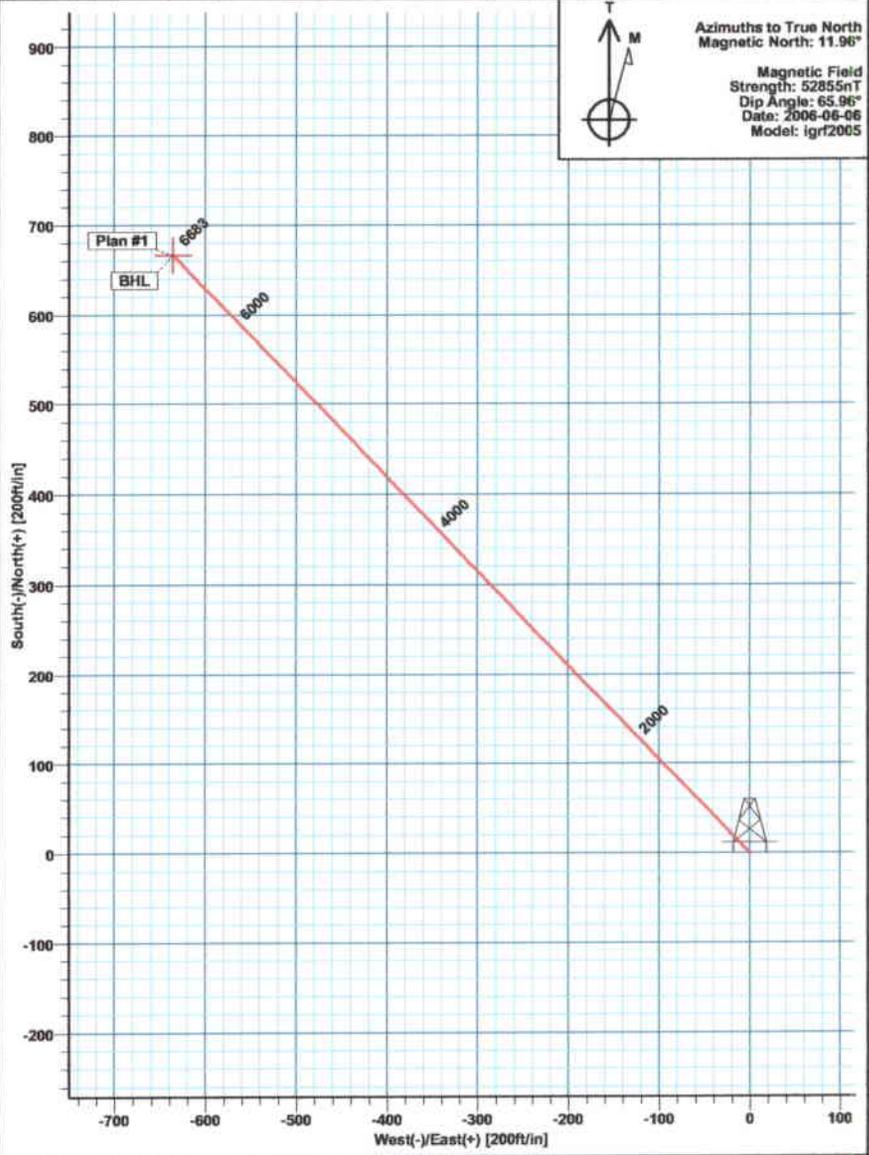
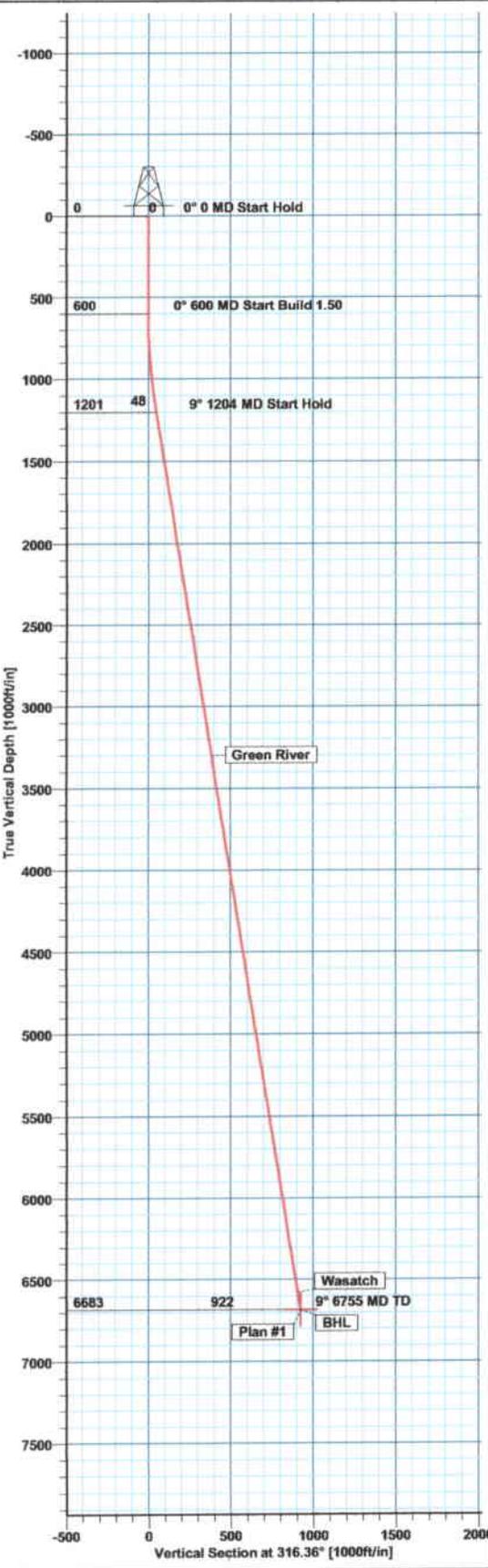
I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and 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.

8/8/06

Date



Mandie Crozier
Regulatory Specialist
Newfield Production Company




Azimuths to True North
Magnetic North: 11.96°

Magnetic Field
Strength: 52855nT
Dip Angle: 65.96°
Date: 2006-06-06
Model: Igrf2005

| SECTION DETAILS | | | | | | | | | | |
|-----------------|---------|------|--------|---------|--------|---------|------|--------|--------|--------|
| Sec | MD | Inc | Azi | TVD | +N-S | +E-W | OLeg | TFace | VSec | Target |
| 1 | 0.00 | 0.00 | 316.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2 | 600.00 | 0.00 | 316.36 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3 | 1204.23 | 9.06 | 316.36 | 1204.42 | 34.08 | -32.98 | 1.50 | 316.36 | 47.64 | |
| 4 | 6754.75 | 9.06 | 316.36 | 6683.00 | 667.00 | -636.00 | 0.00 | 0.00 | 921.52 | BHL |

| WELL DETAILS | | | | | | | |
|----------------|------|------|------------|------------|---------------|----------------|------|
| Name | +N-S | +E-W | Northing | Easting | Latitude | Longitude | Slot |
| MBNE C-25-8-16 | 0.00 | 0.00 | 7206309.42 | 2041712.87 | 40°05'39.520N | 110°03'55.730W | N/A |

SITE DETAILS

Monument Butte NE C-25-8-16
Sec. 25 T8S R16E

Site Centre Latitude: 40°05'39.520N
Longitude: 110°03'55.730W

Ground Level: 5416.00
Positional Uncertainty: 0.00
Convergence: 0.92

Plan: Plan #1 (MBNE C-25-8-16/OH)

Created By: Julie Seaman Date: 2006-06-06

FIELD DETAILS

Duchesne County, UT

Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRS 1980
Zone: Utah, Central Zone
Magnetic Model: Igrf2005

System Datum: Mean Sea Level
Local North: True North



Scientific Drilling International

Planning Report

| | | | |
|--|--|-----------------------|----------------|
| Company: Newfield Exploration Co. | Date: 2006-06-06 | Time: 15:40:48 | Page: 1 |
| Field: Duchesne County, UT | Co-ordinate(NE) Reference: Well: MBNE C-25-8-16, True North | | |
| Site: Monument Butte NE C-25-8-16 | Vertical (TVD) Reference: GL 5416' & RKB 12' 5428.0 | | |
| Well: MBNE C-25-8-16 | Section (VS) Reference: Well (0.00N,0.00E,316.36Azi) | | |
| Wellpath: OH | Plan: Plan #1 | | |

| | |
|--|---------------------------------------|
| Field: Duchesne County, UT | |
| Map System: US State Plane Coordinate System 1983 | Map Zone: Utah, Central Zone |
| Geo Datum: GRS 1980 | Coordinate System: Well Centre |
| Sys Datum: Mean Sea Level | Geomagnetic Model: igrf2005 |

Site: Monument Butte NE C-25-8-16
Sec. 25 T8S R16E

| | | |
|--------------------------------------|--------------------------------|-----------------------------------|
| Site Position: | Northing: 7206309.42 ft | Latitude: 40 5 39.520 N |
| From: Geographic | Easting: 2041712.87 ft | Longitude: 110 3 55.730 W |
| Position Uncertainty: 0.00 ft | | North Reference: True |
| Ground Level: 5416.00 ft | | Grid Convergence: 0.92 deg |

| | |
|--------------------------------------|----------------------------------|
| Well: MBNE C-25-8-16 | Slot Name: |
| SHL: 667' FNL, 1999' FEL | |
| Well Position: +N/-S 0.00 ft | Northing: 7206309.42 ft |
| +E/-W 0.00 ft | Easting: 2041712.87 ft |
| Position Uncertainty: 0.00 ft | Latitude: 40 5 39.520 N |
| | Longitude: 110 3 55.730 W |

| | |
|---|---|
| Wellpath: OH | Drilled From: Surface |
| Current Datum: GL 5416' & RKB 12' | Tie-on Depth: 0.00 ft |
| Magnetic Data: 2006-06-06 | Above System Datum: Mean Sea Level |
| Field Strength: 52855 nT | Declination: 11.96 deg |
| Vertical Section: Depth From (TVD) | Mag Dip Angle: 65.96 deg |
| ft | +N/-S |
| | ft |
| 6683.00 | 0.00 |
| | 0.00 |
| | 316.36 |

| | |
|-----------------------|----------------------------------|
| Plan: Plan #1 | Date Composed: 2006-06-06 |
| Principal: Yes | Version: 1 |
| | Tied-to: From Surface |

Plan Section Information

| MD ft | Incl deg | Azim deg | TVD ft | +N/-S ft | +E/-W ft | DLS deg/100ft | Build deg/100ft | Turn deg/100ft | TFO deg | Target |
|----------|-------------|-------------|-----------|-------------|-------------|------------------|--------------------|-------------------|------------|--------|
| 0.00 | 0.00 | 316.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 600.00 | 0.00 | 316.36 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1203.93 | 9.06 | 316.36 | 1201.42 | 34.48 | -32.88 | 1.50 | 1.50 | 0.00 | 316.36 | |
| 6754.75 | 9.06 | 316.36 | 6683.00 | 667.00 | -636.00 | 0.00 | 0.00 | 0.00 | 0.00 | BHL |

Section 1 : Start Hold

| MD ft | Incl deg | Azim deg | TVD ft | +N/-S ft | +E/-W ft | VS ft | DLS deg/100ft | Build deg/100ft | Turn deg/100ft | TFO deg |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|------------|
| 0.00 | 0.00 | 316.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 0.00 | 316.36 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 316.36 |
| 200.00 | 0.00 | 316.36 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 316.36 |
| 300.00 | 0.00 | 316.36 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 316.36 |
| 400.00 | 0.00 | 316.36 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 316.36 |
| 500.00 | 0.00 | 316.36 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 316.36 |
| 600.00 | 0.00 | 316.36 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 316.36 |

Section 2 : Start Build 1.50

| MD ft | Incl deg | Azim deg | TVD ft | +N/-S ft | +E/-W ft | VS ft | DLS deg/100ft | Build deg/100ft | Turn deg/100ft | TFO deg |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|------------|
| 700.00 | 1.50 | 316.36 | 699.99 | 0.95 | -0.90 | 1.31 | 1.50 | 1.50 | 0.00 | 0.00 |
| 800.00 | 3.00 | 316.36 | 799.91 | 3.79 | -3.61 | 5.23 | 1.50 | 1.50 | 0.00 | 0.00 |
| 900.00 | 4.50 | 316.36 | 899.69 | 8.52 | -8.13 | 11.77 | 1.50 | 1.50 | 0.00 | 0.00 |
| 1000.00 | 6.00 | 316.36 | 999.27 | 15.14 | -14.44 | 20.92 | 1.50 | 1.50 | 0.00 | 0.00 |
| 1100.00 | 7.50 | 316.36 | 1098.57 | 23.65 | -22.55 | 32.68 | 1.50 | 1.50 | 0.00 | 0.00 |
| 1203.93 | 9.06 | 316.36 | 1201.42 | 34.48 | -32.88 | 47.64 | 1.50 | 1.50 | 0.00 | 0.00 |



Scientific Drilling International

Planning Report

| | | | |
|--|--|-----------------------|----------------|
| Company: Newfield Exploration Co. | Date: 2006-06-06 | Time: 15:40:48 | Page: 2 |
| Field: Duchesne County, UT | Co-ordinate(NE) Reference: Well: MBNE C-25-8-16, True North | | |
| Site: Monument Butte NE C-25-8-16 | Vertical (TVD) Reference: GL 5416' & RKB 12' 5428.0 | | |
| Well: MBNE C-25-8-16 | Section (VS) Reference: Well (0.00N,0.00E,316.36Azi) | | |
| Wellpath: OH | Plan: Plan #1 | | |

Section 3 : Start Hold

| MD ft | Incl deg | Azim deg | TVD ft | +N/-S ft | +E/-W ft | VS ft | DLS deg/100ft | BuIld deg/100ft | Turn deg/100ft | TFO deg |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|------------|
| 1300.00 | 9.06 | 316.36 | 1296.29 | 45.43 | -43.32 | 62.77 | 0.00 | 0.00 | 0.00 | 180.00 |
| 1400.00 | 9.06 | 316.36 | 1395.04 | 56.82 | -54.18 | 78.52 | 0.00 | 0.00 | 0.00 | 180.00 |
| 1500.00 | 9.06 | 316.36 | 1493.79 | 68.22 | -65.05 | 94.26 | 0.00 | 0.00 | 0.00 | 180.00 |
| 1600.00 | 9.06 | 316.36 | 1592.55 | 79.61 | -75.91 | 110.01 | 0.00 | 0.00 | 0.00 | 180.00 |
| 1700.00 | 9.06 | 316.36 | 1691.30 | 91.01 | -86.78 | 125.75 | 0.00 | 0.00 | 0.00 | 180.00 |
| 1800.00 | 9.06 | 316.36 | 1790.05 | 102.40 | -97.64 | 141.50 | 0.00 | 0.00 | 0.00 | 180.00 |
| 1900.00 | 9.06 | 316.36 | 1888.80 | 113.80 | -108.51 | 157.24 | 0.00 | 0.00 | 0.00 | 180.00 |
| 2000.00 | 9.06 | 316.36 | 1987.56 | 125.19 | -119.38 | 172.99 | 0.00 | 0.00 | 0.00 | 180.00 |
| 2100.00 | 9.06 | 316.36 | 2086.31 | 136.59 | -130.24 | 188.73 | 0.00 | 0.00 | 0.00 | 180.00 |
| 2200.00 | 9.06 | 316.36 | 2185.06 | 147.98 | -141.11 | 204.48 | 0.00 | 0.00 | 0.00 | 180.00 |
| 2300.00 | 9.06 | 316.36 | 2283.82 | 159.38 | -151.97 | 220.22 | 0.00 | 0.00 | 0.00 | 180.00 |
| 2400.00 | 9.06 | 316.36 | 2382.57 | 170.77 | -162.84 | 235.97 | 0.00 | 0.00 | 0.00 | 180.00 |
| 2500.00 | 9.06 | 316.36 | 2481.32 | 182.17 | -173.70 | 251.71 | 0.00 | 0.00 | 0.00 | 180.00 |
| 2600.00 | 9.06 | 316.36 | 2580.07 | 193.56 | -184.57 | 267.46 | 0.00 | 0.00 | 0.00 | 180.00 |
| 2700.00 | 9.06 | 316.36 | 2678.83 | 204.96 | -195.43 | 283.20 | 0.00 | 0.00 | 0.00 | 180.00 |
| 2800.00 | 9.06 | 316.36 | 2777.58 | 216.35 | -206.30 | 298.95 | 0.00 | 0.00 | 0.00 | 180.00 |
| 2900.00 | 9.06 | 316.36 | 2876.33 | 227.75 | -217.16 | 314.69 | 0.00 | 0.00 | 0.00 | 180.00 |
| 3000.00 | 9.06 | 316.36 | 2975.08 | 239.14 | -228.03 | 330.44 | 0.00 | 0.00 | 0.00 | 180.00 |
| 3100.00 | 9.06 | 316.36 | 3073.84 | 250.54 | -238.90 | 346.18 | 0.00 | 0.00 | 0.00 | 180.00 |
| 3200.00 | 9.06 | 316.36 | 3172.59 | 261.93 | -249.76 | 361.93 | 0.00 | 0.00 | 0.00 | 180.00 |
| 3300.00 | 9.06 | 316.36 | 3271.34 | 273.33 | -260.63 | 377.67 | 0.00 | 0.00 | 0.00 | 180.00 |
| 3332.06 | 9.06 | 316.36 | 3303.00 | 276.98 | -264.11 | 382.72 | 0.00 | 0.00 | 0.00 | 180.00 |
| 3400.00 | 9.06 | 316.36 | 3370.10 | 284.72 | -271.49 | 393.42 | 0.00 | 0.00 | 0.00 | 180.00 |
| 3500.00 | 9.06 | 316.36 | 3468.85 | 296.12 | -282.36 | 409.16 | 0.00 | 0.00 | 0.00 | 180.00 |
| 3600.00 | 9.06 | 316.36 | 3567.60 | 307.51 | -293.22 | 424.91 | 0.00 | 0.00 | 0.00 | 180.00 |
| 3700.00 | 9.06 | 316.36 | 3666.35 | 318.91 | -304.09 | 440.65 | 0.00 | 0.00 | 0.00 | 180.00 |
| 3800.00 | 9.06 | 316.36 | 3765.11 | 330.30 | -314.95 | 456.40 | 0.00 | 0.00 | 0.00 | 180.00 |
| 3900.00 | 9.06 | 316.36 | 3863.86 | 341.70 | -325.82 | 472.14 | 0.00 | 0.00 | 0.00 | 180.00 |
| 4000.00 | 9.06 | 316.36 | 3962.61 | 353.09 | -336.68 | 487.89 | 0.00 | 0.00 | 0.00 | 180.00 |
| 4100.00 | 9.06 | 316.36 | 4061.36 | 364.49 | -347.55 | 503.63 | 0.00 | 0.00 | 0.00 | 180.00 |
| 4200.00 | 9.06 | 316.36 | 4160.12 | 375.88 | -358.42 | 519.38 | 0.00 | 0.00 | 0.00 | 180.00 |
| 4300.00 | 9.06 | 316.36 | 4258.87 | 387.28 | -369.28 | 535.12 | 0.00 | 0.00 | 0.00 | 180.00 |
| 4400.00 | 9.06 | 316.36 | 4357.62 | 398.68 | -380.15 | 550.87 | 0.00 | 0.00 | 0.00 | 180.00 |
| 4500.00 | 9.06 | 316.36 | 4456.37 | 410.07 | -391.01 | 566.61 | 0.00 | 0.00 | 0.00 | 180.00 |
| 4600.00 | 9.06 | 316.36 | 4555.13 | 421.47 | -401.88 | 582.36 | 0.00 | 0.00 | 0.00 | 180.00 |
| 4700.00 | 9.06 | 316.36 | 4653.88 | 432.86 | -412.74 | 598.10 | 0.00 | 0.00 | 0.00 | 180.00 |
| 4800.00 | 9.06 | 316.36 | 4752.63 | 444.26 | -423.61 | 613.85 | 0.00 | 0.00 | 0.00 | 180.00 |
| 4900.00 | 9.06 | 316.36 | 4851.39 | 455.65 | -434.47 | 629.59 | 0.00 | 0.00 | 0.00 | 180.00 |
| 5000.00 | 9.06 | 316.36 | 4950.14 | 467.05 | -445.34 | 645.34 | 0.00 | 0.00 | 0.00 | 180.00 |
| 5100.00 | 9.06 | 316.36 | 5048.89 | 478.44 | -456.20 | 661.08 | 0.00 | 0.00 | 0.00 | 180.00 |
| 5200.00 | 9.06 | 316.36 | 5147.64 | 489.84 | -467.07 | 676.83 | 0.00 | 0.00 | 0.00 | 180.00 |
| 5300.00 | 9.06 | 316.36 | 5246.40 | 501.23 | -477.93 | 692.57 | 0.00 | 0.00 | 0.00 | 180.00 |
| 5400.00 | 9.06 | 316.36 | 5345.15 | 512.63 | -488.80 | 708.32 | 0.00 | 0.00 | 0.00 | 180.00 |
| 5500.00 | 9.06 | 316.36 | 5443.90 | 524.02 | -499.67 | 724.06 | 0.00 | 0.00 | 0.00 | 180.00 |
| 5600.00 | 9.06 | 316.36 | 5542.65 | 535.42 | -510.53 | 739.81 | 0.00 | 0.00 | 0.00 | 180.00 |
| 5700.00 | 9.06 | 316.36 | 5641.41 | 546.81 | -521.40 | 755.55 | 0.00 | 0.00 | 0.00 | 180.00 |
| 5800.00 | 9.06 | 316.36 | 5740.16 | 558.21 | -532.26 | 771.30 | 0.00 | 0.00 | 0.00 | 180.00 |
| 5900.00 | 9.06 | 316.36 | 5838.91 | 569.60 | -543.13 | 787.04 | 0.00 | 0.00 | 0.00 | 180.00 |
| 6000.00 | 9.06 | 316.36 | 5937.67 | 581.00 | -553.99 | 802.79 | 0.00 | 0.00 | 0.00 | 180.00 |
| 6100.00 | 9.06 | 316.36 | 6036.42 | 592.39 | -564.86 | 818.53 | 0.00 | 0.00 | 0.00 | 180.00 |
| 6200.00 | 9.06 | 316.36 | 6135.17 | 603.79 | -575.72 | 834.28 | 0.00 | 0.00 | 0.00 | 180.00 |
| 6300.00 | 9.06 | 316.36 | 6233.92 | 615.18 | -586.59 | 850.02 | 0.00 | 0.00 | 0.00 | 180.00 |
| 6400.00 | 9.06 | 316.36 | 6332.68 | 626.58 | -597.45 | 865.77 | 0.00 | 0.00 | 0.00 | 180.00 |
| 6500.00 | 9.06 | 316.36 | 6431.43 | 637.97 | -608.32 | 881.51 | 0.00 | 0.00 | 0.00 | 180.00 |
| 6600.00 | 9.06 | 316.36 | 6530.18 | 649.37 | -619.19 | 897.26 | 0.00 | 0.00 | 0.00 | 180.00 |
| 6648.42 | 9.06 | 316.36 | 6578.00 | 654.88 | -624.45 | 904.88 | 0.00 | 0.00 | 0.00 | 180.00 |
| 6700.00 | 9.06 | 316.36 | 6628.93 | 660.76 | -630.05 | 913.00 | 0.00 | 0.00 | 0.00 | 180.00 |
| 6754.75 | 9.06 | 316.36 | 6683.00 | 667.00 | -636.00 | 921.62 | 0.00 | 0.00 | 0.00 | 180.00 |



Scientific Drilling International

Planning Report

Company: Newfield Exploration Co.
Field: Duchesne County, UT
Site: Monument Butte NE C-25-8-16
Well: MBNE C-25-8-16
Wellpath: OH

Date: 2006-06-06 **Time:** 15:40:48 **Page:** 3
Co-ordinate(NE) Reference: Well: MBNE C-25-8-16, True North
Vertical (TVD) Reference: GL 5416' & RKB 12' 5428.0
Section (VS) Reference: Well (0.00N,0.00E,316.36Azi)
Plan: Plan #1

Survey

| MD ft | Incl deg | Azim deg | TVD ft | +N/-S ft | +E/-W ft | VS ft | DLS deg/100ft | BuId deg/100ft | Turn deg/100ft | Tool/Comment |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|-------------------|-------------------|--------------|
| 0.00 | 0.00 | 316.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 100.00 | 0.00 | 316.36 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | MWD |
| 200.00 | 0.00 | 316.36 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | MWD |
| 300.00 | 0.00 | 316.36 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | MWD |
| 400.00 | 0.00 | 316.36 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | MWD |
| 500.00 | 0.00 | 316.36 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | MWD |
| 600.00 | 0.00 | 316.36 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | MWD |
| 700.00 | 1.50 | 316.36 | 699.99 | 0.95 | -0.90 | 1.31 | 1.50 | 1.50 | 0.00 | MWD |
| 800.00 | 3.00 | 316.36 | 799.91 | 3.79 | -3.61 | 5.23 | 1.50 | 1.50 | 0.00 | MWD |
| 900.00 | 4.50 | 316.36 | 899.69 | 8.52 | -8.13 | 11.77 | 1.50 | 1.50 | 0.00 | MWD |
| 1000.00 | 6.00 | 316.36 | 999.27 | 15.14 | -14.44 | 20.92 | 1.50 | 1.50 | 0.00 | MWD |
| 1100.00 | 7.50 | 316.36 | 1098.57 | 23.65 | -22.55 | 32.68 | 1.50 | 1.50 | 0.00 | MWD |
| 1203.93 | 9.06 | 316.36 | 1201.42 | 34.48 | -32.88 | 47.64 | 1.50 | 1.50 | 0.00 | MWD |
| 1300.00 | 9.06 | 316.36 | 1296.29 | 45.43 | -43.32 | 62.77 | 0.00 | 0.00 | 0.00 | MWD |
| 1400.00 | 9.06 | 316.36 | 1395.04 | 56.82 | -54.18 | 78.52 | 0.00 | 0.00 | 0.00 | MWD |
| 1500.00 | 9.06 | 316.36 | 1493.79 | 68.22 | -65.05 | 94.26 | 0.00 | 0.00 | 0.00 | MWD |
| 1600.00 | 9.06 | 316.36 | 1592.55 | 79.61 | -75.91 | 110.01 | 0.00 | 0.00 | 0.00 | MWD |
| 1700.00 | 9.06 | 316.36 | 1691.30 | 91.01 | -86.78 | 125.75 | 0.00 | 0.00 | 0.00 | MWD |
| 1800.00 | 9.06 | 316.36 | 1790.05 | 102.40 | -97.64 | 141.50 | 0.00 | 0.00 | 0.00 | MWD |
| 1900.00 | 9.06 | 316.36 | 1888.80 | 113.80 | -108.51 | 157.24 | 0.00 | 0.00 | 0.00 | MWD |
| 2000.00 | 9.06 | 316.36 | 1987.56 | 125.19 | -119.38 | 172.99 | 0.00 | 0.00 | 0.00 | MWD |
| 2100.00 | 9.06 | 316.36 | 2086.31 | 136.59 | -130.24 | 188.73 | 0.00 | 0.00 | 0.00 | MWD |
| 2200.00 | 9.06 | 316.36 | 2185.06 | 147.98 | -141.11 | 204.48 | 0.00 | 0.00 | 0.00 | MWD |
| 2300.00 | 9.06 | 316.36 | 2283.82 | 159.38 | -151.97 | 220.22 | 0.00 | 0.00 | 0.00 | MWD |
| 2400.00 | 9.06 | 316.36 | 2382.57 | 170.77 | -162.84 | 235.97 | 0.00 | 0.00 | 0.00 | MWD |
| 2500.00 | 9.06 | 316.36 | 2481.32 | 182.17 | -173.70 | 251.71 | 0.00 | 0.00 | 0.00 | MWD |
| 2600.00 | 9.06 | 316.36 | 2580.07 | 193.56 | -184.57 | 267.46 | 0.00 | 0.00 | 0.00 | MWD |
| 2700.00 | 9.06 | 316.36 | 2678.83 | 204.96 | -195.43 | 283.20 | 0.00 | 0.00 | 0.00 | MWD |
| 2800.00 | 9.06 | 316.36 | 2777.58 | 216.35 | -206.30 | 298.95 | 0.00 | 0.00 | 0.00 | MWD |
| 2900.00 | 9.06 | 316.36 | 2876.33 | 227.75 | -217.16 | 314.69 | 0.00 | 0.00 | 0.00 | MWD |
| 3000.00 | 9.06 | 316.36 | 2975.08 | 239.14 | -228.03 | 330.44 | 0.00 | 0.00 | 0.00 | MWD |
| 3100.00 | 9.06 | 316.36 | 3073.84 | 250.54 | -238.90 | 346.18 | 0.00 | 0.00 | 0.00 | MWD |
| 3200.00 | 9.06 | 316.36 | 3172.59 | 261.93 | -249.76 | 361.93 | 0.00 | 0.00 | 0.00 | MWD |
| 3300.00 | 9.06 | 316.36 | 3271.34 | 273.33 | -260.63 | 377.67 | 0.00 | 0.00 | 0.00 | MWD |
| 3332.06 | 9.06 | 316.36 | 3303.00 | 276.98 | -264.11 | 382.72 | 0.00 | 0.00 | 0.00 | Green River |
| 3400.00 | 9.06 | 316.36 | 3370.10 | 284.72 | -271.49 | 393.42 | 0.00 | 0.00 | 0.00 | MWD |
| 3500.00 | 9.06 | 316.36 | 3468.85 | 296.12 | -282.36 | 409.16 | 0.00 | 0.00 | 0.00 | MWD |
| 3600.00 | 9.06 | 316.36 | 3567.60 | 307.51 | -293.22 | 424.91 | 0.00 | 0.00 | 0.00 | MWD |
| 3700.00 | 9.06 | 316.36 | 3666.35 | 318.91 | -304.09 | 440.65 | 0.00 | 0.00 | 0.00 | MWD |
| 3800.00 | 9.06 | 316.36 | 3765.11 | 330.30 | -314.95 | 456.40 | 0.00 | 0.00 | 0.00 | MWD |
| 3900.00 | 9.06 | 316.36 | 3863.86 | 341.70 | -325.82 | 472.14 | 0.00 | 0.00 | 0.00 | MWD |
| 4000.00 | 9.06 | 316.36 | 3962.61 | 353.09 | -336.68 | 487.89 | 0.00 | 0.00 | 0.00 | MWD |
| 4100.00 | 9.06 | 316.36 | 4061.36 | 364.49 | -347.55 | 503.63 | 0.00 | 0.00 | 0.00 | MWD |
| 4200.00 | 9.06 | 316.36 | 4160.12 | 375.88 | -358.42 | 519.38 | 0.00 | 0.00 | 0.00 | MWD |
| 4300.00 | 9.06 | 316.36 | 4258.87 | 387.28 | -369.28 | 535.12 | 0.00 | 0.00 | 0.00 | MWD |
| 4400.00 | 9.06 | 316.36 | 4357.62 | 398.68 | -380.15 | 550.87 | 0.00 | 0.00 | 0.00 | MWD |
| 4500.00 | 9.06 | 316.36 | 4456.37 | 410.07 | -391.01 | 566.61 | 0.00 | 0.00 | 0.00 | MWD |
| 4600.00 | 9.06 | 316.36 | 4555.13 | 421.47 | -401.88 | 582.36 | 0.00 | 0.00 | 0.00 | MWD |
| 4700.00 | 9.06 | 316.36 | 4653.88 | 432.86 | -412.74 | 598.10 | 0.00 | 0.00 | 0.00 | MWD |
| 4800.00 | 9.06 | 316.36 | 4752.63 | 444.26 | -423.61 | 613.85 | 0.00 | 0.00 | 0.00 | MWD |
| 4900.00 | 9.06 | 316.36 | 4851.39 | 455.65 | -434.47 | 629.59 | 0.00 | 0.00 | 0.00 | MWD |
| 5000.00 | 9.06 | 316.36 | 4950.14 | 467.05 | -445.34 | 645.34 | 0.00 | 0.00 | 0.00 | MWD |
| 5100.00 | 9.06 | 316.36 | 5048.89 | 478.44 | -456.20 | 661.08 | 0.00 | 0.00 | 0.00 | MWD |
| 5200.00 | 9.06 | 316.36 | 5147.64 | 489.84 | -467.07 | 676.83 | 0.00 | 0.00 | 0.00 | MWD |



Scientific Drilling International

Planning Report

| | | | |
|--|--|-----------------------|----------------|
| Company: Newfield Exploration Co. | Date: 2006-06-06 | Time: 15:40:48 | Page: 4 |
| Field: Duchesne County, UT | Co-ordinate(NE) Reference: Well: MBNE C-25-8-16, True North | | |
| Site: Monument Butte NE C-25-8-16 | Vertical (TVD) Reference: GL 5416' & RKB 12' 5428.0 | | |
| Well: MBNE C-25-8-16 | Section (VS) Reference: Well (0.00N,0.00E,316.36Azi) | | |
| Wellpath: OH | Plan: Plan #1 | | |

Survey

| MD ft | Incl deg | Azim deg | TVD ft | +N/-S ft | +E/-W ft | VS ft | DLS deg/100ft | Build deg/100ft | Turn deg/100ft | Tool/Comment |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|--------------|
| 5300.00 | 9.06 | 316.36 | 5246.40 | 501.23 | -477.93 | 692.57 | 0.00 | 0.00 | 0.00 | MWD |
| 5400.00 | 9.06 | 316.36 | 5345.15 | 512.63 | -488.80 | 708.32 | 0.00 | 0.00 | 0.00 | MWD |
| 5500.00 | 9.06 | 316.36 | 5443.90 | 524.02 | -499.67 | 724.06 | 0.00 | 0.00 | 0.00 | MWD |
| 5600.00 | 9.06 | 316.36 | 5542.65 | 535.42 | -510.53 | 739.81 | 0.00 | 0.00 | 0.00 | MWD |
| 5700.00 | 9.06 | 316.36 | 5641.41 | 546.81 | -521.40 | 755.55 | 0.00 | 0.00 | 0.00 | MWD |
| 5800.00 | 9.06 | 316.36 | 5740.16 | 558.21 | -532.26 | 771.30 | 0.00 | 0.00 | 0.00 | MWD |
| 5900.00 | 9.06 | 316.36 | 5838.91 | 569.60 | -543.13 | 787.04 | 0.00 | 0.00 | 0.00 | MWD |
| 6000.00 | 9.06 | 316.36 | 5937.67 | 581.00 | -553.99 | 802.79 | 0.00 | 0.00 | 0.00 | MWD |
| 6100.00 | 9.06 | 316.36 | 6036.42 | 592.39 | -564.86 | 818.53 | 0.00 | 0.00 | 0.00 | MWD |
| 6200.00 | 9.06 | 316.36 | 6135.17 | 603.79 | -575.72 | 834.28 | 0.00 | 0.00 | 0.00 | MWD |
| 6300.00 | 9.06 | 316.36 | 6233.92 | 615.18 | -586.59 | 850.02 | 0.00 | 0.00 | 0.00 | MWD |
| 6400.00 | 9.06 | 316.36 | 6332.68 | 626.58 | -597.45 | 865.77 | 0.00 | 0.00 | 0.00 | MWD |
| 6500.00 | 9.06 | 316.36 | 6431.43 | 637.97 | -608.32 | 881.51 | 0.00 | 0.00 | 0.00 | MWD |
| 6600.00 | 9.06 | 316.36 | 6530.18 | 649.37 | -619.19 | 897.26 | 0.00 | 0.00 | 0.00 | MWD |
| 6648.42 | 9.06 | 316.36 | 6578.00 | 654.88 | -624.45 | 904.88 | 0.00 | 0.00 | 0.00 | Wasatch |
| 6700.00 | 9.06 | 316.36 | 6628.93 | 660.76 | -630.05 | 913.00 | 0.00 | 0.00 | 0.00 | MWD |
| 6754.75 | 9.06 | 316.36 | 6683.00 | 667.00 | -636.00 | 921.62 | 0.00 | 0.00 | 0.00 | BHL |

Targets

| Name | Description Dip. | Dir. | TVD ft | +N/-S ft | +E/-W ft | Map Northing ft | Map Easting ft | ← Latitude → | | ← Longitude → | | | | | |
|------------------|---------------------|------|-----------|-------------|-------------|-----------------------|----------------------|--------------|-----|---------------|-----|-----|-----|-------|---|
| | | | | | | | | Deg | Min | Sec | Deg | Min | Sec | | |
| BHL | | | 6683.00 | 667.00 | -636.00 | 7206966.14 | 2041066.25 | 40 | 5 | 46.112 | N | 110 | 4 | 3.915 | W |
| -Plan hit target | | | | | | | | | | | | | | | |

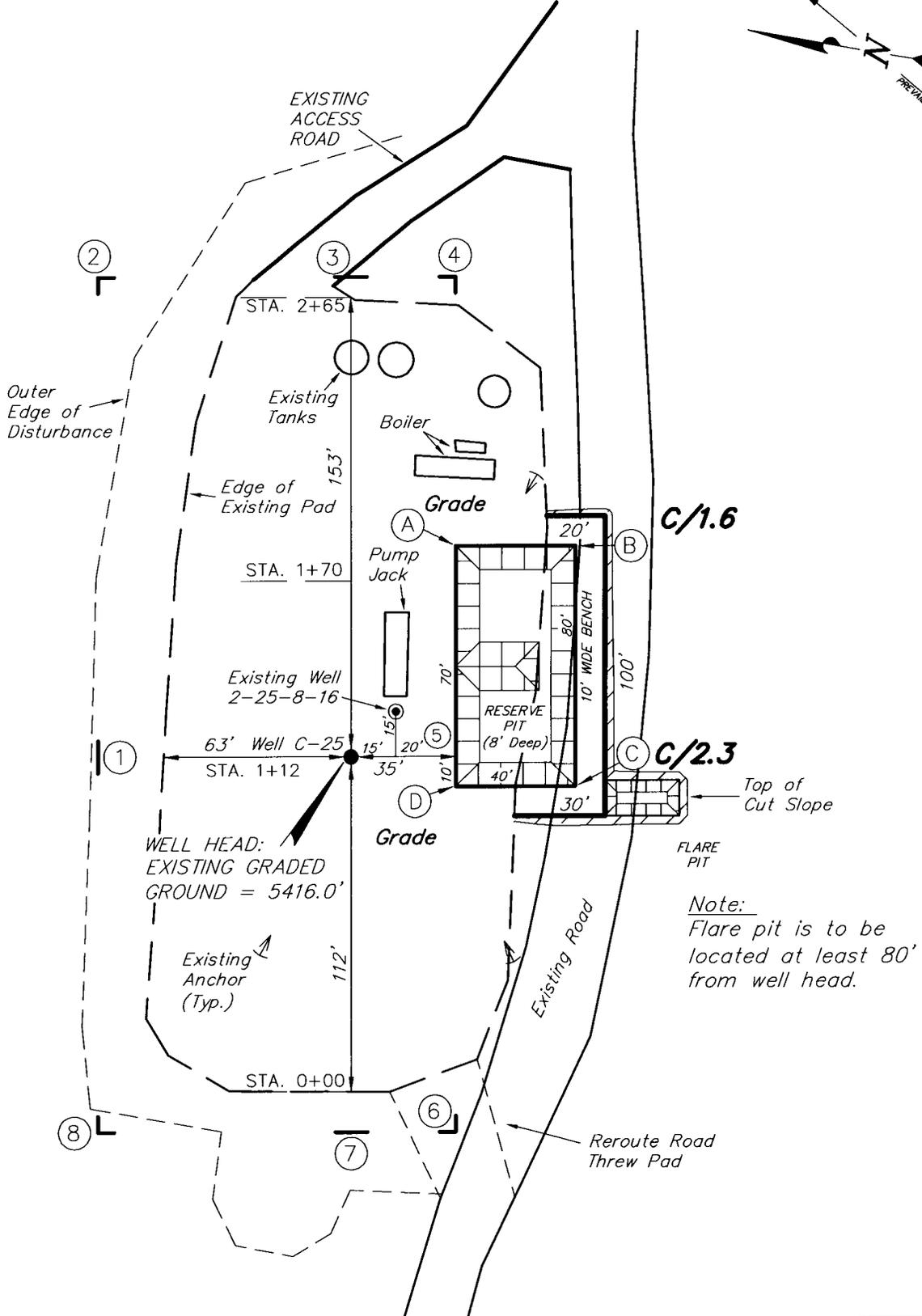
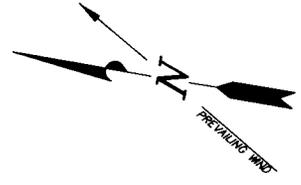
Formations

| MD ft | TVD ft | Formations | Lithology | Dip Angle deg | Dip Direction deg |
|----------|-----------|-------------|-----------|------------------|----------------------|
| 3332.06 | 3303.00 | Green River | | 0.00 | 0.00 |
| 6648.42 | 6578.00 | Wasatch | | 0.00 | 0.00 |

NEWFIELD PRODUCTION COMPANY

MONUMENT BUTTE NE 2-25-8-16 (C-25)

Section 25, T8S, R16E, S.L.B.&M.



C/1.6

C/2.3

Note:
Flare pit is to be located at least 80' from well head.

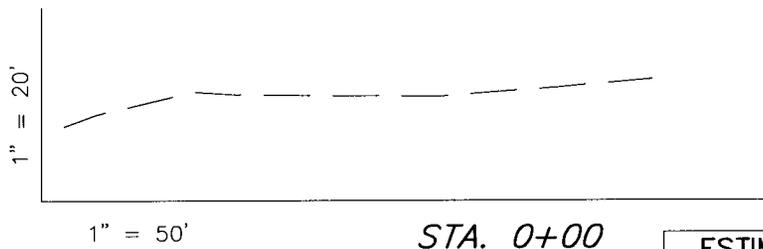
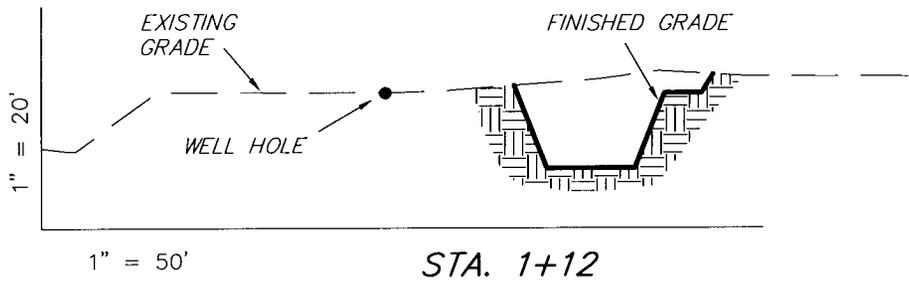
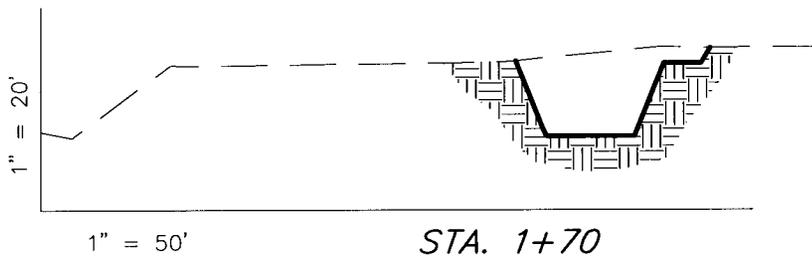
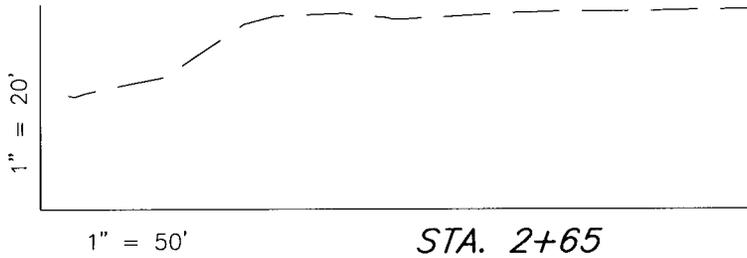
| | |
|-------------------|-----------------|
| SURVEYED BY: J.H. | SCALE: 1" = 50' |
| DRAWN BY: F.T.M. | DATE: 05-22-06 |

Tri State
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
(435) 781-2501

NEWFIELD PRODUCTION COMPANY

CROSS SECTIONS

MONUMENT BUTTE NE 2-25-8-16 (C-25)



NOTE:
UNLESS OTHERWISE NOTED
ALL CUT/FILL SLOPES ARE
AT 1.5:1

| ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards) | | | | |
|---|-----|------|--|--------|
| ITEM | CUT | FILL | 6" TOPSOIL | EXCESS |
| PAD | 320 | 0 | Topsoil is not included in Pad Cut | 320 |
| PIT | 640 | 0 | | 640 |
| TOTALS | 960 | 0 | N/A | 960 |

SURVEYED BY: J.H.

SCALE: 1" = 50'

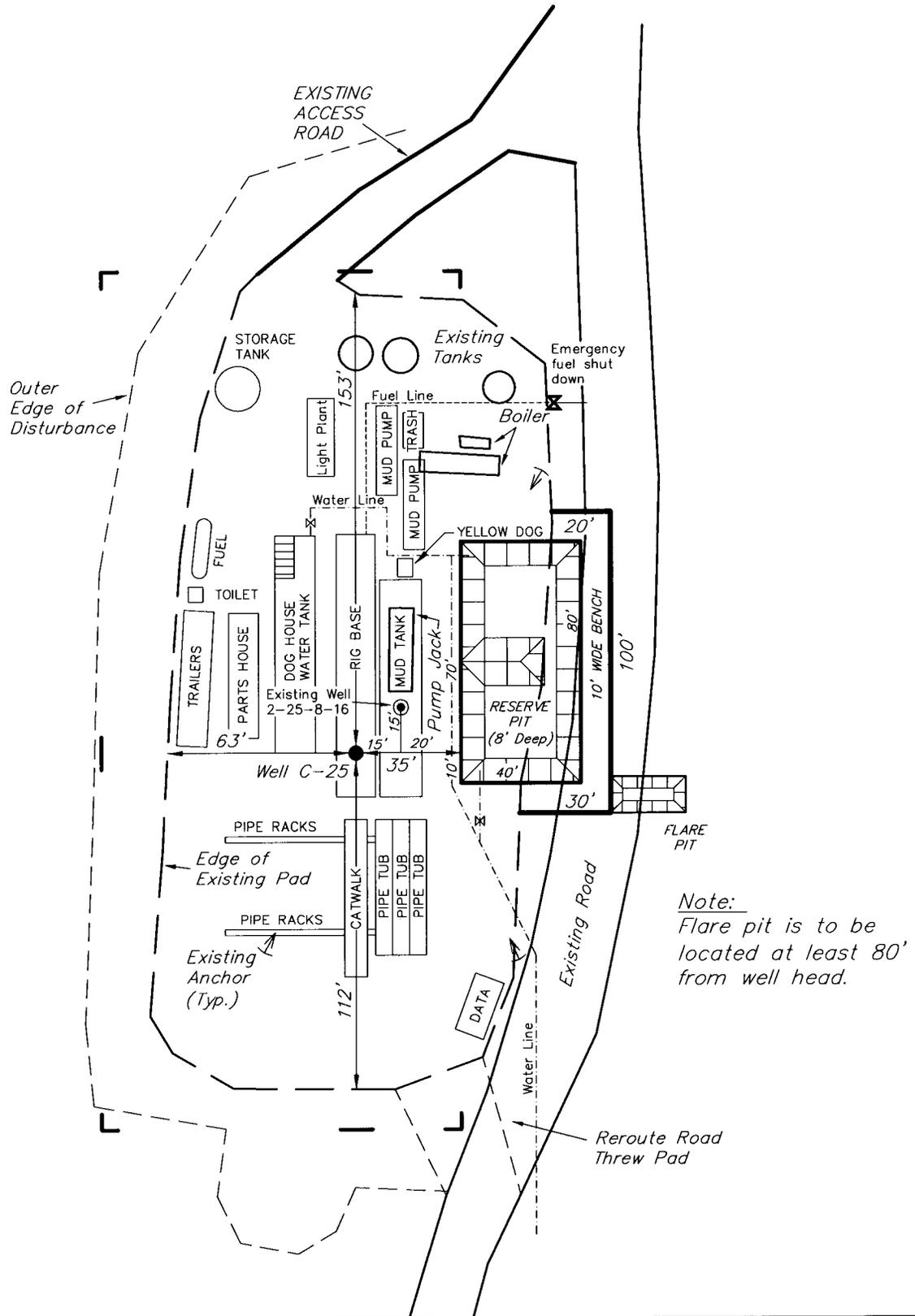
DRAWN BY: F.T.M.

DATE: 05-22-06

(435) 781-2501

Tri State
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

NEWFIELD PRODUCTION COMPANY
TYPICAL RIG LAYOUT
MONUMENT BUTTE NE 2-25-8-16 (C-25)



| | |
|-------------------|-----------------|
| SURVEYED BY: J.H. | SCALE: 1" = 50' |
| DRAWN BY: F.T.M. | DATE: 05-22-06 |

Tri State
 Land Surveying, Inc.
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078
 (435) 781-2501

Newfield Production Company Proposed Site Facility Diagram

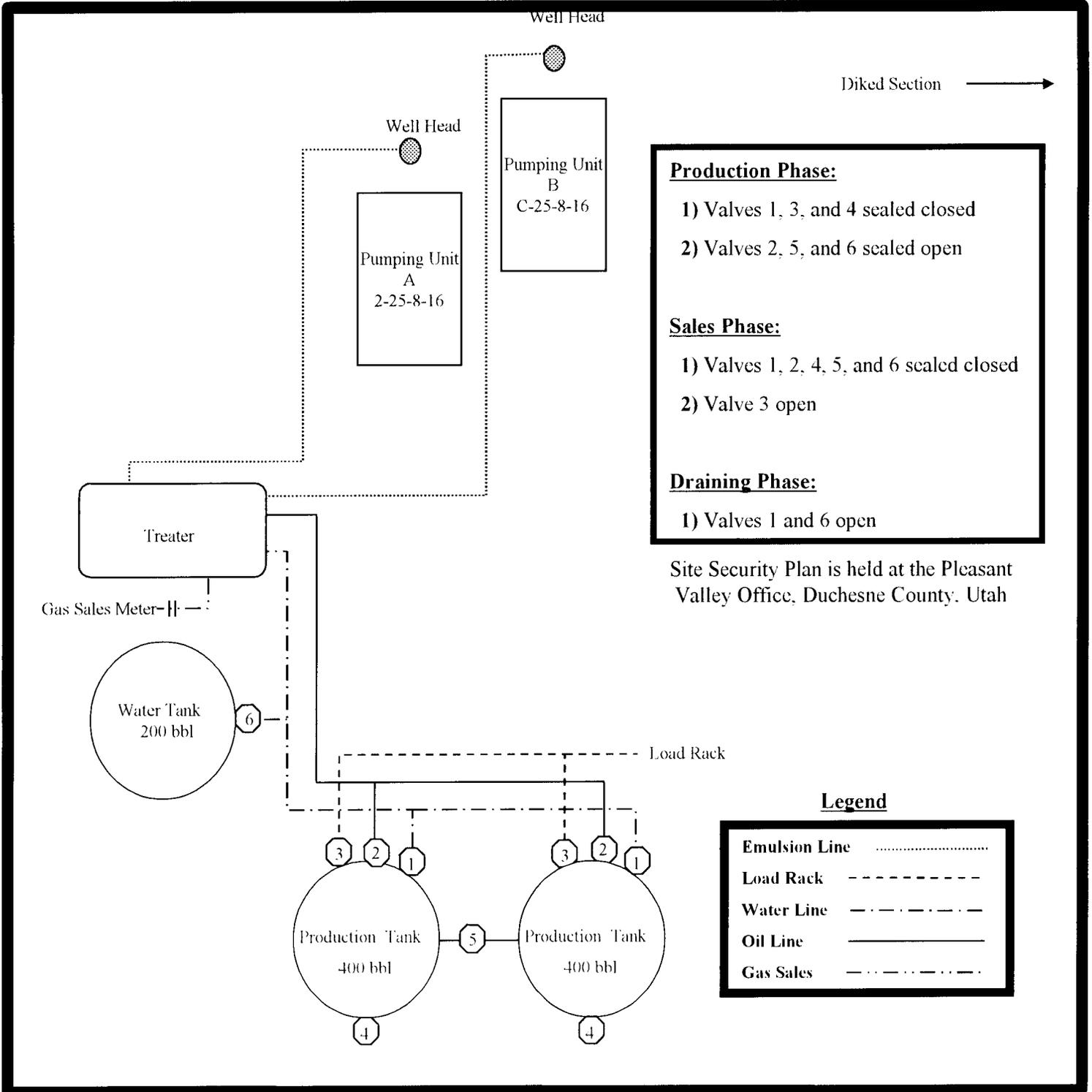
Mon. Butte NE Federal C-25-8-16

From the 2-25-8-16 Location

NW/NE Sec. 25 T8S, 16E

Duchesne County, Utah

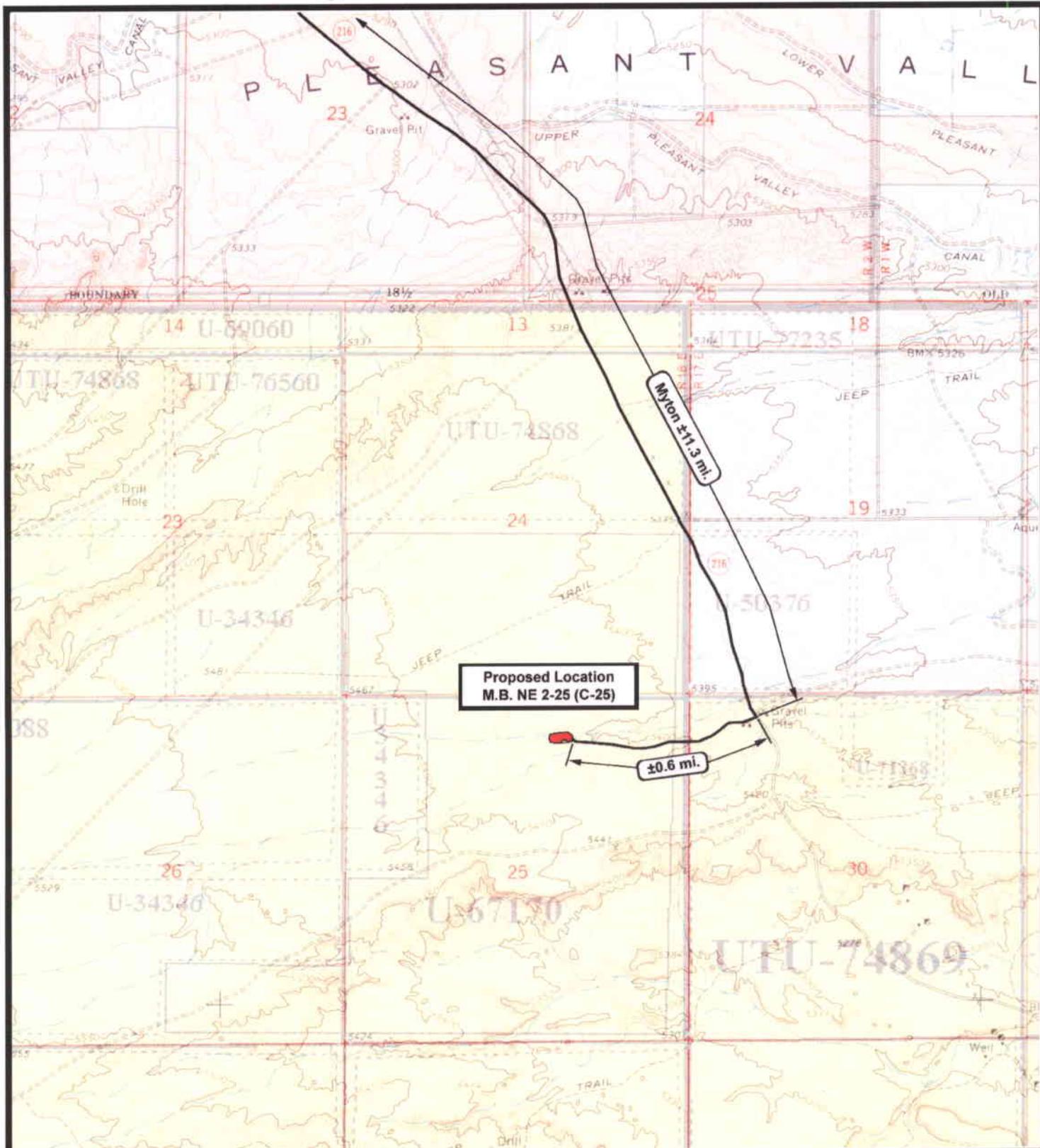
UTU-67170



- Production Phase:**
- 1) Valves 1, 3, and 4 sealed closed
 - 2) Valves 2, 5, and 6 sealed open
- Sales Phase:**
- 1) Valves 1, 2, 4, 5, and 6 sealed closed
 - 2) Valve 3 open
- Draining Phase:**
- 1) Valves 1 and 6 open

Site Security Plan is held at the Pleasant Valley Office, Duchesne County, Utah

| Legend | |
|---------------|-------------|
| Emulsion Line | |
| Load Rack | ----- |
| Water Line | - . - . - . |
| Oil Line | ————— |
| Gas Sales | - |



**Proposed Location
M.B. NE 2-25 (C-25)**

Myton 21.3 mi.

±0.6 mi.

NEWFIELD
Exploration Company

**Monument Butte NE 2-25-8-16 (C-25)
SEC. 25, T8S, R16E, S.L.B.&M.**



Tri-State
Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

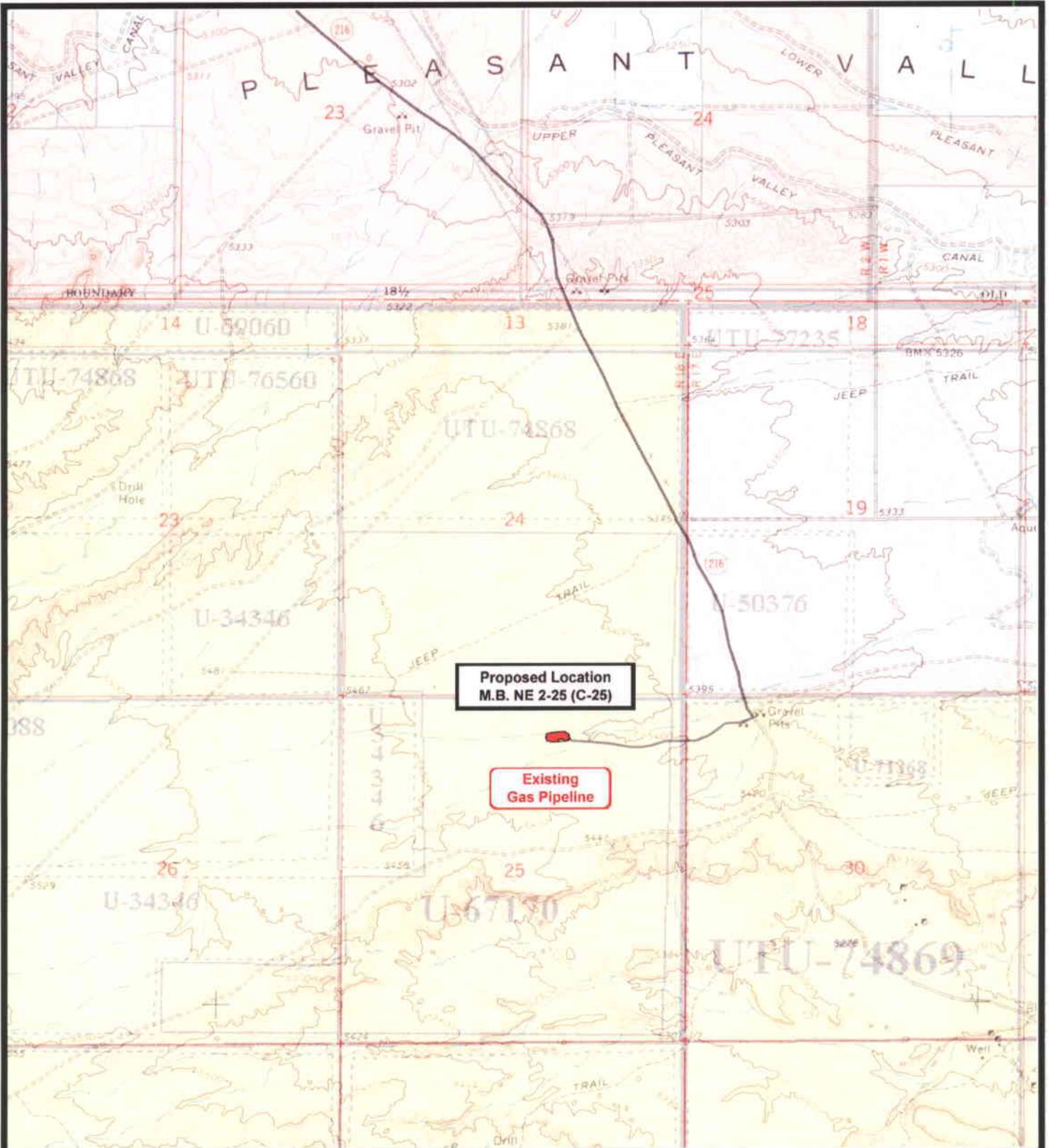
SCALE: 1" = 2,000'
DRAWN BY: mw
DATE: 05-23-2006

Legend

Existing Road

TOPOGRAPHIC MAP

"B"



**Proposed Location
M.B. NE 2-25 (C-25)**

**Existing
Gas Pipeline**

NEWFIELD
Exploration Company

**Monument Butte NE 2-25-8-16 (C-25)
SEC. 25, T8S, R16E, S.L.B.&M.**



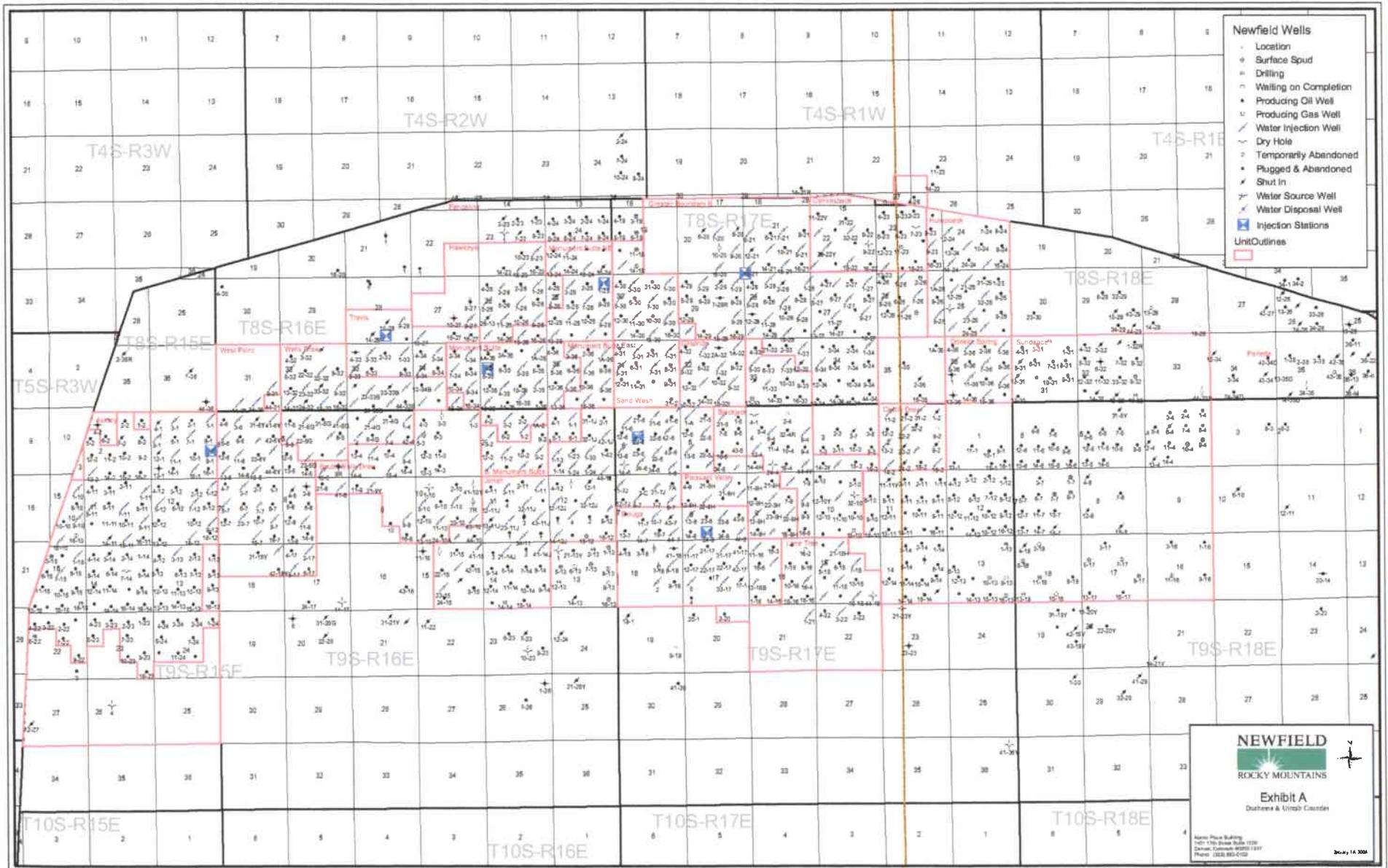
Tri-State
Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'
DRAWN BY: mw
DATE: 05-23-2006

Legend

Roads

TOPOGRAPHIC MAP
"C"



2-M SYSTEM

Blowout Prevention Equipment Systems

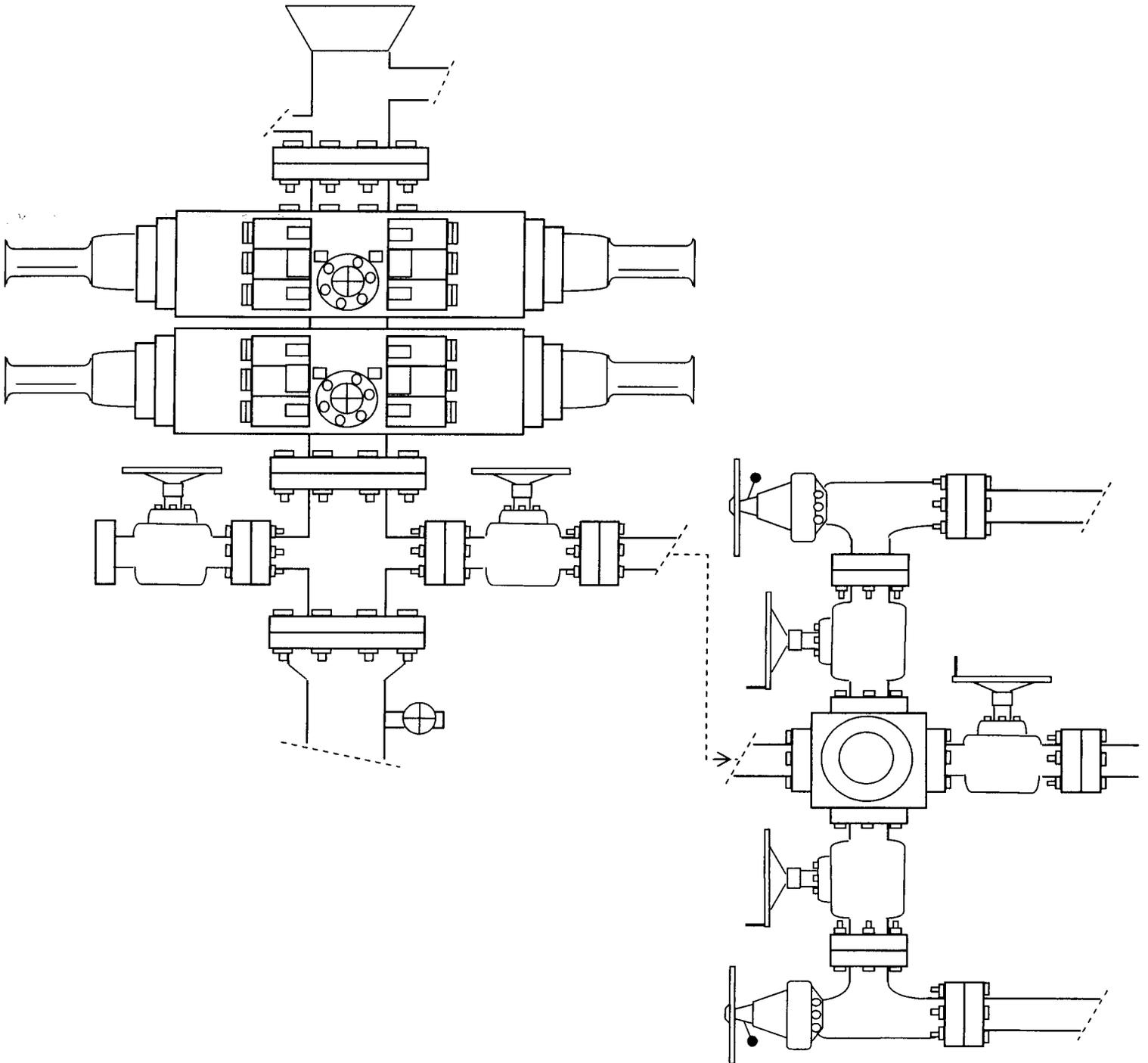


EXHIBIT C

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 08/09/2006

API NO. ASSIGNED: 43-013-33274

WELL NAME: MON BUTTE NE FED C-25-8-16
 OPERATOR: NEWFIELD PRODUCTION (N2695)
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

NWNE 25 080S 160E
 SURFACE: 0667 FNL 1999 FEL
 BOTTOM: 0000 FNL 2637 FEL
 COUNTY: DUCHESNE
 LATITUDE: 40.09429 LONGITUDE: -110.0647
 UTM SURF EASTINGS: 579728 NORTHINGS: 4438432
 FIELD NAME: MONUMENT BUTTE (105)

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

LEASE TYPE: 1 - Federal
 LEASE NUMBER: UTU-67170
 SURFACE OWNER: 1 - Federal

no lease, 1/2 quad

PROPOSED FORMATION: GRRV
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]
(No. UTB000192)
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit
(No. MUNICIPAL)
- RDCC Review (Y/N)
(Date: _____)
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- R649-2-3.
- Unit: MONUMENT BUTTE NE
- R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit
Board Cause No: 213-3(p)
Eff Date: 5-23-1997
Siting: Suspends General Siting
- R649-3-11. Directional Drill

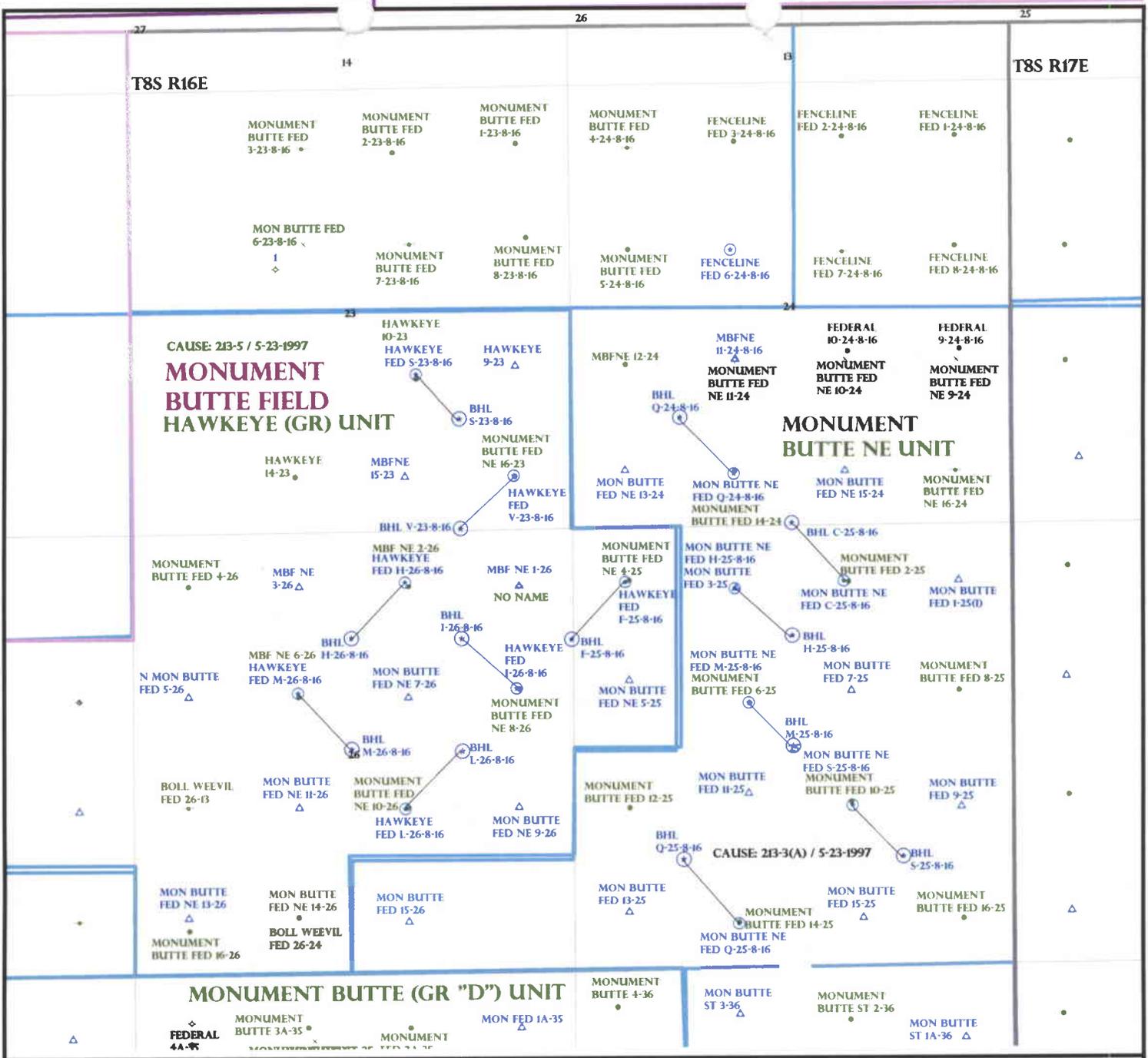
COMMENTS:

See Separate Blue

STIPULATIONS:

1-fee approval

no lease, 1/2 quad



OPERATOR: NEWFIELD PROD CO (N2695)
SEC: 24,25 T.8S R.16E
FIELD: MONUMENT BUTTE (105)
COUNTY: DUCHESNE
CAUSE: 213-3(A) / 5-23-1997



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

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

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



PREPARED BY: DIANA WHITNEY
 DATE: 15-AUGUST-2006



State of Utah

**Department of
Natural Resources**

MICHAEL R. STYLER
Executive Director

**Division of
Oil, Gas & Mining**

JOHN R. BAZA
Division Director

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

August 28, 2006

Newfield Production Company
Rt. #3, Box 3630
Myton, UT 84052

Re: Monument Butte NE Federal C-25-8-16 Well, Surface Location 667' FNL, 1999' FEL, NW NE, Sec. 25, T. 8 South, R. 16 East, Bottom Location 0000' FNL, 2637' FEL, NW corner of NE Quad, Sec. 25, T. 8 South, R. 16 East, Duchesne 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 43-013-33274.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

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

Operator: Newfield Production Company
Well Name & Number Monument Butte NE Federal C-25-8-16
API Number: 43-013-33274
Lease: UTU-67170

Surface Location: NW NE Sec. 25 T. 8 South R. 16 East
Bottom Location: NW corner of NE Quad Sec. 25 T. 8 South R. 16 East

Conditions of Approval

1. General

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

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

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

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

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

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

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

5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

RECEIVED
VERNAL FIELD OFFICE

2006 AUG -9 PH 1:21

DEPT. OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FORM APPROVED
OMB No. 1004-0130
Expires January 31, 2004

Form 3160-3
(September 2001)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

| | | |
|--|---|--|
| 1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER | | 5. Lease Serial No. UTU-67170 |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone | | 6. If Indian, Allottee or Tribe Name N/A |
| 2. Name of Operator Newfield Production Company | | 7. If Unit or CA Agreement, Name and No. |
| 3a. Address Route #3 Box 3630, Myton UT 84052 | 3b. Phone No. (include area code) (435) 646-3721 | 8. Lease Name and Well No. Mon. Butte NE Federal C-25-8-16 |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NW/NE 667' FNL 1999' FEL At proposed prod. zone 0' FNL 2637' FEL | | 9. API Well No. 43-013-33274 |
| 14. Distance in miles and direction from nearest town or post office* Approximatley 11.9 miles southwest of Myton, Utah | | 10. Field and Pool, or Exploratory Monument Butte |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 1283' f/lse, 1283' f/unit | 16. No. of Acres in lease 1.879.869 | 11. Sec., T., R., M., or Bk. and Survey or Area Sec. 25, T8S R16E |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1337' | 19. Proposed Depth 6683' | 12. County or Parish Duchesne |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5416' GL | 22. Approximate date work will start* 4th Quarter 2006 | 13. State UT |
| 17. Spacing Unit dedicated to this well 20 Acres | | |
| 20. BLM/BIA Bond No. on file UTB000192 | | |
| 23. Estimated duration Approximately seven (7) days from spud to rig release. | | |

24. Attachments

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

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

| | | |
|---|--|-------------------|
| 25. Signature | Name (Printed/Typed) Mandie Crozier | Date 8/8/06 |
| Title Regulatory Specialist | | |
| Approved by (Signature) | Name (Printed/Typed) JERRY KENCZKA | Date 2/23/2007 |
| Title Assistant Field Manager Lands & Mineral Resources | Office VERNAL FIELD OFFICE | |

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

Conditions of approval, if any, are attached.

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

*(Instructions on reverse)

RECEIVED

MAR 06 2007

DIV. OF OIL, GAS & MINING

2006M
NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

07JM0567A

No MAS



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East VERNAL, UT 84078 (435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Newfield Production Co. Location: NWNE, Sec. 25, T8S, R16E
Well No: MBNE Federal C-25-8-16 Lease No: UTU-67170
API No: 43-013-33274 Agreement: N/A

| | | | |
|---|---------------|----------------------|--------------------|
| Petroleum Engineer: | Matt Baker | Office: 435-781-4490 | Cell: 435-828-4470 |
| Petroleum Engineer: | Michael Lee | Office: 435-781-4432 | Cell: 435-828-7875 |
| Petroleum Engineer: | Jim Ashley | Office: 435-781-4470 | Cell: 435-828-7874 |
| Supervisory Petroleum Technician: | Jamie Sparger | Office: 435-781-4502 | Cell: 435-828-3913 |
| Environmental Scientist: | Paul Buhler | Office: 435-781-4475 | Cell: 435-828-4029 |
| Environmental Scientist: | Karl Wright | Office: 435-781-4484 | |
| Natural Resource Specialist: | Holly Villa | Office: 435-781-4404 | |
| Natural Resource Specialist: | Melissa Hawk | Office: 435-781-4476 | Cell: 435-828-7381 |
| After Hours Contact Number: 435-781-4513 | | Fax: 435-781-4410 | |

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

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

NOTIFICATION REQUIREMENTS

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

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

SITE SPECIFIC CONDITIONS OF APPROVAL

1. Adhere to Executive Order 5327 of April 15, 1930, stipulations for lands in oil shale withdrawal.
2. Lands in this lease have been identified as containing Mountain Plover and Burrowing Owl habitats. Modifications to the Surface Use Plan of Operations may be required in order to protect the Mountain Plover and Burrowing Owl habitats from surface disturbing activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.
3. Timing Limitations (for construction and drilling) – **May 15 through June 15** – in order to protect Mountain Plover habitat, and – **April 1 through August 15** – to protect Burrowing Owl habitat.
4. This well is being approved in accordance with Washington Instruction Memorandum 2005-247 and Section 390 (Category 3) of the Energy Policy Act which establishes statutory categorical exclusions (CX) under the National Environmental Policy Act (NEPA). Category 3 states that an oil or gas well can be drilled within a developed field for which an approved land use plan or any environmental document prepared pursuant to NEPA analyzed drilling as a reasonably foreseeable activity, so long as such plan or document was approved within five (5) years prior to the date of spudding the well. This well is covered under the *Final Environmental Impact Statement and Record of Decision Castle Peak and Eightmile Flat Oil and Gas Exploration Project Newfield Rocky Mountains Inc.*, signed August 24, 2005. If the well has not been spudded by August 24, 2010, a new environmental document will have to be prepared prior to the approval of the APD.
5. All applicable local, state, and/or federal laws, regulations, and/or statutes will be complied with.
6. Right of way (ROW) will not be required.
7. All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
8. No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of three inches deep, the soil shall be deemed too wet to adequately support construction equipment.
9. The access road will be crowned and ditched. Flat-bladed roads are not allowed.
10. If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
11. Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.

12. Pipelines will be buried at all major drainage crossings.
13. Prevent fill and stock piles from entering drainages.
14. The reserve pit will be lined with a 12 ml or greater liner and felt prior to spudding.
15. The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.
16. When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
17. If paleontologic or cultural materials are uncovered during construction, the operator shall immediately stop work that might further disturb or move such materials and contact the Authorized Officer (AO) within 48 hours. A determination will be made by the AO as to necessary mitigation for the discovered paleontologic/cultural material.
18. If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.
19. The following seed mix (PLS formula) will be used for interim reclamation (topsoil stockpile, and reserve pit)

| | |
|--|-----------|
| Western Wheatgrass (<i>Pascopyrum smithii</i>) | 6lbs/acre |
| Galleta Grass (<i>Hilaria jamesii</i>) | 6lbs/acre |

 - Rates are set for drill seeding; double the rate if broadcasting.
 - Reseeding may be required if initial seeding is not successful.
20. The operator will be responsible for treatment and control of invasive and noxious weeds.
21. The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be recontoured and the topsoil respread, and the area shall be seeded in the same manner as the location topsoil.
22. Once the location is plugged and abandoned, it shall be recontoured to natural topology, topsoil shall be respread, and the entire location shall be seeded with a seed mix recommended by the AO (preferably of native origin). Seed application will follow all guidelines in the interim seed mix bullet statement above. If reclamation seeding should take place using the broadcast method, the seed at a minimum will be walked into the soil with a dozer immediately after the seeding is completed.
23. The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.

24. The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
25. All well facilities not regulated by OSHA will be painted Carlsbad Canyon.
26. All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, will be stockpiled for use during final reclamation.
27. Notify the Authorized Officer 48 hours prior to surface disturbing activities.

GENERAL SURFACE CONDITIONS OF APPROVAL

1. Operator shall notify any active gilsonite mining operation within 2 miles of the location 48 hours prior to any blasting during construction for this well.

DOWNHOLE CONDITIONS OF APPROVAL

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

1. There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well. Any changes in operation must have prior approval from the BLM, Vernal Field Office Petroleum Engineers.
2. The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
3. **Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.**
4. Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.

All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.

BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.

No aggressive/fresh hard-banded drill pipe shall be used within casing.

Cement baskets shall not be run on surface casing.

The lessee/operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled and analyzed (a copy of the analyses to be submitted to the BLM Field Office in Vernal, Utah).

All oil and gas shows shall be adequately tested for commercial possibilities, reported, and protected.

The lessee/operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and

depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

5. All shows of fresh water and minerals shall be reported and protected. A sample shall be taken of any water flows and a water analysis furnished the BLM, Vernal Field Office. All oil and gas shows shall be adequately tested for commercial possibilities, reported, and protected.
6. No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM, Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM, Vernal Field Office shall be obtained and notification given before resumption of operations.
7. Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
8. Any change in the program shall be approved by the BLM, Vernal Field Office. "Sundry Notices and Reports on Wells" (Form BLM 3160-5) shall be filed for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan pursuant to Onshore Oil & Gas Order No. 1 of 43 CFR 3164.1 and prior approval by the BLM, Vernal Field Office.

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

9. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

10. A cement bond log (CBL) will be run from the production casing shoe to the top of the cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- 11. Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Wellogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
12. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease shall have prior written approval from the BLM, Vernal Field Office.
13. All measurement points shall be identified as point of sales or allocation for royalty determination prior to the installation of facilities.
14. Oil and gas meters shall be calibrated in place prior to any deliveries. The Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM, Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement.
15. A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM, Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
16. This APD is approved subject to the requirement that, should the well be successfully completed for production, the BLM, Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - a. Operator name, address, and telephone number.
 - b. Well name and number.
 - c. Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - d. Date well was placed in a producing status (date of first production for which royalty will be paid).
 - e. The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - f. The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.

- g. Unit agreement and / or participating area name and number, if applicable.
 - h. Communitization agreement number, if applicable.
17. Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from Field Office Petroleum Engineers.
 18. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production
 19. Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
 20. Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: Newfield Exploration & Production

Well Name: Mon Butte NE Fed C-25-8-16

API No: 43-013-33274 Lease Type: Federal

Section 25 Township 08S Range 16E County Duchesne

Drilling Contractor NDSI Rig # NS#1

SPUDDED:

Date 4-20-07

Time 1:00 PM

How Dry

Drilling will Commence: _____

Reported by Don Bastian

Telephone # 435-823-6012

Date 4-20-07 Signed RM

STATE OF UTAH
 DIVISION OF OIL, GAS AND MINING
 ENTITY ACTION FORM - FORM 6

OPERATOR: NEWFIELD PRODUCTION COMPANY
 ADDRESS: RT. 3 BOX 3830
MYTON, UT 84052

OPERATOR ACCT. NO. N2695

| ACTION CODE | CURRENT ENTITY NO. | NEW ENTITY NO. | API NUMBER | WELL NAME | WELL LOCATION | | | | SPUD DATE | EFFECTIVE DATE | |
|---|--------------------|----------------|--------------|---------------------|---------------|----|----|-----|-----------|----------------|---------|
| | | | | | QQ | SC | TP | RG | | | COUNTY |
| B | 99999 | 15150 | 43-013-33273 | MON BT NE H-25-8-16 | NE/NW | 25 | 8S | 16E | DUCHESNE | 4/18/2007 | 4/26/07 |
| WELL 1 COMMENTS: <i>GRUV BHL = C of N/2</i> | | | | | | | | | | | |
| A | 99999 | 16063 | 43-013-33175 | FEDERAL 9-22-9-16 | NE/SE | 22 | 9S | 16E | DUCHESNE | 4/19/2007 | 4/26/07 |
| WELL 2 COMMENTS: <i>GRUV</i> | | | | | | | | | | | |
| A | 99999 | 16064 | 43-013-33050 | FEDERAL 11A-9-9-16 | NE/SW | 9 | 9S | 16E | DUCHESNE | 4/23/2007 | 4/26/07 |
| WELL 3 COMMENTS: <i>GRUV</i> | | | | | | | | | | | |
| A | 99999 | 16065 | 43-013-33052 | FEDERAL 13-9-9-16 | SW/SW | 9 | 9S | 16E | DUCHESNE | 4/21/2007 | 4/26/07 |
| WELL 4 COMMENTS: <i>GRUV</i> | | | | | | | | | | | |
| B | 99999 | 15150 | 43-013-33274 | MON BT NE C-25-8-16 | NW/NE | 25 | 8S | 16E | DUCHESNE | 4/20/2007 | 4/26/07 |
| WELL 5 COMMENTS: <i>GRUV BHL = NW corner of NE Quad</i> | | | | | | | | | | | |
| A | 99999 | 16066 | 43-013-33167 | FEDERAL 15-22-9-16 | SW/SE | 22 | 9S | 16E | DUCHESNE | 4/22/2007 | 4/26/07 |
| WELL 6 COMMENTS: <i>GRUV</i> | | | | | | | | | | | |

RECEIVED

APR 25 2007

DIV. OF OIL, GAS & MINING

ACTION CODES (See instructions on back of form)

- A - 1 new entity for new well (single well only)
- B - well to existing entity (group or unit well)
- C - two new existing entity to another existing entity
- D - well from one existing entity to a new entity
- E - shut (explain in comments section)

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

Jentri Park
 Signature
 Production Clerk

Jentri Park

25
 April 24, 2007
 Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires January 31, 2004

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.



1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
 NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630
 Myton, UT 84052

3b. Phone (include are code)
 435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
 667 FNL 1999 FEL
 NWNE Section 25 T8S R16E

5. Lease Serial No.
 USA UTU-67170

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or
 MON BUTTE NE

8. Well Name and No.
 MON. BUTTE NE FEDERAL C-25-8-16

9. API Well No.
 4301333274

10. Field and Pool, or Exploratory Area
 MONUMENT BUTTE

11. County or Parish, State
 DUCHESNE, UT

12. CHECK APPROPRIATE BOX(ES) TO INIDICATE NATURE OF NOTICE, 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 | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other _____ |
| | <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug & Abandon | <input type="checkbox"/> Temporarily Abandon | Spud Notice |
| | <input type="checkbox"/> Convert to | <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 recompleate 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 recompleation 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.)

On 4/20/07 MIRU NDSI NS # 1.Spud well @ 1:00 PM. Drill 320' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 318.53 KB On 4/24/07 cement with 160 sks of class "G" w/ 2% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 5 bbls cement to pit. WOC.

| | |
|---|---------------------------|
| I hereby certify that the foregoing is true and correct (Printed/ Typed) Alvin Nielsen | Title Drilling Foreman |
| Signature <i>Alvin Nielsen</i> | Date 05/06/2007 |



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

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

(Instructions on reverse)

RECEIVED

MAY 08 2007

DIV. OF OIL, GAS & MINING

NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 318.53

LAST CASING 8 5/8" set @ 318.53
 DATUM 12' KB
 DATUM TO CUT OFF CASING _____
 DATUM TO BRADENHEAD FLANGE _____
 TD DRILLER 320' LOGGER _____
 HOLE SIZE 12 1/4

OPERATOR Newfield Production Company
 WELL MB NE Federal C-25-8-16
 FIELD/PROSPECT Monument Butte
 CONTRACTOR & RIG # NDSI NS # 1

LOG OF CASING STRING:

| PIECES | OD | ITEM - MAKE - DESCRIPTION | WT / FT | GRD | THREAD | CONDT | LENGTH | |
|---|--------|---|-----------|-----------------------------|--------------------------|-------|---------------|-----|
| | | Shoe Joint 40.90' | | | | | | |
| | | WHI - 92 csg head | | | 8rd | A | 0.95 | |
| 7 | 8 5/8" | Maverick ST&C csg | 24# | J-55 | 8rd | A | 306.86 | |
| | | GUIDE shoe | | | 8rd | A | 0.9 | |
| CASING INVENTORY BAL. | | FEET | JTS | TOTAL LENGTH OF STRING | | | 308.53 | |
| TOTAL LENGTH OF STRING | | 308.53 | 7 | LESS CUT OFF PIECE | | | 2 | |
| LESS NON CSG. ITEMS | | 1.85 | | PLUS DATUM TO T/CUT OFF CSG | | | 12 | |
| PLUS FULL JTS. LEFT OUT | | 0 | | CASING SET DEPTH | | | 318.53 | |
| TOTAL | | 306.68 | 7 | } COMPARE | | | | |
| TOTAL CSG. DEL. (W/O THRDS) | | 306.68 | 7 | | | | | |
| TIMING | | 1ST STAGE | | GOOD CIRC THRU JOB | | | YES | |
| BEGIN RUN CSG. | | Spud | 4/20/2007 | 7:30 AM | Bbls CMT CIRC TO SURFACE | | | 5 |
| CSG. IN HOLE | | | 4/20/2007 | 8:30 AM | RECIPROCATED PIPE FOR | | | NA |
| BEGIN CIRC | | | 4/24/2007 | 10:43 AM | | | | |
| BEGIN PUMP CMT | | | 4/24/2007 | 10:55 AM | | | | |
| BEGIN DSPL. CMT | | | 4/24/2007 | 11:08 AM | BUMPED PLUG TO | | | 135 |
| PLUG DOWN | | | 4/24/2007 | 11:18 AM | | | | |
| CEMENT USED | | CEMENT COMPANY- B. J. | | | | | | |
| STAGE | # SX | CEMENT TYPE & ADDITIVES | | | | | | |
| 1 | 160 | Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield | | | | | | |
| CENTRALIZER & SCRATCHER PLACEMENT | | SHOW MAKE & SPACING | | | | | | |
| Centralizers - Middle first, top second & third for 3 | | | | | | | | |

COMPANY REPRESENTATIVE Troy Zufelt DATE 4/24/2007

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

5. Lease Serial No.
USA UTU-67170

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or
MON BUTTE NE

8. Well Name and No.
MON. BUTTE NE FEDERAL C-25-8-16

9. API Well No.
4301333274

10. Field and Pool, or Exploratory Area
MONUMENT BUTTE

11. County or Parish, State
DUCHESNE, UT

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630
Myton, UT 84052

3b. Phone (include are code)
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
667 FNL 1999 FEL
NWNE Section 25 T8S R16E

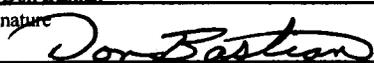
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

| 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 | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other _____ |
| | <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug & Abandon | <input type="checkbox"/> Temporarily Abandon | Weekly Status Report |
| | <input type="checkbox"/> Convert to | <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 recompleat 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 recompleat 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.)

On 5/14/07. MIRU NDSI Rig # 2. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 277'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 6709'. Lay down drill string & BHA. Open hole log w/ Dig/SP/GR log's TD to surface. PU & TIH with Guide shoe, shoe jt, float collar, 152 jt's of 5.5 J-55, 15.5# csgn. Set @ 6705.17' KB. Cement with 400 sks cement mixed @ 11.0 ppg & 3.49 yld. The 480 sks cement mixed @ 14.4 ppg & 1.24 yld. Returned 30 bbls of cement to reserve pit. Nipple down Bop's. Drop slips @ 80,000 #'s tension. Release rig @ 6:00 am 5/24/07.

I hereby certify that the foregoing is true and correct (Printed/ Typed)
Don Bastian

Signature 

Title
Drilling Foreman

Date
05/24/2007

Approved by _____ Title _____ Date _____

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

Office _____

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

(Instructions on reverse)

RECEIVED
MAY 29 2007

NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT 6705.17

LAST CASING 8 5/8" SET # 318.53'
 DATUM 12' KB
 DATUM TO CUT OFF CASING 12'
 DATUM TO BRADENHEAD FLANGE _____
 TD DRILLER 6709 Loggers _____
 HOLE SIZE 7 7/8"

Fit cllr @ 6661.9
 OPERATOR Newfield Production Company
 WELL NE Federal C-25-8-16
 FIELD/PROSPECT Monument Butte
 CONTRACTOR & RIG # NDSI #2
TVD=6629'

LOG OF CASING STRING:

| PIECES | OD | ITEM - MAKE - DESCRIPTION | WT / FT | GRD | THREAD | CONDT | LENGTH |
|-----------------------------|--------|---------------------------|-----------|-----------------------------|--------|-------|----------------|
| | | Landing Jt | | | | | 14 |
| | | Short jt 4154' (6.12') | | | | | |
| 152 | 5 1/2" | ETC LT & C casing | 15.5# | J-55 | 8rd | A | 6647.9 |
| | | Float collar | | | | | 0.6 |
| 1 | 5 1/2" | ETC LT&C csg | 15.5# | J-55 | 8rd | A | 44.02 |
| | | GUIDE shoe | | | 8rd | A | 0.65 |
| CASING INVENTORY BAL. | | FEET | JTS | TOTAL LENGTH OF STRING | | | 6707.17 |
| TOTAL LENGTH OF STRING | | 6707.17 | 153 | LESS CUT OFF PIECE | | | 14 |
| LESS NON CSG. ITEMS | | 15.25 | | PLUS DATUM TO T/CUT OFF CSG | | | 12 |
| PLUS FULL JTS. LEFT OUT | | 346.67 | 8 | CASING SET DEPTH | | | 6705.17 |
| TOTAL | | 7038.59 | 161 | } COMPARE | | | |
| TOTAL CSG. DEL. (W/O THRDS) | | 6721.32 | 161 | | | | |
| TIMING | | 1ST STAGE | 2nd STAGE | GOOD CIRC THRU JOB | | | Yes |
| BEGIN RUN CSG. | | 9:30 PM | 5/23/2007 | Bbls CMT CIRC TO SURFACE | | | 30 |
| CSG. IN HOLE | | 1:00 AM | 5/24/2007 | RECIPROCATED PIPE FOR | | | THRUSTROKE NA |
| BEGIN CIRC | | 1:30 AM | 5/24/2007 | DID BACK PRES. VALVE HOLD ? | | | Yes |
| BEGIN PUMP CMT | | 3:20 AM | 5/24/2007 | BUMPED PLUG TO | | | 2500 PSI |
| BEGIN DSPL. CMT | | 4:25 AM | 5/24/2007 | | | | |
| PLUG DOWN | | 4:57 AM | 24-May | | | | |

| CEMENT USED | | B. J. |
|---|------|---|
| STAGE | # SX | CEMENT TYPE & ADDITIVES |
| 1 | 400 | Premlite II w/ 10% gel + 3 % KCL, 3#s /sk CSE + 2# sk/kolseal + 1/2#s/sk Cello Flake mixed @ 11.0 ppg W / 3.49 cf/sk yield |
| 2 | 480 | 50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD |
| CENTRALIZER & SCRATCHER PLACEMENT | | SHOW MAKE & SPACING |
| Centralizers - Middle first, top second & third. Then every third collar for a total of 20. | | |

COMPANY REPRESENTATIVE Don Bastian DATE 5/24/2007

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires January 31, 2004

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.

STIPULATED RIGHTS OF WAY - Other instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
 NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630
 Myton, UT 84052

3b. Phone (include are code)
 435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
 667 FNL 1999 FEL
 NWNE Section 25 T8S R16E

5. Lease Serial No.
 USA UTU-67170

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or
 MON BUTTE NE

8. Well Name and No.
 MON. BUTTE NE FEDERAL C-25-8-16

9. API Well No.
 4301333274

10. Field and Pool, or Exploratory Area
 MONUMENT BUTTE

11. County or Parish, State
 DUCHESNE, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, 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 | <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 & Abandon | <input type="checkbox"/> Temporarily Abandon | _____ |
| | <input type="checkbox"/> Convert to | <input type="checkbox"/> Plug Back | <input checked="" 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 recomple 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 recomple 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.)

Formation water is produced to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

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

| | |
|--|--------------------------------|
| I hereby certify that the foregoing is true and correct (Printed/ Typed) Mandie Crozier | Title Regulatory Specialist |
| Signature <i>Mandie Crozier</i> | Date 06/29/2007 |

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

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

(Instructions on reverse)

RECEIVED

JUL 02 2007

DIV. OF OIL, GAS & MINING

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

5. LEASE DESIGNATION AND SERIAL NUMBER:

USA UTU-67170

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

MON BUTTE NE

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

1. TYPE OF WELL:

OIL WELL GAS WELL OTHER

8. WELL NAME and NUMBER:

MON. BUTTE NE FEDERAL C-25-8-16

2. NAME OF OPERATOR:

NEWFIELD PRODUCTION COMPANY

9. API NUMBER:

4301333274

3. ADDRESS OF OPERATOR:

PHONE NUMBER

Route 3 Box 3630 CITY Myton STATE UT ZIP 84052

435.646.3721

10. FIELD AND POOL, OR WILDCAT:

MONUMENT BUTTE

4. LOCATION OF WELL:

FOOTAGES AT SURFACE: 667 FNL 1999 FEL

COUNTY: DUCHESNE

OTR/OTR SECTION TOWNSHIP RANGE MERIDIAN: NWN, 25, T8S, R16E

STATE: UT

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

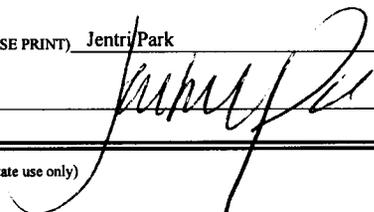
| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| <input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____ | <input type="checkbox"/> ACIDIZE | <input type="checkbox"/> DEEPEN | <input type="checkbox"/> REPERFORATE CURRENT FORMATION |
| | <input type="checkbox"/> ALTER CASING | <input type="checkbox"/> FRACTURE TREAT | <input type="checkbox"/> SIDETRACK TO REPAIR WELL |
| <input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: <u>07/17/2007</u> | <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 FLAIR |
| | <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/STOP) | <input type="checkbox"/> WATER SHUT-OFF |
| | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE | <input checked="" type="checkbox"/> OTHER: - Weekly Status Report |
| | <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.

The above subject well was completed on 06/28/07, attached is a daily completion status report.

NAME (PLEASE PRINT) Jentri Park

TITLE Production Clerk

SIGNATURE 

DATE 07/17/2007

(This space for State use only)

RECEIVED

JUL 18 2007

DIV. OF OIL, GAS & MINING

Daily Activity Report

Format For Sundry

MON BT NE C-25-8-16

4/1/2007 To 8/30/2007

6/18/2007 Day: 1

Completion

Rigless on 6/17/2007 - Instal 5K frac head. NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6621' & cement top @ 22'. Perforate stage #1, CP1 sds @ 6176-85' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°) w/ 4 spf for total of 36 shots. 158 bbls EWTR. SIFN.

6/25/2007 Day: 2

Completion

Rigless on 6/24/2007 - RU BJ Services. 375 psi on well. Frac CP1 sds w/ 19,923#'s of 20/40 sand in 316 bbls of Lightning 17 fluid. Broke @ 3658 psi. Treated w/ ave pressure of 1646 psi @ ave rate of 24.8 BPM. Pumped 504 gals of 15% HCL in flush for Stage #2. ISIP 1815 psi. Leave pressure on well. 474 BWTR. RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug, 8' & 10' perf gun. Set plug @ 5580'. Perforate B.5 sds @ 5468- 76', C sds @ 5420- 30' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 72 shots (2 runs). RU BJ Services. 1506 psi on well. Frac B.5 & C sds w/ 90,854#'s of 20/40 sand in 666 bbls of Lightning 17 fluid. Broke @ 2763 psi. Treated w/ ave pressure of 1960 psi @ ave rate of 24.8 BPM. Pumped 504 gals of 15% HCL in flush for Stage #3. ISIP 2047 psi. Leave pressure on well. 1140 BWTR. RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite solid frac plug & 17' perf gun. Set plug @ 5350'. Perforate D1 sds @ 5233-50' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 68 shots (2 runs). RU BJ Services. 35 psi on well. Frac D1 sds w/ 51,299#'s of 20/40 sand in 447 bbls of Lightning 17 fluid. Broke @ 3586 psi. Treated w/ ave pressure of 1681 psi @ ave rate of 24.7 BPM. Pumped 504 gals of 15% HCL in flush for Stage #4. ISIP 1858 psi. Leave pressure on well. 1587 BWTR. RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 15' perf gun. Set plug @ 4810'. Perforate GB4 sds @ 4693-4708' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 60 shots (2 runs). RU BJ Services. 1526 psi on well. Frac GB4 sds w/ 29,480#'s of 20/40 sand in 302 bbls of Lightning 17 fluid. Broke @ 3720 psi. Treated w/ ave pressure of 1856 psi @ ave rate of 24.8 BPM. ISIP 1941 psi. Begin immediate flowback on 12/64 choke @ 1 BPM. Flowed for 4 hrs & died. Rec. 240 BTF. SIWFN w/ 1649 BWTR.

6/27/2007 Day: 3

Completion

Western #4 on 6/26/2007 - MIRU Western #4. Bleed pressure off well. Rec est 45 BTF--still flowing slightly. ND Cameron BOP & 5M frac head. Install 3M production tbg head & NU Weatherford Schaeffer BOP. Talley, drift, PU & TIH W/ used Weatherford 4 3/4" "Chomp" bit, bit sub & new 2 7/8 8rd 6.5# J-55 tbg. Tag fill @ 4515'. Tbg displaced 11 BW on TIH. RU power swivel. C/O sd & drill out composite bridge plugs as follows (using conventional circulation): sd @ 4515', plug @ 4810' in 12 minutes; sd @ 5285', plug @ 5350' in 15 minutes; sd @ 5571', plug @ 5580' in 15 minutes. Hang back swivel & con't PU tbg. Tag fill @ 6560'. PU swivel. Drill plug remains & sd to PBSD @ 6660'. Circ hole clean. Gained est 75 BTF during cleanout. RD swivel. Pull EOT to 6582'. RU swab equipment. IFL @ sfc. Made 4 swb runs rec 41 BTF W/ sm tr oil & no sd. FFL @ 600'. SIFN W/ est 1477 BWTR.

6/28/2007 Day: 4**Completion**

Western #4 on 6/27/2007 - Bleed well off. Flowed back 25 BTF (oil on top)--slowed down. RU swab equip & resume swabbing well for cleanup. IFL @ sfc. Made 6 swb runs & well began flowing again. Samples are light gas, tr oil & no sand. Rec add'l 70 BTF. Pump 20 BW dn tbg. TIH W/ tbg & tag sd @ 6657' (3' new fill). C/O sd to PBD @ 6660'. Circ hole clean W/ no fluid loss (rec tr oil). Well flowing small amount. LD excess tbg. TOH W/ tbg--LD bit. TIH W/ BHA & production tbg as follows: 2 7/8 NC, 2 jts tbg, SN, 1 jt tbg, new Weatherford 5 1/2" "Type T" TA (40K shear--RH set & auto release) & 181 jts 2 7/8 8rd 6.5# J-55 tbg. Well flowing steady. Rec est 40 BTF during trip. RU & circ hole W/ clean wtr. ND BOP. Set TA @ 6143' W/ SN @ 6177' & EOT @ 6242'. Land tbg W/ 16,000# tension. NU wellhead. RU & flush tbg W/ 60 BW (rec same back W/ tr oil). PU & TIH W/ pump and "A" grade rod string to 6175'. PU polished rod & SIFN W/ est 1342 BWTR.

6/29/2007 Day: 5**Completion**

Western #4 on 6/28/2007 - Tbg dead. Bleed annulus off to production tks. Con't PU & TIH W/ pump and "A" grade rod string as follows: new CDI 2 1/2" X 1 3/4" X 20' RHAC pump, 4-1 1/2" weight rods, 242-7/8" scraped rods (78 grade W/ 8 scrapers per rod), 1-4' & 1-2' X 7/8" pony rods and 1 1/2" X 26' polished rod. Seat pump & RU pumping unit. W/ tbg full, pressure test tbg & pump to 200 psi. Stroke pump up W/ unit to 800 psi. Good pump action. RDMOSU. Est 1342 BWTR. Place well on production @ 8:30 AM 6/28/2007 W/ 126" SL @ 5 SPM. FINAL REPORT!!

Pertinent Files: Go to File List

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

5. LEASE DESIGNATION AND SERIAL NO.

UTU-67170

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WORK

OIL WELL GAS WELL DRY Other _____

1b. TYPE OF WELL

NEW WELL WORK OVER DEEPEN PLUG BACK DIFF RESVR. Other _____

7. UNIT AGREEMENT NAME

Monument Butte NE Fed

8. FARM OR LEASE NAME, WELL NO.

Monument Butte NE Fed C-25-8-16

2. NAME OF OPERATOR

Newfield Exploration Company

9. WELL NO.

43-013-33274

3. ADDRESS AND TELEPHONE NO.

1401 17th St. Suite 1000 Denver, CO 80202

10. FIELD AND POOL OR WILDCAT

Monument Butte

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)*

At Surface 667' FNL & 1999' FEL (NW/NE) Sec. 25, T8S, R16E

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

Sec. 25, T8S, R16E

At top prod. Interval reported below

At total depth

0097 FNL 2648 FEL

14. API NO.

43-013-33274

DATE ISSUED

08/28/06

12. COUNTY OR PARISH

Duchesne

13. STATE

UT

15. DATE SPUNDED

04/20/07

16. DATE T.D. REACHED

05/22/07

17. DATE COMPL. (Ready to prod.)

06/28/07

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

5416' GL

19. ELEV. CASINGHEAD

5428' KB

20. TOTAL DEPTH, MD & TVD

*6679-TVD
6709'-MD*

21. PLUG BACK T.D., MD & TVD

*6580-TVD
6660'-MD*

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)*

Green River 4693'-6185'

25. WAS DIRECTIONAL SURVEY MADE

No Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

Dual Induction Guard, SP, Compensated Density, Compensated Neutron, GR, Caliper, Cement Bond Log

27. WAS WELL CORED

No

CASING RECORD (Report all strings set in well)

| CASING SIZE/GRADE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | TOP OF CEMENT, CEMENTING RECORD | AMOUNT PULLED |
|-------------------|-----------------|----------------|-----------|---|---------------|
| 8-5/8" - J-55 | 24# | 319' | 12-1/4" | To surface with 160 sx Class "G" cmt | |
| 5-1/2" - J-55 | 15.5# | 6705' | 7-1/8" | 400 sx Premlite II and 480 sx 50/50 Poz | |

29. LINER RECORD

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

30. TUBING RECORD

| SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|--------|----------------|-----------------|
| 2-7/8" | EOT @ 6242' | TA @ 6143' |

31. PERFORATION RECORD (Interval, size and number)

| INTERVAL | SIZE | SPF/NUMBER | DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|----------------------------------|------|------------|---------------------|--|
| (CP1) 6176'-6185' | .49" | 4/36 | 6176'-6185' | Frac w/ 19,923# 20/40 sand in 316 bbls fluid |
| (B & C) 5468'-5476', 5420'-5430' | .49" | 4/72 | 5420'-5476' | Frac w/ 90,854# 20/40 sand in 666 bbls fluid |
| (D1) 5233'-5250' | .49" | 4/68 | 5233'-5250' | Frac w/ 51,299# 20/40 sand in 447 bbls fluid |
| (GB4) 4693'-4708' | .49" | 4/60 | 4693'-4708' | Frac w/ 29,480# 20/40 sand in 302 bbls fluid |

33.* PRODUCTION

| | | | | | | | |
|-----------------------------------|---|----------------------------------|----------------------------------|---|-----------------|-------------------------|-----------------------|
| DATE FIRST PRODUCTION 06/28/07 | PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) 2-1/2" x 1-3/4" x 20' RHAC SM Plunger Pump | | | WELL STATUS (Producing or shut-in) PRODUCING | | | |
| DATE OF TEST 10 day ave | HOURS TESTED | CHOKE SIZE | PROD'N. FOR TEST PERIOD ----> | OIL--BBL. 39 | GAS--MCF. 52 | WATER--BBL. 33 | GAS-OIL RATIO 1333 |
| FLOW. TUBING PRESS. | CASING PRESSURE | 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 & Used for Fuel

RECEIVED

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

JUL 23 2007

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

SIGNED

Jentri Park

TITLE

DIV. OF OIL, GAS & MINING
Production Clerk

DATE

7/17/2007

JP

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

| 37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries); | | | | 38. GEOLOGIC MARKERS | | |
|---|-----|--------|--|-----------------------|-------------|------------------|
| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. | NAME | TOP | |
| | | | | | MEAS. DEPTH | TRUE VERT. DEPTH |
| | | | <p style="text-align: center;">Well Name Monument Butte NE Fed C-25-8-16</p> | Garden Gulch Mkr | 4169' | |
| | | | | Garden Gulch 1 | 4382' | |
| | | | | Garden Gulch 2 | 4504' | |
| | | | | Point 3 Mkr | 4795' | |
| | | | | X Mkr | 5035' | |
| | | | | Y-Mkr | 5069' | |
| | | | | Douglas Creek Mkr | 5198' | |
| | | | | BiCarbonate Mkr | 5452' | |
| | | | | B Limestone Mkr | 5617' | |
| | | | | Castle Peak | 6091' | |
| | | | | Basal Carbonate | 6498' | |
| | | | | Wasatch | 6623' | |
| | | | | Total Depth (LOGGERS) | 6705' | |



Scientific Drilling

Directional Survey Certification

7327 West Barton Road
Casper, WY 82604
(307)-472-6621 Fax (307) 472-5439

RE: Newfield Exploration Co. Operator
Monument Butte NE C-25-8-16 Well Name & No.
Duchesne County, UT County & State
42DEF0705403 SDI Job No.

I, Julie Cruse, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 353 feet to a measured depth of 6709 feet is true and correct as determined from all available records.

Julie Cruse
Signature

Rockies Region Engineer
Title

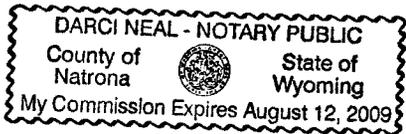
Scientific Drilling International
Company

State of : Wyoming }
County of : Natrona } ss

On this 9th day of July, 2007, before me personally appeared Julie Cruse to me known as the person described in and who executed the foregoing instrument and acknowledged that (s)he executed the same as his/her free act and deed.

Darci Neal
Notary Public

Aug 12, 2009
My Commission Expires

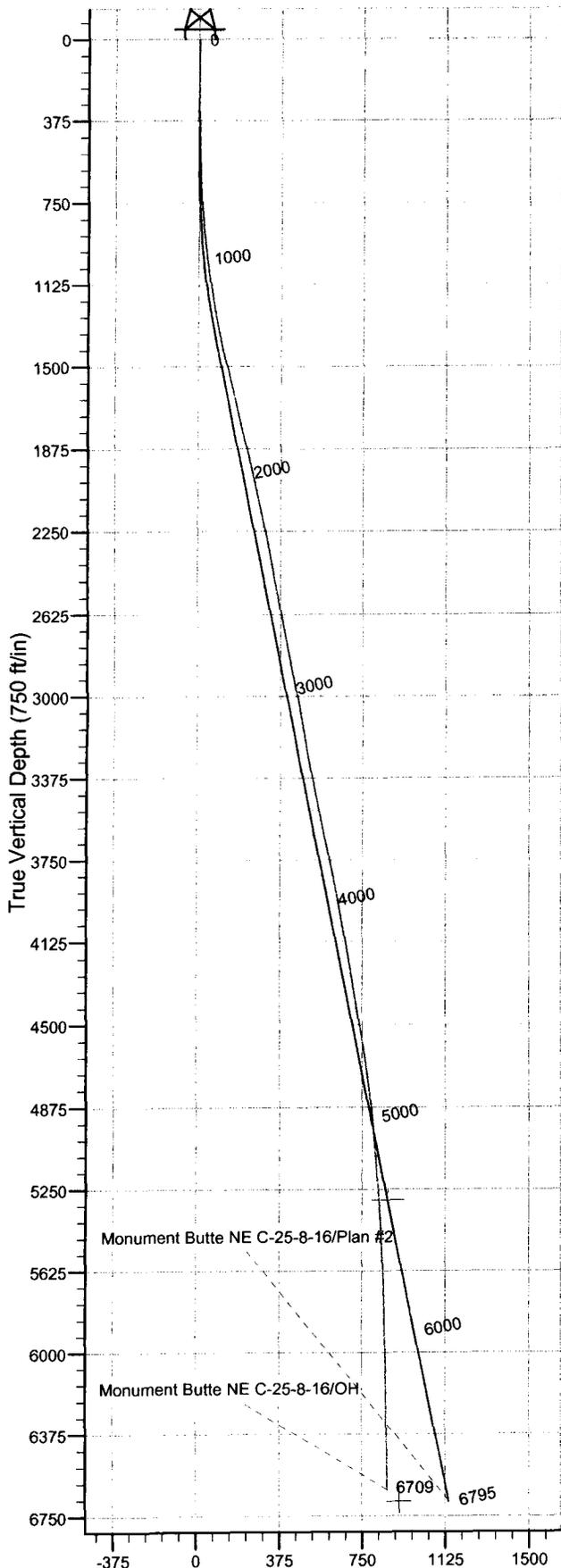




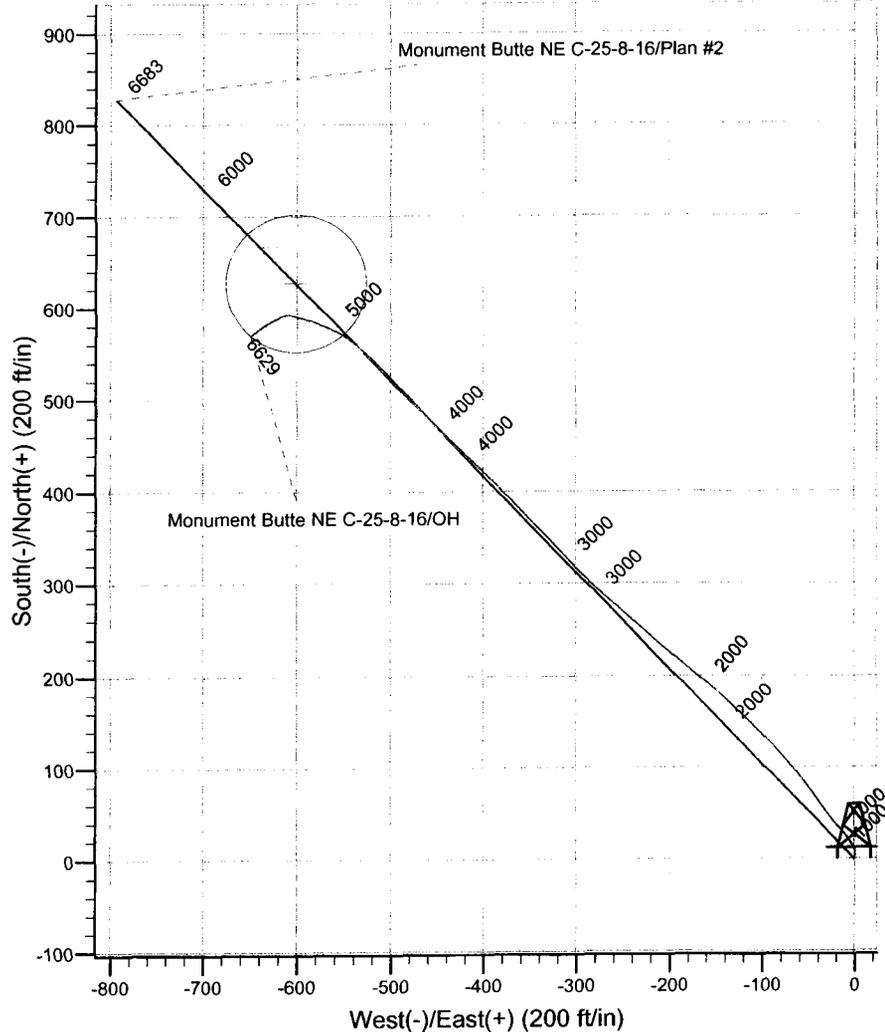
Scientific Drilling
Rocky Mountain Operations

Project: Duchesne County, UT
Site: Monument Butte NE C-25-8-16
Well: Monument Butte NE C-25-8-16
Wellbore: OH
Design: OH

Newfield Exploration Co.



Vertical Section at 311.26° (750 ft/in)



WELL DETAILS: Monument Butte NE C-25-8-16

| | | | | | | |
|--|-------|------------|------------|-----------------|------------------|------|
| Ground Level: GL 5416' & RKB 12' @ 5428.00ft | | | | | | |
| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Slot |
| 0.00 | 0.00 | 7206309.42 | 2041712.87 | 40° 5' 39.520 N | 110° 3' 55.730 W | |

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Monument Butte NE C-25-8-16, True North
Vertical (TVD) Reference: GL 5416' & RKB 12' @ 5428.00ft
Section (VS) Reference: Slot - (0.00N, 0.00E)
Measured Depth Reference: GL 5416' & RKB 12' @ 5428.00ft
Calculation Method: Minimum Curvature
Local North: True
Location: Sec. 25 T8S R16E

PROJECT DETAILS: Duchesne County, UT

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Utah Central Zone

Design: OH (Monument Butte NE C-25-8-16/OH)

Created By: Rex Hall Date: 2007-06-23

Newfield Exploration Co.

Duchesne County, UT

Monument Butte NE C-25-8-16

Monument Butte NE C-25-8-16

OH

Design: OH

Standard Survey Report

23 June, 2007

Scientific Drilling Survey Report

| | |
|--|--|
| Company: Newfield Exploration Co. | Local Co-ordinate Reference: Well Monument Butte NE C-25-8-16 |
| Project: Duchesne County, UT | TVD Reference: GL 5416' & RKB 12' @ 5428.00ft |
| Site: Monument Butte NE C-25-8-16 | MD Reference: GL 5416' & RKB 12' @ 5428.00ft |
| Well: Monument Butte NE C-25-8-16 | North Reference: True |
| Wellbore: OH | Survey Calculation Method: Minimum Curvature |
| Design: OH | Database: MultiUserEDM |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | Duchesne County, UT | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Utah Central Zone | | |

Site Monument Butte NE C-25-8-16, Sec. 25 T8S R16E

| | | |
|--------------------------------------|----------------------------------|------------------------------------|
| Site Position: | Northing: 7,206,309.42 ft | Latitude: 40° 5' 39.520 N |
| From: Lat/Long | Easting: 2,041,712.87 ft | Longitude: 110° 3' 55.730 W |
| Position Uncertainty: 0.00 ft | Slot Radius: 0.000 in | Grid Convergence: 0.92 ° |

Well Monument Butte NE C-25-8-16, SHL: 667' FNL, 1999' FEL

| | | | |
|-------------------------------------|-------------------------------|----------------------------------|------------------------------------|
| Well Position | +N/-S 0.00 ft | Northing: 7,206,309.42 ft | Latitude: 40° 5' 39.520 N |
| | +E/-W 0.00 ft | Easting: 2,041,712.87 ft | Longitude: 110° 3' 55.730 W |
| Position Uncertainty 0.00 ft | Wellhead Elevation: ft | Ground Level: 5,416.00 ft | |

Wellbore OH

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF200510 | 2007-05-14 | 11.84 | 65.94 | 52,722 |

Design OH

Audit Notes:

| | | |
|---------------------|----------------------|----------------------|
| Version: 1.0 | Phase: ACTUAL | Tie On Depth: |
|---------------------|----------------------|----------------------|

| | | | | |
|--------------------------|------------------------------|-------------------|-------------------|----------------------|
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
| | 0.00 | 0.00 | 0.00 | 311.26 |

Survey Program Date 2007-06-23

| | | | | |
|------------------|----------------|--------------------------|------------------|--------------------|
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description |
| 353.00 | 6,709.00 | Survey #1 (OH) | MWD | MWD - Standard |

Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | |
|-----------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|--|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 353.00 | 1.05 | 17.59 | 352.98 | 3.08 | 0.98 | 1.30 | 0.30 | 0.30 | 0.00 | |
| First SDI MWD Survey | | | | | | | | | | |
| 384.00 | 1.01 | 20.55 | 383.98 | 3.61 | 1.16 | 1.51 | 0.21 | -0.13 | 9.55 | |
| 414.00 | 1.08 | 17.04 | 413.97 | 4.13 | 1.33 | 1.72 | 0.32 | 0.23 | -11.70 | |
| 445.00 | 1.44 | 5.24 | 444.96 | 4.79 | 1.46 | 2.07 | 1.43 | 1.16 | -38.06 | |
| 476.00 | 1.57 | 4.45 | 475.95 | 5.61 | 1.52 | 2.55 | 0.42 | 0.42 | -2.55 | |
| 506.00 | 1.88 | 349.15 | 505.94 | 6.50 | 1.46 | 3.19 | 1.84 | 1.03 | -51.00 | |
| 537.00 | 2.09 | 351.00 | 536.92 | 7.56 | 1.28 | 4.02 | 0.71 | 0.68 | 5.97 | |
| 568.00 | 2.18 | 345.43 | 567.90 | 8.69 | 1.04 | 4.94 | 0.73 | 0.29 | -17.97 | |
| 599.00 | 2.35 | 341.28 | 598.87 | 9.86 | 0.69 | 5.98 | 0.76 | 0.55 | -13.39 | |
| 629.00 | 2.60 | 336.07 | 628.85 | 11.06 | 0.22 | 7.13 | 1.12 | 0.83 | -17.37 | |
| 660.00 | 2.86 | 332.02 | 659.81 | 12.39 | -0.43 | 8.49 | 1.04 | 0.84 | -13.06 | |

Scientific Drilling

Survey Report

| | | | |
|------------------|-----------------------------|-------------------------------------|----------------------------------|
| Company: | Newfield Exploration Co. | Local Co-ordinate Reference: | Well Monument Butte NE C-25-8-16 |
| Project: | Duchesne County, UT | TVD Reference: | GL 5416' & RKB 12' @ 5428.00ft |
| Site: | Monument Butte NE C-25-8-16 | MD Reference: | GL 5416' & RKB 12' @ 5428.00ft |
| Well: | Monument Butte NE C-25-8-16 | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | MultiUserEDM |

Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 691.00 | 3.50 | 326.66 | 690.76 | 13.86 | -1.31 | 10.13 | 2.27 | 2.06 | -17.29 |
| 722.00 | 3.78 | 327.54 | 721.70 | 15.51 | -2.38 | 12.02 | 0.92 | 0.90 | 2.84 |
| 752.00 | 4.24 | 329.63 | 751.63 | 17.31 | -3.47 | 14.02 | 1.61 | 1.53 | 6.97 |
| 783.00 | 4.72 | 326.95 | 782.53 | 19.36 | -4.75 | 16.34 | 1.69 | 1.55 | -8.65 |
| 814.00 | 4.81 | 324.33 | 813.43 | 21.49 | -6.20 | 18.83 | 0.76 | 0.29 | -8.45 |
| 844.00 | 5.21 | 323.36 | 843.31 | 23.60 | -7.75 | 21.39 | 1.36 | 1.33 | -3.23 |
| 875.00 | 5.59 | 319.05 | 874.17 | 25.87 | -9.58 | 24.26 | 1.79 | 1.23 | -13.90 |
| 906.00 | 5.99 | 318.20 | 905.01 | 28.22 | -11.65 | 27.36 | 1.32 | 1.29 | -2.74 |
| 937.00 | 6.70 | 317.88 | 935.82 | 30.77 | -13.94 | 30.77 | 2.29 | 2.29 | -1.03 |
| 969.00 | 6.96 | 318.96 | 967.60 | 33.61 | -16.46 | 34.54 | 0.91 | 0.81 | 3.37 |
| 1,000.00 | 7.36 | 320.18 | 998.36 | 36.56 | -18.97 | 38.37 | 1.38 | 1.29 | 3.94 |
| 1,032.00 | 7.68 | 320.46 | 1,030.08 | 39.78 | -21.64 | 42.50 | 1.01 | 1.00 | 0.87 |
| 1,063.00 | 8.09 | 322.79 | 1,060.79 | 43.11 | -24.28 | 46.68 | 1.68 | 1.32 | 7.52 |
| 1,094.00 | 8.63 | 323.54 | 1,091.46 | 46.72 | -26.98 | 51.09 | 1.78 | 1.74 | 2.42 |
| 1,125.00 | 8.96 | 323.08 | 1,122.09 | 50.52 | -29.81 | 55.73 | 1.09 | 1.06 | -1.48 |
| 1,157.00 | 9.18 | 324.51 | 1,153.69 | 54.59 | -32.79 | 60.65 | 0.98 | 0.69 | 4.47 |
| 1,189.00 | 9.49 | 323.53 | 1,185.27 | 58.79 | -35.84 | 65.71 | 1.09 | 0.97 | -3.06 |
| 1,220.00 | 9.95 | 323.16 | 1,215.82 | 62.99 | -38.97 | 70.83 | 1.50 | 1.48 | -1.19 |
| 1,252.00 | 10.49 | 324.09 | 1,247.32 | 67.56 | -42.33 | 76.38 | 1.76 | 1.69 | 2.91 |
| 1,284.00 | 11.10 | 323.65 | 1,278.75 | 72.40 | -45.87 | 82.23 | 1.92 | 1.91 | -1.37 |
| 1,315.00 | 11.58 | 322.82 | 1,309.15 | 77.29 | -49.51 | 88.19 | 1.64 | 1.55 | -2.68 |
| 1,406.00 | 12.83 | 321.13 | 1,398.09 | 92.43 | -61.38 | 107.09 | 1.43 | 1.37 | -1.86 |
| 1,500.00 | 13.48 | 319.59 | 1,489.62 | 108.90 | -75.03 | 128.22 | 0.79 | 0.69 | -1.64 |
| 1,593.00 | 13.59 | 317.67 | 1,580.04 | 125.23 | -89.41 | 149.80 | 0.50 | 0.12 | -2.06 |
| 1,688.00 | 13.94 | 315.30 | 1,672.31 | 141.61 | -104.98 | 172.31 | 0.70 | 0.37 | -2.49 |
| 1,783.00 | 13.93 | 313.90 | 1,764.51 | 157.68 | -121.27 | 195.14 | 0.36 | -0.01 | -1.47 |
| 1,876.00 | 13.73 | 313.17 | 1,854.82 | 172.99 | -137.38 | 217.36 | 0.29 | -0.22 | -0.78 |
| 1,970.00 | 13.02 | 311.01 | 1,946.27 | 187.57 | -153.51 | 239.09 | 0.92 | -0.76 | -2.30 |
| 2,064.00 | 12.65 | 309.65 | 2,037.92 | 201.09 | -169.42 | 259.97 | 0.51 | -0.39 | -1.45 |
| 2,160.00 | 11.91 | 309.67 | 2,131.72 | 214.12 | -185.14 | 280.38 | 0.77 | -0.77 | 0.02 |
| 2,253.00 | 11.51 | 309.82 | 2,222.79 | 226.19 | -199.65 | 299.25 | 0.43 | -0.43 | 0.16 |
| 2,347.00 | 11.35 | 310.98 | 2,314.92 | 238.26 | -213.84 | 317.88 | 0.30 | -0.17 | 1.23 |
| 2,442.00 | 11.05 | 311.18 | 2,408.11 | 250.38 | -227.75 | 336.33 | 0.32 | -0.32 | 0.21 |
| 2,533.00 | 10.87 | 309.62 | 2,497.45 | 261.60 | -240.92 | 353.63 | 0.38 | -0.20 | -1.71 |
| 2,626.00 | 11.25 | 312.24 | 2,588.73 | 273.29 | -254.39 | 371.46 | 0.68 | 0.41 | 2.82 |
| 2,720.00 | 10.68 | 311.10 | 2,681.01 | 285.18 | -267.75 | 389.34 | 0.65 | -0.61 | -1.21 |
| 2,815.00 | 11.35 | 315.23 | 2,774.26 | 297.60 | -280.96 | 407.47 | 1.09 | 0.71 | 4.35 |
| 2,906.00 | 11.55 | 317.77 | 2,863.45 | 310.70 | -293.39 | 425.45 | 0.60 | 0.22 | 2.79 |
| 2,999.00 | 10.96 | 316.88 | 2,954.66 | 324.05 | -305.69 | 443.50 | 0.66 | -0.63 | -0.96 |
| 3,093.00 | 10.13 | 316.60 | 3,047.07 | 336.58 | -317.48 | 460.63 | 0.88 | -0.88 | -0.30 |
| 3,185.00 | 10.38 | 315.96 | 3,137.60 | 348.41 | -328.80 | 476.94 | 0.30 | 0.27 | -0.70 |
| 3,278.00 | 10.89 | 316.57 | 3,229.01 | 360.82 | -340.67 | 494.04 | 0.56 | 0.55 | 0.66 |
| 3,372.00 | 10.73 | 316.22 | 3,321.34 | 373.58 | -352.82 | 511.60 | 0.18 | -0.17 | -0.37 |
| 3,466.00 | 11.38 | 316.35 | 3,413.59 | 386.61 | -365.28 | 529.55 | 0.69 | 0.69 | 0.14 |
| 3,558.00 | 11.73 | 315.93 | 3,503.73 | 399.90 | -378.05 | 547.91 | 0.39 | 0.38 | -0.46 |
| 3,652.00 | 12.34 | 315.46 | 3,595.66 | 413.92 | -391.74 | 567.46 | 0.66 | 0.65 | -0.50 |
| 3,746.00 | 12.10 | 313.66 | 3,687.53 | 427.88 | -405.91 | 587.32 | 0.48 | -0.26 | -1.91 |
| 3,840.00 | 11.73 | 311.82 | 3,779.51 | 441.06 | -420.16 | 606.72 | 0.56 | -0.39 | -1.96 |
| 3,933.00 | 11.46 | 314.30 | 3,870.61 | 453.81 | -433.82 | 625.39 | 0.61 | -0.29 | 2.67 |
| 4,026.00 | 11.20 | 315.85 | 3,961.80 | 466.75 | -446.72 | 643.62 | 0.43 | -0.28 | 1.67 |
| 4,120.00 | 10.21 | 315.97 | 4,054.16 | 479.29 | -458.87 | 661.03 | 1.05 | -1.05 | 0.13 |
| 4,212.00 | 9.35 | 318.12 | 4,144.82 | 490.71 | -469.53 | 676.57 | 1.02 | -0.93 | 2.34 |
| 4,304.00 | 9.59 | 319.25 | 4,235.57 | 502.08 | -479.52 | 691.58 | 0.33 | 0.26 | 1.23 |
| 4,396.00 | 10.35 | 315.96 | 4,326.18 | 513.83 | -490.27 | 707.41 | 1.03 | 0.83 | -3.58 |

Scientific Drilling

Survey Report

| | | | |
|------------------|-----------------------------|-------------------------------------|----------------------------------|
| Company: | Newfield Exploration Co. | Local Co-ordinate Reference: | Well Monument Butte NE C-25-8-16 |
| Project: | Duchesne County, UT | TVD Reference: | GL 5416' & RKB 12' @ 5428.00ft |
| Site: | Monument Butte NE C-25-8-16 | MD Reference: | GL 5416' & RKB 12' @ 5428.00ft |
| Well: | Monument Butte NE C-25-8-16 | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | MultiUserEDM |

Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 4,489.00 | 10.22 | 315.78 | 4,417.69 | 525.75 | -501.83 | 723.96 | 0.14 | -0.14 | -0.19 |
| 4,582.00 | 9.55 | 315.15 | 4,509.30 | 537.13 | -513.02 | 739.88 | 0.73 | -0.72 | -0.68 |
| 4,676.00 | 9.05 | 314.65 | 4,602.07 | 547.86 | -523.78 | 755.04 | 0.54 | -0.53 | -0.53 |
| 4,770.00 | 7.99 | 311.06 | 4,695.03 | 557.34 | -533.97 | 768.95 | 1.26 | -1.13 | -3.82 |
| 4,863.00 | 7.33 | 306.87 | 4,787.20 | 565.15 | -543.59 | 781.33 | 0.93 | -0.71 | -4.51 |
| 4,957.00 | 6.07 | 301.70 | 4,880.56 | 571.36 | -552.62 | 792.21 | 1.48 | -1.34 | -5.50 |
| 5,052.00 | 4.80 | 292.16 | 4,975.13 | 575.50 | -560.57 | 800.92 | 1.64 | -1.34 | -10.04 |
| 5,152.00 | 4.71 | 293.02 | 5,074.79 | 578.68 | -568.22 | 808.78 | 0.11 | -0.09 | 0.86 |
| 5,246.00 | 5.04 | 292.33 | 5,168.45 | 581.76 | -575.60 | 816.35 | 0.36 | 0.35 | -0.73 |
| 5,338.00 | 4.53 | 294.44 | 5,260.13 | 584.80 | -582.64 | 823.65 | 0.59 | -0.55 | 2.29 |
| 5,431.00 | 4.01 | 288.34 | 5,352.87 | 587.34 | -589.07 | 830.16 | 0.74 | -0.56 | -6.56 |
| 5,524.00 | 3.68 | 282.24 | 5,445.66 | 588.99 | -595.07 | 835.76 | 0.56 | -0.35 | -6.56 |
| 5,618.00 | 3.08 | 287.26 | 5,539.49 | 590.38 | -600.43 | 840.71 | 0.71 | -0.64 | 5.34 |
| 5,711.00 | 2.57 | 285.45 | 5,632.38 | 591.68 | -604.83 | 844.87 | 0.56 | -0.55 | -1.95 |
| 5,806.00 | 2.36 | 280.06 | 5,727.29 | 592.59 | -608.81 | 848.46 | 0.33 | -0.22 | -5.67 |
| 5,900.00 | 3.03 | 255.86 | 5,821.19 | 592.32 | -613.12 | 851.52 | 1.39 | 0.71 | -25.74 |
| 5,994.00 | 3.43 | 239.87 | 5,915.04 | 590.30 | -617.96 | 853.83 | 1.04 | 0.43 | -17.01 |
| 6,089.00 | 3.10 | 242.69 | 6,009.89 | 587.70 | -622.71 | 855.68 | 0.39 | -0.35 | 2.97 |
| 6,184.00 | 3.29 | 240.08 | 6,104.74 | 585.16 | -627.35 | 857.49 | 0.25 | 0.20 | -2.75 |
| 6,276.00 | 2.69 | 239.64 | 6,196.62 | 582.75 | -631.50 | 859.03 | 0.65 | -0.65 | -0.48 |
| 6,368.00 | 2.93 | 232.00 | 6,288.51 | 580.21 | -635.22 | 860.15 | 0.48 | 0.26 | -8.30 |
| 6,460.00 | 3.01 | 235.52 | 6,380.38 | 577.40 | -639.06 | 861.18 | 0.22 | 0.09 | 3.83 |
| 6,553.00 | 3.10 | 232.24 | 6,473.25 | 574.47 | -643.06 | 862.26 | 0.21 | 0.10 | -3.53 |
| 6,649.00 | 2.80 | 231.54 | 6,569.12 | 571.43 | -646.95 | 863.17 | 0.31 | -0.31 | -0.73 |
| 6,709.00 | 2.80 | 231.54 | 6,629.05 | 569.60 | -649.25 | 863.69 | 0.00 | 0.00 | 0.00 |

Projection To TD

Targets

Target Name

| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
|---|---------------|--------------|----------|------------|------------|---------------|--------------|-----------------|-----------------|
| - hit/miss target | | | | | | | | | |
| - Shape | | | | | | | | | |
| MBNE C-25-8-16 Target | 0.00 | 0.00 | 5,300.00 | 627.00 | -601.00 | 7,206,926.70 | 2,041,101.89 | 40° 5' 45.717 N | 110° 4' 3.464 W |
| - actual wellpath misses by 43.78ft at 5380.19ft MD (5302.19 TVD, 586.07 N, -585.62 E) | | | | | | | | | |
| - Circle (radius 75.00) | | | | | | | | | |
| Old MBNE C-25-8-16 Bt | 0.00 | 0.00 | 6,683.00 | 667.00 | -636.00 | 7,206,966.14 | 2,041,066.25 | 40° 5' 46.112 N | 110° 4' 3.915 W |
| - actual wellpath misses by 112.12ft at 6709.00ft MD (6629.05 TVD, 569.60 N, -649.25 E) | | | | | | | | | |
| - Point | | | | | | | | | |

| | | |
|-------------------|--------------------|-------------|
| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|

| | |
|---|---|
| STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING | FORM 9 5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-67170 |
|---|---|

| | |
|--|--|
| 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. | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7.UNIT or CA AGREEMENT NAME: GMBU (GRRV) |
|--|--|

| | |
|------------------------------------|---|
| 1. TYPE OF WELL Oil Well | 8. WELL NAME and NUMBER: MON BUTTE NE FED C-25-8-16 |
|------------------------------------|---|

| | |
|--|---|
| 2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY | 9. API NUMBER: 43013332740000 |
|--|---|

| | | |
|--|--|--|
| 3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052 | PHONE NUMBER: 435 646-4825 Ext | 9. FIELD and POOL or WILDCAT: MONUMENT BUTTE |
|--|--|--|

| | |
|---|---|
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 0667 FNL 1999 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 25 Township: 08.0S Range: 16.0E Meridian: S | COUNTY: DUCHESNE 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 Approximate date work will start: 5/6/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date: | <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION | <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER | <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Non Routine Treatment"/> |

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

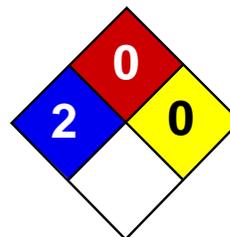
Newfield is going to conduct a 4 well absorption test program For the Mon. Butte NE Federal C-25-8-16 the planned job is listed as follows:
 Reservoir: D1 sand (zone will be isolated and tested separately)
 Chemical: Surtek Solution 2 Alkali: 0.50 wt % Na2CO3 (MSDS/TDS sheets provided) Surfactant: 1.68 wt% ORS-43LS (MSDS/TDS sheets provided) Volume to be pumped: 468.1 bbl

Accepted by the Utah Division of Oil, Gas and Mining

Date: May 07, 2013

By: *Dark Quist*

| | | |
|--|-------------------------------------|---------------------------------|
| NAME (PLEASE PRINT) Mandie Crozier | PHONE NUMBER 435 646-4825 | TITLE Regulatory Tech |
| SIGNATURE N/A | | DATE 5/6/2013 |



| | |
|---------------------|---|
| Health | 2 |
| Fire | 0 |
| Reactivity | 0 |
| Personal Protection | E |

Material Safety Data Sheet

Sodium bromide MSDS

Section 1: Chemical Product and Company Identification

Product Name: Sodium bromide

Catalog Codes: SLS3820, SLS1600

CAS#: 7647-15-6

RTECS: VZ3150000

TSCA: TSCA 8(b) inventory: Sodium bromide

CI#: Not available.

Synonym: Bromide salt of sodium

Chemical Name: Sodium Bromide

Chemical Formula: NaBr

Contact Information:

Sciencelab.com, Inc.

14025 Smith Rd.

Houston, Texas 77396

US Sales: **1-800-901-7247**

International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:

1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

| Name | CAS # | % by Weight |
|----------------|-----------|-------------|
| Sodium bromide | 7647-15-6 | 100 |

Toxicological Data on Ingredients: Sodium bromide: ORAL (LD50): Acute: 3500 mg/kg [Rat]. 7000 mg/kg [Mouse].

Section 3: Hazards Identification

Potential Acute Health Effects:

Hazardous in case of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Skin Contact:

Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

Serious Skin Contact: Not available.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions:

Do not ingest. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 25°C (77°F).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid.

Odor: Not available.

Taste: Not available.

Molecular Weight: 102.91 g/mole

Color: Not available.

pH (1% soln/water): 6.5-8.0

Boiling Point: 1390°C (2534°F)

Melting Point: 755°C (1391°F)

Critical Temperature: Not available.

Specific Gravity: 3.21 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water, methanol.

Solubility:

Easily soluble in cold water, hot water. Soluble in methanol. 1 g dissolves in 1.1 ml of water. 1 g dissolves in about 16 ml of alcohol. 1 g dissolves in 6 ml of methanol

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Incompatible materials, moisture

Incompatibility with various substances: Reactive with oxidizing agents, acids.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:

Absorbs moisture from the air but is not deliquescent. Hygroscopic. Also incompatible with alkaloidal and heavy metal salts, and Bromine Trifluoride.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 3500 mg/kg [Rat].

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans:

Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:

May cause adverse reproductive effects (male and female effects on fertility and effects on newborns and fetotoxicity) based on animal data Human: passes the placental barrier, detected in maternal milk.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: May cause mild skin irritation. Eyes: Causes eye irritation. Inhalation: May cause respiratory tract irritation. Ingestion: May cause gastrointestinal tract irritation with nausea and vomiting, abdominal pain, constipation. Bromide poisoning following acute ingestion is more rare and may affect the central nervous system (CNS depression - somnolence, confusion, ataxia, coma and other symptoms similar to chronic ingestion), cardiovascular system (hypotension, tachycardia), kidneys (acute renal failure, urinary incontinence), and respiration (acute respiratory distress syndrome). It may also cause eye disturbances such as mydriasis and nystagmus, disturbances of apparent color of objects, blurring or indistinctness of vision, apparent movement or wiggling and change in apparent size of objects, large pupils, subnormal reaction to light, diplopia, and photophobia. Chronic Potential Health Effects: Skin: Prolonged or repeated skin contact may cause skin rashes. Eyes: Prolonged or repeated eye contact may cause blepharitis, and conjunctivitis. Prolonged or repeated ingestion may cause skin rashes (bromoderma, acne, pyoderma gangrenosum, erythema multiforme), affect the liver, endocrine system (thyroid), metabolism(anorexia), blood, vision (visual disturbances, permanently decreased vision and may produce a toxic syndrome, "Bromism" which may be characterized by behavior/central nervous symptoms such CNS depression, irritability, headache, confusion, slurred speech, memory loss, lethargy, ataxia, tremor, agitation, delusion, disoriented, paranoia, aggressiveness, hallucinations, mania, fatigue, seizure, neuropathy, muscle weakness, coma. Also, in individuals with chronic bromism, the tongue may have a coated or furred appearance.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: Sodium bromide

Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC):

R36- Irritating to eyes. S2- Keep out of the reach of children. S24/25- Avoid contact with skin and eyes. S46- If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

Section 16: Other Information

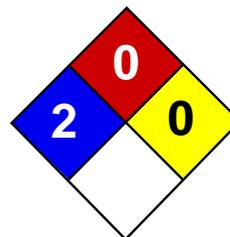
References: Not available.

Other Special Considerations: Not available.

Created: 10/10/2005 08:26 PM

Last Updated: 06/09/2012 12:00 PM

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ScienceLab.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if ScienceLab.com has been advised of the possibility of such damages.



| | |
|---------------------|---|
| Health | 2 |
| Fire | 0 |
| Reactivity | 0 |
| Personal Protection | E |

Material Safety Data Sheet

Sodium bromide MSDS

Section 1: Chemical Product and Company Identification

Product Name: Sodium bromide

Catalog Codes: SLS3820, SLS1600

CAS#: 7647-15-6

RTECS: VZ3150000

TSCA: TSCA 8(b) inventory: Sodium bromide

CI#: Not available.

Synonym: Bromide salt of sodium

Chemical Name: Sodium Bromide

Chemical Formula: NaBr

Contact Information:

Sciencelab.com, Inc.

14025 Smith Rd.

Houston, Texas 77396

US Sales: **1-800-901-7247**

International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:

1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

| Name | CAS # | % by Weight |
|----------------|-----------|-------------|
| Sodium bromide | 7647-15-6 | 100 |

Toxicological Data on Ingredients: Sodium bromide: ORAL (LD50): Acute: 3500 mg/kg [Rat]. 7000 mg/kg [Mouse].

Section 3: Hazards Identification

Potential Acute Health Effects:

Hazardous in case of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Skin Contact:

Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

Serious Skin Contact: Not available.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions:

Do not ingest. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 25°C (77°F).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid.

Odor: Not available.

Taste: Not available.

Molecular Weight: 102.91 g/mole

Color: Not available.

pH (1% soln/water): 6.5-8.0

Boiling Point: 1390°C (2534°F)

Melting Point: 755°C (1391°F)

Critical Temperature: Not available.

Specific Gravity: 3.21 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water, methanol.

Solubility:

Easily soluble in cold water, hot water. Soluble in methanol. 1 g dissolves in 1.1 ml of water. 1 g dissolves in about 16 ml of alcohol. 1 g dissolves in 6 ml of methanol

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Incompatible materials, moisture

Incompatibility with various substances: Reactive with oxidizing agents, acids.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:

Absorbs moisture from the air but is not deliquescent. Hygroscopic. Also incompatible with alkaloidal and heavy metal salts, and Bromine Trifluoride.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 3500 mg/kg [Rat].

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans:

Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:

May cause adverse reproductive effects (male and female effects on fertility and effects on newborns and fetotoxicity) based on animal data Human: passes the placental barrier, detected in maternal milk.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: May cause mild skin irritation. Eyes: Causes eye irritation. Inhalation: May cause respiratory tract irritation. Ingestion: May cause gastrointestinal tract irritation with nausea and vomiting, abdominal pain, constipation. Bromide poisoning following acute ingestion is more rare and may affect the central nervous system (CNS depression - somnolence, confusion, ataxia, coma and other symptoms similar to chronic ingestion), cardiovascular system (hypotension, tachycardia), kidneys (acute renal failure, urinary incontinence), and respiration (acute respiratory distress syndrome). It may also cause eye disturbances such as mydriasis and nystagmus, disturbances of apparent color of objects, blurring or indistinctness of vision, apparent movement or wiggling and change in apparent size of objects, large pupils, subnormal reaction to light, diplopia, and photophobia. Chronic Potential Health Effects: Skin: Prolonged or repeated skin contact may cause skin rashes. Eyes: Prolonged or repeated eye contact may cause blepharitis, and conjunctivitis. Prolonged or repeated ingestion may cause skin rashes (bromoderma, acne, pyoderma gangrenosum, erythema multiforme), affect the liver, endocrine system (thyroid), metabolism(anorexia), blood, vision (visual disturbances, permanently decreased vision and may produce a toxic syndrome, "Bromism" which may be characterized by behavior/central nervous symptoms such CNS depression, irritability, headache, confusion, slurred speech, memory loss, lethargy, ataxia, tremor, agitation, delusion, disoriented, paranoia, aggressiveness, hallucinations, mania, fatigue, seizure, neuropathy, muscle weakness, coma. Also, in individuals with chronic bromism, the tongue may have a coated or furred appearance.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: Sodium bromide

Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC):

R36- Irritating to eyes. S2- Keep out of the reach of children. S24/25- Avoid contact with skin and eyes. S46- If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/10/2005 08:26 PM

Last Updated: 06/09/2012 12:00 PM

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ScienceLab.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if ScienceLab.com has been advised of the possibility of such damages.



WELLBROM[®] 12.5 Completion Fluid

Description

WELLBROM 12.5 is a clear brine completion fluid based on an aqueous solution of sodium bromide.

Applications

Because of its high density, WELLBROM 12.5 is used extensively as a completion, fracturing, workover and packer fluid in oilfield applications.

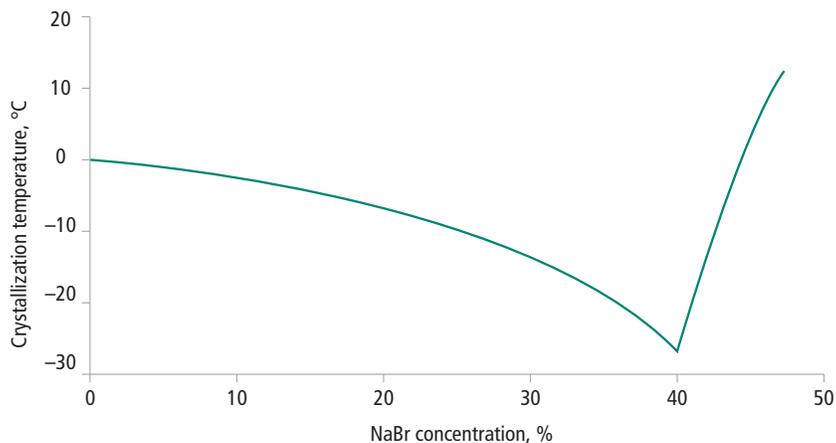
Specifications

| | |
|--------------------------------|--------|
| Appearance | Clear |
| Density, 70°F (21.1°C), lb/gal | ≥12.30 |

Physical properties

| | |
|---------------------------------|--|
| Appearance | Clear liquid, light to water-white color |
| Boiling point, °F (°C) | 230–243 (110–117) |
| Flash point | None |
| Odor | Slight |
| Specific gravity, 70°F (21.1°C) | ≥1.47 |
| Color, APHA | ≤30 |
| pH (diluted 1:10 with water) | 7.0–8.5 |

Variation of the crystallization temperature of NaBr with concentration.



Compatibility

Compatible materials of construction: This product is compatible with most non-metallic materials of construction, including fiber-glass-reinforced plastic (vinyl ester and polyester FRP), polyvinyl chloride (PVC), chlorinated polyvinyl chloride (CPVC), high-density polyethylene, polypropylene, Viton®, Teflon®, natural rubber, chlorobutyl rubber, Hypalon®, Halar® ethylene chlorotrifluoroethylene, Tefzel® ethylene/tetrafluoroethylene copolymer and most high-performance polytetrafluoroethylene-based gasket materials such as W.L. Gore GORE-TEX® and UPG Style 800, and Garlock Gylon® styles 3504 and 3500.

Titanium and high-nickel alloys such as Incone® 625 and 686, and Hastelloy® C-22 and C276 are also suitably compatible.

Incompatible materials of construction: The compatibility of this product with common metals depends on storage conditions and the environment the material is in. Aluminum, brass, carbon steel, copper, stainless steel and other common metals are generally not suitable for use. Carbon steel and copper can result in discoloration of the product. Aluminum suffers pitting attack. Dissolved oxygen increases the corrosion rate of stainless steel.

Recommended materials of construction for storage tanks: Vinyl ester FRP such as Ashland Derakane® 411 and 470, and bisphenol A fumarate polyester FRP such as Reichhold Atlae 6694 are suitable for use.

Recommended materials of construction for piping and valves: For piping, an adhesive socket FRP system such as the Reinforced Plastics Systems P150 series or the Smith Fibercast CL-2030 series is suitable. A flat-faced FRP ball valve such as the Nil-Cor 310 series is a good choice for FRP piping. Polypropylene-lined steel also is suitable. For low-pressure lines (<5 psig) such as overflows and drains, solid PVC or CPVC piping can be used, but should be safeguarded from mechanical damage.

Shipping information**Container information:**

Available in tank trailers and drums

Shipping classification:

Not regulated for transportation

Safety and handling information

For specific safety, toxicity and handling information, please refer to the material safety data sheet for this product.

Chemical registration numbers

| | |
|---------|-----------|
| CAS: | 7647-15-6 |
| EINECS: | 231-599-9 |
| MITI: | 1-113 |

The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Albemarle Corporation and its subsidiaries. It is the responsibility of the user to comply with all the applicable laws and regulators, and to provide a safe workplace. The user should consider any health or safety hazards or information contained only as a guide, and should take those precautions that are necessary or prudent to instruct employees and to develop work practice procedures in order to promote a safe work environment. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein materials or processes in violation of existing or future patent.



AMERICAS 451 Florida Street • Baton Rouge, Louisiana 70801-1765 • Tel +1 225-388-7402 or 800-535-3030 • Fax +1 225-388-7848

EUROPE Parc Scientifique de LLN • Rue du Bosquet 9 • B-1348 Louvain-la-Nueve Sud, Belgium • Tel +32-10-48-1711 • Fax +32-10-48-1717

ASIA PACIFIC 16h Floor, Fukoku Science Building • 2-2-2, Uchisawai-cho • Chiyoda-Ku, Tokyo 100-0011, Japan • Tel +81-3-5251-0796 • Fax: +81-3-3500-5623

ASIA PACIFIC China World Tower, Room 1317 • No. 1 Jan Guo Mon Wai Avenue • Beijing, 100004 China • Tel +86-10-6505-4153 or +86-10-6505-4154 • Fax +86-10-6505-4150

